# **ARBORIST REPORT**

2280 Dundas St. West Toronto, Ontario

June 29, 2022

# Prepared for:

PFS Studio Attn: Vinh Van BES MLA 174 Spadina Avenue Toronto ON M5T 2C2

### Prepared by:

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URBAN FOREST INNOVATIONS INC

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NB: This Arborist Report has been prepared using the latest drawings and information provided by the client and/or agents and may be intended for inclusion in a site plan approval or similar planning submission. Any subsequent design or site plan changes affecting trees may require revisions to this report. New drawings and information should be provided to UFI prior to report submission to municipal planning authorities.

Links (URLs) provided to web-based resources are current to the date of the report.

#### EXECUTIVE SUMMARY

Urban Forest Innovations Inc. (UFI) has been retained by PFS Studio to prepare an arborist report for the proposed development application at 2280 Dundas St. West in Toronto, Ontario. The purpose of the arborist report is to document existing tree and site conditions, to evaluate anticipated impacts to site trees which may occur as a result of the proposed development, and to identify required and recommended tree protection measures and regulatory requirements associated with the proposed development.

In total, 88 trees are addressed in this report. Proposed tree removals and injuries requiring permit approval are summarized in Table 1, below. Based upon the results of the present assessment, it has been determined that 40 trees may be retained and 48 trees will require removal. The proposed works will require the implementation of specific tree protection measures to ensure effective tree retention, including tree protection fencing, root-sensitive excavation and root pruning, and arborist site supervision.

Proposed Action	Municipal Trees	Subtotal	Private Regulated Trees	Subtotal	Total
Injure	-	0	#64, 66, 69	3	3
Remove (Development)	<b>#</b> 5, 6	2	#2, 3, 8, 11, 12, 13, 23, 52, 54, 86	10	12
Remove (Condition)	-	0	#59, 70, 72	3	3

 Table 1: Summary of regulated tree actions at 2280 Dundas St. W., Toronto, ON.

# **INTRODUCTION**

Urban Forest Innovations Inc. has been requested by PFS Studio to prepare an arborist report for the proposed development at 2280 Dundas St. West in Toronto, Ontario. The proposed site works include the following activities:

- Demolition of existing buildings and parking lot.
- Construction of high-density residential housing with ground level retail and accessways.
- Installation of landscaping and other amenities.

This arborist report reviews the potential impacts of the proposed works upon 88 trees within or close to the limits of disturbance, and outlines required and recommended tree protection measures and regulatory requirements associated with the proposed development. General tree maintenance recommendations are also provided where appropriate. The report should be read in conjunction with all other servicing, grading and landscaping plans prepared for the project.

# SITE OBSERVATIONS

Field observations were made on June 20, 2022, by Anna Mernieks, ISA Certified Arborist ON-2224A. There was no construction activity on the site at the time of the field observations. Trees within 6 metres of the potential limits of disturbance are included in the inventory. Trees were located using the latest site drawings and information provided by the client; trees for which no surveyed locations were provided were positioned approximately with the aid of field reference markers. Tree diameter was measured at 1.4 metres above grade (DBH) and trees were assessed for health, structural condition, and risk potential. Tree groups were identified where appropriate. All trees were assessed from the ground level. No trees were tagged as part of the inventory. A full explanation of tree assessment categories is included in Appendix 2 – Tree Inventory Attributes.

#### **RESULTS AND DISCUSSION**

This section of the report outlines the key issues related to the proposed works from an arboricultural and tree preservation perspective. Specific recommendations regarding tree protection are outlined. General recommendations are also provided in Appendix 5.

#### **By-laws and Legislation**

By-laws and legislation enacted by the City of Toronto and/or the Province of Ontario regulate the injury or destruction of trees depending upon their location, size and other factors.

# City of Toronto – Private Trees (Category 1 and 2)

22 inventoried trees (#2, 3, 8, 11, 12, 13, 15, 17, 23, 52, 54, 59, 64, 66, 69, 70, 72, 73, 76, 78, 79, 86) are regulated pursuant to the City of Toronto private tree by-law, officially known as City of Toronto Municipal

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Code, Chapter 813, Article III – 'Private Tree Protection'. This by-law regulates the injury and destruction of all trees equal to or greater than 30 cm diameter at breast height (DBH, or 1.4 m above grade) located on private property.

### City of Toronto – Park Trees (Category 3)

No inventoried trees are regulated pursuant to the City of Toronto parks by-law, officially known as City of Toronto Municipal Code Chapter 608 – 'Parks', and specifically pursuant to Article VII – 'Trees'. This bylaw regulates injury or destruction of any trees located within municipal parks.

# City of Toronto – Ravine Trees (Category 4)

No inventoried trees are regulated pursuant to the City of Toronto ravine and natural feature protection (RNFP) by-law, officially known as City of Toronto Municipal Code Chapter 658 – 'Ravine and Natural Feature Protection.' This by-law regulates a number of activities within specially-designated areas, including injury or destruction of trees of *any* diameter.

# City of Toronto – Street Trees (Category 5)

2 inventoried trees (#5, 6) are regulated pursuant to the City of Toronto street tree by-law, officially known as City of Toronto Municipal Code, Chapter 813, Article II – 'Trees on City Streets'. This by-law regulates injury and destruction of all trees within the municipal road right-of-way.

#### City of Toronto – Unregulated Trees

64 inventoried trees (#1, 4, 7, 9, 10, 14, 16, 18, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 53, 55, 56, 57, 58, 60, 61, 62, 63, 65, 67, 68, 71, 74, 75, 77, 80, 81, 82, 83, 84, 85, 87, 88) are not regulated pursuant to any municipal tree protection by-laws.

#### Boundary Trees – Ontario Forestry Act, R.S.O. 1990

The Provincial *Forestry Act, R.S.O. 1990* states:

10. (2) Every tree whose trunk is growing on the boundary between adjoining lands is the common property of the owners of the adjoining lands. 1998, c. 18, Sched. I, s. 21.

(3) Every person who injures or destroys a tree growing on the boundary between adjoining lands without the consent of the land owners is guilty of an offence under this Act. 1998, c. 18, Sched. I, s. 21.

7 inventoried trees (#2, 8, 9, 10, 11, 14, 30) appear to be growing on the boundary between the subject site and the adjacent properties.

#### Endangered, Rare or Protected Species – Endangered Species Act, 2007

The Provincial *Endangered Species Act, 2007* (ESA) provides for the conservation of endangered or threatened species in Ontario. The ESA identifies Species at Risk (SAR) based on the best available scientific information, protects SAR and their habitats, promotes the recovery of species that are at risk, and promotes stewardship activities to assist in the protection and recovery of SAR.

No endangered, rare or otherwise protected tree species were observed within the limits of proposed works.

#### Tree Removal

Tree removal will be necessary to facilitate the proposed works. Recommendations for tree removal are based upon consideration of the anticipated impacts upon trees due to implementation of the proposed works, the immediate and forecasted health and structural condition of the tree, and the ability of the tree to make continued contributions to the newly modified landscape.

#### Project Works

The proposed works will require the removal of 39 trees:

- Tree #2, a privately-owned 30 cm diameter Norway maple (*Acer platanoides*), is proposed for removal to enable construction of a residential building.
- Tree #3, a privately-owned multi-stemmed (30, 15, 15 cm diameters) Norway maple (*Acer platanoides*), is proposed for removal to enable construction of a residential building.
- Tree #8, a privately-owned 120 cm diameter Manitoba maple (*Acer negundo*), is proposed for removal to enable construction of a pedestrian walkway.
- Tree #11, a privately-owned 36 cm diameter Manitoba maple (*Acer negundo*), is proposed for removal to enable construction of a pedestrian walkway.
- Tree #12, a privately-owned 80 cm diameter Manitoba maple (*Acer negundo*), is proposed for removal to enable construction of a pedestrian walkway.
- Tree #13, a privately-owned multi-stemmed (52, 39 cm diameters) Manitoba maple (*Acer negundo*), is proposed for removal to enable construction of a pedestrian walkway.
- Tree #23, a privately-owned 79 cm diameter Siberian elm (*Ulmus pumila*), is proposed for removal to enable construction of a crash fence.
- Tree #52, a privately-owned 30 cm diameter Manitoba maple (*Acer negundo*), is proposed for removal to enable construction of a pedestrian walkway.
- Tree #54, a privately-owned 38 cm diameter Manitoba maple (*Acer negundo*), is proposed for removal to enable construction of a pedestrian walkway.

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- Tree #86, a privately-owned multi-stemmed (30, 25, 21 cm diameters) Siberian elm (*Ulmus pumila*), is proposed for removal to enable construction of an accessway.
- Tree #5, a City-owned 26 cm diameter Norway maple (*Acer platanoides*), is proposed for removal to enable construction of a pedestrian walkway.
- Tree #6, a City-owned 34 cm diameter Norway maple (*Acer platanoides*), is proposed for removal to enable construction of a pedestrian walkway.
- 27 trees not regulated pursuant to any bylaws (#1, 4, 7, 9, 10, 14, 22, 27, 29, 30, 31, 36, 39, 42, 45, 46, 47, 53, 65, 80, 81, 82, 83, 84, 85, 87, 88) are proposed for removal to enable the construction of buildings and accessways.

# Condition

9 inventoried trees are recommended for removal for reasons unrelated to the proposed works:

- Trees #61, 62, 63, and 74, located on the subject site, were assessed as having failed at the time of field observations and should be removed prior to the commencement of site works.
- Trees #59, 70, and 72, located on the subject site, were assessed as being in poor condition (poor trunk integrity) at the time of field observations and should be removed prior to the commencement of site works. As the trees are confirmed to be in poor condition, permit exemption should be sought for their removal.
- Trees #55 and 56, two unregulated (22, 23 cm diameters) Manitoba maples (*Acer negundo*), located on the subject site, was assessed as being in poor condition (poor trunk integrity) at the time of field observations and should be removed prior to the commencement of site works.

# Tree Retention

All other trees addressed in this report are proposed for retention. This section outlines specific tree preservation and protection measures for retained trees. General tree protection recommendations and specifications are found in Appendix 5.

All trees to be retained within or adjacent to the limits of project works are designated for Preservation, Protection, or Injury.

# Tree Preservation

No specific tree protection measures are recommended for 7 trees (#17, 18, 19, 67, 68, 78, 79), which are located beyond anticipated construction limits and/or are protected by existing landscape features.

# Tree Protection

Retained trees in proximity to the proposed works shall be protected by restricting access and land use within tree protection zones (TPZs), as through the installation of tree preservation fencing (or hoarding)

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that satisfies the minimum required distance (TPZ) for each tree, where possible. Minimum required TPZ distances are specified in Appendix 1, and recommended fencing configurations are illustrated in Appendix 4. Fencing is to be established in advance of all proposed works, including but not limited to material and equipment delivery, staging and storage, demolitions, excavation and grading work, and new construction activity.

Specifications for the establishment of protection fencing and signage are outlined further in Appendix 5 – Section 5.2.1.1.

#### Tree Injury

During site works, retained trees may undergo injury, which is understood to be the encroachment of established tree protection zones (TPZs), regardless of the extent of actual physical damage sustained by the retained tree.

In addition to tree protection fencing, trees designated for injury at 2280 Dundas St. West require the implementation of the following supplemental tree protection measures:

Root-Sensitive Excavation and Root Pruning – The tree protection zones of 9 inventoried trees (#32, 33, 41, 43, 44, 51, 64, 66, 69) will be impacted by excavation to enable the proposed works, resulting in injury to by-law regulated trees #64, 66, 69. All excavation within TPZs shall be accomplished by root-sensitive excavation utilizing hand-digging, hydrovac or pneumatic soil excavation (e.g., Airspade). Excavations must be supervised by a Certified Arborist, who must be enabled to stop works if, during the course of excavation, significant structural or transport roots (greater than approximately 25mm diameter) are encountered, in order to properly prune the roots. Specifications for root-sensitive excavation and root pruning are outlined in Appendix 5 – Sections 5.2.1.4 and 5.2.1.5.

#### Tree Risk and Required Tree Maintenance

At the time of inspection, there were no immediate risks posed by any trees within the project limits.

#### **By-law and Permit Requirements**

A City of Toronto 'Application to Injure or Destroy Trees' must be filled out detailing the proposed injury or removal of 18 regulated trees (Table 2).

Tree Number	Diameter (cm)	Remove/Injure	City/Private/Boundary/Neighbour
2	30	Remove	Boundary
3	30, 15, 15	Remove	Private
5	26	Remove	Municipal
6	34	Remove	Municipal

**Table 2:** Bylaw regulated trees proposed for removal or injury.

Tree Number	Diameter (cm)	Remove/Injure	City/Private/Boundary/Neighbour
8	120	Remove	Boundary
11	36	Remove	Boundary
12	80	Remove	Private
13	52, 39	Remove	Private
23	79	Remove	Private
52	30	Remove	Private
54	38	Remove	Private
59	35	Remove (Condition)	Private
64	107	Injure	Private
66	69	Injure	Private
69	71	Injure	Private
70	78	Remove (Condition)	Private
72	37	Remove (Condition)	Private
86	30, 25, 21	Remove	Private

Permit applications must be submitted and approved prior to commencement of site works.

An 'Application to Injure or Destroy Trees' form and instructions for permit application submissions can be found online at:

http://wx.toronto.ca/inter/clerks/fit.nsf/0/b8c764c03d39912c852584d500725c4f/\$File/Application%2B to%2BInjure%2Bor%2BDestroy%2BTrees%2BJan%2B2020%2B.pdf

#### **Compensation Planting**

The approval of a permit to injure or destroy trees may be subject to the planting of replacement trees or payment of equivalent cash-in-lieu, which is currently valued at \$583 per tree. The final compensation planting ratios or value of cash-in-lieu payments will be determined by the City of Toronto upon review of this report and associated project plans.

#### Boundary Trees – Ontario Forestry Act, R.S.O. 1990

7 inventoried trees (#2, 8, 9, 10, 11, 14, 30) appear to be growing on the boundary between the subject site and adjacent properties. Given the location of trees #2, 8, 9, 10, 11, 14, 30 on the boundary of the subject site, the property owner or their agent should receive confirmation of the adjacent property owners' consent to injure these trees. This will likely ensure compliance with the provisions of the provincial *Forestry Act, 1990*, which regulates the injury and destruction of shared trees.

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#### **CONCLUSION**

There are 88 trees associated with the proposed development at 2280 Dundas St. West in Toronto, Ontario. The proposed works will require the implementation of specific tree protection measures to ensure effective tree preservation. 12 by-law regulated trees will require removal and 3 by-law regulated trees will require injury to enable the proposed works. The removal of 3 by-law regulated trees is recommended due to poor condition. A 'Permit to Injure or Destroy Trees' will likely be required to enable the proposed removals and injuries, although permit exemption should be sought for the removal of trees #59, 70, and 72.

With the implementation of the recommendations provided in this report, no significant adverse effects are anticipated as a result of the proposed works upon the long-term health and condition of inventoried trees that have been designated for retention. It is important that good arboricultural practices be undertaken during the entire course of construction. No material storage or construction access shall take place within tree protection zones (TPZs); sensitive excavation and root pruning shall be undertaken, as required; and any necessary branch and/or root pruning shall be undertaken by an ISA Certified Arborist.

# APPENDIX 1 – TREE INVENTORY

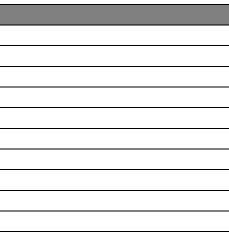
Table 3: Tree inventory, 2280 Dundas St. W., Toronto, Ontario. Tree assessments are based upon field observations undertaken on June 20, 2022, by Anna Mernieks, ISA Certified Arborist ON-2224A. Attribute definitions are provided in Appendix 2.

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Tree	Common Name	Scientific Name	DBH	CW	TI	CS	CV	TPZ	Cat.	Loc.	Rec.	Comments
1	Spruce Species	Picea sp.	20	2	Ρ	F	-	-	-	S	R	DBH estimated.
2	Norway Maple	Acer platanoides	30	8	G	F	G	2.4	1	В	R	DBH estimated.
3	Norway Maple	Acer platanoides	30, 15, 15	5	G	F	G	2.4	1	S	R	DBH estimated.
4	Unidentified Species		15	2	Р	Р	-	-	-	Ν	R	DBH estimated.
5	Norway Maple	Acer platanoides	26	4	F	F	Ρ	1.8	5	М	R	DBH measured at 1.0 m.
6	Norway Maple	Acer platanoides	34	6	G	F	F	2.4	5	Μ	R	
7	Manitoba Maple	Acer negundo	15, 10, 10	4	F	Р	G	1.8	-	S	R	DBH estimated.
8	Manitoba Maple	Acer negundo	120	15	F	F	G	7.2	1	В	R	DBH estimated.
9	Manitoba Maple	Acer negundo	20, 15, 15	5	F	F	G	1.8	-	В	R	Growing in fence
10	Manitoba Maple	Acer negundo	10, 8, 8	3	F	F	G	1.8	-	В	R	Growing in fence
11	Manitoba Maple	Acer negundo	36	6	F	Ρ	G	2.4	1	В	R	Growing in fence
12	Manitoba Maple	Acer negundo	80	8	F	F	G	4.8	1	S	R	
13	Manitoba Maple	Acer negundo	52, 39	8	F	F	G	3.6	1	S	R	
14	Manitoba Maple	Acer negundo	25	5	F	F	G	1.8	-	В	R	DBH estimated; growing in fence
15	White Mulberry	Morus alba	65	8	F	F	G	4.2	1	S	Р	
16	White Mulberry	Morus alba	25	5	F	F	G	1.8	-	S	Р	Growing in fence; DBH estimated
17	Norway Maple	Acer platanoides	35	5	F	F	G	2.4	2	Ν	-	DBH estimated.
18	Norway Maple	Acer platanoides	20, 15, 15	5	F	F	G	1.8	-	Ν	-	One dead stem
19	Norway Maple	Acer platanoides	25	5	G	F	G	1.8	-	Ν	-	DBH estimated.
20	Tree-of-heaven	Ailanthus altissima	11	4	F	G	G	1.8	-	S	Р	Growing in fence
21	Tree-of-heaven	Ailanthus altissima	13	4	G	G	G	1.8	-	S	Р	
22	Manitoba Maple	Acer negundo	15, 10, 10	5	F	F	G	1.8	-	S	R	Growing in fence
23	Siberian Elm	Ulmus pumila	79	12	G	F	G	4.8	1	S	R	
24	Ash Species	Fraxinus sp.	4	1	G	G	G	1.2	-	S	Р	
25	White Spruce	Picea glauca	4	1	G	F	F	1.2	-	S	Р	
26	Silver Maple	Acer saccharinum	5	1	G	G	G	1.2	-	S	Р	
27	White Spruce	Picea glauca	5	1	G	F	G	1.2	-	S	R	
28	White Spruce	Picea glauca	3	1	G	G	F	1.2	-	S	Р	
29	Silver Maple	Acer saccharinum	5	2	G	F	G	1.2	-	S	R	
30	Siberian Elm	Ulmus pumila	17	3	G	F	G	1.8	-	В	R	
31	Manitoba Maple	Acer negundo	10	4	F	F	G	1.8	-	S	R	
32	Siberian Elm	Ulmus pumila	21, 18, 17	8	F	F	G	1.8	-	S	-	
33	Siberian Elm	Ulmus pumila	12	4	G	F	G	1.8	-	S	Р	
34	Manitoba Maple	Acer negundo	13	4	G	F	G	1.8	-	S	Р	
35	Manitoba Maple	Acer negundo	15, 5, 5	5	F	F	G	1.8	-	S	Р	
36	Manitoba Maple	Acer negundo	11, 11, 8	5	Ρ	F	G	1.8	-	S	R	
37	Siberian Elm	Ulmus pumila	23	4	G	F	G	1.8	-	S	Р	
38	Siberian Elm	Ulmus pumila	21	4	G	F	G	1.8	-	S	Р	Memorial tree
L		-										



Siberian Elm         Offware pagning         17, 17, 10         4         F         F         G         18         -         S         R           40         Munitaba Maple         Accr regundo         11, 13, 13         G         F         F         G         18         -         S         P           40         Munitaba Maple         Accr regundo         14, 13, 13         6         F         G         18         -         S         P           41         Munitaba Maple         Accr regundo         16, 6         8         G         18         -         S         R           44         Manitaba Maple         Accr regundo         16, 6         8         G         18         -         S         R         G         Graving in ferror           44         Manitaba Maple         Accr regundo         18, 15, 10         S         F         G         18         S         P           44         Manitaba Maple         Accr regundo         21, 14, 18         F         F         G         18         S         P           43         Manitaba Maple         Accr regundo         23, 5         F         F         G         18         S	Tree	Common Name	Scientific Name	DBH	CW	TI	CS	CV	TPZ	Cat.	Loc.	Rec.	Comments
10         Manifolds Maple         Acer negundo         14.13.12         6         F         6         18         -         S         P           41         Manifolds Maple         Acer negundo         14.13.12         6         F         6         18         -         S         P           43         Manifolds Maple         Acer negundo         20.18.11         8         F         6         18         -         S         P           44         Manifolds Maple         Acer negundo         10.6         8         C         18         -         S         P           45         Manifolds Maple         Acer negundo         10.1         3         F         F         6         1.8         -         S         R           46         Manifolds Maple         Acer negundo         27.14.14         8         F         F         G         1.8         S         P           50         Manifolds Maple         Acer negundo         27.14.14         8         F         F         G         1.8         S         P           51         Manifolds Maple         Acer negundo         27.15         6         1.8         S         P         DBH estima													
11       Maintola Maple       Acer negundo       14, 14, 12       6       6       F       6       1.8       -       S       P         12       Manitola Maple       Acer negundo       14, 14, 12       6       6       F       6       1.8       -       S       P         14       Manitola Maple       Acer negundo       16, 6       8       6       F       6       1.8       -       S       P         44       Manitola Maple       Acer negundo       10, 13       F       F       6       1.8       -       S       P         44       Manitola Maple       Acer negundo       12, 14       S       F       6       1.8       -       S       R         47       Manitola Maple       Acer negundo       27, 14, 14       S       F       F       6       1.8       -       S       P         48       Manitola Maple       Acer negundo       27, 14, 14       S       F       F       6       1.8       -       S       P         50       Manitola Maple       Acer negundo       25, 15       F       F       6       1.8       -       S       P       Deli estimated at 1.0 m; growi			-			-				_	-		
12       Maintoba Maple       Acer negundo       14, 14, 12       6       6       7       6       1.8       -       S       R         13       Manitoba Maple       Acer negundo       10, 6       8       F       F       6       1.8       -       S       P         44       Manitoba Maple       Acer negundo       10       3       F       F       6       1.8       -       S       P         45       Manitoba Maple       Acer negundo       10       3       F       F       6       1.8       -       S       R         46       Manitoba Maple       Acer negundo       21, 14       S       F       F       6       1.8       -       S       P         50       Manitoba Maple       Acer negundo       27, 14, 14       8       F       F       6       1.8       -       S       P         50       Manitoba Maple       Acer negundo       25       6       F       F       6       1.8       -       S       P       Delt       Stimated at 1.0 m; growing in fence         51       Manitoba Maple       Acer negundo       23       5       F       6       1.8		•								-			
13         Manitoba Mapie         Accr regundo         20,18,11         8         F         F         G         1.8         >         5         P           14         Manitoba Mapie         Accr regundo         16,6         8         6         F         6         1.8         -         5         R         Growing in fence           14         Manitoba Mapie         Accr regundo         18,15,10         5         F         F         6         1.8         -         5         R           14         Manitoba Mapie         Accr regundo         27,14,14         8         F         F         6         1.8         -         5         R           14         Manitoba Mapie         Accr regundo         27,14,14         8         F         F         6         1.8         -         5         P           14         Manitoba Mapie         Accr regundo         27,14,14         8         F         6         1.8         -         5         P           15         Manitoba Mapie         Accr regundo         23         5         F         6         1.8         -         5         R         Cond           15         Manitoba Mapie		·	-			G	F			-	S	R	
45       Manitoba Maple       Acer negundo       10       3       F       F       6       1.8       -       S       R       Growing in fence         46       Manitoba Maple       Acer negundo       12, 11, 10       S       F       F       6       1.8       -       S       R         47       Manitoba Maple       Acer negundo       21, 14, 14       8       F       F       G       1.8       -       S       R         49       Manitoba Maple       Acer negundo       21, 14, 14       8       F       F       G       1.8       -       S       P         50       Manitoba Maple       Acer negundo       12, 14, 14       8       F       F       G       1.8       -       S       P         51       Manitoba Maple       Acer negundo       25, 19       6       F       F       G       1.8       -       S       R       DBH estimated at 1.0 m; growing in fence         54       Manitoba Maple       Acer negundo       23, 21, 18       F       F       G       1.8       S       R (Cond)         55       Manitoba Maple       Acer negundo       23, 21, 19       8       F       F	43	Manitoba Maple	-		8	F	F	G	1.8	-	S	Р	
Image: Manitoba Maple         Acc: negundo         13, 10, 10, 5         F         F         F         F         C         1.8         -         S         R           47         Manitoba Maple         Acc: negundo         24, 14         S         F         F         G         1.8         -         S         R           48         Manitoba Maple         Acc: negundo         11, 8         S         F         F         G         1.8         -         S         P           50         Manitoba Maple         Acc: negundo         25, 19         6         F         F         G         1.8         -         S         P           51         Manitoba Maple         Acc: negundo         25         6         F         F         G         1.8         -         S         DBH estimated at 1.0 m; growing in fence           52         Manitoba Maple         Acc: negundo         22, 20         5         F         G         1.8         -         S         R         DBH estimated at 1.0 m; growing in fence           54         Manitoba Maple         Acc: negundo         23, 5         F         F         G         1.8         -         S         R (Cond)           <	44	Manitoba Maple	Acer negundo	16, 6	8	G	F	G	1.8	-	S	Р	
47       Manitoba Maple       Acer negundo       24, 14       5       F       F       G       1.8       -       S       R         48       Manitoba Maple       Acer negundo       27, 14, 14       8       F       F       G       1.8       -       S       P         49       Manitoba Maple       Acer negundo       11, 8       F       F       G       1.8       -       S       P         50       Manitoba Maple       Acer negundo       25, 19       6       F       F       G       1.8       -       S       P         51       Manitoba Maple       Acer negundo       33       S       F       F       G       1.8       -       S       P       DBH estimated at 1.0 m; growing in fence         53       Manitoba Maple       Acer negundo       22, 20       5       F       F       G       1.8       -       S       R       DBH estimated at 1.0 m; growing in fence         54       Manitoba Maple       Acer negundo       23, 21       9       F       F       G       1.8       -       S       R (Cond)         56       Manitoba Maple       Acer negundo       12, 5       4       F <t< th=""><th>45</th><td>Manitoba Maple</td><td>Acer negundo</td><td>10</td><td>3</td><td>F</td><td>F</td><td>G</td><td>1.8</td><td>-</td><td>S</td><td>R</td><td>Growing in fence</td></t<>	45	Manitoba Maple	Acer negundo	10	3	F	F	G	1.8	-	S	R	Growing in fence
48         Manitoba Maple         Acer negundo         27, 14, 14         8         F         F         G         1.8         S         P           49         Manitoba Maple         Acer negundo         12, 8         S         F         G         1.8         S         P           50         Manitoba Maple         Acer negundo         25, 9         F         F         G         1.8         S         P           51         Manitoba Maple         Acer negundo         25         G         F         F         G         1.8         S         P           51         Manitoba Maple         Acer negundo         25         F         F         G         1.8         S         R         DBH estimated at 1.0 m; growing in fence           52         Manitoba Maple         Acer negundo         23         S         F         F         G         1.8         S         R         DBH estimated at 1.0 m; growing in fence           54         Manitoba Maple         Acer negundo         23, 21, 19         8         F         F         G         1.8         S         R         Cond)           57         Manitoba Maple         Acer negundo         23, 21, 19         8 <t< th=""><th>46</th><td>Manitoba Maple</td><td>Acer negundo</td><td>18, 15, 10</td><td>5</td><td>F</td><td>F</td><td>G</td><td>1.8</td><td>-</td><td>S</td><td>R</td><td></td></t<>	46	Manitoba Maple	Acer negundo	18, 15, 10	5	F	F	G	1.8	-	S	R	
49       Manitoba Maple       Acer negundo       11, 8       5       F       F       G       1.8       -       S       P         50       Manitoba Maple       Acer negundo       25, 19       G       F       F       G       1.8       -       S       P         51       Manitoba Maple       Acer negundo       25       G       F       F       G       1.8       -       S       P         53       Manitoba Maple       Acer negundo       25       S       F       F       G       2.4       1       S       R       DBH estimated at 1.0 m; growing in fence         54       Manitoba Maple       Acer negundo       22, 20       S       P       F       G       1.8       -       S       R       DBH estimated at 1.0 m; growing in fence         54       Manitoba Maple       Acer negundo       22, 20       S       P       F       G       1.8       -       S       R (Cond)         55       Manitoba Maple       Acer negundo       13, 5       4       F       F       G       1.8       -       S       P         59       Manitoba Maple       Acer negundo       15, 5       4       F	47	Manitoba Maple	Acer negundo	24, 14	5	F	F	G	1.8	-	S	R	
50         Manitoba Maple         Acer negundo         25, 19         6         F         F         G         1.8         -         S         P           51         Manitoba Maple         Acer negundo         25         6         F         F         G         1.8         -         S         P           54         Manitoba Maple         Acer negundo         25         5         F         F         G         1.4         S         R         DBH estimated at 1.0 m; growing in fence           54         Manitoba Maple         Acer negundo         22         5         F         F         G         1.4         S         R         DBH estimated at 1.0 m; growing in fence           54         Manitoba Maple         Acer negundo         22, 20         5         P         F         G         1.8         -         S         R (Cond)           56         Manitoba Maple         Acer negundo         23, 21, 19         8         F         F         G         1.8         -         S         R (Cond)           57         Manitoba Maple         Acer negundo         35, 4         P         P         G         1.8         -         S         R (Cond)         Growing in fence;	48	Manitoba Maple	Acer negundo	27, 14, 14	8	F	F	G	1.8	-	S	Р	
S1         Manitoba Maple         Acer negundo         25         6         F         F         G         1.8         -         S         DBH estimated at 1.0 m; growing in fence           S2         Manitoba Maple         Acer negundo         30         6         F         F         G         2.4         1         S         R         DBH estimated at 1.0 m; growing in fence           S3         Manitoba Maple         Acer negundo         22         S         F         F         G         1.8         -         S         R         DBH estimated at 1.0 m; growing in fence           S4         Manitoba Maple         Acer negundo         22, 20         S         P         F         G         1.8         -         S         R (Cond)           S6         Manitoba Maple         Acer negundo         23, 21, 19         8         F         G         1.8         -         S         R (Cond)           S7         Manitoba Maple         Acer negundo         35         4         F         F         G         1.8         -         S         P           S9         Manitoba Maple         Acer negundo         35         4         P         P         G         1.8         -	49	Manitoba Maple	Acer negundo	11, 8	5	F	F	G	1.8	-	S	Р	
S2         Manitoba Maple         Acer negundo         30         6         F         F         G         2.4         1         S         R         DBH estimated at 1.0 m; growing in fence           S3         Manitoba Maple         Acer negundo         22         5         F         F         G         1.8         -         S         R         DBH estimated at 1.0 m; growing in fence           S4         Manitoba Maple         Acer negundo         22         5         P         F         G         1.8         -         S         R         DBH estimated at 1.0 m; growing in fence           S5         Manitoba Maple         Acer negundo         23, 21, 19         8         F         F         G         1.8         -         S         R         Cond)           S6         Manitoba Maple         Acer negundo         23, 21, 19         8         F         F         G         1.8         -         S         P           S8         Manitoba Maple         Acer negundo         13         4         P         P         G         1.8         -         S         R (Cond)         BBH estimated         1.8         G         R (Cond)         Growing in fence; failed           61	50	Manitoba Maple	Acer negundo	25, 19	6	F	F	G	1.8	-	S	Р	
S3         Manitoba Maple         Acer negundo         25         5         F         F         G         1.8         -         S         R         DBH estimated at 1.0 m; growing in fence           54         Manitoba Maple         Acer negundo         22         20         5         P         F         G         1.8         -         S         R (Cond)           55         Manitoba Maple         Acer negundo         23         5         P         F         G         1.8         -         S         R (Cond)           57         Manitoba Maple         Acer negundo         23         1.9         8         F         F         G         1.8         -         S         R (Cond)           58         Manitoba Maple         Acer negundo         15, S         4         F         F         G         1.8         -         S         P           59         Manitoba Maple         Acer negundo         15, S         4         F         F         G         1.8         -         S         R (Cond)         DBH estimated.           60         White Mulberry         Morus alba         25         4         P         P         G         1.8         -	51	Manitoba Maple	Acer negundo	25	6	F	F	G	1.8	-	S	-	DBH estimated at 1.0 m; growing in fence
S4       Manitoba Maple       Acer negundo       38       5       F       F       G       2.4       1       S       R         S5       Manitoba Maple       Acer negundo       22       20       S       P       F       G       1.8       -       S       R (Cond)         S6       Manitoba Maple       Acer negundo       23       S       P       F       G       1.8       -       S       R (Cond)         S6       Manitoba Maple       Acer negundo       23, 21, 19       8       F       F       G       1.8       -       S       R (Cond)         S7       Manitoba Maple       Acer negundo       15, 5       4       F       F       G       1.8       -       S       R (Cond)         S8       Manitoba Maple       Acer negundo       25       4       P       P       G       1.8       -       S       R (Cond)       DBH estimated.         60       White Mulberry       Morus alba       19       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed         61       White Mulberry       Morus alba       19       2       G	52	Manitoba Maple	Acer negundo	30	6	F	F	G	2.4	1	S	R	DBH estimated at 1.0 m; growing in fence
S5         Manitoba Maple         Acer negundo         22, 20         5         P         F         G         1.8         -         S         R (Cond)           56         Manitoba Maple         Acer negundo         23         5         P         F         G         1.8         -         S         R (Cond)           57         Manitoba Maple         Acer negundo         23, 21, 19         8         F         F         G         1.8         -         S         R (Cond)           59         Manitoba Maple         Acer negundo         35         4         P         P         G         1.8         -         S         P           50         Manitoba Maple         Acer negundo         35         4         P         P         G         1.8         -         S         R (Cond)         DBH estimated         0.8 m; growing in fence;           60         White Mulberry         Morus alba         19         4         P         P         G         1.8         -         S         R (Cond)         Growing in fence; failed           61         White Mulberry         Marus alba         69         1.8         -         S         R (Cond)         Growing in fence; failed; DB	53	Manitoba Maple	Acer negundo	25	5	F	F	G	1.8	-	S	R	DBH estimated at 1.0 m; growing in fence
S6         Manitoba Maple         Acer negundo         23         5         P         F         G         1.8         -         S         R (Cond)           57         Manitoba Maple         Acer negundo         23, 21, 19         8         F         F         G         1.8         -         S         P           58         Manitoba Maple         Acer negundo         35, 4         F         F         G         1.8         -         S         P           59         Manitoba Maple         Acer negundo         35, 4         F         F         G         1.8         -         S         P           60         White Mulberry         Morus alba         19         4         P         P         G         1.8         -         S         R (Cond)         Growing in fence; failed           61         White Mulberry         Morus alba         19         4         P         P         G         1.8         -         S         R (Cond)         Growing in fence; failed           62         Norway Maple         Acer negundo         107         10         G         F         G         4.2         1         S         I           64         M	54	Manitoba Maple	Acer negundo	38	5	F	F	G	2.4	1	S	R	
57       Manitoba Maple       Acer negundo       23, 21, 19       8       F       F       G       1.8       -       S       P         58       Manitoba Maple       Acer negundo       15, 5       4       F       F       G       1.8       -       S       P         59       Manitoba Maple       Acer negundo       35       4       P       P       G       2.4       1       S       R (Cond)       DBH estimated.         60       White Mulberry       Morus alba       25       4       F       F       G       1.8       -       S       P       DBH estimated.         61       White Mulberry       Morus alba       19       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed         61       White Mulberry       Morus alba       19       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed         63       Tree-of-heaven       Allanthus altissima       15       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed       DBH estimated         64	55	Manitoba Maple	Acer negundo	22, 20	5	Ρ	F	G	1.8	-	S	R (Cond)	
S8       Manitoba Maple       Acer negundo       15, 5       4       F       F       G       1.8       -       S       P         S9       Manitoba Maple       Acer negundo       35       4       P       P       G       2.4       1       S       R (Cond)       DBH estimated         60       White Mulberry       Morus alba       25       4       F       F       G       1.8       -       S       P       DBH estimated       A.8. m; growing in fence;         61       White Mulberry       Morus alba       19       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed         61       White Mulberry       Morus alba       19       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed         63       Tree-of-heaven       Ailanthus altissima       15       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed         64       Manitoba Maple       Acer negundo       107       10       G       F       G       4.2       1       S       I         65 <th>56</th> <td>Manitoba Maple</td> <td>Acer negundo</td> <td>23</td> <td>5</td> <td>Ρ</td> <td>F</td> <td>G</td> <td>1.8</td> <td>-</td> <td>S</td> <td>R (Cond)</td> <td></td>	56	Manitoba Maple	Acer negundo	23	5	Ρ	F	G	1.8	-	S	R (Cond)	
S9       Manitoba Maple       Acer negundo       35       4       P       P       G       2.4       1       S       R (Cond)       DBH estimated.         60       White Mulberry       Morus alba       25       4       F       F       G       1.8       -       S       P       DBH estimated at 0.8 m; growing in fence         61       White Mulberry       Morus alba       19       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed         62       Norway Maple       Acer platanoides       14       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed         63       Tree-of-heaven       Allanthus altissima       15       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed       DBH estimated         64       Manitoba Maple       Acer negundo       107       10       G       F       G       4.2       1       S       I         65       Unidentified Species       9       2       G       G       4.2       1       S       I         66       White Mulb	57	Manitoba Maple	Acer negundo	23, 21, 19	8	F	F	G	1.8	-	S	Р	
60         White Mulberry         Morus alba         25         4         F         F         G         1.8         -         S         P         DBH estimated at 0.8 m; growing in fence           61         White Mulberry         Morus alba         19         4         P         P         G         1.8         -         S         R (Cond)         Growing in fence; failed           62         Norway Maple         Acer platanoides         14         4         P         P         G         1.8         -         S         R (Cond)         Growing in fence; failed           63         Tree-of-heaven         Ailanthus altissima         15         4         P         P         G         1.8         -         S         R (Cond)         Growing in fence; failed           64         Manitoba Maple         Acer negundo         107         10         G         F         G         6.4         1         S         I           65         Unidentified Species         9         2         G         G         -         N         DBH estimated.           66         White Mulberry         Morus alba         69         12         G         F         G         1.2         N	58	Manitoba Maple	Acer negundo	15, 5	4	F	F	G	1.8	-	S	Р	
61       White Mulberry       Morus alba       19       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed         62       Norway Maple       Acer platanoides       14       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed         63       Tree-of-heaven       Allanthus altissima       15       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed         64       Manitoba Maple       Acer negundo       107       10       G       F       G       6.4       1       S       I         65       Unidentified Species       9       2       G       G       -       -       S       R         66       White Mulberry       Morus alba       69       12       G       F       G       4.2       1       S       I         66       White Mulberry       Morus alba       69       12       G       F       G       1.2       N       -       DBH estimated.         67       Norway Maple       Acer negundo       71       12       F       F	59	Manitoba Maple	Acer negundo	35	4	Ρ	Ρ	G	2.4	1	S	R (Cond)	DBH estimated.
62       Norway Maple       Acer platanoides       14       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed         63       Tree-of-heaven       Ailanthus altissima       15       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed         64       Manitoba Maple       Acer negundo       107       10       G       F       G       6.4       1       S       I         65       Unidentified Species       9       2       G       G       -       -       S       R         66       White Mulberry       Morus alba       69       12       G       F       G       4.2       1       S       I         67       Norway Maple       Acer platanoides       15       3       G       G       1.2       -       N       -       DBH estimated.         68       Yellowwood       Cladrastis kentukea       2       1       G       F       G       4.8       1       S       I         70       Manitoba Maple       Acer negundo       71       12       F       F       G       4.8       <	60	White Mulberry	Morus alba	25	4	F	F	G	1.8	-	S	Р	DBH estimated at 0.8 m; growing in fence
63       Tree-of-heaven       Ailanthus altissima       15       4       P       P       G       1.8       -       S       R (Cond)       Growing in fence; failed; DBH estimated         64       Manitoba Maple       Acer negundo       107       10       G       F       G       6.4       1       S       I         65       Unidentified Species       9       2       G       G       -       -       S       R         66       White Mulberry       Morus alba       69       12       G       F       G       4.2       1       S       I         67       Norway Maple       Acer platanoides       15       3       G       G       -       -       N       -       DBH estimated.         68       Yellowwood       Cladrastis kentukea       2       1       G       F       G       4.8       1       S       I         70       Manitoba Maple       Acer negundo       71       12       F       F       G       4.8       1       S       R (Cond)         71       Manitoba Maple       Acer negundo       78       8       P       F       G       4.8       S       P	61	White Mulberry	Morus alba	19	4	Ρ	Ρ	G	1.8	-	S	R (Cond)	Growing in fence; failed
64         Manitoba Maple         Acer negundo         107         10         G         F         G         6.4         1         S         I           65         Unidentified Species         9         2         G         G         -         -         S         R           66         White Mulberry         Morus alba         69         12         G         F         G         4.2         1         S         I           67         Norway Maple         Acer platanoides         15         3         G         G         -         -         N         -         DBH estimated.           68         Yellowwood         Cladrastis kentukea         2         1         G         F         G         1.2         -         N         -         DBH estimated.           69         Manitoba Maple         Acer negundo         71         12         F         F         G         4.8         1         S         I           70         Manitoba Maple         Acer negundo         78         8         P         F         G         4.8         1         S         R (Cond)           71         Manitoba Maple         Acer negundo         37 <th>62</th> <td>Norway Maple</td> <td>Acer platanoides</td> <td>14</td> <td>4</td> <td>Ρ</td> <td>Ρ</td> <td>G</td> <td>1.8</td> <td>-</td> <td>S</td> <td>R (Cond)</td> <td>Growing in fence; failed</td>	62	Norway Maple	Acer platanoides	14	4	Ρ	Ρ	G	1.8	-	S	R (Cond)	Growing in fence; failed
65       Unidentified Species       9       2       G       G       -       -       S       R         66       White Mulberry       Morus alba       69       12       G       F       G       4.2       1       S       I         67       Norway Maple       Acer platanoides       15       3       G       G       -       -       N       -       DBH estimated.         68       Yellowwood       Cladrastis kentukea       2       1       G       F       G       1.2       -       N       -       DBH estimated.         69       Manitoba Maple       Acer negundo       71       12       F       F       G       4.8       1       S       I         70       Manitoba Maple       Acer negundo       78       8       P       F       G       4.8       1       S       R (Cond)         71       Manitoba Maple       Acer negundo       22       5       G       G       2.4       1       S       R (Cond)         71       Manitoba Maple       Acer negundo       37       3       P       F       F       2.4       1       S       R (Cond)	63	Tree-of-heaven	Ailanthus altissima	15	4	Ρ	Ρ	G	1.8	-	S	R (Cond)	Growing in fence; failed; DBH estimated
66         White Mulberry         Morus alba         69         12         G         F         G         4.2         1         S         I           67         Norway Maple         Acer platanoides         15         3         G         G         -         N         -         DBH estimated.           68         Yellowwood         Cladrastis kentukea         2         1         G         F         G         1.2         -         N         -         DBH estimated.           69         Manitoba Maple         Acer negundo         71         12         F         F         G         4.8         1         S         I           70         Manitoba Maple         Acer negundo         78         8         P         F         G         4.8         1         S         R (Cond)           71         Manitoba Maple         Acer negundo         22         5         G         G         1.8         -         S         P           72         Manitoba Maple         Acer negundo         37.1         3         P         F         F         2.4         1         S         P           74         Manitoba Maple         Acer negundo <t< th=""><th>64</th><td>Manitoba Maple</td><td>Acer negundo</td><td>107</td><td>10</td><td>G</td><td>F</td><td>G</td><td>6.4</td><td>1</td><td>S</td><td>I</td><td></td></t<>	64	Manitoba Maple	Acer negundo	107	10	G	F	G	6.4	1	S	I	
67       Norway Maple       Acer platanoides       15       3       G       G       -       -       N       -       DBH estimated.         68       Yellowwood       Cladrastis kentukea       2       1       G       F       G       1.2       -       N       -       DBH estimated.         69       Manitoba Maple       Acer negundo       71       12       F       F       G       4.8       1       S       I         70       Manitoba Maple       Acer negundo       78       8       P       F       G       4.8       1       S       R (Cond)         71       Manitoba Maple       Acer negundo       78       8       P       F       G       4.8       1       S       R (Cond)         71       Manitoba Maple       Acer negundo       22       5       G       G       1.8       -       S       P         72       Manitoba Maple       Acer negundo       38, 15       5       F       F       G       2.4       1       S       P         74       Manitoba Maple       Acer negundo       10, 10       4       P       P       F       1.8       -       S	65	Unidentified Species		9	2	G	G	-	-	-	S	R	
68       Yellowwood       Cladrastis kentukea       2       1       G       F       G       1.2       -       N       -       DBH estimated.         69       Manitoba Maple       Acer negundo       71       12       F       F       G       4.8       1       S       I         70       Manitoba Maple       Acer negundo       78       8       P       F       G       4.8       1       S       R (Cond)         71       Manitoba Maple       Acer negundo       22       5       G       G       1.8       -       S       P         72       Manitoba Maple       Acer negundo       37       3       P       F       F       2.4       1       S       R (Cond)         73       Manitoba Maple       Acer negundo       38, 15       5       F       F       G       1.8       -       S       P         74       Manitoba Maple       Acer negundo       10, 10       4       P       P       F       1.8       -       S       P         75       Manitoba Maple       Acer negundo       10, 10       4       P       P       F       1.8       S       R (Cond)	66	White Mulberry	Morus alba	69	12	G	F	G	4.2	1	S	Ι	
69       Manitoba Maple       Acer negundo       71       12       F       F       G       4.8       1       S       I         70       Manitoba Maple       Acer negundo       78       8       P       F       G       4.8       1       S       R (Cond)         71       Manitoba Maple       Acer negundo       78       8       P       F       G       4.8       1       S       R (Cond)         71       Manitoba Maple       Acer negundo       22       5       G       G       4.8       1       S       R (Cond)         72       Manitoba Maple       Acer negundo       37       3       P       F       F       2.4       1       S       R (Cond)         73       Manitoba Maple       Acer negundo       38, 15       5       F       F       G       1.8       -       S       P         74       Manitoba Maple       Acer negundo       10, 10       4       P       P       F       1.8       -       S       R (Cond)       Failed; DBH estimated         75       Manitoba Maple       Acer negundo       10, 10       4       P       P       F       G       4.8	67	Norway Maple	Acer platanoides	15	3	G	G	-	-	-	Ν	-	DBH estimated.
70       Manitoba Maple       Acer negundo       78       8       P       F       G       4.8       1       S       R (Cond)         71       Manitoba Maple       Acer negundo       22       5       G       G       1.8       -       S       P         72       Manitoba Maple       Acer negundo       37       3       P       F       F       2.4       1       S       R (Cond)         73       Manitoba Maple       Acer negundo       38, 15       5       F       F       G       2.4       1       S       R (Cond)         74       Manitoba Maple       Acer negundo       24       5       F       F       G       2.4       1       S       P         74       Manitoba Maple       Acer negundo       24       5       F       F       G       1.8       -       S       P         75       Manitoba Maple       Acer negundo       10, 10       4       P       P       F       1.8       -       S       R (Cond)       Failed; DBH estimated         76       Manitoba Maple       Acer negundo       80       8       F       F       G       4.8       2       N <th>68</th> <td>Yellowwood</td> <td>Cladrastis kentukea</td> <td>2</td> <td>1</td> <td>G</td> <td>F</td> <td>G</td> <td>1.2</td> <td>-</td> <td>Ν</td> <td>-</td> <td>DBH estimated.</td>	68	Yellowwood	Cladrastis kentukea	2	1	G	F	G	1.2	-	Ν	-	DBH estimated.
71       Manitoba Maple       Acer negundo       22       5       G       G       G       1.8       -       S       P         72       Manitoba Maple       Acer negundo       37       3       P       F       F       2.4       1       S       R (Cond)         73       Manitoba Maple       Acer negundo       38, 15       5       F       F       G       2.4       1       S       P         74       Manitoba Maple       Acer negundo       24       5       F       F       G       1.8       -       S       P         74       Manitoba Maple       Acer negundo       24       5       F       F       G       1.8       -       S       P         75       Manitoba Maple       Acer negundo       10, 10       4       P       P       F       1.8       -       S       R (Cond)       Failed; DBH estimated         76       Manitoba Maple       Acer negundo       80       8       F       F       G       4.8       2       N       P       DBH estimated.         77       Silver Maple       Acer saccharinum       5       1       G       G       1.2       S <th>69</th> <td>Manitoba Maple</td> <td>Acer negundo</td> <td>71</td> <td>12</td> <td>F</td> <td>F</td> <td>G</td> <td></td> <td></td> <td>S</td> <td>l</td> <td></td>	69	Manitoba Maple	Acer negundo	71	12	F	F	G			S	l	
72Manitoba MapleAcer negundo373PFF2.41SR (Cond)73Manitoba MapleAcer negundo38, 155FFG2.41SP74Manitoba MapleAcer negundo245FFG1.8-SP74Manitoba MapleAcer negundo245FFG1.8-SP75Manitoba MapleAcer negundo10, 104PPF1.8-SR (Cond)Failed; DBH estimated76Manitoba MapleAcer negundo808FFG4.82NPDBH estimated.77Silver MapleAcer saccharinum51GG1.2-SP	70	Manitoba Maple	Acer negundo	78	8	Ρ	F	G	4.8	1	S	R (Cond)	
73Manitoba MapleAcer negundo38, 155FFG2.41SP74Manitoba MapleAcer negundo245FFG1.8-SP75Manitoba MapleAcer negundo10, 104PPF1.8-SR (Cond)Failed; DBH estimated76Manitoba MapleAcer negundo808FFG4.82NPDBH estimated.77Silver MapleAcer saccharinum51GGG1.2-SP	71	Manitoba Maple	Acer negundo	22	5	G	G	G	1.8	-	S	Р	
74Manitoba MapleAcer negundo245FFG1.8-SP75Manitoba MapleAcer negundo10, 104PPF1.8-SR (Cond)Failed; DBH estimated76Manitoba MapleAcer negundo808FFG4.82NPDBH estimated77Silver MapleAcer saccharinum51GG1.2-SP	72	Manitoba Maple	Acer negundo	37	3	Ρ	F	F	2.4	1	S	R (Cond)	
75Manitoba MapleAcer negundo10, 104PPF1.8-SR (Cond)Failed; DBH estimated76Manitoba MapleAcer negundo808FFG4.82NPDBH estimated.77Silver MapleAcer saccharinum51GGG1.2-SP	73	Manitoba Maple	Acer negundo	38, 15	5	F	F	G	2.4	1	S	Р	
76         Manitoba Maple         Acer negundo         80         8         F         F         G         4.8         2         N         P         DBH estimated.           77         Silver Maple         Acer saccharinum         5         1         G         G         1.2         -         S         P	74	Manitoba Maple	Acer negundo	24	5	F	F	G		-	S	Р	
77         Silver Maple         Acer saccharinum         5         1         G         G         I.2         -         S         P	75	Manitoba Maple	Acer negundo	10, 10	4	Ρ	Р	F			S	R (Cond)	Failed; DBH estimated
	76	Manitoba Maple	Acer negundo	80	8	F	F	G	4.8	2	Ν	Р	DBH estimated.
78         White Spruce         Picea glauca         50         6         G         G         3.0         2         N         -		•				G		G			S	Р	
	78	White Spruce	Picea glauca	50	6	G	G	G	3.0	2	Ν	-	


Tree	Common Name	Scientific Name	DBH	CW	TI	CS	CV	TPZ	Cat.	Loc.	Rec.	Comments
79	European Weeping Birch	Betula pendula	45	6	F	F	G	3.0	2	Ν	-	
80	Unidentified Species		5	1	G	G	-	-	-	S	R	
81	Silver Maple	Acer saccharinum	5	2	G	G	G	1.2	-	S	R	
82	Siberian Elm	Ulmus pumila	22, 21, 18	8	F	F	F	1.8	-	S	R	
83	Manitoba Maple	Acer negundo	5, 5, 5	5	G	F	G	1.2	-	S	R	Clump
84	Manitoba Maple	Acer negundo	8, 8, 5	5	F	F	G	1.2	-	S	R	Clump
85	Siberian Elm	Ulmus pumila	23, 23, 20	5	F	F	G	1.8	-	S	R	
86	Siberian Elm	Ulmus pumila	30, 25, 21	8	F	F	G	2.4	1	S	R	
87	Manitoba Maple	Acer negundo	5, 5, 5	6	F	F	G	1.2	-	S	R	Clump
88	Manitoba Maple	Acer negundo	18, 17, 13	8	F	F	G	1.8	-	S	R	Clump



# **APPENDIX 2 – TREE INVENTORY ATTRIBUTES**

Species	The common and scientific names are provided for each tree.							
Diameter at Breast Height (DBH)	The diameter of each tree, in centimetres, at breast height (1.4 m above grade).							
Canopy Width (CW)	An estimation of the average diameter of the tree canopy, in metres.							
Trunk Integrity (TI)	An assessment of the tree's trunk for any externally-visible defects or weaknesses. It is rated on an ascending scale of Poor-Fair-Good.							
Canopy Structure (CS)	An assessment of the tree's main scaffold branches and the canopy of the tree for defects or weaknesses visible from ground level. It is also rated on an ascending scale of Poor-Fair- Good.							
Canopy Vitality (CV)	An assessment of the general health and vigour of the tree, derived partly through a comparison of deadwood and live growth relative to a 100% healthy tree. The size and colour of foliage are also considered in this category. During the leaf-off season, the number and distribution of buds is an important determinant of canopy vitality. This indicator is also rated on an ascending scale of Poor-Fair-Good.							
Tree Protection Zone (TPZ)	The tree protection zone, in metres, as measured from the base of the subject tree's stem.							
Category (Cat.)	By-laws respecting trees provide for the protection of trees situated on both private and City property. The following five categories are outlined in the City of Toronto 'Guidelines for Completion of an Arborist Report'.							
Category (Cat.)	<ul><li>City property. The following five categories are outlined in the City of Toronto 'Guidelines for Completion of an Arborist Report'.</li><li>1. Trees with diameters of 30 cm or greater, situated on private property on the</li></ul>							
Category (Cat.)	<ul> <li>City property. The following five categories are outlined in the City of Toronto 'Guidelines for Completion of an Arborist Report'.</li> <li>1. Trees with diameters of 30 cm or greater, situated on private property on the subject site.</li> <li>2. Trees with diameters of 30 cm or greater, situated on private property, within 6 m</li> </ul>							
Category (Cat.)	<ol> <li>City property. The following five categories are outlined in the City of Toronto 'Guidelines for Completion of an Arborist Report'.</li> <li>Trees with diameters of 30 cm or greater, situated on private property on the subject site.</li> <li>Trees with diameters of 30 cm or greater, situated on private property, within 6 m of the subject site.</li> <li>Trees of all diameters situated on City-owned parkland within 6 m of the subject</li> </ol>							
Category (Cat.)	<ol> <li>City property. The following five categories are outlined in the City of Toronto 'Guidelines for Completion of an Arborist Report'.</li> <li>Trees with diameters of 30 cm or greater, situated on private property on the subject site.</li> <li>Trees with diameters of 30 cm or greater, situated on private property, within 6 m of the subject site.</li> <li>Trees of all diameters situated on City-owned parkland within 6 m of the subject site.</li> <li>Trees of all diameters situated within lands designated under City of Toronto</li> </ol>							
Category (Cat.)	<ul> <li>City property. The following five categories are outlined in the City of Toronto 'Guidelines for Completion of an Arborist Report'.</li> <li>1. Trees with diameters of 30 cm or greater, situated on private property on the subject site.</li> <li>2. Trees with diameters of 30 cm or greater, situated on private property, within 6 m of the subject site.</li> <li>3. Trees of all diameters situated on City-owned parkland within 6 m of the subject site.</li> </ul>							
Category (Cat.) Location (Loc.)	<ol> <li>City property. The following five categories are outlined in the City of Toronto 'Guidelines for Completion of an Arborist Report'.</li> <li>Trees with diameters of 30 cm or greater, situated on private property on the subject site.</li> <li>Trees with diameters of 30 cm or greater, situated on private property, within 6 m of the subject site.</li> <li>Trees of all diameters situated on City-owned parkland within 6 m of the subject site.</li> <li>Trees of all diameters situated within lands designated under City of Toronto Municipal Code, Chapter 658, Ravine and Natural Feature Protection.</li> <li>Trees of all diameters situated within the City road allowance adjacent to the</li> </ol>							
	<ul> <li>City property. The following five categories are outlined in the City of Toronto 'Guidelines for Completion of an Arborist Report'.</li> <li>1. Trees with diameters of 30 cm or greater, situated on private property on the subject site.</li> <li>2. Trees with diameters of 30 cm or greater, situated on private property, within 6 m of the subject site.</li> <li>3. Trees of all diameters situated on City-owned parkland within 6 m of the subject site.</li> <li>4. Trees of all diameters situated within lands designated under City of Toronto Municipal Code, Chapter 658, Ravine and Natural Feature Protection.</li> <li>5. Trees of all diameters situated within the City road allowance adjacent to the subject site.</li> </ul>							

# **APPENDIX 3 – SELECTED FIGURES**



Figure 1: Trees #1-4 are recommended for removal.

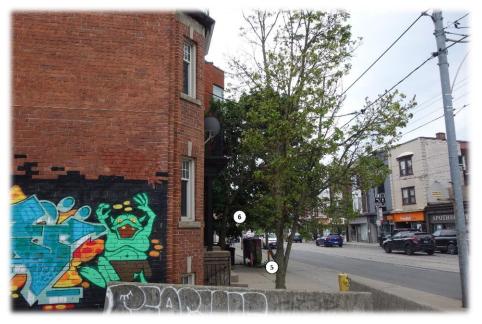


Figure 2: Trees #5 and 6 are recommended for removal.

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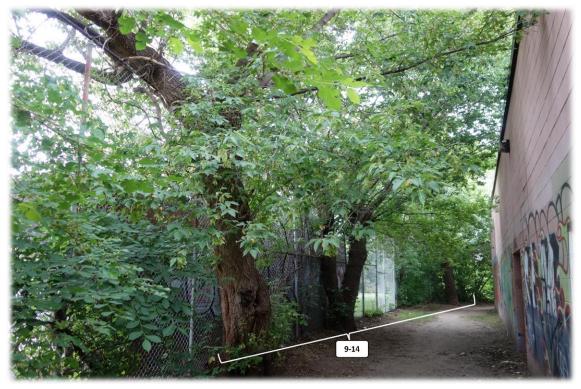


Figure 3: Trees #9-14 are recommended for removal.



**Figure 4:** Trees #24-26, 28 are recommended for protection; trees #23, 27, 29, 30 are recommended for removal.

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Figure 5: Trees #82-87 are recommended for removal.



Figure 6: Trees #61-63 are recommended for removal based on condition.

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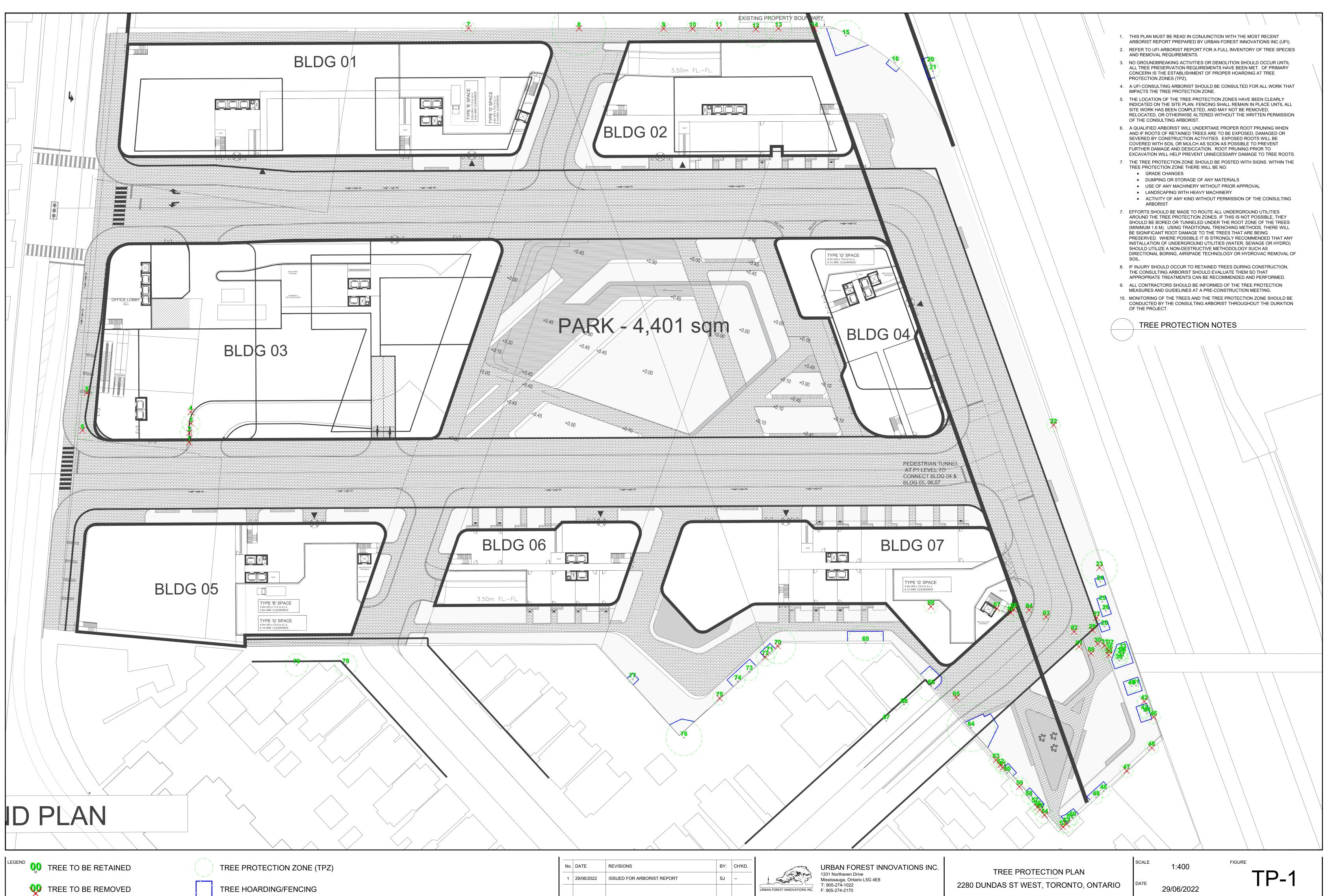
**Figure 7:** Trees #70 and 72 are recommended for removal based on condition, tree #73 is recommended for protection.

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### **APPENDIX 4 – TREE-RELATED PLANS**

#### Inclusions:

1. Tree Protection Plan, dated June 29, 2022 (1 page)



					1
No.	DATE	REVISIONS	BY:	CH'KD.	
1	29/06/2022	ISSUED FOR ARBORIST REPORT	SJ		
					URBAN FOR

#### **APPENDIX 5 – TREE PROTECTION SPECIFICATIONS**

#### 5.1 Scope and Purpose

This section outlines specifications for tree protection, and **not all recommendations may apply to the subject project**. Refer to the main body of the arborist report for tree-by-tree protection recommendations.

#### 5.2 General Provisions

#### 5.2.1 Tree Protection

Four important tree protection measures should be undertaken on the project site if trees are to be preserved in a manner which will maintain their health over the long term. These include:

- 1. Establishment of tree protection fencing and/or hoarding around adequately-sized Tree Protection Zones (TPZs) prior to the commencement of any construction activity;
- 2. Installation of root zone compaction protection where compaction may be caused by construction traffic or materials/equipment storage and staging;
- 3. Implementation of root-sensitive excavation wherever Tree Protection Zones (TPZs) or significant rooting areas may be encroached upon by excavation and/or grading, and;
- 4. Root pruning in advance of conventional excavation, on an as-needed basis.

#### 5.2.1.1 Tree Protection Zones (TPZs)

The purpose of a Tree Protection Zone (TPZ) is to prevent root damage, soil compaction and soil contamination, and workers and machinery must not encroach upon Tree Protection Zones in any way.

To prevent access and ensure that the TPZ is effective, the following steps shall be implemented in the establishment of TPZ fencing and/or hoarding.

- 1. The locations of TPZs should be clearly identified on the project Site Plan and associated treerelated plans. Typically, TPZs are to be shown as circles around tree location points, and drawn to scale in accordance with the minimum required TPZ radius, as specified in Appendix 1.
- 2. No groundbreaking activities or demolition should occur until all tree protection requirements have been met and the consulting arborist has confirmed the establishment of Tree Protection Zone fencing and/or hoarding.
- 3. Hoarding shall consist of 4' x 8' sheets of plywood lain lengthwise and supported using "L" shaped supports to prevent root damage. Hoarding shall be affixed to the frame in such a manner as to prevent removal of individual sections or movement of the entire hoarding structure. Construction fencing can be used where pedestrian or motorist sightlines may be obscured by solid hoarding. Framed construction fencing can also be used to frame large Tree Protection Zones or tree groups, with expressed prior approval of the municipal arborist or their designate. Framed

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fencing must be supported by a solid  $2' \times 4'$  frame. Fencing and/or hoarding shall be maintained intact throughout the duration of the construction project, unless otherwise specified.

- 4. Upon installation, all tree protection fencing and/or hoarding must be approved by the municipal arborist or their designate.
- 5. All fencing and/or hoarding is to remain in place in good condition throughout the entire duration of the project. No fencing and/or hoarding is to be removed, relocated or otherwise altered without the written permission of the municipal arborist or their designate.
- 6. No grade change, excavation, or storage of fill, equipment or supplies is permitted within the TPZ at any time. Any encroachment of the TPZ shall not be undertaken without expressed written permission of the municipal arborist or their designate. TPZ encroachment may constitute Tree Injury as defined by various municipal tree protection policies and by-laws, and may subject the responsible parties to prescribed penalties.
- 7. All contractors and supervisors should be informed of the tree protection requirements, including potential penalties, at a pre-construction meeting.
- 8. Trees and TPZs should be regularly monitored by a consulting arborist throughout the duration of the project.
- 9. If TPZ encroachment should occur at any time during construction, the consulting arborist should evaluate the trees immediately so that appropriate treatment can be performed in a in a timely manner.
- 10. Signage similar to the figure shown below should be mounted on each side of TPZ fencing and/or hoarding immediately upon establishment and should be maintained for the duration of the project. Every sign should have minimum dimensions of 40 cm × 60 cm.



Figure 8: Sample TPZ information sign.

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#### 5.2.1.2 Root Zone Compaction Protection

Where traffic or access through the root zone is anticipated, a Root Zone Compaction Protection treatment should be installed.

Where limited non-vehicular access across the root zone is anticipated (e.g., occasional foot traffic, wheelbarrow), a Light Root Zone Compaction Protection specification should be implemented:

- Installation of medium-weight non-woven geotextile fabric or landscape cloth over affected area;
- Installation of 150 mm of wood chips over the fabric area;
- Installation of ½" plywood over wood chip mulch, and;
- Installation of appropriate covering material, if desired.

Where moderate non-vehicular access across the root zone is anticipated (e.g., materials staging) a Moderate Root Zone Compaction Protection specification should be implemented:

- Installation of medium-weight non-woven geotextile fabric or landscape cloth over affected area;
- 100 mm of granular clear stone lain over fabric area;
- Installation of medium-weight non-woven geotextile fabric or landscape cloth over the stone;
- Installation of 150 mm of wood chips over fabric area, and;
- Installation of ½" plywood over wood chip mulch.

In areas where frequent non-vehicular access or longer-term materials storage in the root zone is anticipated, or in areas where additional measures must be implemented to ensure complete exclusion of excavation activity, a Horizontal Hoarding/Excavation Exclusion specification should be implemented:

- Installation of medium-weight non-woven geotextile fabric or landscape cloth over affected area;
- Installation of 3 stacked and joined courses of 4" x 4" timbers around the area to be protected (including cross-members or joists, as required to maintain structural integrity);
- Installation of wood chip mulch in entire protected area, and;
- Installation of 2 layers of ¾" plywood or 1 steel plate over the protected area.

In areas where vehicular access or severe potential root zone compaction are anticipated, such as site access roads, temporary parking areas or heavy machine staging areas, a more robust Heavy Root Zone Compaction Protection specification should be developed and implemented on a site-specific basis. Key elements of such a specification may include multiple steel plates over load-dissipating materials, or modular geocellular systems such as Permavoid ArborRaft.

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#### 5.2.1.3 Tree-sensitive Demolition

Trees are often damaged by demolition activities undertaken during the clearing stage of the development process. For trees to be adequately protected during site demolitions, root-sensitive demolition protections must be implemented within Tree Protection Zones, as described below:

- 1. Prior to the commencement of site demolition, tree protection fencing must be established for retained trees.
- 2. Hardscape materials shall be broken up by hand or hand-operated machinery only (e.g., a hand-operated jackhammer to break up pavement, building foundations, etc.).
- 3. Machinery should be operated at shallow angles and broken-up materials should be removed by pulling away radially from the protected tree bases, or parallel to the direction of anticipated or observed root growth.
- 4. Upon removal of demolished materials, uncovered vertical soil profiles must be maintained in good structural integrity and prevented from disintegration (i.e. crumbling, erosion, fragmentation, etc.). Between the time of demolitions and new construction, exposed vertical soils may require shoring reinforcement, including a layer of burlap between shoring and exposed soil.
- 5. Following demolitions, affected TPZ areas should be reinstated with a high quality soil, such as triple mix soil, to provide a favourable growing medium for the development of new roots of the injured trees. Soil amendments, such as biochar, may also be considered for backfills inclusion. Soil depth should be sufficient to match existing surrounding soil grades.
- 6. Any roots exposed by demolition should be inspected and, where necessary, pruned by the supervising Certified Arborist in order to minimize permanent root damage.

#### 5.2.1.4 Root-sensitive Excavation

Efforts should be made to exclude excavation or grade changes, including cutting or filling, from all TPZs. Where this is not possible, and unless otherwise specified, excavation shall utilize a root-sensitive methodology such as hand-digging, hydrovac or pneumatic (e.g., AirSpade) soil excavation, as specified in the arborist report.

Root-sensitive excavation must be conducted in advance of excavation using conventional excavation machinery. The objective of root-sensitive excavation is twofold: 1) to determine whether roots will be present beneath areas to be excavated and therefore determine the likely extent of damage to trees to be retained, and 2) to enable proper root pruning, as described below.

Root-sensitive excavation typically entails the creation of a trench approximately 200-300 mm wide between the subject tree (e.g., outside the established tree protection fencing) and the area to be excavated, without damaging existing significant roots. Unless otherwise specified, root-sensitive excavation should be undertaken to a minimum depth of 800 mm, unless excavation is proposed to a

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shallower final depth. If excavation is for exploratory reasons and root pruning is not anticipated, equipment utilized during root-sensitive excavation should be operated at reduced pressures to prevent damage to root bark.

No excavation, whether undertaken by conventional or root-sensitive means shall take place within established tree protection zones without expressed written permission of the municipal arborist or their designate.

# 5.2.1.5 Root Pruning

Root pruning can help reduce the stresses experienced by a tree with root damage, encourage the growth of new fine and feeder roots, and prevent the spread of decay. Root pruning should be undertaken in conjunction with root-sensitive excavation in advance of conventional excavation, or immediately afterwards if unexpected roots are encountered. Root pruning should only be undertaken by an ISA Certified Arborist, and in the manner outlined below:

- Roots that are severed, exposed, or diseased and are greater than 2.0 cm in diameter should be properly pruned. All roots must be pruned with clean and sharp hand tools only. Shovels, picks or other construction tools shall not be used to prune roots. Wound dressings or pruning paint must not be used to cover the ends of any cut.
- 2. Roots should be pruned in a similar fashion as branches, taking care to maintain the integrity of the root bark ridge. Root should be pruned back to native soil; root stubs must not be left upon completion of root pruning.
- Prolonged exposure of tree roots must be avoided exposed roots should covered and kept moist with soil, mulch, irrigation, or at least moistened burlap if they are to be exposed for longer than 3 hours. All cut roots should be covered with soil or excavated trenches should be backfilled with native material as soon as possible following root pruning.

# 5.2.1.6 Crown Pruning

During the course of project works, the branches of retained trees may interfere with project works, including site access, materials storage, and new construction. Where any project works present an unavoidable conflict with the branches of retained trees, appropriate clearance crown pruning shall be performed in the manner outlined below:

- Wherever possible, branches found to be in conflict with construction and equipment should be temporarily tied back, using non-constricting knots to secure the branch. If branches cannot be safely tied back without causing branch damage, including breaking or bark stripping, pruning should be performed, as required.
- 2. No branches larger than 10 cm in diameter shall be removed, and no more than 20% of the total live crown volume shall be removed from the tree.

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3. Crown pruning shall be conducted by an ISA Certified Arborist in accordance with good arboricultural practice, as detailed in the pruning standard ANSI A300 Part 1 – Tree, Shrub, and Other Woody Plant Maintenance – Standard Practices, Pruning, and in the ANSI Z133.1 safety standard.

#### 5.2.2 Post-construction Care

The following recommendations should be implemented upon completion of construction to ensure that the health and condition of retained and newly-planted trees is maintained and improved.

#### 5.2.2.1 Retained Trees

- Trees which have been retained through the construction process should be regularly monitored by an ISA Certified Arborist for signs of construction-induced stress, which may not be apparent until 3-6 years after site disturbance.
- 2. Wherever possible, root zone amelioration including watering and mulching should be undertaken. However, treatments such as fertilization should be avoided unless directly specified by the project consulting arborist.
- 3. Any physical damage to retained trees should be assessed by the project consulting arborist and properly mitigated, as required. If necessary, broken limbs or exposed roots should be pruned, damaged bark should be traced, and soil decompaction and/or decontamination should be undertaken by an ISA Certified Arborist. Stability of trees with significant root zone disturbance should be assessed, and advanced stability assessment or mitigation should be implemented if necessary.

#### 5.2.2.2 New Trees

- All newly planted trees and shrubs should be provided with a bed of composted woodchip mulch 10-15 cm thick, extending to at least the dripline of the plant. Mulch should be periodically replaced as it decomposes, and weeds should be removed from the mulch bed manually. The mulch must not touch the bark of the tree and under no circumstances should it be mounded up against the stem in a "volcano" style. This is especially damaging for young trees with thin bark.
- 2. All new plantings should be watered at least once per week during the growing season within the first two years after planting. Watering intensity should be increased during periods of drought. Watering should be deep and slow, ensuring that water penetrates to deep roots. Trees should not be watered directly adjacent to the trunk, but rather in a circular pattern extending from the trunk to at least the dripline. The soil should be allowed to dry in between watering periods to allow air to reach the roots.
- 3. Minimal pruning should be undertaken in the first two years after planting. Foliage should be retained to allow for the roots to establish. Only dead, crossing and broken branches should be pruned back to an appropriate pruning point at the time of planting.

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#### **APPENDIX 6 – LIMITATIONS OF ASSESSMENT**

It is the policy of Urban Forest Innovations to attach the following clause regarding limitations. We do this to ensure that the client is aware of what is technically and professionally realistic in assessing and retaining trees.

The assessment(s) of the tree(s) presented in this report has been made using accepted arboricultural techniques. These may include, among other factors, a visual examination of: the above-ground parts of the tree(s) for visible structural defects, scars, external indications of decay such as fungal fruiting bodies, evidence of pests or pathogens, discoloured foliage, the condition of any visible root structures, the degree and direction of lean (if any), the general condition of the tree(s) and the surrounding site, and the proximity of property and people. Except where specifically noted, the tree(s) was not cored, probed, climbed or assessed using any advanced methods, and there was no detailed inspection of the root crown(s) involving excavation.

Notwithstanding the recommendations and conclusions made in this report, it must be recognized that trees are living organisms, and their health and vigour constantly change over time. They are not immune to changes in site or weather conditions, or general seasonal variations. Weather events such as wind or ice storms may result in the partial or complete failure of any tree, regardless of assessment results.

While reasonable efforts have been made to accurately assess the overall condition of the subject tree(s), no guarantee or warranty is offered, expressed or implied, that the tree(s) or any of its parts will remain standing or in stable condition. It is both professionally and practically impossible to predict with absolute certainty the behaviour of any single tree or its component parts, regardless of the assessment methodology implemented. Inevitably, a standing tree will always pose some level of risk. Most trees have the potential for failure under adverse weather conditions, and the 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 tree(s) should be re-assessed periodically. The assessment presented in this report is only valid at the time of inspection.

Respectfully submitted by,

Jung to Jenile

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