



Tree Protection and Management Plan

**3054 Homestead Drive,
9166 Airport Road, and
9175 Airport Road**

Hamilton, Ontario

Submitted to:

Fengate Asset Management
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Submitted by:

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Project 2100017

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1. Introduction

GEI Consultants Ltd. (GEI) was retained by Fengate Homestead Holdings LP to complete a tree inventory and prepare a Tree Protection and Management Plan for the properties located at 3054 Homestead Drive, 9175 Airport Road, and 9166 Airport Road in the City of Hamilton, Ontario (collectively referred to herein as the Subject Lands). The Subject Lands are generally located north of Airport Road, west of Homestead Drive, east of John C. Munro Hamilton International Airport, and south of Dickenson Road within the Twenty Mile Creek watershed (**Figure 1, Appendix A**).

The Subject Lands will accommodate an industrial development within the Airport Employment Growth District (AEGD) Secondary Plan (OPA 35). The AEGD has been designed to provide a business park development to integrate and complement the existing John C. Munro Hamilton International Airport (herein referred to as the Airport Lands). The proposed development includes a complex of four industrial buildings and associated parking lots and one access road (**Figure 2, Appendix A**). A created wetland will be constructed on the eastern portion of the Subject Lands adjacent to the existing residential lots.

GEI completed a tree inventory within the Subject Lands over multiple years, as properties were added into the Subject Land boundary: 3054 Homestead was surveyed in 2021, 9175 Airport Road was surveyed in 2022, and 9166 Airport Road was surveyed in 2023. This Tree Protection and Management Plan presents the results of the tree inventory, identifies opportunities for tree preservation and protection, recommends measures to protect preservation trees, and proposes compensation for tree removals. The objective of the Tree Protection and Management Plan is to retain existing tree cover wherever feasible and to minimize the risk of injury to trees identified for protection. The preparation of this Tree Protection and Management Plan was guided by the City of Hamilton's *Tree Protection Guidelines* (2010).



2. Methodology

GEI completed the tree inventory at 3054 Homestead Drive on September 8, October 14, and October 15, 2021. The tree inventory at 9175 Airport Road was completed on June 22, 2022. A final site visit was conducted on January 31, 2023, to inventory the trees at 9166 Airport Road. Trees with a diameter-at-breast-height (DBH) of 10 cm and greater within the Subject Lands were tagged and assessed. Trees within two of the three woodlands (as shown on **Figure TP.6, Appendix A**) and on adjacent lands were assessed but not tagged. Woodland and neighbouring trees were assigned a unique identifier beginning with W and N, respectively, for mapping and reference purposes. The locations for all inventoried trees on the Subject Lands were recorded in UTM coordinates using a sub-meter capable GPS unit. The following information was recorded for each tree: species, DBH, health category (biological, structural, and overall), and notes regarding the assigned health category.

Tree health was categorized as good, fair, or poor. Trees categorized as “good” overall had at least 80% live canopy and showed no significant structural defects (e.g., weak limbs, girdling roots, stem lean) or evidence of biological damage (e.g., insect damage, fungal growth, leaf dieback). “Fair” trees were those with 50% to 80% live canopy and showed no significant structural or biological defects, or the tree had over 80% live canopy but did show some evidence of structural defects and/or biological damage. Trees categorized as “poor” were those with less than 50% live canopy and/or had significant structural defects and/or biological damage.



3. Tree Inventory

A total of 444 trees were mapped and assessed during this tree inventory, including two dead trees (**Figures TP.1-TP.6, Appendix A**). All inventoried trees were located on private lands; no municipal trees were identified during this tree inventory.

Table 1 (Appendix B) outlines the results of the tree inventory, including the tree identification number, species, DBH, crown radius, health category (biological, structural, and overall), notes regarding the assigned health category, recommendations for preservation or removal, rationale for tree removal, tree compensation requirements, tree ownership, and the size of the Tree Protection Zone (TPZ) for preservation trees. GEI and City of Hamilton Forestry Staff have agreed to defer inclusion of grading heights and utilities information until detailed design. This Tree Protection and Management Plan will be updated once that detailed information is available.

The inventoried trees included 19 different species, including one hybrid and one that could only be identified to genus. Of the 442 live inventoried trees, 265 (60%) are native to the Hamilton Conservation Authority and Conservation Halton watersheds (HCA 2014).

Two Hybrid Butternut (*Juglans cinerea* x *Juglans ailantifolia*) (trees 1297 and 1298), as confirmed through DNA testing (see **Appendix C**), were inventoried. Therefore, these trees are not afforded any protections under the *Endangered Species Act, 2007*.

3.1 Preservation Trees

Preservation trees are those that are unlikely to be significantly impacted by the proposed grading works or can likely be preserved using tree protection measures, as described in **Section 4**. Of the 444 inventoried trees, 89 are preservation trees.

3.2 Removal Trees

Removal trees are those that are located within the limit of grading works. Of the 444 inventoried trees, 355 are removal trees (including two dead trees). Compensation for removal trees is discussed in **Section 5**.

Of the 355 removal trees, five are marked for removal due to poor condition. These trees are located along the perimeter of the subject property and have the potential to be preserved if they were in better condition. It is not expected that these trees could survive any impacts and have therefore been marked for removal. The remaining 350 trees require removal due to the proposed preliminary grading works provided by Odan Detech Group (2023).

Of the 355 trees for removal 16 are located on property boundaries and an additional two are located on neighbouring properties. Written permission is required from both landowners prior to the removal of trees located on the property boundaries and for removal of trees on neighbouring properties. Confirmation of ownership of these trees can only be determined through a legal survey completed by an Ontario Land Surveyor.



The proponent shall ensure that the works are in conformance with the *Migratory Birds Convention Act, 1994* and the *Endangered Species Act, 2007*. Specifically, tree removals should comply with timing window restrictions with regards to the protection of nesting birds (April 1 to August 31) and Species at Risk bats (April 1 to September 30). Where these timing windows cannot be avoided, it is recommended that a qualified ecologist conduct a nest search and bat habitat assessment.



4. Tree Protection and Management Plan

Tree preservation will be achieved through avoidance and/or the use of appropriate tree protection measures. GEI inventoried 444 trees within the Subject Lands. Of these, 89 are preservation trees. Trees for preservation are all located along the perimeter of the proposed development where grading works are minimal. The preliminary grading design offers no additional opportunities for tree preservation. The proposed Tree Protection and Management Plan is described in the following subsections.

4.1 Tree Protection Zones

The area of protection around a tree is referred to as the TPZ and is measured outward from the trunk. The TPZ was determined in accordance with the City of Hamilton's *Tree Protection Guidelines* (2010). The width of the TPZ corresponds to the crown radius (dripline) plus one meter.

The TPZs must be fenced off to prevent physical damage to the tree and compaction of the soil, as described in the *Tree Protection Guidelines*. The TPZ must remain fully intact throughout all phases of construction and cannot be used for the temporary storage of fill, topsoil, building materials, equipment storage, washing of equipment, or dumping of any construction debris. Tree protection fencing will provide protection to the individual trees and clumps of trees, as shown on **Figures TP.1-TP.7 (Appendix A)**. Paige wire farm fencing shall be the standard form; snow fencing is not acceptable. Signage must be posted in visible locations on each tree protection fence and must clearly state that the barrier delineates the TPZ. Tree protection measures for preservation trees must follow the City of Hamilton's Tree Preservation Details, included in **Appendix D and on Figure TP.7**.

A Verification of Tree Protection Letter is to be prepared by a recognized tree management professional (i.e., certified arborist, registered professional forester, or landscape architect) to ensure that all tree protection measures have been implemented. This correspondence is to be provided to the Director of Planning prior to the start of any on-site works.

4.2 Protection of Preservation Trees

The objective of the TPZ is to maximize protection of the tree to ensure its long-term survival. It is recognized, however, that encroachment into the prescribed TPZ may at times be deemed necessary to facilitate construction. Some healthy trees are known to withstand construction impacts such as root cutting, soil compaction, and soil saturation; however, these individual responses are dependent on the species, site condition, and degree of impacts (Matheny & Clark 1998).

No reduced TPZs are proposed however should construction activities occur within the TPZs of some preservation trees, protection and mitigation techniques are expected to prevent these activities from impacting the long-term health of these trees. These trees would be given a modified TPZ prior to construction, which would follow the limit of construction activity. This



modified TPZ will require strict adherence to the tree protection measures outlined below. If these trees cannot be adequately protected during construction, they will be identified as removal trees and will require compensation as described in **Section 5**.

Where construction activity is proposed to occur within a TPZ, the TPZ must be properly prepared. The Project Arborist should be on site during all site alteration activities within the TPZ of live preservation trees, including tree removal, canopy or root trimming, and soil stripping, to monitor these activities and propose site-specific mitigation, where appropriate. If any accidental tree damage or encroachment into the TPZ occurs or is observed, the Project Arborist should be notified in order to take appropriate action on site. In addition, the following tree protection measures should be implemented:

- All relevant contractors should meet with the Project Arborist prior to the beginning of site alteration to review tree protection procedures.
- Low branches may be pruned back or removed to accommodate vehicular movement.
- Trees to be removed should be felled in a manner that drops the tree away from adjacent preservation trees and their TPZs.
- Any brush clearing required within the TPZs should be completed using hand-operated equipment and should be lifted out and not skidded out.
- If excavation or grading is proposed within the TPZs, affected tree roots must be cut at a 90° angle at the edge of anticipated disturbance using specialized equipment. Hydro-vac excavation will be necessary to expose the roots prior to cutting if existing conditions prevent machinery from making a clean, 90° cut.
- Tree roots damaged during construction should be exposed and cut cleanly at a 90° angle using hand operated equipment to aid in root regeneration.
- Any roots exposed for longer than four hours should be kept moist using wet mulch or burlap wrap or be directly irrigated. These affected trees should have wood mulch applied to their respective TPZs at a depth of 5–10 cm to help maintain moisture and moderate soil temperature.
- Horizontal root protection should be used in locations where regular movement of equipment through the TPZ is anticipated.
- Where construction activity is proposed to occur within or near the TPZs, irrigation should be implemented during periods of drought, especially during the summer months. A slow soaking of the entire TPZ to a depth encompassing the root system is the preferred method of irrigation, but it may vary depending on the tree species and soil texture. Water should not be directed at or near the trunks. The frequency of irrigation will depend on air temperature and precipitation at the time of construction.
- Sediment control fencing should be installed to provide a protective barrier between areas intended for stockpiling of excavated soil and candidate preservation trees. The sediment control fencing should be installed to Ontario Provincial Standard 219.130.

If preservation trees cannot be adequately protected during construction or if they exhibit canopy dieback post construction, they will be identified as removal trees and will require compensation as described in **Section 5**.



4.3 Post-construction Monitoring

After grading has been completed, the City of Hamilton requires that a Post-Grading Tree Maintenance Report be prepared and submitted to the Director of Planning. The Post-Grading Tree Maintenance Report will provide the following, as applicable:

- Assessment of damage to trees that were to be preserved but have inadvertently been damaged or removed by site grading and clearing;
- Identification of a dollar value for damaged trees and proposal of a compensation plan for replacing them; and
- Recommendations for preservation methods, such as root fertilization, watering, and pruning to improve the health of remaining trees.

The Post-Grading Tree Maintenance Report will be prepared following construction activities, in accordance with City of Hamilton guidelines.



5. Compensation Requirements

The City of Hamilton requires compensation for the removal of live private trees at a ratio of 1:1. Accordingly, a total of 353 trees are proposed to be planted as compensation for those removed through the construction of the proposed development. A Landscape Plan Concept has been prepared by Adesso Design Inc. (2023) illustrating tree planting opportunities (**Appendix E**). An estimated 992 trees are included in this plan. Additional to this are plantings included in GEI's Conceptual Wetland Compensation Design included in GEI's Preliminary Wetland Design Brief (2023); a total of 353 are included in this plan (**Appendix E**). It is therefore assumed that over 1000 new tree plantings will occur on the Subject Lands resulting in a net gain in trees on the property.

Compensation trees will be native species listed in Appendix 4 of the *Tree Protection Guidelines*. Other landscape guidelines from the City of Hamilton are as follows:

- Transplanted stock should be restricted to specimens under 20 mm DBH;
- Minimum caliper for deciduous planting stock is 50 mm DBH;
- Minimum height for a conifer is 1.5 m;
- Include a mix of tree species (no monocultures); and
- Invasive species (listed in Appendix 5 of the *Tree Protection Guidelines*) should not be transplanted.



6. Summary

GEI inventoried 444 trees within the Subject Lands, of which two were dead. Of the inventoried trees, 89 are recommended for preservation and 355 are recommended for removal (including two dead trees) due to proposed grading works. Private live tree removals require compensation at a ratio of 1:1, for a total of 353 trees required. Tree compensation will be provided through on-site tree plantings in both the Wetland Compensation Area and within the streetscape of the proposed development.

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REFERENCES AND BACKGROUND MATERIALS

Adesso Design Inc 2023. 3054 Homestead Drive. 9174 & 9166 Airport Road. Mt. Hope, Hamilton. Landscape Concept Plan. LC-1.

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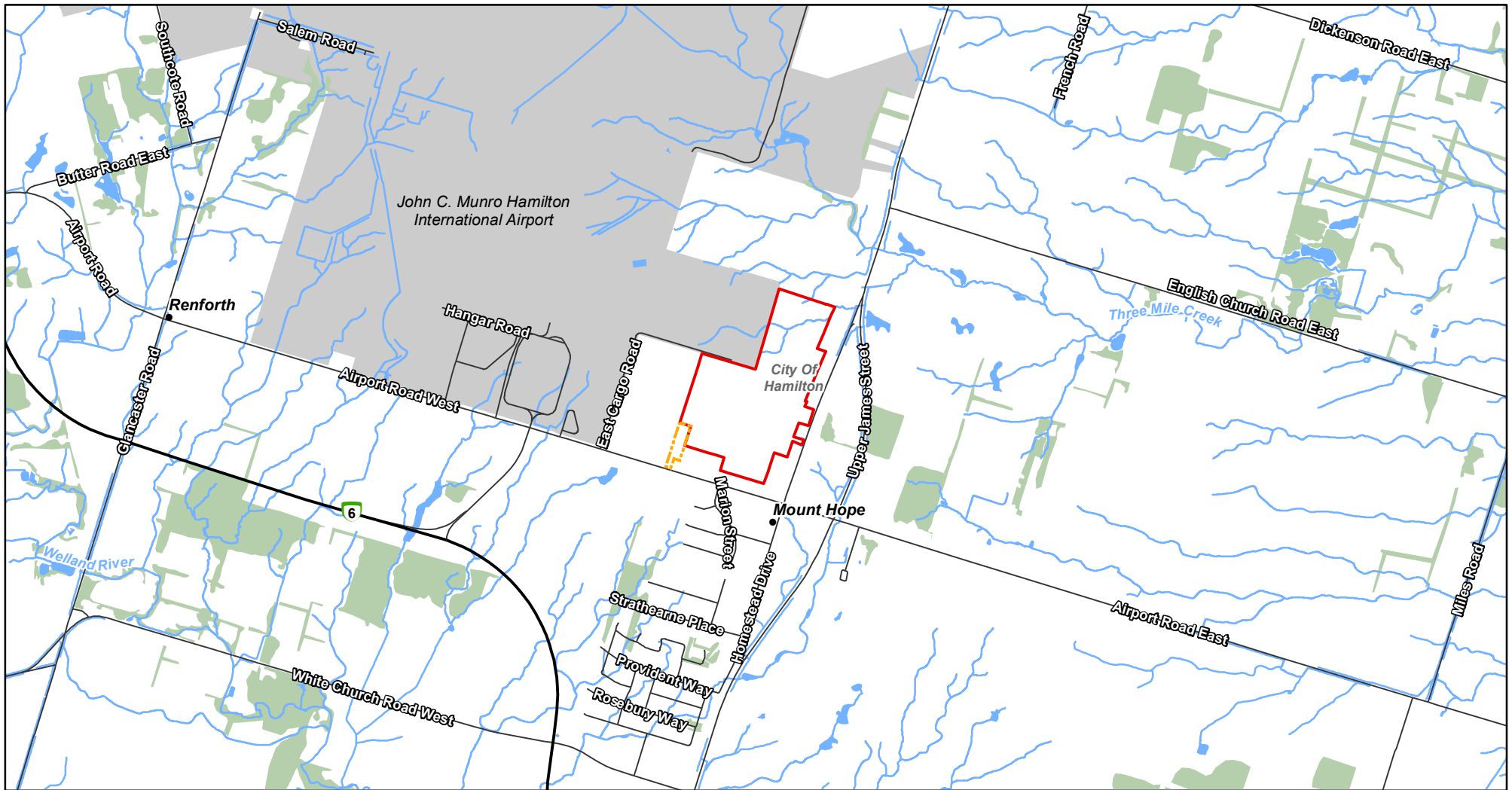
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Appendix A

Figures



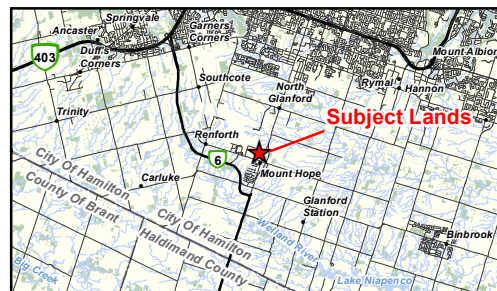


NOTES:

1. Coordinate System: NAD 1983 UTM Zone 17N.
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry
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Legend

- 3054 Homestead Drive
- 9174 Airport Road
- Highway
- Road
- Watercourse
- Waterbody
- Wooded Area
- Airport

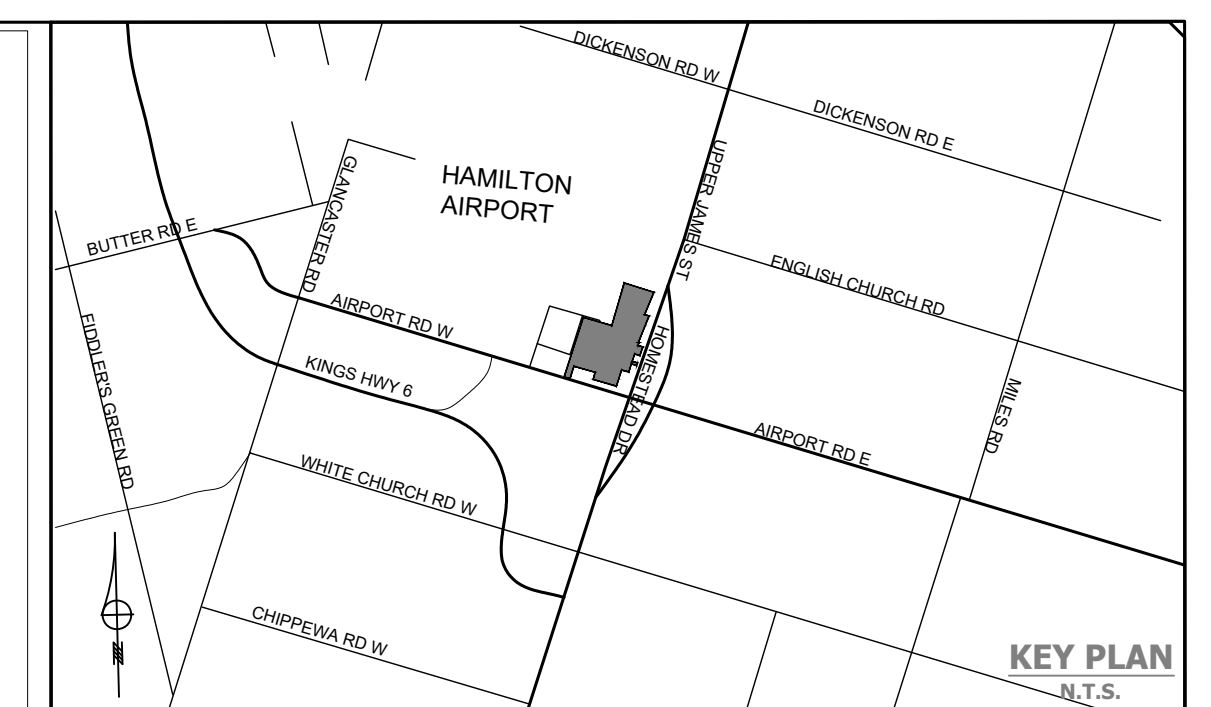


3054 Homestead Drive and 9175 Airport Road
Tree Preservation and Management Plan
Fengate Asset Management

Figure 1
Location of Subject Lands

0 250 m
1:25,000

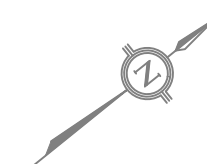




LEGEND


5			
4			
3			
2			
1	ISSUED	2023/07/31	NC
No.	REVISION	DATE	BY

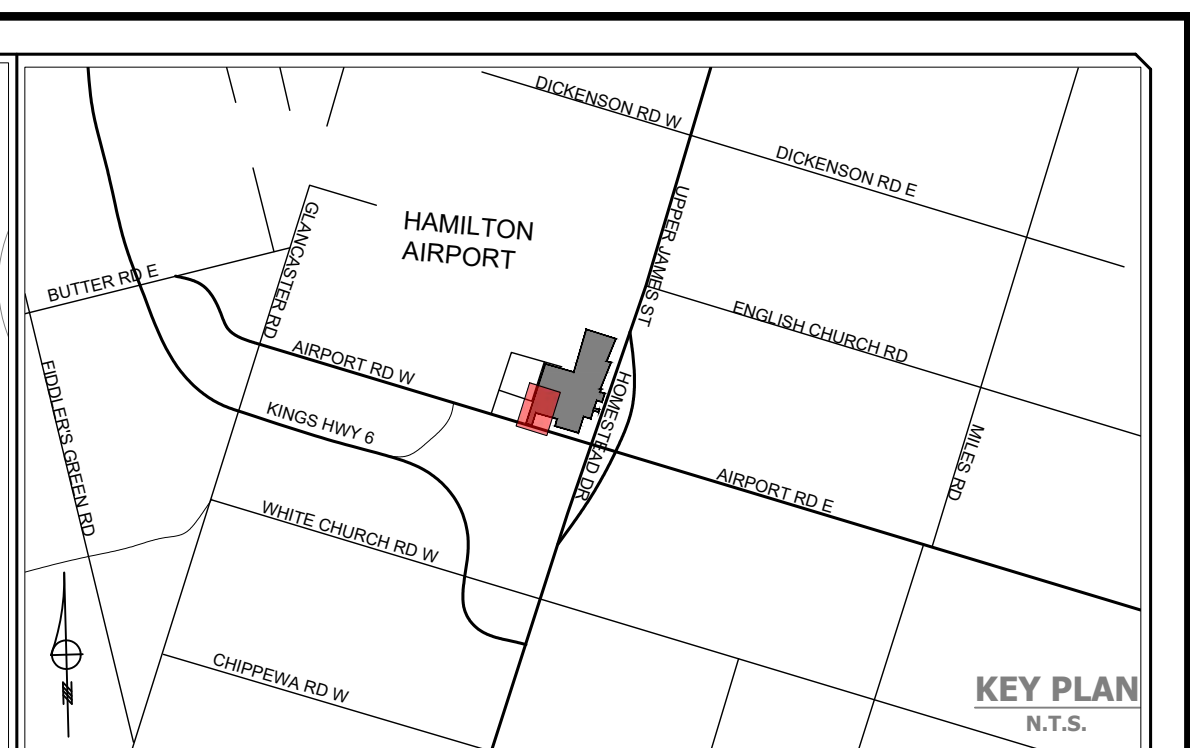
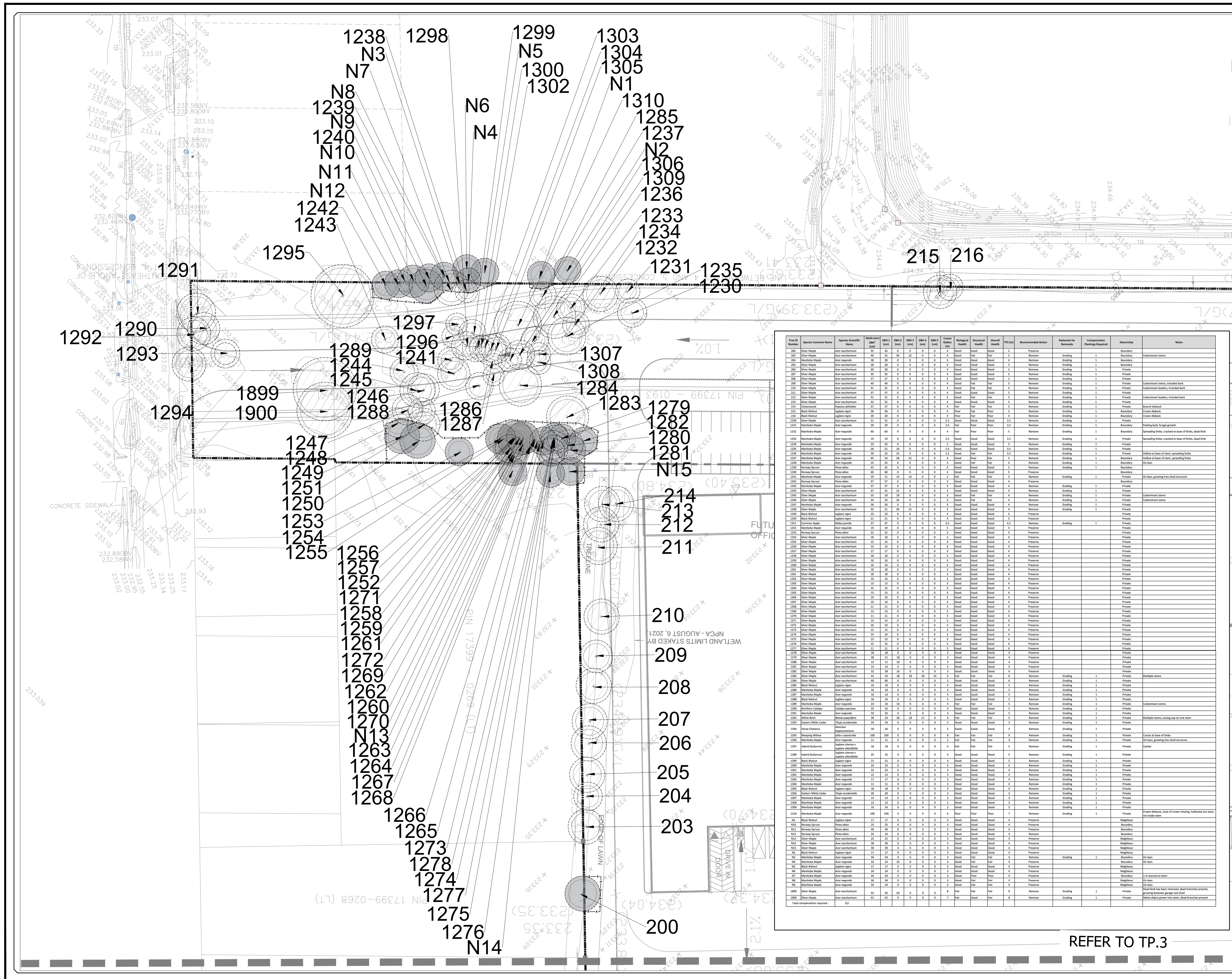
FENGATE ASSET MANAGEMENT



3054 HOMESTEAD DR, 9166
AIRPORT RD & 9175 AIRPORT RD

TREE INVENTORY AND PRESERVATION PLAN KEYPLAN

DESIGNED BY:	NC	CHECKED BY:	NC	PROJECT No.:	2100017
DRAWN BY:	NC/MS	DATE:	28 July 2023	FIGURE No.:	2
SCALE: 1:2000 					



LEGEND

-
- PROPERTY LIMIT**
- TREE PRESERVATION HOARDING**
- TREE FOR PRESERVATION**
 TREE PROTECTION ZONE
 TREE CROWN
- TREE FOR REMOVAL**
 TREE PROTECTION ZONE
 TREE CROWN

Tree ID	Species	Common Name	Scientific Name	Max DBH (cm)	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Ratio	Biological Status	Structural Health	Dead Branches	YFC (m)	Recommended Action	Relative to Nearest Tree	Compensation Payment Required	Ownership	Notes
200	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	15	35	0	0	0	4	Good	Good	Good	5	Preserve	Grading	1	Private	Boundary	
201	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	12	32	0	0	0	4	Good	Good	Good	4	Preserve	Grading	1	Private	Colonnade stems, included bark	
202	Martha Mevua	Acacia eucalyptus	Acacia eucalyptus	28	28	0	0	0	4	Good	Good	Good	4	Preserve	Grading	1	Private	Boundary	
203	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	18	38	0	0	0	4	Good	Good	Good	5	Preserve	Grading	1	Private	Boundary	
204	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	18	38	0	0	0	4	Good	Good	Good	5	Preserve	Grading	1	Private	Boundary	
205	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	15	35	0	0	0	4	Good	Good	Good	5	Preserve	Grading	1	Private	Boundary	
206	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	27	27	0	0	0	4	Good	Good	Good	5	Preserve	Grading	1	Private	Boundary	
207	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	40	40	0	0	0	4	Good	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
208	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	12	32	0	0	0	4	Good	Good	Good	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
209	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	17	37	0	0	0	4	Good	Good	Good	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
210	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	15	35	0	0	0	4	Good	Good	Good	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
211	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	17	37	0	0	0	4	Good	Good	Good	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
212	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	15	35	0	0	0	4	Good	Good	Good	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
213	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	32	32	0	0	0	4	Good	Good	Good	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
214	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	17	37	0	0	0	4	Good	Good	Good	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
215	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	36	36	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
216	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
217	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
218	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
219	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
220	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
221	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
222	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
223	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
224	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
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227	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
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230	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
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234	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
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236	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
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242	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
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245	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
246	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
247	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
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249	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
250	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
251	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
252	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
253	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
254	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
255	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
256	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
257	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
258	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
259	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
260	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
261	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
262	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
263	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
264	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
265	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
266	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
267	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
268	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
269	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
270	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
271	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
272	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
273	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
274	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
275	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
276	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
277	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
278	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
279	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
280	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
281	Shir Madia	Acacia eucalyptus	Acacia eucalyptus	20	20	0	0	0	4	Fair	Fair	Fair	5	Preserve	Grading	1	Private	Colonnade stems, included bark	
282	Shir Madia	Acacia e																	

REFER TO TP.3

FENGATE ASSET MANAGEMENT



ATASHA COLLINS
ON-2127A

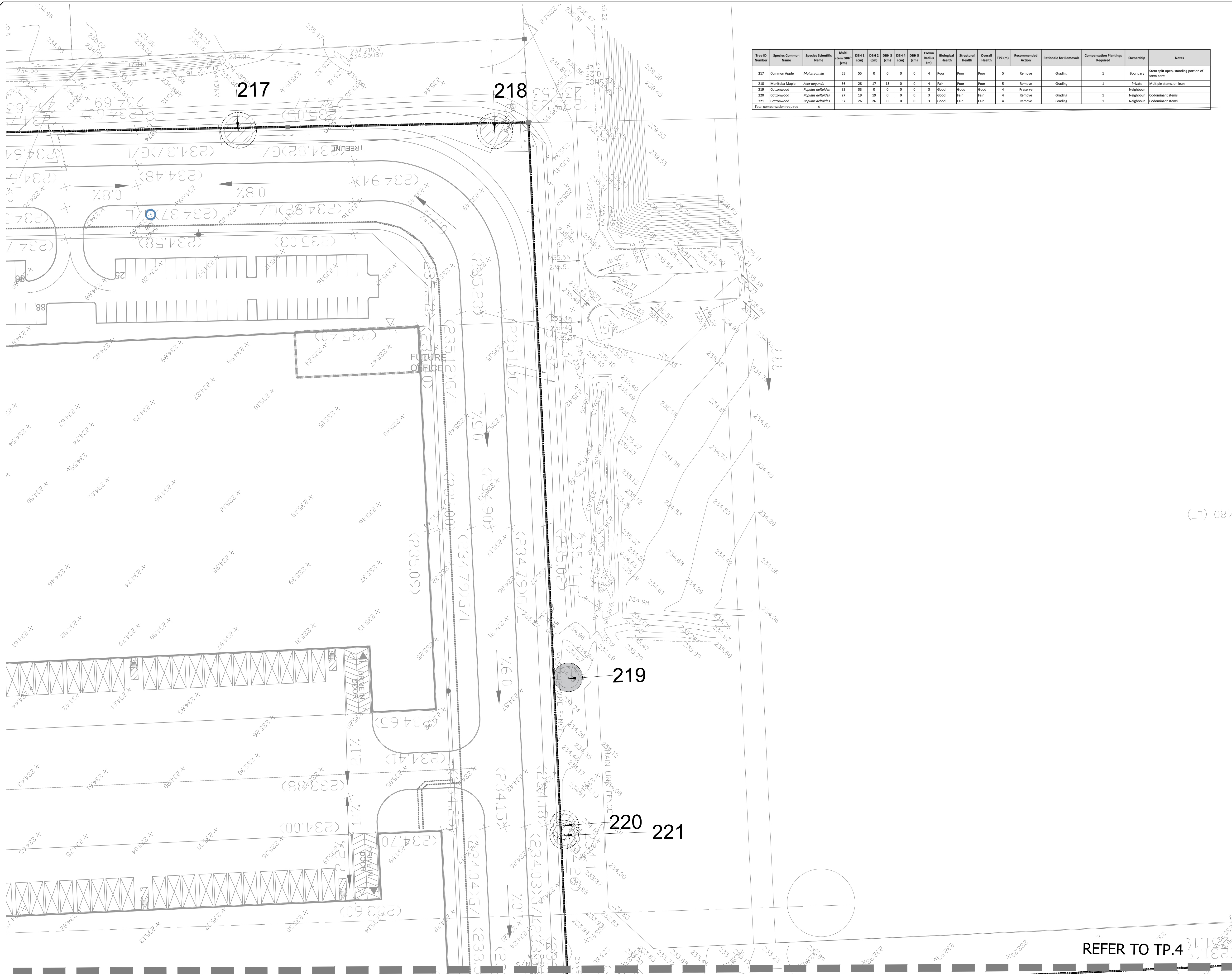


3054 HOMESTEAD DR, 9166
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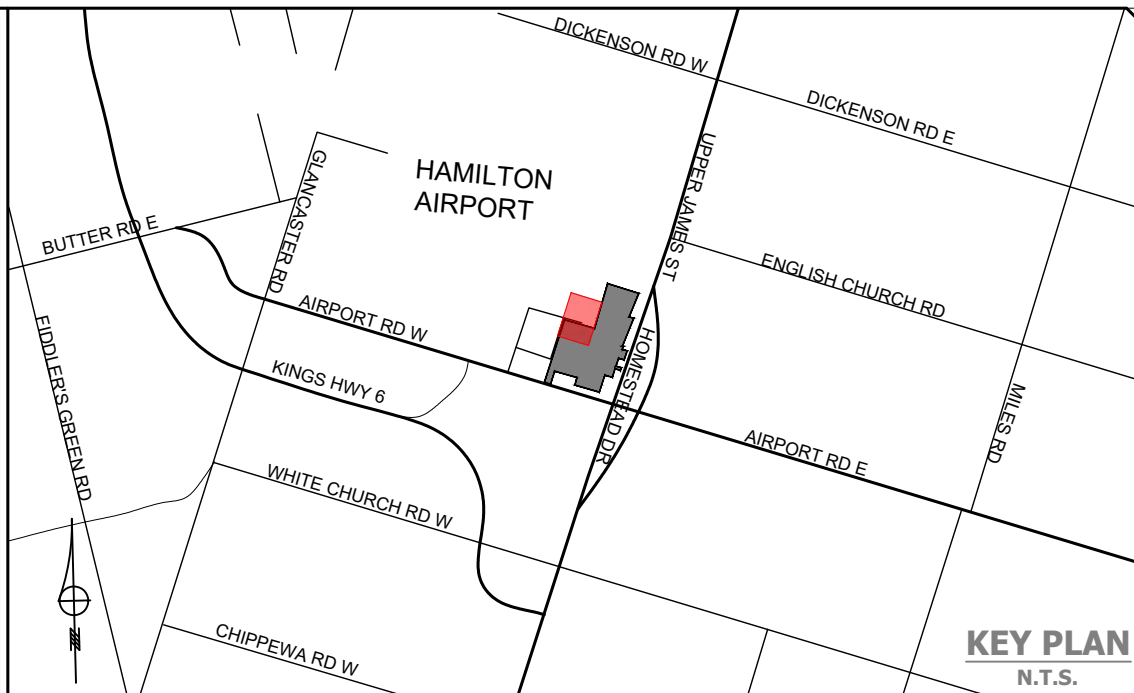
TREE INVENTORY AND PRESERVATION PLAN

DESIGNED BY:	NC	CHECKED BY:	NC	PROJECT No.:	2100017
DRAWN BY:	NC/MS	DATE:	28 July 2023	FIGURE No.:	TP.1
SCALE:					

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Tree ID Number	Species Common Name	Species Scientific Name	Multi-stem (DBH) (cm)	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Biological Health	Structural Health	Overall Health	TPZ (m)	Recommended Action	Rationale for Removals	Compensation Plantings Required	Ownership	Notes
217	Common Apple	Malus pumila	55	55	0	0	0	0	4	Poor	Poor	Poor	5	Remove	Grading	1	Boundary	Item left open, standing portion of stem bent
218	Manitoba Maple	Acer spicatum	36	28	17	15	0	0	4	Fair	Poor	Poor	5	Remove	Grading	1	Private	Multiple stems, on lean
219	Cottonwood	Populus deltoides	33	33	0	0	0	0	3	Good	Good	Good	4	Preserve		1	Neighbour	
220	Cottonwood	Populus deltoides	27	19	19	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Neighbour	Codominant stems
221	Cottonwood	Populus deltoides	37	26	26	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Neighbour	Codominant stems
Total compensation required -			4															

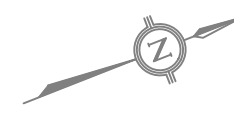


LEGEND

- PROPERTY LIMIT
- TREE PRESERVATION HOARDING
- TREE FOR PRESERVATION
TREE PROTECTION ZONE
TREE CROWN
- TREE FOR REMOVAL
TREE PROTECTION ZONE
TREE CROWN

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1	ISSUED	2023/07/31	NC
No.	REVISION	DATE	BY

FENGATE ASSET MANAGEMENT



3054 HOMESTEAD DR, 9166
AIRPORT RD & 9175 AIRPORT RD

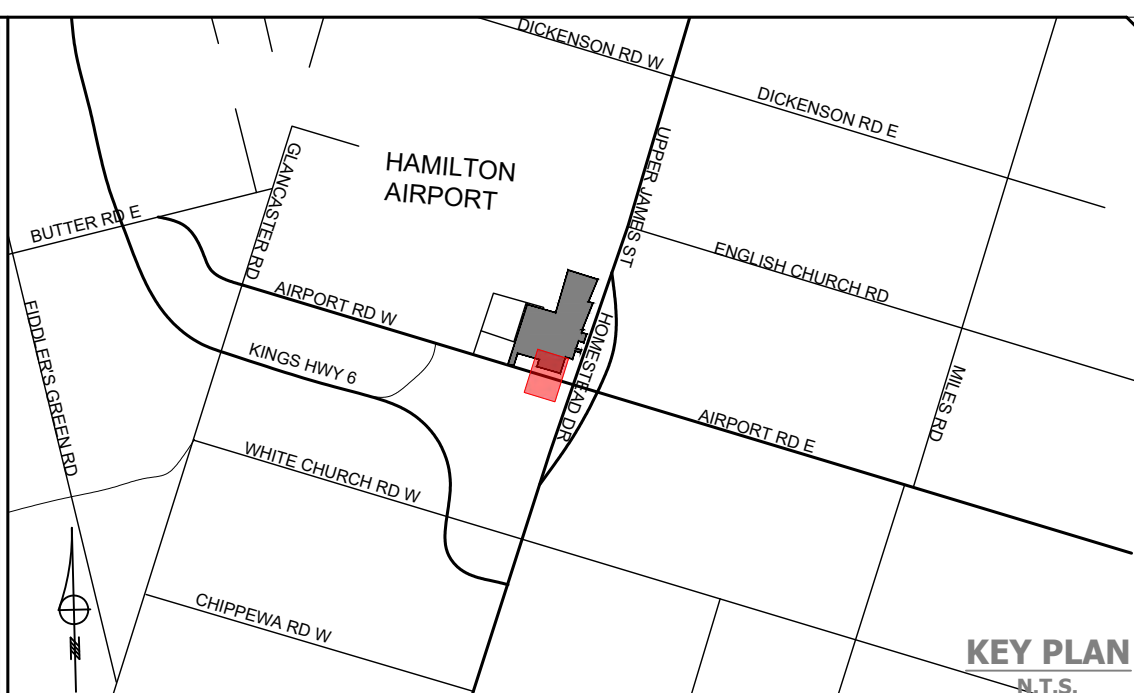
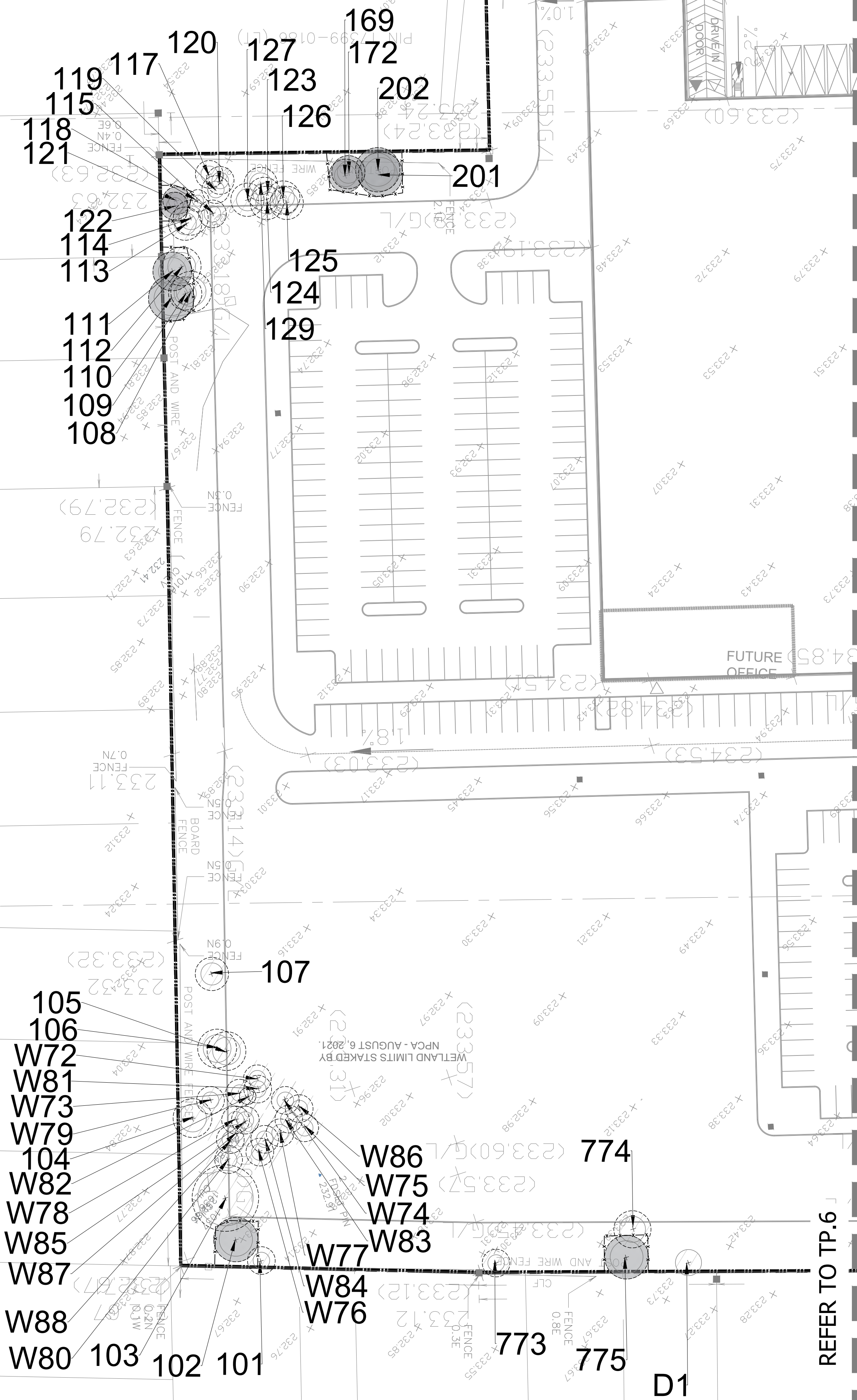
TREE INVENTORY AND
PRESERVATION PLAN

DESIGNED BY:	NC	CHECKED BY:	NC	PROJECT No.:	2100017
DRAWN BY:	NC/MS	DATE:	28 July 2023	FIGURE No.:	
SCALE:	1:500				TP.2

REFER TO TP.4

Tree ID Number	Species Common Name	Species Scientific Name	Stem DBH (in)	DBH 1 (in)	DBH 2 (in)	DBH 3 (in)	DBH 4 (in)	DBH 5 (in)	Crown Radius (ft)	Biological Health	Structural Health	Overall Health	TPZ (sq)	Recommended Action	Rationale for Removal	Compensation Plantings Required	Ownership	Notes
101	Green Ash	Fraxinus pennsylvanica	12	12	0	0	0	0	1.5	Poor	Poor	Poor	2.5	Remove	Condition	1	Private	EAH, almost dead, one live limb
102	Silver Maple	Acer saccharinum	28	25	12	0	0	0	3	Good	Fair	Fair	4	Preserve			Private	Multiple stems, included bark
103	Green Ash	Fraxinus pennsylvanica	58	54	21	0	0	0	5	Fair	Poor	Fair	6	Remove	Grading	1	Private	On lean, dead and broken limbs and branches
104	Green Ash	Fraxinus pennsylvanica	18	14	12	0	0	0	2.5	Poor	Poor	Poor	3.5	Remove	Condition	1	Private	Suckering, almost dead
105	Black Walnut	Juglans nigra	14	14	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
106	Manitoba Maple	Acer negundo	22	22	0	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	On lean, two stems, broken limb
107	Black Walnut	Juglans nigra	16	16	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
108	Black Walnut	Juglans nigra	12	12	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
109	Black Walnut	Juglans nigra	11	11	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
110	Black Walnut	Juglans nigra	16	12	10	0	0	0	3	Good	Fair	Fair	4	Preserve			Private	Multiple stems
111	Black Walnut	Juglans nigra	16	11	11	0	0	0	2.5	Good	Good	Good	3.5	Preserve			Private	
112	Black Walnut	Juglans nigra	14	14	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
113	Black Walnut	Juglans nigra	17	17	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
114	Black Walnut	Juglans nigra	19	19	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
115	Manitoba Maple	Acer negundo	11	11	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
117	Silver Maple	Acer saccharinum	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
118	Silver Maple	Acer saccharinum	12	12	0	0	0	0	1	Good	Good	Good	2	Remove	Grading	1	Private	Suckering
119	Silver Maple	Acer saccharinum	15	15	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Grading	1	Private	
120	Silver Maple	Acer saccharinum	13	13	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
121	Silver Maple	Acer saccharinum	13	13	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Preserve			Private	Multiple stems
122	Silver Maple	Acer saccharinum	15	15	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Preserve			Private	Multiple stems
123	Silver Maple	Acer saccharinum	15	15	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
124	Silver Maple	Acer saccharinum	14	14	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
125	Silver Maple	Acer saccharinum	15	15	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
126	Silver Maple	Acer saccharinum	16	16	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Circling from rope wrapped around
127	Silver Maple	Acer saccharinum	15	15	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
129	Silver Maple	Acer saccharinum	17	17	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
169	Black Walnut	Juglans nigra	12	12	0	0	0	0	2	Good	Good	Good	3	Preserve			Private	
172	Black Walnut	Juglans nigra	10	10	0	0	0	0	2	Good	Good	Good	3	Preserve			Private	
201	Manitoba Maple	Acer negundo	22	22	0	0	0	0	3	Fair	Fair	Fair	4	Preserve			Private	Wounds along stem, on lean
202	Black Walnut	Juglans nigra	18	13	12	0	0	0	2	Fair	Fair	Fair	3	Preserve			Private	Codominant stems, peeling bark
773	Green Ash	Fraxinus pennsylvanica	20	20	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Condition	1	Private	EAH, peeling bark, branch dieback
774	Cottonwood	Populus deltoides	17	17	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
775	Cottonwood	Populus deltoides	46	46	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
D1	Dead		0	0	0	0	0	0	0			Dead	1	Remove	Condition	1	Private	
W72	Silver Maple	Acer saccharinum	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W73	Silver Maple	Acer saccharinum	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W74	Silver Maple	Acer saccharinum	13	13	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W75	Silver Maple	Acer saccharinum	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W76	Silver Maple	Acer saccharinum	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W77	Silver Maple	Acer saccharinum	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W78	Silver Maple	Acer saccharinum	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W79	Silver Maple	Acer saccharinum	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W80	Silver Maple	Acer saccharinum	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W81	Silver Maple	Acer saccharinum	13	13	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W82	Silver Maple	Acer saccharinum	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W83	Silver Maple	Acer saccharinum	17	17	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W84	Silver Maple	Acer saccharinum	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W85	Silver Maple	Acer saccharinum	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W86	Silver Maple	Acer saccharinum	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W87	Silver Maple	Acer saccharinum	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W88	Silver Maple	Acer saccharinum	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
Total compensation required -			42															

REFER TO TP.1



LEGEND

PROPERTY LIMIT

TREE PRESERVATION HOARDING

TREE FOR PRESERVATION

TREE PROTECTION ZONE

TREE CROWN

TREE FOR REMOVAL

TREE PROTECTION ZONE

TREE CROWN

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No.	ISSUED	2023/07/31	NC
	REVISION	DATE	BY

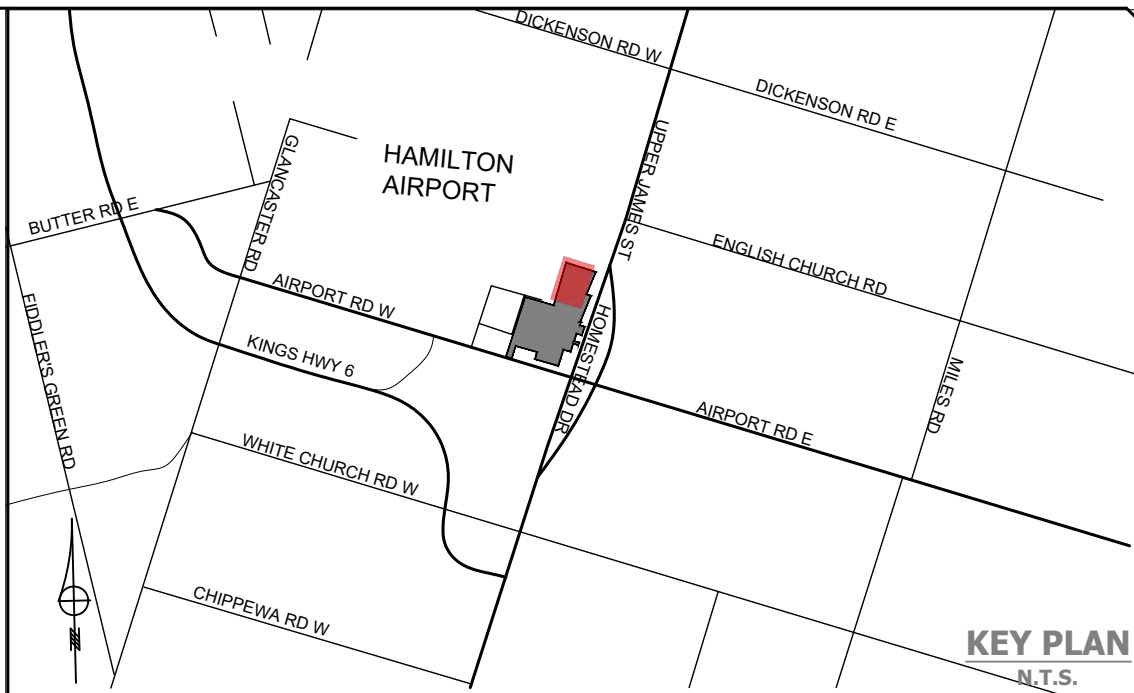
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**TREE INVENTORY AND
PRESERVATION PLAN</**

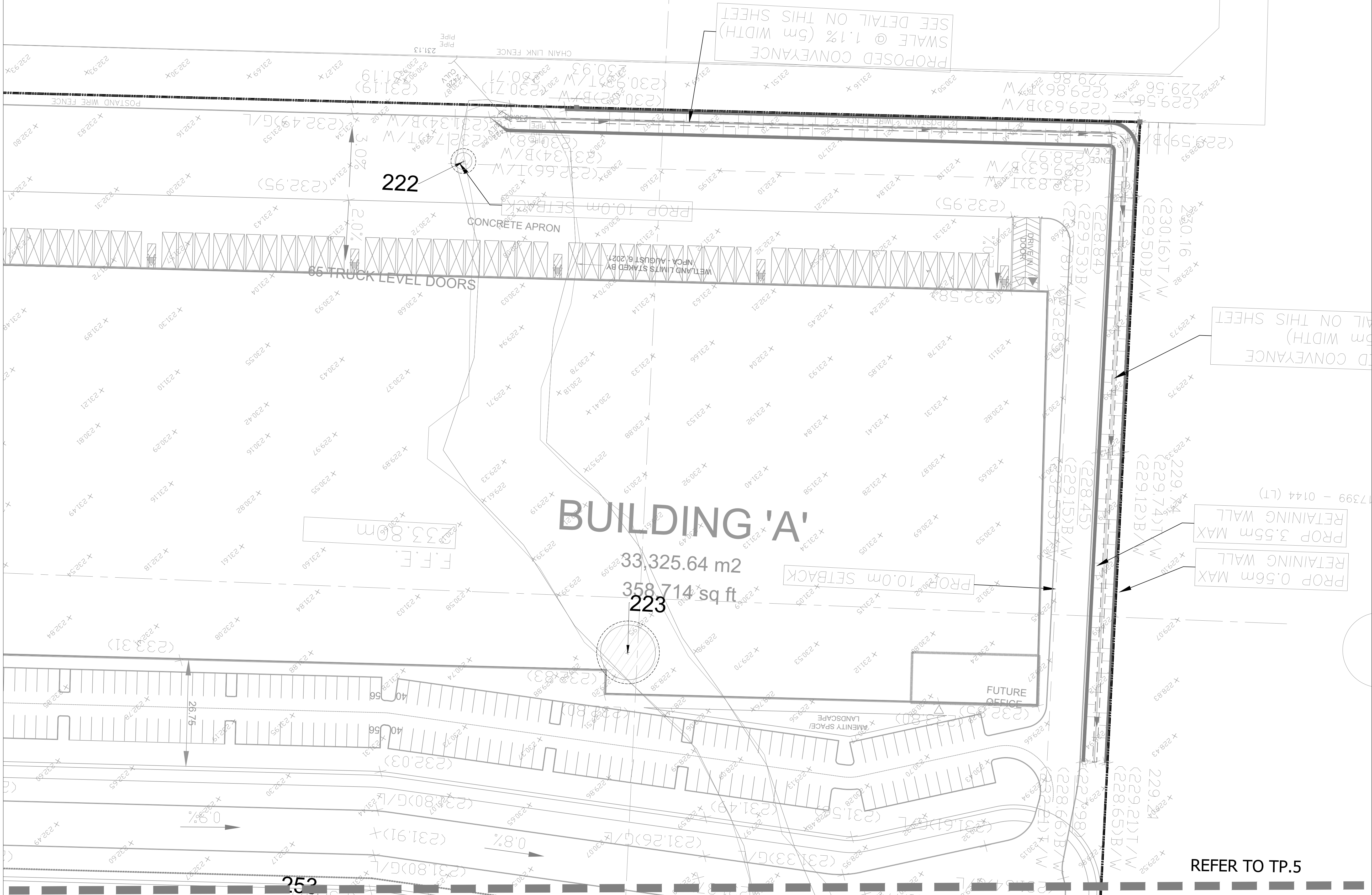
REFER TO TP.2

Tree ID Number	Species Common Name	Species Scientific Name	Multi-stem DBH¹ (cm)	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Biological Health	Structural Health	Overall Health	TPZ (m)	Recommended Action	Rationale for Removals	Compensation Plantings Required	Ownership	Notes
222	Cottonwood	Populus deltoides	17	17	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
223	Willow	Salix sp.	35	20	20	20	0	0	7	Good	Fair	Fair	8	Remove	Grading	1	Private	Spreading stems, colony
Total compensation required -			2															



LEGEND

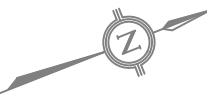
- PROPERTY LIMIT
- TREE PRESERVATION HOARDING
- TREE FOR PRESERVATION
 - TREE PROTECTION ZONE
 - TREE CROWN
- TREE FOR REMOVAL
 - TREE PROTECTION ZONE
 - TREE CROWN



REFER TO TP.5

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No.	ISSUED	2023/07/31	NC
	REVISION	DATE	BY

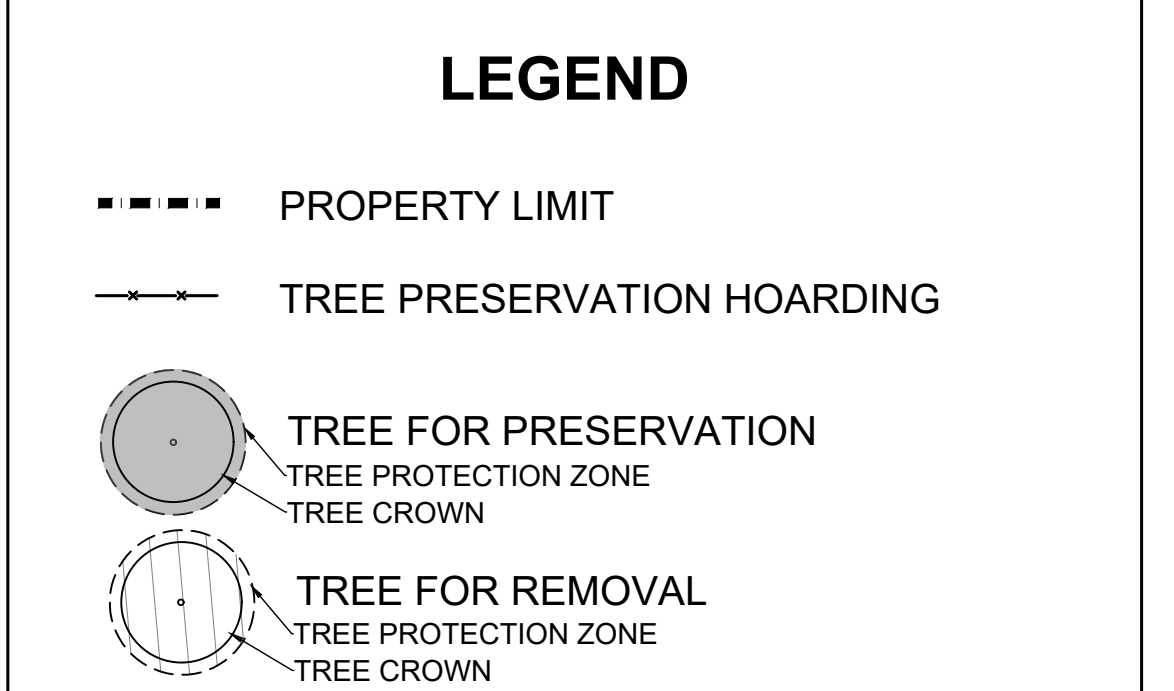
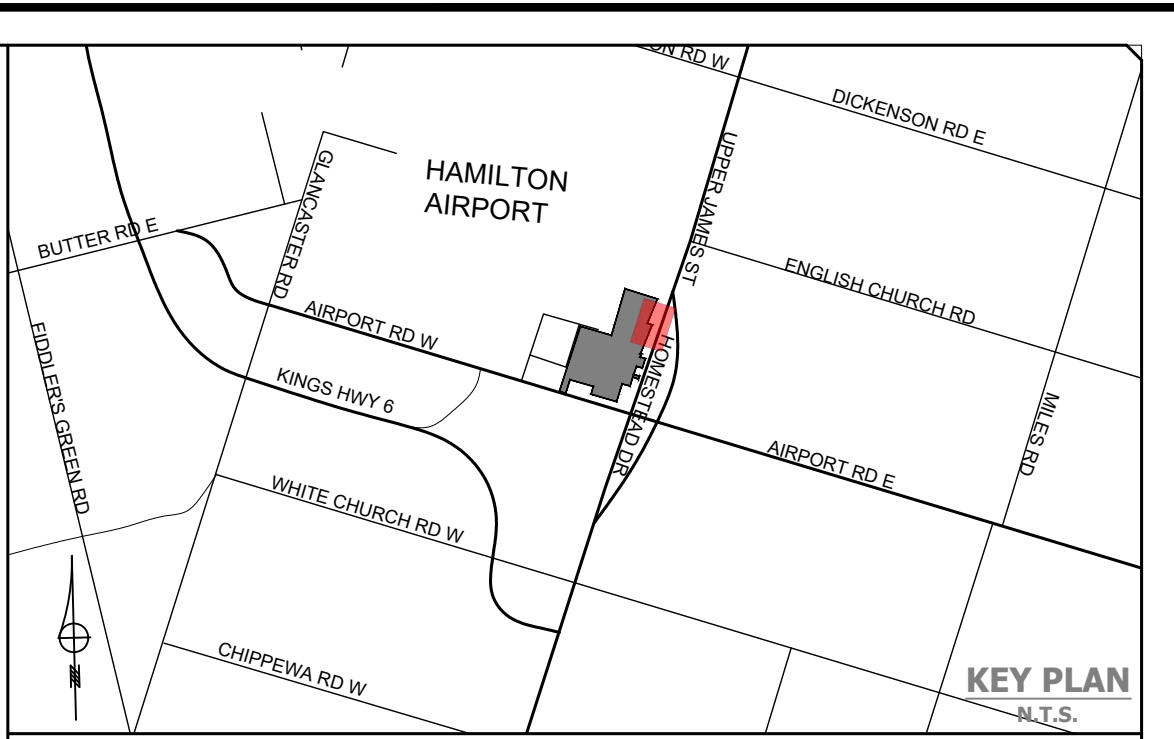
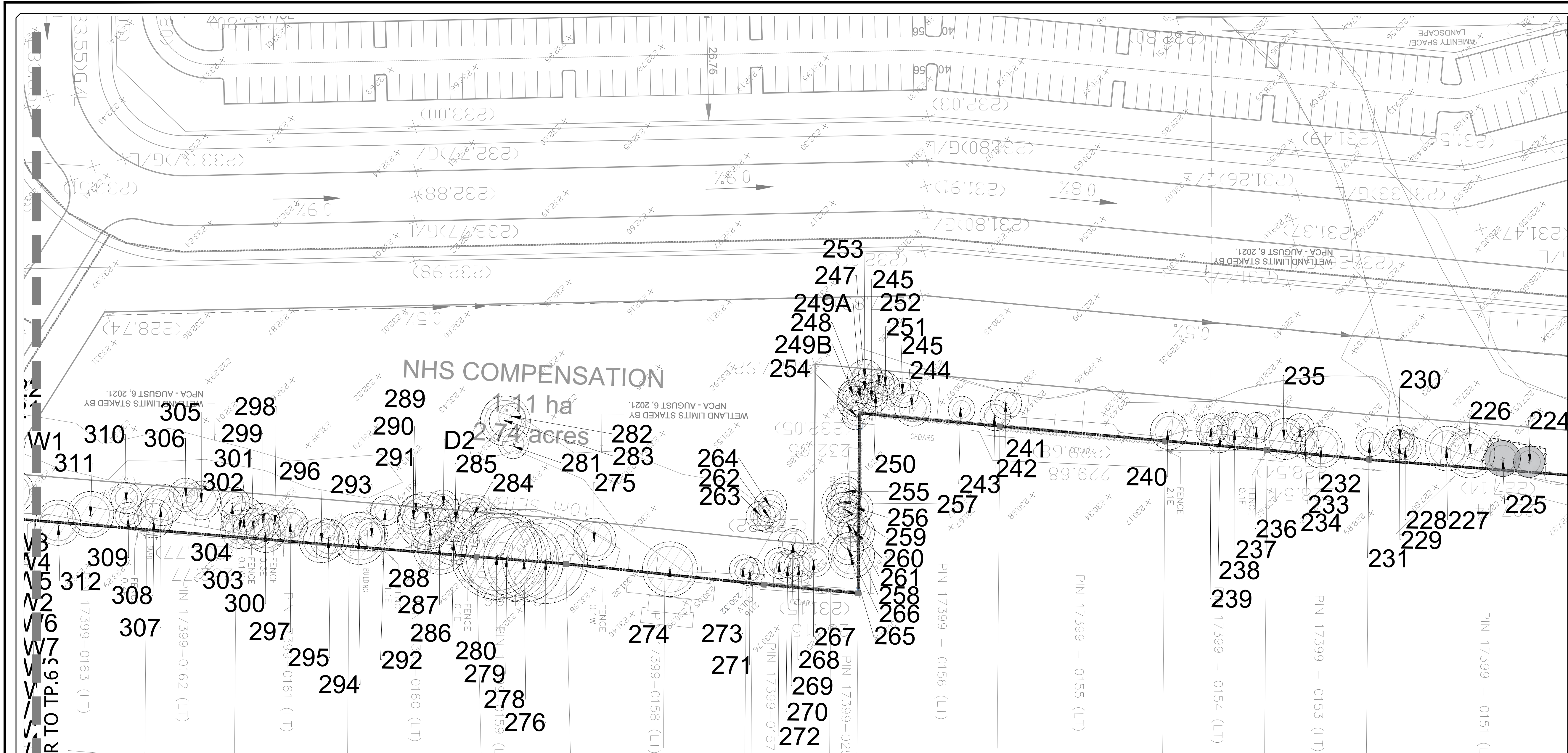
FENGATE ASSET MANAGEMENT



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AIRPORT RD & 9175 AIRPORT RD

TREE INVENTORY AND
PRESERVATION PLAN

DESIGNED BY:	NC	CHECKED BY:	NC	PROJECT No.:	2100017
DRAWN BY:	NC/MS	DATE:	28 July 2023	FIGURE No.:	
SCALE:	1:500				TP.4



Tree ID Number	Species Common Name	Species Scientific Name	Multi-stem?	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Biological Health	Structural Health	Overall Health	TPZ (m)	Recommended Action	Rationale for Removals	Compensation Plantings Required	Ownership	Notes
224	Manitoba Maple	Acer negundo	19	12	10	0	0	0	1.5	Good	Fair	Fair	2.5	Preserve			Private	Multiple stems, suckering
225	Silver Maple	Acer saccharinum	35	35	0	0	0	0	3	Good	Fair	Fair	4	Preserve			Private	Codominant stems
226	Silver Maple	Acer saccharinum	42	30	30	0	0	0	4.5	Good	Fair	Fair	5.5	Remove	Grading	1	Private	Codominant stems
227	Silver Maple	Acer saccharinum	40	25	22	18	14	0	4	Good	Fair	Fair	5	Remove	Grading	1	Private	Multiple stems
228	Black Walnut	Juglans nigra	25	25	0	0	0	0	2	Poor	Poor	Poor	3	Remove	Grading	1	Private	Crown dieback, missing and peeling bark, diseased
229	Black Walnut	Juglans nigra	22	22	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Crown dieback
230	Black Walnut	Juglans nigra	15	15	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Crown dieback
231	Manitoba Maple	Acer negundo	32	25	20	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Codominant stems	
232	Black Walnut	Juglans nigra	30	30	0	0	0	0	2.5	Good	Fair	Fair	3.5	Remove	Grading	1	Private	Included bark
233	Manitoba Maple	Acer negundo	15	15	0	0	0	0	2.5	Good	Fair	Fair	3.5	Remove	Grading	1	Private	On lean
234	Manitoba Maple	Acer negundo	15	15	0	0	0	0	2.5	Good	Fair	Fair	3.5	Remove	Grading	1	Private	On lean
235	Manitoba Maple	Acer negundo	45	45	0	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	On lean, suckering
236	Manitoba Maple	Acer negundo	38	38	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
237	Manitoba Maple	Acer negundo	28	28	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
238	Manitoba Maple	Acer negundo	37	37	0	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	On lean
239	Manitoba Maple	Acer negundo	30	30	0	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	On lean
240	Manitoba Maple	Acer negundo	22	22	0	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	On lean
241	Manitoba Maple	Acer negundo	30	30	0	0	0	0	2.5	Fair	Poor	Poor	3.5	Remove	Grading	1	Private	On lean, crown dieback, rot on stem, holes in trunk
242	Manitoba Maple	Acer negundo	18	18	0	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	On lean
243	Manitoba Maple	Acer negundo	40	40	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
244	Manitoba Maple	Acer negundo	22	17	14	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Codominant stems, on lean
245	Manitoba Maple	Acer negundo	20	16	12	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Codominant stems, on lean, debris
246	Manitoba Maple	Acer negundo	20	16	12	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Codominant stems, on lean, debris
247	Manitoba Maple	Acer negundo	20	20	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	On lean, debris
248	Manitoba Maple	Acer negundo	23	23	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	On lean, debris
249A	Manitoba Maple	Acer negundo	13	13	0	0	0	0	1	Fair	Fair	Fair	2	Remove	Grading	1	Private	On lean, debris
249B	Manitoba Maple	Acer negundo	15	15	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Grading	1	Private	On lean, debris
250	Manitoba Maple	Acer negundo	26	17	15	12	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	On lean, debris
251	Manitoba Maple	Acer negundo	17	17	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	On lean, debris
252	Manitoba Maple	Acer negundo	11	11	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Codominant stems, on lean, debris
253	Manitoba Maple	Acer negundo	16	12	10	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Codominant stems, on lean, debris
254	Manitoba Maple	Acer negundo	46	36	28	0	0	0	3.5	Fair	Fair	Fair	4.5	Remove	Grading	1	Private	On lean, debris
255	Manitoba Maple	Acer negundo	25	25	0	0	0	0	1.5	Poor	Poor	Poor	2.5	Remove	Grading	1	Private	On lean, debris, crown dieback
256	Manitoba Maple	Acer negundo	20	20	0	0	0	0	1.5	Poor	Poor	Poor	2.5	Remove	Grading	1	Private	Debris
257	Manitoba Maple	Acer negundo	11	11	0	0	0	0	1	Fair	Fair	Fair	2	Remove	Grading	1	Private	Debris
258	Black Walnut	Juglans nigra	20	20	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	Debris
259	Manitoba Maple	Acer negundo	11	11	0	0	0	0	1	Fair	Fair	Fair	2	Remove	Grading	1	Private	Debris, dead secondary stem
260	Black Walnut	Juglans nigra	21	21	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	Debris
261	Black Walnut	Juglans nigra	20	20	0	0	0	0	2	Good	Fair	Good	3	Remove	Grading	1	Private	Debris
262	Silver Maple	Acer saccharinum	21	12	10	10	10	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Multiple stems
263	Silver Maple	Acer saccharinum	25	25	0	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Included bark
264	Willow	Salix sp.	10	10	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Grading	1	Private	Crown dieback
265	Black Walnut	Juglans nigra	15	15	0	0	0	0	2	Good	Fair	Good	3	Remove	Grading	1	Private	Debris
266	Black Walnut	Juglans nigra	18	18	0	0	0	0	2	Good	Fair	Good	3	Remove	Grading	1	Private	Debris
267	Manitoba Maple	Acer negundo	15	15	0	0	0	0	1	Poor	Poor	Poor	2	Remove	Grading	1	Private	Almost dead, debris
268	Black Walnut	Juglans nigra	15	15	0	0	0	0	2	Good	Fair	Good	3	Remove	Grading	1	Private	Debris
269	Manitoba Maple	Acer negundo	30	30	0	0	0	0	2	Good	Fair	Good	3	Remove	Grading	1	Private	Debris
270	Black Walnut	Juglans nigra	20	20	0	0	0	0	2	Good	Fair	Good	3	Remove	Grading	1	Private	Debris
271	Willow	Salix sp.	35	35	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Crown dieback, peeling bark, burn marks at base of trunk
272	Manitoba Maple	Acer negundo	21	15	15	0	0	0	3	Poor	Poor	Poor	4	Remove	Grading	1	Private	Almost dead, debris

5					
4					
3					
2					
1					
No.	ISSUED	2023/07/31	NC		
	REVISION	DATE	BY		

FENGATE ASSET MANAGEMENT


NATASHA COLLINS
ON-2127A


Consultants

**3054 HOMESTEAD DR, 9166
AIRPORT RD & 9175 AIRPORT RD**

**TREE INVENTORY AND
PRESERVATION PLAN**

DESIGNED BY: NC CHECKED BY: NC PROJECT No.: 2100017
DRAWN BY: NC/MS DATE: 28 July 2023 FIGURE No.:
SCALE: 1:500  TIPP.5

FILE: C:\USERS\NCOLLINS\DRAWING - GEI CONSULTANTS, INC\DESKTOP\UPLOAD TO B3054 HOMESTEAD\2023-07-26\HOMESTEAD-TIPP-RECOVER.DWG

Tree ID Number	Species Common Name	Species Scientific Name	Mature Stem Diameter (cm)	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	Crown Radius (m)	Biological Health	Structural Health	Overall Health	TPE (m)	Recommended Action	Rationale for Removals	Compensation Plantings Required	Ownership	Notes
313	Black Walnut	Juglans nigra	11	11	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Multiple stems, bent stem
314	Manitoba Maple	Acer negundo	15	15	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	Codominant stems
315	Black Walnut	Juglans nigra	17	12	12	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	Codominant stems
316	Black Walnut	Juglans nigra	12	12	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	Codominant stems
317	Black Walnut	Juglans nigra	10	10	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	Codominant stems
318	Black Walnut	Juglans nigra	11	11	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	Codominant stems
319	Black Walnut	Juglans nigra	12	12	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
320	White Ash	Fraxinus alba	12	15	14	14	14	1.5	Good	Fair	Fair	4.5	Remove	Grading	1	Private	Multiple stems
321	Manitoba Maple	Acer negundo	20	20	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	Multiple stems
322	Black Walnut	Juglans nigra	16	16	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	Multiple stems
323	Manitoba Maple	Acer negundo	27	16	15	15	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, multiple stems
324	Manitoba Maple	Acer negundo	27	16	15	15	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, multiple stems
325	Manitoba Maple	Acer negundo	31	20	20	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Debris, multiple stems
326	Manitoba Maple	Acer negundo	25	25	0	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Debris, multiple stems
327	Manitoba Maple	Acer negundo	48	30	28	25	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Debris, multiple stems
328	Manitoba Maple	Acer negundo	24	24	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean
329	Manitoba Maple	Acer negundo	24	24	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean
330	Manitoba Maple	Acer negundo	22	18	13	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean, beaked stem
331	Manitoba Maple	Acer negundo	24	24	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean
332	Manitoba Maple	Acer negundo	22	22	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean
334	Manitoba Maple	Acer negundo	18	18	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Debris, on lean
335	Manitoba Maple	Acer negundo	15	15	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Debris, on lean
336	Manitoba Maple	Acer negundo	24	15	13	13	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Debris, multiple stems, on lean
337	Manitoba Maple	Acer negundo	18	18	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean
338	Manitoba Maple	Acer negundo	18	18	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean
339	Manitoba Maple	Acer negundo	18	18	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean
340	Manitoba Maple	Acer negundo	35	22	20	18	0	4.5	Fair	Fair	Fair	5.5	Remove	Grading	1	Private	Debris, multiple stems
341	Manitoba Maple	Acer negundo	12	12	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, multiple stems
342	Manitoba Maple	Acer negundo	27	22	15	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	Debris, multiple stems
343	Manitoba Maple	Acer negundo	11	11	0	0	0	1	Good	Good	Good	1	Remove	Grading	1	Private	Debris, multiple stems
344	Black Walnut	Juglans nigra	15	15	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Overgrown with vines
345	Black Walnut	Juglans nigra	15	15	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	Overgrown with vines
346	Manitoba Maple	Acer negundo	29	30	29	20	0	5	Good	Fair	Fair	6	Remove	Grading	1	Private	Overgrown with vines
347	Manitoba Maple	Acer negundo	28	28	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Overgrown with vines
348	Manitoba Maple	Acer negundo	28	28	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Overgrown with vines
349	Manitoba Maple	Acer negundo	23	18	15	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Overgrown with vines
350	Manitoba Maple	Acer negundo	42	42	0	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Overgrown with vines
351	Black Walnut	Juglans nigra	12	12	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	Overgrown with vines
352	Manitoba Maple	Acer negundo	15	15	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	Overgrown with vines
353	Manitoba Maple	Acer negundo	15	15	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	Overgrown with vines
354	Manitoba Maple	Acer negundo	31	15	15	0	0	3.5	Fair	Fair	Fair	4.5	Remove	Grading	1	Private	Overgrown with vines
355	Black Walnut	Juglans nigra	10	10	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	Overgrown with vines
356	Manitoba Maple	Acer negundo	13	13	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	Overgrown with vines
357	Manitoba Maple	Acer negundo	13	13	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	Overgrown with vines
358	Manitoba Maple	Acer negundo	28	28	0	0	0	3	Good	Good	Good	4	Preserve	Grading	1	Private	Overgrown with vines
359	Manitoba Maple	Acer negundo	28	28	0	0	0	3	Good	Good	Good	4	Preserve	Grading	1	Private	Overgrown with vines
360	Manitoba Maple	Acer negundo	28	28	0	0	0	3	Good	Good	Good	4	Preserve	Grading	1	Private	Overgrown with vines
361	Silver Maple	Acer saccharinum	12	12	0	0	0	3	Fair	Fair	Fair	4	Preserve	Grading	1	Private	Overgrown with vines
362	Black Walnut	Juglans nigra	18	18	0	0	0	3	Good	Good	Good	4	Preserve	Grading	1	Private	Overgrown with vines
363	Black Walnut	Juglans nigra	12	12	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	Overgrown with vines
364	Black Walnut	Juglans nigra	15	15	0	0	0	2.5	Good	Good	Good	3.5	Preserve	Grading	1	Private	Overgrown with vines
365	Manitoba Maple	Acer negundo	25	25	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	Overgrown with vines
366	Black Walnut	Juglans nigra	11	11	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Overgrown with vines
367	Black Walnut	Juglans nigra	12	12	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	Overgrown with vines
368	Silver Maple	Acer saccharinum	60	40	0	0	0	2.5	Poor	Poor	Poor	3.5	Remove	Condition	1	Private	Overgrown with vines
369	Horse Chestnut	Aesculus hippocastanum	55	55	0	0	0	2.5	Poor	Poor	Poor	3.5	Remove	Condition	1	Private	Overgrown with vines
370	Horse Chestnut	Aesculus hippocastanum	45	45	0	0	0	2.5	Fair	Fair	Fair	3.5	Preserve	Grading	1	Private	Overgrown with vines
371	Horse Chestnut	Aesculus hippocastanum	22	22	0	0	0	2	Fair	Fair	Fair	3	Preserve	Grading	1	Private	Overgrown with vines
372	Yulip Tree	Liriodendron tulipifera	50	50	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	Overgrown with vines
373	Manitoba Maple	Acer negundo	50	50	0	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Overgrown with vines
374	Norway Maple	Acer platanoides	52	20	20	20	0	5	Good	Fair	Fair	6	Remove	Grading	1	Private	Overgrown with vines
375	Manitoba Maple	Acer negundo	15	15	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	Overgrown with vines

Tree ID	Species	Species Common Name	Species Scientific Name	Mature Stem Diameter (cm)	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Biological Health	Structural Health	Overall Health	TPE (m)	Recommended Action	Rationale for Removals	Compensation Plantings Required	Ownership	Notes
W14		White Poplar	Populus alba	70	70	0	0	0	0	4	Poor	Poor	Poor	5	Remove	Grading	1	Private	Heart stems, codominant stems, debris, broken stems
W15		White Poplar	Populus alba	47	45	40	40	0	0	3	Poor	Poor	Poor	4	Remove	Grading	1	Private	Heart stems, debris
W16		White Poplar	Populus alba	40	40	0	0	0	0	3	Poor	Poor	Poor	4	Remove	Grading	1	Private	Codominant stems
W17		Manitoba Maple	Acer negundo	16	11	11	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Codominant stems
W18		Black Walnut	Juglans nigra	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W19		Black Walnut	Juglans nigra	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W20		Manitoba Maple	Acer negundo	41	28	25	17	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Debris, included bark, hollow in stem
W21		Black Walnut	Juglans nigra	17	17	0	0	0	0	1	Good	Good	Good	2	Remove	Grading	1	Private	Codominant stems
W22		Black Walnut	Juglans nigra	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W23		Black Walnut	Juglans nigra	13	13	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W24		Black Walnut	Juglans nigra	20	20	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	Codominant stems
W25		Black Walnut	Juglans nigra	12	12	0	0	0	0	1	Good	Good	Good	2	Remove	Grading	1	Private	Codominant stems
W26		Black Walnut	Juglans nigra	16	12	13	1	0	0	1	Good	Good	Good	2	Remove	Grading	1	Private	Codominant stems
W27		Black Walnut	Juglans nigra	12	12	0	0	0	0	1	Good	Good	Good	2	Remove	Grading	1	Private	Codominant stems
W28		Black Walnut	Juglans nigra	13	13	0	0	0	0	1	Good	Good	Good	2	Remove	Grading	1	Private	Codominant stems
W29		Black Walnut	Juglans nigra	20	20	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	Codominant stems
W30		Black Walnut	Juglans nigra	22	22	0	0	0	0	3.5	Good	Good	Good	4.5	Remove	Grading	1	Private	Codominant stems
W31		Black Walnut	Juglans nigra	18	18	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	Codominant stems
W32		Black Walnut	Juglans nigra	13	13	13	2	0	0	2	Good	Good	Good	2	Remove	Grading	1	Private	Codominant stems
W33		Black Walnut	Juglans nigra	23	23	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	Multiple stems
W34		Black Walnut	Juglans nigra	34	34	20	15	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Tree fallen onto, no included bark
W35		Black Walnut	Juglans nigra	25	25	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Broken limbs, large wounds on main stem
W36		Manitoba Maple	Acer negundo	30	30	0	0	0	0	5	Poor	Poor	Poor	6	Remove	Grading	1	Private	Deadwood branches, wounds on stem
W37		Manitoba Maple	Acer negundo	25	25	0	0	0	0	4.5	Fair	Fair	Fair	5.5	Remove	Grading	1	Private	Multiple stems
W38		Manitoba Maple	Acer negundo	10	10	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Multiple stems
W39		Manitoba Maple	Acer negundo	42	30	30	0	0	0	5	Poor	Poor	Poor	6	Remove	Grading	1	Private	Limbs growing horizontally, spreading, broken limbs, bark splits and wounds
W40		Norway Maple	Acer platanoides	28	28	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Growing horizontally
W41		Black Walnut	Juglans nigra	22	22	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	Horizontal, twisted and bent stems, suckering
W42		Manitoba Maple	Acer negundo	45	45	0	0	0	0	4	Poor	Poor	Poor	5	Remove	Grading	1	Private	Codominant stems
W43		Black Walnut	Juglans nigra	12	12	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W44		Black Walnut	Juglans nigra	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W45		Manitoba Maple	Acer negundo	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W46		Black Walnut	Juglans nigra	17	17	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W47		Black Walnut	Juglans nigra	17	17	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W48		Manitoba Maple	Acer negundo	25	25	0	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Codominant stems
W49		Black Walnut	Juglans nigra	23	23	0	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Codominant stems
W50		Manitoba Maple	Acer negundo	15	15	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Grading	1	Private	Codominant stems
W51		Black Walnut	Juglans nigra	12	12	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W52		Black Walnut	Juglans nigra	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W53		Black Walnut	Juglans nigra	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W54		Black Walnut	Juglans nigra	11	11	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W55		Black Walnut	Juglans nigra	13	13	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W56		Black Walnut	Juglans nigra	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W57		Black Walnut	Juglans nigra	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W58		Black Walnut	Juglans nigra	14	14	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W59		Black Walnut	Juglans nigra	17	17	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W60		Black Walnut	Juglans nigra	13	13	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W61		Black Walnut	Juglans nigra	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W62		Black Walnut	Juglans nigra	28	18	15	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W63		Black Walnut	Juglans nigra	20	20	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W64		Black Walnut	Juglans nigra	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W65		Black Walnut	Juglans nigra	16	12	10	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W66		Black Walnut	Juglans nigra	12	12	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W67		Black Walnut	Juglans nigra	12	12	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W68		Black Walnut	Juglans nigra	17	17	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems
W69		Black Walnut	Juglans nigra	14	14	15	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	Codominant stems

Appendix B

Tables



Tree ID Number	Species Common Name	Species Scientific Name	Multi-stem DBH ¹ (cm)	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Biological Health	Structural Health	Overall Health	TPZ (m)	Recommended Action	Rationale for Removals	Compensation Plantings Required	Ownership	Notes
101	Green Ash	<i>Fraxinus pennsylvanica</i>	12	12	0	0	0	0	1.5	Poor	Poor	Poor	2.5	Remove	Condition	1	Private	EAB, almost dead, one live limb
102	Silver Maple	<i>Acer saccharinum</i>	28	25	12	0	0	0	3	Good	Fair	Fair	4	Preserve			Private	Multiple stems, included bark
103	Green Ash	<i>Fraxinus pennsylvanica</i>	58	54	21	0	0	0	5	Fair	Poor	Fair	6	Remove	Grading	1	Private	On lean, dead and broken limbs and branches
104	Green Ash	<i>Fraxinus pennsylvanica</i>	18	14	12	0	0	0	2.5	Poor	Poor	Poor	3.5	Remove	Condition	1	Private	Suckering, almost dead
105	Black Walnut	<i>Juglans nigra</i>	14	14	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
106	Manitoba Maple	<i>Acer negundo</i>	22	22	0	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	On lean, two stems, broken limb
107	Black Walnut	<i>Juglans nigra</i>	16	16	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
108	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
109	Black Walnut	<i>Juglans nigra</i>	11	11	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
110	Black Walnut	<i>Juglans nigra</i>	16	12	10	0	0	0	3	Good	Fair	Fair	4	Preserve			Private	Multiple stems
111	Black Walnut	<i>Juglans nigra</i>	16	11	11	0	0	0	2.5	Good	Good	Good	3.5	Preserve			Private	
112	Black Walnut	<i>Juglans nigra</i>	14	14	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
113	Black Walnut	<i>Juglans nigra</i>	17	17	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
114	Black Walnut	<i>Juglans nigra</i>	19	19	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
115	Manitoba Maple	<i>Acer negundo</i>	11	11	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
117	Silver Maple	<i>Acer saccharinum</i>	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
118	Silver Maple	<i>Acer saccharinum</i>	12	12	0	0	0	0	1	Good	Good	Good	2	Remove	Grading	1	Private	
119	Silver Maple	<i>Acer saccharinum</i>	15	15	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Grading	1	Private	Suckering
120	Silver Maple	<i>Acer saccharinum</i>	13	13	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
121	Silver Maple	<i>Acer saccharinum</i>	13	13	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Preserve			Private	Multiple stems
122	Silver Maple	<i>Acer saccharinum</i>	15	15	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Preserve			Private	Multiple stems
123	Silver Maple	<i>Acer saccharinum</i>	15	15	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
124	Silver Maple	<i>Acer saccharinum</i>	14	14	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
125	Silver Maple	<i>Acer saccharinum</i>	15	15	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
126	Silver Maple	<i>Acer saccharinum</i>	16	16	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Girdling from rope wrapped around
127	Silver Maple	<i>Acer saccharinum</i>	15	15	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
129	Silver Maple	<i>Acer saccharinum</i>	17	17	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
169	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	2	Good	Good	Good	3	Preserve			Private	
172	Black Walnut	<i>Juglans nigra</i>	10	10	0	0	0	0	2	Good	Good	Good	3	Preserve			Private	
200	Silver Maple	<i>Acer saccharinum</i>	35	35	0	0	0	0	4	Good	Good	Good	5	Preserve			Boundary	
201	Manitoba Maple	<i>Acer negundo</i>	22	22	0	0	0	0	3	Fair	Fair	Fair	4	Preserve			Private	Wounds along stem, on lean
202	Black Walnut	<i>Juglans nigra</i>	18	13	12	0	0	0	2	Fair	Fair	Fair	3	Preserve			Private	Codominant stems, peeling bark
203	Silver Maple	<i>Acer saccharinum</i>	49	32	30	22	0	0	4	Good	Fair	Fair	5	Remove	Grading	1	Boundary	Codominant stems
204	Manitoba Maple	<i>Acer negundo</i>	28	28	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Boundary	
205	Silver Maple	<i>Acer saccharinum</i>	28	28	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Boundary	
206	Silver Maple	<i>Acer saccharinum</i>	30	30	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	
207	Silver Maple	<i>Acer saccharinum</i>	35	35	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	
208	Silver Maple	<i>Acer saccharinum</i>	27	27	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	
209	Silver Maple	<i>Acer saccharinum</i>	40	40	0	0	0	0	4	Good	Fair	Fair	5	Remove	Grading	1	Private	Codominant stems, included bark
210	Silver Maple	<i>Acer saccharinum</i>	31	31	0	0	0	0	4	Good	Fair	Fair	5	Remove	Grading	1	Private	Codominant leaders, included bark
211	Silver Maple	<i>Acer saccharinum</i>	37	37	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	
212	Silver Maple	<i>Acer saccharinum</i>	31	31	0	0	0	0	4	Good	Fair	Fair	5	Remove	Grading	1	Private	Codominant leaders, included bark
213	Silver Maple	<i>Acer saccharinum</i>	32	32	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	
214	Cottonwood	<i>Populus deltoides</i>	37	37	0	0	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Branch dieback
215	Black Walnut	<i>Juglans nigra</i>	36	36	0	0	0	0	4	Poor	Fair	Poor	5	Remove	Grading	1	Boundary	Crown dieback
216	Black Walnut	<i>Juglans nigra</i>	20	20	0	0	0	0	3	Poor	Fair	Poor	4	Remove	Grading	1	Boundary	Crown dieback
217	Common Apple	<i>Malus pumila</i>	55	55	0	0	0	0	4	Poor	Poor	Poor	5	Remove	Grading	1	Boundary	Stem split open, standing portion of stem bent
218	Manitoba Maple	<i>Acer negundo</i>	36	28	17	15	0	0	4	Fair	Poor	Poor	5	Remove	Grading	1	Private	Multiple stems, on lean
219	Cottonwood	<i>Populus deltoides</i>	33	33	0	0	0	0	3	Good	Good	Good	4	Preserve			Neighbour	
220	Cottonwood	<i>Populus deltoides</i>	27	19	19	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Neighbour	Codominant stems
221	Cottonwood	<i>Populus deltoides</i>	37	26	26	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Neighbour	Codominant stems
222	Cottonwood	<i>Populus deltoides</i>	17	17	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
223	Willow	<i>Salix sp.</i>	35	20	20	20	0	0	1.5	Good	Fair	Fair	2.5	Remove	Grading	1	Private	Spreading stems, colony
224	Manitoba Maple	<i>Acer negundo</i>	19	12	10	10	0	0	1.5	Good	Fair	Fair	2.5	Preserve			Private	Multiple stems, suckering
225	Silver Maple	<i>Acer saccharinum</i>	35	35	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
226	Silver Maple	<i>Acer saccharinum</i>	42	30	30	0	0	0	4.5	Good	Fair	Fair	5.5	Remove	Grading	1	Private	Codominant stems
227	Silver Maple	<i>Acer saccharinum</i>	40	25	22	18	14	0	4	Good	Fair	Fair	5	Remove	Grading	1	Private	Multiple stems
228	Black Walnut	<i>Juglans nigra</i>	25	25	0	0	0	0	2	Poor	Poor	Poor	3	Remove	Grading	1	Private	Crown dieback, missing and peeling bark, diseased
229	Black Walnut	<i>Juglans nigra</i>	22	22	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Crown dieback
230	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Crown dieback
231	Manitoba Maple	<i>Acer negundo</i>	32	25	20	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Codominant stems
232	Black Walnut	<i>Juglans nigra</i>	30	30	0	0	0	0	2.5	Good	Fair	Fair	3.5	Remove	Grading	1	Private	Included bark
233	Manitoba Maple	<i>Acer negundo</i>	15	15	0	0	0	0	2.5	Good	Fair	Fair	3.5	Remove	Grading	1	Private	On lean
234	Manitoba Maple	<i>Acer negundo</i>	15	15	0	0	0	0	2.5	Good	Fair	Fair	3.5	Remove	Grading	1	Private	On lean
235	Manitoba Maple	<i>Acer negundo</i>	45	45	0	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	On lean, suckering
236	Manitoba Maple	<i>Acer negundo</i>	38	38	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	

Tree ID Number	Species Common Name	Species Scientific Name	Multi-stem DBH ¹ (cm)	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Biological Health	Structural Health	Overall Health	TPZ (m)	Recommended Action	Rationale for Removals	Compensation Plantings Required	Ownership	Notes
237	Manitoba Maple	<i>Acer negundo</i>	28	28	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
238	Manitoba Maple	<i>Acer negundo</i>	37	37	0	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	On lean
239	Manitoba Maple	<i>Acer negundo</i>	30	30	0	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	On lean
240	Manitoba Maple	<i>Acer negundo</i>	22	22	0	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	On lean
241	Manitoba Maple	<i>Acer negundo</i>	30	30	0	0	0	0	2.5	Fair	Poor	Poor	3.5	Remove	Grading	1	Private	On lean, crown dieback, rot on stem, holes in trunk
242	Manitoba Maple	<i>Acer negundo</i>	18	18	0	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	On lean
243	Manitoba Maple	<i>Acer negundo</i>	40	40	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
244	Manitoba Maple	<i>Acer negundo</i>	22	17	14	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Codominant stems, on lean
245	Manitoba Maple	<i>Acer negundo</i>	20	16	12	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Codominant stems, on lean, debris
246	Manitoba Maple	<i>Acer negundo</i>	20	16	12	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Codominant stems, on lean, debris
247	Manitoba Maple	<i>Acer negundo</i>	20	20	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	On lean, debris
248	Manitoba Maple	<i>Acer negundo</i>	23	23	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	On lean, debris
249a	Manitoba Maple	<i>Acer negundo</i>	13	13	0	0	0	0	1	Fair	Fair	Fair	2	Remove	Grading	1	Private	On lean, debris
249b	Manitoba Maple	<i>Acer negundo</i>	15	15	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Grading	1	Private	On lean, debris
250	Manitoba Maple	<i>Acer negundo</i>	26	17	15	12	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	On lean, debris
251	Manitoba Maple	<i>Acer negundo</i>	17	17	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	On lean, debris
252	Manitoba Maple	<i>Acer negundo</i>	11	11	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Codominant stems, on lean, debris
253	Manitoba Maple	<i>Acer negundo</i>	16	12	10	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Codominant stems, on lean, debris
254	Manitoba Maple	<i>Acer negundo</i>	46	36	28	0	0	0	3.5	Fair	Fair	Fair	4.5	Remove	Grading	1	Private	On lean, debris
255	Manitoba Maple	<i>Acer negundo</i>	25	25	0	0	0	0	1.5	Poor	Poor	Poor	2.5	Remove	Grading	1	Private	On lean, debris, crown dieback
256	Manitoba Maple	<i>Acer negundo</i>	20	20	0	0	0	0	1.5	Poor	Poor	Poor	2.5	Remove	Grading	1	Private	On lean, debris, crown dieback
257	Manitoba Maple	<i>Acer negundo</i>	11	11	0	0	0	0	1	Fair	Fair	Fair	2	Remove	Grading	1	Private	Debris
258	Black Walnut	<i>Juglans nigra</i>	20	20	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
259	Manitoba Maple	<i>Acer negundo</i>	11	11	0	0	0	0	1	Fair	Fair	Fair	2	Remove	Grading	1	Private	Debris, dead secondary stem
260	Black Walnut	<i>Juglans nigra</i>	21	21	0	0	0	0	2	Good	Fair	Good	3	Remove	Grading	1	Private	Debris
261	Black Walnut	<i>Juglans nigra</i>	20	20	0	0	0	0	2	Good	Fair	Good	3	Remove	Grading	1	Private	Debris
262	Silver Maple	<i>Acer saccharinum</i>	21	12	10	10	10	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Multiple stems
263	Silver Maple	<i>Acer saccharinum</i>	25	25	0	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Included bark
264	Willow	<i>Salix sp.</i>	10	10	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Grading	1	Private	Crown dieback
265	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	2	Good	Fair	Good	3	Remove	Grading	1	Private	Debris
266	Black Walnut	<i>Juglans nigra</i>	18	18	0	0	0	0	2	Good	Fair	Good	3	Remove	Grading	1	Private	Debris
267	Manitoba Maple	<i>Acer negundo</i>	15	15	0	0	0	0	1	Poor	Poor	Poor	2	Remove	Grading	1	Private	Almost dead, debris
268	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	2	Good	Fair	Good	3	Remove	Grading	1	Private	Debris
269	Manitoba Maple	<i>Acer negundo</i>	30	30	0	0	0	0	2	Good	Fair	Good	3	Remove	Grading	1	Private	Debris
270	Black Walnut	<i>Juglans nigra</i>	20	20	0	0	0	0	2	Good	Fair	Good	3	Remove	Grading	1	Private	Debris
271	Willow	<i>Salix sp.</i>	35	35	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Crown dieback, peeling bark, burn marks at base of trunk
272	Manitoba Maple	<i>Acer negundo</i>	21	15	15	0	0	0	3	Poor	Poor	Poor	4	Remove	Grading	1	Private	Almost dead, debris
273	Willow	<i>Salix sp.</i>	49	35	35	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Crown dieback, peeling bark, burn at base of trunk, codominant stems
274	Black Walnut	<i>Juglans nigra</i>	25	25	0	0	0	0	3.5	Fair	Fair	Fair	4.5	Remove	Grading	1	Boundary	Included bark in limb fork with moisture, peeling bark
275	Common Apple	<i>Malus pumila</i>	29	15	13	13	12	12	2.5	Good	Fair	Fair	3.5	Remove	Grading	1	Private	Multiple stems
276	Black Walnut	<i>Juglans nigra</i>	63	63	0	0	0	0	7	Fair	Fair	Fair	8	Remove	Grading	1	Boundary	Broken limbs; included bark
278	Black Walnut	<i>Juglans nigra</i>	35	35	0	0	0	0	6	Good	Good	Good	7	Remove	Grading	1	Boundary	
279	Black Walnut	<i>Juglans nigra</i>	50	50	0	0	0	0	6	Poor	Poor	Poor	7	Remove	Grading	1	Boundary	Metal grown into trunk in cavity, water damage, missing limb
280	Black Walnut	<i>Juglans nigra</i>	52	52	0	0	0	0	7	Good	Good	Good	8	Remove	Grading	1	Boundary	
281	Green Ash	<i>Fraxinus pennsylvanica</i>	21	12	12	12	0	0	2	Poor	Poor	Poor	3	Remove	Grading	1	Private	Crown dieback, lower branch growth
282	Cottonwood	<i>Populus deltoides</i>	45	45	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Oozing wound on trunk
283	Willow	<i>Salix sp.</i>	33	27	19	0	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Split at base
284	Black Walnut	<i>Juglans nigra</i>	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
285	Black Walnut	<i>Juglans nigra</i>	20	20	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
286	Black Walnut	<i>Juglans nigra</i>	16	16	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
287	Black Walnut	<i>Juglans nigra</i>	26	21	16	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
288	Manitoba Maple	<i>Acer negundo</i>	16	16	0	0	0	0	2	Poor	Poor	Poor	3	Remove	Grading	1	Private	Dead stems
289	Manitoba Maple	<i>Acer negundo</i>	15	15	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Crown dieback, on lean
290	Manitoba Maple	<i>Acer negundo</i>	21	16	13	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Crown dieback, codominant stems
291	Manitoba Maple	<i>Acer negundo</i>	25	25	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
292	Manitoba Maple	<i>Acer negundo</i>	25	19	17	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Codominant stems
293	Black Walnut	<i>Juglans nigra</i>	25	25	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
294	Manitoba Maple	<i>Acer negundo</i>	25	25	0	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	On lean, crown dieback
295	Black Walnut	<i>Juglans nigra</i>	28	28	0	0	0	0	2.5	Good	Fair	Fair	3.5	Remove	Grading	1	Private	Debris
296	Manitoba Maple	<i>Acer negundo</i>	42	30	30	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, dead limbs, growing against shed
297	Manitoba Maple	<i>Acer negundo</i>	13	13	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	On severe lean

Tree ID Number	Species Common Name	Species Scientific Name	Multi-stem DBH ¹ (cm)	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Biological Health	Structural Health	Overall Health	TPZ (m)	Recommended Action	Rationale for Removals	Compensation Plantings Required	Ownership	Notes
298	Black Walnut	<i>Juglans nigra</i>	33	33	0	0	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Debris, multiple stems
299	Black Walnut	<i>Juglans nigra</i>	16	16	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Grading	1	Private	Debris
300	Black Walnut	<i>Juglans nigra</i>	11	11	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Grading	1	Private	Debris, multiple stems
301	Black Walnut	<i>Juglans nigra</i>	22	22	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Debris, multiple stems
302	Black Walnut	<i>Juglans nigra</i>	20	12	12	10	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Debris, multiple stems
303	Black Walnut	<i>Juglans nigra</i>	20	13	12	10	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Debris, multiple stems
304	Black Walnut	<i>Juglans nigra</i>	22	18	12	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Debris, multiple stems
305	Black Walnut	<i>Juglans nigra</i>	18	13	13	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Debris, multiple stems
306	Black Walnut	<i>Juglans nigra</i>	21	15	15	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Codominant stems
307	Black Walnut	<i>Juglans nigra</i>	13	13	0	0	0	0	2.5	Good	Fair	Fair	3.5	Remove	Grading	1	Private	Debris
308	Black Walnut	<i>Juglans nigra</i>	18	11	10	10	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Debris, multiple stems
309	Manitoba Maple	<i>Acer negundo</i>	32	32	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Tree house, on lean
310	Black Walnut	<i>Juglans nigra</i>	20	20	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
311	Manitoba Maple	<i>Acer negundo</i>	20	20	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	
312	Black Walnut	<i>Juglans nigra</i>	26	26	0	0	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Boundary	Debris
313	Black Walnut	<i>Juglans nigra</i>	11	11	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
314	Manitoba Maple	<i>Acer negundo</i>	15	11	10	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	Multiple stems, bent stem
315	Black Walnut	<i>Juglans nigra</i>	17	12	12	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	Codominant stems
316	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
317	Black Walnut	<i>Juglans nigra</i>	10	10	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
318	Black Walnut	<i>Juglans nigra</i>	11	11	0	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	Codominant stems
319	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
320	White Mulberry	<i>Morus alba</i>	32	15	15	14	14	14	3.5	Fair	Fair	Fair	4.5	Remove	Grading	1	Private	Multiple stems
321	Manitoba Maple	<i>Acer negundo</i>	20	20	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
322	Black Walnut	<i>Juglans nigra</i>	16	16	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
323	Manitoba Maple	<i>Acer negundo</i>	27	16	15	15	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, multiple stems
324	Manitoba Maple	<i>Acer negundo</i>	27	16	15	15	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, multiple stems
325	Manitoba Maple	<i>Acer negundo</i>	35	20	20	20	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Debris, multiple stems
326	Manitoba Maple	<i>Acer negundo</i>	25	25	0	0	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Debris, multiple stems
327	Manitoba Maple	<i>Acer negundo</i>	48	30	28	25	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Debris, multiple stems
328	Manitoba Maple	<i>Acer negundo</i>	24	24	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean
329	Manitoba Maple	<i>Acer negundo</i>	24	24	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean
330	Manitoba Maple	<i>Acer negundo</i>	22	18	13	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean, twisted stem
331	Manitoba Maple	<i>Acer negundo</i>	24	24	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean
332	Manitoba Maple	<i>Acer negundo</i>	22	22	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean
334	Manitoba Maple	<i>Acer negundo</i>	18	18	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Debris, on lean
335	Manitoba Maple	<i>Acer negundo</i>	15	15	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Debris, on lean
336	Manitoba Maple	<i>Acer negundo</i>	24	15	13	13	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Debris, multiple stems, on lean
337	Manitoba Maple	<i>Acer negundo</i>	18	18	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris
338	Manitoba Maple	<i>Acer negundo</i>	18	18	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean
339	Manitoba Maple	<i>Acer negundo</i>	18	18	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, on lean
340	Manitoba Maple	<i>Acer negundo</i>	35	22	20	18	0	0	4.5	Fair	Fair	Fair	5.5	Remove	Grading	1	Private	Debris, multiple stems
341	Manitoba Maple	<i>Acer negundo</i>	12	12	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Debris, multiple stems
342	Manitoba Maple	<i>Acer negundo</i>	27	22	15	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
343	Manitoba Maple	<i>Acer negundo</i>	13	13	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
344	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Overgrown with vines
345	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
346	Manitoba Maple	<i>Acer negundo</i>	59	35	35	25	20	0	5	Good	Fair	Fair	6	Remove	Grading	1	Private	Spreading branches
347	Manitoba Maple	<i>Acer negundo</i>	28	28	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	On lean, bent stem
348	Manitoba Maple	<i>Acer negundo</i>	28	28	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	On lean, bent stem
349	Manitoba Maple	<i>Acer negundo</i>	23	18	15	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	On lean, multiple stems
350	Manitoba Maple	<i>Acer negundo</i>	42	42	0	0	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Codominant limbs, included bark
351	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
352	Manitoba Maple	<i>Acer negundo</i>	16	16	0	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	Codominant stems
353	Manitoba Maple	<i>Acer negundo</i>	15	15	0	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	On lean
354	Manitoba Maple	<i>Acer negundo</i>	21	15	15	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Codominant stems
355	Black Walnut	<i>Juglans nigra</i>	16	16	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
356	Manitoba Maple	<i>Acer negundo</i>	13	13	0	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	On lean, curved stem
357	Manitoba Maple	<i>Acer negundo</i>	13	13	0	0	0	0	2	Good	Good	Good	3	Preserve			Private	
358	Manitoba Maple	<i>Acer negundo</i>	28	28	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
359	Manitoba Maple	<i>Acer negundo</i>	28	28	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
360	Manitoba Maple	<i>Acer negundo</i>	28	28	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
361	Silver Maple	<i>Acer saccharinum</i>	12	12	0	0	0	0	3	Fair	Fair	Fair	4	Preserve			Private	Peeling bark
362	Black Walnut	<i>Juglans nigra</i>	18	18	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
363	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	2	Good	Good	Good	3	Preserve			Private	
364	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	2.5	Good	Good	Good	3.5	Preserve			Private	
365	Manitoba Maple	<i>Acer negundo</i>	25	25	0	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	On lean
366	Black Walnut	<i>Juglans nigra</i>	11	11	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	

Tree ID Number	Species Common Name	Species Scientific Name	Multi-stem DBH ¹ (cm)	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Biological Health	Structural Health	Overall Health	TPZ (m)	Recommended Action	Rationale for Removals	Compensation Plantings Required	Ownership	Notes
367	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
368	Sugar Maple	<i>Acer saccharum</i>	60	60	0	0	0	0	2.5	Poor	Poor	Poor	3.5	Remove	Condition	1	Private	Mostly dead, one live limb
369	Horse Chestnut	<i>Aesculus hippocastanum</i>	55	55	0	0	0	0	2.5	Poor	Poor	Poor	3.5	Remove	Condition	1	Private	Mostly dead, lower limbs live
370	Horse Chestnut	<i>Aesculus hippocastanum</i>	45	45	0	0	0	0	2.5	Fair	Fair	Fair	3.5	Preserve			Boundary	Crown dieback
371	Horse Chestnut	<i>Aesculus hippocastanum</i>	30	30	0	0	0	0	2	Fair	Fair	Fair	3	Preserve			Private	Crown dieback
372	Tulip Tree	<i>Liriodendron tulipifera</i>	50	50	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	
373	Manitoba Maple	<i>Acer negundo</i>	50	50	0	0	0	0	4	Fair	Poor	Poor	5	Remove	Grading	1	Private	Missing limbs, sprawling branches
374	Norway Maple	<i>Acer platanoides</i>	52	30	25	20	20	20	5	Fair	Fair	Fair	6	Remove	Grading	1	Private	Multiple stems
375	Manitoba Maple	<i>Acer negundo</i>	15	15	0	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	On lean
376	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
377	Manitoba Maple	<i>Acer negundo</i>	28	28	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Broken limbs
378	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
379	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
380	Black Walnut	<i>Juglans nigra</i>	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
381	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
382	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
383	Black Walnut	<i>Juglans nigra</i>	20	20	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
384	Black Walnut	<i>Juglans nigra</i>	18	18	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
385	Black Walnut	<i>Juglans nigra</i>	18	18	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
386	Black Walnut	<i>Juglans nigra</i>	14	14	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
387	Black Walnut	<i>Juglans nigra</i>	13	13	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
388	Black Walnut	<i>Juglans nigra</i>	11	11	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
389	Black Walnut	<i>Juglans nigra</i>	10	10	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
390	Black Walnut	<i>Juglans nigra</i>	21	15	15	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Codominant stems
391	Black Walnut	<i>Juglans nigra</i>	21	15	15	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Codominant stems
392	Black Walnut	<i>Juglans nigra</i>	10	10	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
393	Manitoba Maple	<i>Acer negundo</i>	10	10	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
394	Manitoba Maple	<i>Acer negundo</i>	14	14	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
395	Manitoba Maple	<i>Acer negundo</i>	17	17	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
396	Manitoba Maple	<i>Acer negundo</i>	20	20	0	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	Multiple stems
397	Manitoba Maple	<i>Acer negundo</i>	22	18	13	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	Multiple stems
398	Manitoba Maple	<i>Acer negundo</i>	17	17	0	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	Multiple stems
399	Manitoba Maple	<i>Acer negundo</i>	22	22	0	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	On lean
400	Manitoba Maple	<i>Acer negundo</i>	17	17	0	0	0	0	2.5	Good	Fair	Fair	3.5	Remove	Grading	1	Private	On lean
401	Manitoba Maple	<i>Acer negundo</i>	34	22	18	18	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	On lean
402	Manitoba Maple	<i>Acer negundo</i>	40	40	0	0	0	0	5	Good	Fair	Fair	6	Remove	Grading	1	Private	Spreading branches
403	Black Walnut	<i>Juglans nigra</i>	11	11	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
404	Black Walnut	<i>Juglans nigra</i>	13	13	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
764	Black Walnut	<i>Juglans nigra</i>	13	13	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
765	Cottonwood	<i>Populus deltoides</i>	34	34	0	0	0	0	2	Good	Good	Good	3	Preserve			Private	
766	Cottonwood	<i>Populus deltoides</i>	34	34	0	0	0	0	2.5	Good	Good	Good	3.5	Preserve			Private	
767	Black Walnut	<i>Juglans nigra</i>	14	14	0	0	0	0	1.5	Good	Good	Good	2.5	Preserve			Private	
768	Norway Maple	<i>Acer platanoides</i>	42	30	30	0	0	0	4	Fair	Fair	Fair	5	Preserve			Boundary	Rust spots on leaves, codominant stems, on slight lean; grown into fence
773	Green Ash	<i>Fraxinus pennsylvanica</i>	20	20	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Condition	1	Private	EAB, peeling bark, branch dieback
774	Cottonwood	<i>Populus deltoides</i>	17	17	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
775	Cottonwood	<i>Populus deltoides</i>	46	46	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
776	Cottonwood	<i>Populus deltoides</i>	26	26	0	0	0	0	2.5	Fair	Fair	Fair	3.5	Preserve			Private	Epicormic branches; covered in grape vines
777	Cottonwood	<i>Populus deltoides</i>	38	38	0	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	Epicormic branches
778	Manitoba Maple	<i>Acer negundo</i>	20	17	11	0	0	0	2	Good	Fair	Fair	3	Remove	Grading	1	Private	Two stems
779	Silver Maple	<i>Acer saccharinum</i>	17	17	0	0	0	0	2.5	Good	Fair	Fair	3.5	Preserve			Private	Multiple stems
780	Manitoba Maple	<i>Acer negundo</i>	31	25	19	0	0	0	4	Fair	Fair	Fair	5	Preserve			Boundary	Two stems; grown into fence; knot hole; included bark
781	Manitoba Maple	<i>Acer negundo</i>	40	23	22	19	14	0	4	Fair	Fair	Fair	5	Preserve			Neighbour	Multiple sprawling stems; grown into fence; twig dieback
782	Manitoba Maple	<i>Acer negundo</i>	42	24	22	22	15	0	4	Fair	Fair	Fair	5	Preserve			Boundary	Multiple sprawling stems; grown into fence; twig dieback
783	Black Walnut	<i>Juglans nigra</i>	24	24	0	0	0	0	2	Good	Good	Good	3	Preserve			Neighbour	
784	Green Ash	<i>Fraxinus pennsylvanica</i>	13	13	0	0	0	0	1	Good	Good	Good	2	Preserve			Boundary	
785	Silver Maple	<i>Acer saccharinum</i>	17	17	0	0	0	0	1	Good	Fair	Good	2	Preserve			Boundary	Grown into fence
786	Norway Maple	<i>Acer platanoides</i>	27	27	0	0	0	0	4	Fair	Fair	Fair	5	Preserve			Boundary	Rust spots on leaves; branches growing to one side, grown into fence

Tree ID Number	Species Common Name	Species Scientific Name	Multi-stem DBH ¹ (cm)	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Biological Health	Structural Health	Overall Health	TPZ (m)	Recommended Action	Rationale for Removals	Compensation Plantings Required	Ownership	Notes
787	Norway Maple	<i>Acer platanoides</i>	24	14	14	13	0	0	2.5	Poor	Poor	Poor	3.5	Preserve			Boundary	Rust spots on leaves; multiple stems; dead and broken limbs; cracks, knot holes, and decay on stems; grown into fence
788	Manitoba Maple	<i>Acer negundo</i>	37	26	24	12	0	0	4	Fair	Poor	Fair	5	Preserve			Boundary	Multiple stems; epicormic branches; on lean; grown into fence
800	Norway Maple	<i>Acer platanoides</i>	41	25	33	0	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Boundary	Rust spots on leaves, two stems, included bark; grown into fence
1230	Silver Maple	<i>Acer saccharinum</i>	21	21	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
1231	Manitoba Maple	<i>Acer negundo</i>	29	29	0	0	0	0	2.5	Fair	Poor	Poor	3.5	Remove	Grading	1	Boundary	Peeling bark, fungal growth
1232	Manitoba Maple	<i>Acer negundo</i>	60	60	0	0	0	0	4	Fair	Poor	Poor	5	Remove	Grading	1	Boundary	Spreading limbs, cracked at base of limbs, dead limb
1233	Manitoba Maple	<i>Acer negundo</i>	19	19	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	Spreading limbs, cracked at base of limbs, dead limb
1234	Manitoba Maple	<i>Acer negundo</i>	25	25	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
1235	Manitoba Maple	<i>Acer negundo</i>	26	21	16	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
1236	Manitoba Maple	<i>Acer negundo</i>	39	32	23	0	0	0	2.5	Good	Fair	Fair	3.5	Remove	Grading	1	Private	Hollow at base of stem, spreading limbs
1237	Manitoba Maple	<i>Acer negundo</i>	65	54	28	22	0	0	4	Good	Poor	Fair	5	Remove	Grading	1	Boundary	Hollow at base of stem, spreading limbs
1238	Manitoba Maple	<i>Acer negundo</i>	25	25	0	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Boundary	On lean
1239	Norway Spruce	<i>Picea abies</i>	42	42	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Boundary	
1240	Norway Spruce	<i>Picea abies</i>	60	60	0	0	0	0	4	Good	Good	Good	5	Preserve			Boundary	
1241	Manitoba Maple	<i>Acer negundo</i>	29	21	14	14	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	On lean, growing into shed structure
1242	Norway Spruce	<i>Picea abies</i>	37	37	0	0	0	0	3	Good	Good	Good	4	Preserve			Boundary	
1243	Manitoba Maple	<i>Acer negundo</i>	27	27	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
1244	Silver Maple	<i>Acer saccharinum</i>	37	31	21	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
1245	Silver Maple	<i>Acer saccharinum</i>	25	18	18	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	Codominant stems
1246	Silver Maple	<i>Acer saccharinum</i>	34	24	24	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Private	Codominant stems
1247	Manitoba Maple	<i>Acer negundo</i>	26	26	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
1248	Silver Maple	<i>Acer saccharinum</i>	33	21	20	15	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
1249	Black Walnut	<i>Juglans nigra</i>	23	23	0	0	0	0	4	Good	Good	Good	5	Preserve			Private	
1250	Black Walnut	<i>Juglans nigra</i>	21	21	0	0	0	0	4	Good	Good	Good	5	Preserve			Private	
1251	Common Apple	<i>Malus pumila</i>	37	37	0	0	0	0	3.5	Good	Good	Good	4.5	Remove	Grading	1	Private	
1252	Manitoba Maple	<i>Acer negundo</i>	19	19	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1253	Norway Spruce	<i>Picea abies</i>	22	22	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1254	Silver Maple	<i>Acer saccharinum</i>	18	18	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1255	Silver Maple	<i>Acer saccharinum</i>	15	15	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1256	Silver Maple	<i>Acer saccharinum</i>	13	13	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1257	Silver Maple	<i>Acer saccharinum</i>	17	17	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1258	Silver Maple	<i>Acer saccharinum</i>	18	18	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1259	Silver Maple	<i>Acer saccharinum</i>	16	16	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1260	Silver Maple	<i>Acer saccharinum</i>	16	16	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1261	Silver Maple	<i>Acer saccharinum</i>	18	18	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1261	Silver Maple	<i>Acer saccharinum</i>	18	18	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1262	Silver Maple	<i>Acer saccharinum</i>	16	16	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1263	Silver Maple	<i>Acer saccharinum</i>	13	13	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1264	Silver Maple	<i>Acer saccharinum</i>	15	15	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1265	Silver Maple	<i>Acer saccharinum</i>	15	15	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1266	Silver Maple	<i>Acer saccharinum</i>	19	19	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1267	Silver Maple	<i>Acer saccharinum</i>	10	10	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1268	Silver Maple	<i>Acer saccharinum</i>	11	11	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1269	Silver Maple	<i>Acer saccharinum</i>	13	13	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1270	Silver Maple	<i>Acer saccharinum</i>	11	11	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1271	Silver Maple	<i>Acer saccharinum</i>	14	14	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1272	Silver Maple	<i>Acer saccharinum</i>	10	10	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1273	Silver Maple	<i>Acer saccharinum</i>	15	15	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1274	Silver Maple	<i>Acer saccharinum</i>	19	19	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1275	Silver Maple	<i>Acer saccharinum</i>	13	13	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1276	Silver Maple	<i>Acer saccharinum</i>	15	15	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1277	Silver Maple	<i>Acer saccharinum</i>	11	11	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1278	Silver Maple	<i>Acer saccharinum</i>	18	18	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1279	Silver Maple	<i>Acer saccharinum</i>	28	21	18	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1280	Silver Maple	<i>Acer saccharinum</i>	15	11	10	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1281	Silver Maple	<i>Acer saccharinum</i>	14	14	0	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1282	Silver Maple	<i>Acer saccharinum</i>	32	28	16	0	0	0	3	Good	Good	Good	4	Preserve			Private	
1283	Silver Maple	<i>Acer saccharinum</i>	41	23	18	18	18	14	5	Fair	Fair	Fair	6	Remove	Grading	1	Private	Multiple stems
1284	Silver Maple	<i>Acer saccharinum</i>	60	60	0	0	0	0	5	Good	Good	Good	6	Remove	Grading	1	Private	
1285	Black Walnut	<i>Juglans nigra</i>	10	10	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	
1286	Manitoba Maple	<i>Acer negundo</i>	10	10	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	

Tree ID Number	Species Common Name	Species Scientific Name	Multi-stem DBH ¹ (cm)	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Biological Health	Structural Health	Overall Health	TPZ (m)	Recommended Action	Rationale for Removals	Compensation Plantings Required	Ownership	Notes
1287	Manitoba Maple	<i>Acer negundo</i>	16	16	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	
1288	Black Walnut	<i>Juglans nigra</i>	16	16	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	
1289	Manitoba Maple	<i>Acer negundo</i>	23	16	16	0	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Codominant stems
1290	Northern Catalpa	<i>Catalpa speciosa</i>	55	55	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	
1291	Manitoba Maple	<i>Acer negundo</i>	32	32	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	
1292	White Birch	<i>Betula papyrifera</i>	39	23	20	18	17	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Multiple stems; oozing sap on one stem
1293	Eastern White Cedar	<i>Thuja occidentalis</i>	33	33	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
1294	Horse Chestnut	<i>Aesculus hippocastanum</i>	56	56	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
1295	Weeping Willow	<i>Salix x sepulcralis</i>	100	100	0	0	0	0	8	Fair	Fair	Fair	9	Remove	Grading	1	Private	Cracks at base of limbs
1296	Manitoba Maple	<i>Acer negundo</i>	11	11	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	On lean, growing into shed structure
1297	Hybrid Butternut	<i>Juglans cinerea x Juglans ailantifolia</i>	18	18	0	0	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Canker
1298	Hybrid Butternut	<i>Juglans cinerea x Juglans ailantifolia</i>	25	25	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	
1299	Black Walnut	<i>Juglans nigra</i>	21	21	0	0	0	0	4	Good	Good	Good	5	Remove	Grading	1	Private	
1300	Manitoba Maple	<i>Acer negundo</i>	23	23	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
1301	Manitoba Maple	<i>Acer negundo</i>	22	22	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
1302	Manitoba Maple	<i>Acer negundo</i>	15	15	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
1303	Manitoba Maple	<i>Acer negundo</i>	17	17	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
1304	Manitoba Maple	<i>Acer negundo</i>	11	11	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
1305	Black Walnut	<i>Juglans nigra</i>	18	18	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
1306	Eastern White Cedar	<i>Thuja occidentalis</i>	20	20	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
1307	Manitoba Maple	<i>Acer negundo</i>	14	14	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
1308	Manitoba Maple	<i>Acer negundo</i>	13	13	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
1309	Manitoba Maple	<i>Acer negundo</i>	16	16	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
1310	Manitoba Maple	<i>Acer negundo</i>	100	100	0	0	0	0	6	Poor	Poor	Poor	7	Remove	Grading	1	Private	Crown dieback, most of crown missing, hollowed out stem, rot inside stem
1899	Silver Maple	<i>Acer saccharinum</i>	91	65	63	0	0	0	8	Fair	Fair	Fair	9	Remove	Grading	1	Private	Dead limb has been removed, dead branches present, growing between garage and shed
1900	Silver Maple	<i>Acer saccharinum</i>	61	61	0	0	0	0	7	Fair	Good	Fair	8	Remove	Grading	1	Private	Metal object grown into stem, dead branches present
D1	Dead		0	0	0	0	0	0	0			Dead	1	Remove	Condition		Private	
D2	Dead		0	0	0	0	0	0	0			Dead	1	Remove	Grading		Private	
N1	Black Walnut	<i>Juglans nigra</i>	17	17	0	0	0	0	3	Good	Good	Good	4	Preserve			Neighbour	
N10	Norway Spruce	<i>Picea abies</i>	25	25	0	0	0	0	3	Good	Good	Good	4	Preserve			Boundary	
N11	Norway Spruce	<i>Picea abies</i>	40	40	0	0	0	0	3	Good	Good	Good	4	Preserve			Boundary	
N12	Norway Spruce	<i>Picea abies</i>	24	24	0	0	0	0	3	Good	Good	Good	4	Preserve			Boundary	
N13	Silver Maple	<i>Acer saccharinum</i>	25	25	0	0	0	0	3	Good	Good	Good	4	Preserve			Neighbour	
N14	Silver Maple	<i>Acer saccharinum</i>	30	30	0	0	0	0	3	Good	Good	Good	4	Preserve			Neighbour	
N15	Silver Maple	<i>Acer saccharinum</i>	30	30	0	0	0	0	3	Good	Good	Good	4	Preserve			Neighbour	
N2	Black Walnut	<i>Juglans nigra</i>	17	17	0	0	0	0	3	Good	Good	Good	4	Preserve			Neighbour	
N3	Manitoba Maple	<i>Acer negundo</i>	34	34	0	0	0	0	3	Good	Fair	Fair	4	Remove	Grading	1	Boundary	On lean
N4	Manitoba Maple	<i>Acer negundo</i>	33	24	23	0	0	0	3	Good	Fair	Fair	4	Preserve			Boundary	On lean
N5	Black Walnut	<i>Juglans nigra</i>	17	17	0	0	0	0	3	Good	Good	Good	4	Preserve			Neighbour	
N6	Manitoba Maple	<i>Acer negundo</i>	24	24	0	0	0	0	3	Good	Good	Good	4	Preserve			Neighbour	
N7	Manitoba Maple	<i>Acer negundo</i>	34	34	0	0	0	0	3	Good	Poor	Poor	4	Preserve			Boundary	1 m wound on stem
N8	Manitoba Maple	<i>Acer negundo</i>	36	36	0	0	0	0	3	Good	Fair	Fair	4	Preserve			Neighbour	On lean
N9	Manitoba Maple	<i>Acer negundo</i>	34	34	0	0	0	0	3	Good	Fair	Fair	4	Preserve			Neighbour	On lean
W1	Manitoba Maple	<i>Acer negundo</i>	15	15	0	0	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Debris, on lean
W10	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W11	Black Walnut	<i>Juglans nigra</i>	22	22	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
W12	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W13	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W14	White Poplar	<i>Populus alba</i>	70	70	0	0	0	0	4	Poor	Poor	Poor	5	Remove	Grading	1	Private	Grown into fence, dead limbs, rubbing limbs
W15	White Poplar	<i>Populus alba</i>	57	40	40	0	0	0	3	Poor	Poor	Poor	4	Remove	Grading	1	Private	Bent stems, codominant stems, debris, broken stem
W16	White Poplar	<i>Populus alba</i>	45	45	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Bent stem, debris
W17	Manitoba Maple	<i>Acer negundo</i>	16	11	11	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Codominant stems
W18	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W19	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W2	Manitoba Maple	<i>Acer negundo</i>	41	28	25	17	0	0	4	Fair	Fair	Fair	5	Remove	Grading	1	Private	Debris, included bark, hollows in stem
W20	Black Walnut	<i>Juglans nigra</i>	17	17	0	0	0	0	1	Good	Good	Good	2	Remove	Grading	1	Private	
W21	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W22	Black Walnut	<i>Juglans nigra</i>	13	13	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W23	Black Walnut	<i>Juglans nigra</i>	20	20	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	

Tree ID Number	Species Common Name	Species Scientific Name	Multi-stem DBH ¹ (cm)	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Biological Health	Structural Health	Overall Health	TPZ (m)	Recommended Action	Rationale for Removals	Compensation Plantings Required	Ownership	Notes
W24	Black Walnut	<i>Juglans nigra</i>	25	25	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
W25	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	1	Good	Good	Good	2	Remove	Grading	1	Private	
W26	Black Walnut	<i>Juglans nigra</i>	16	12	11	0	0	0	1	Good	Good	Good	2	Remove	Grading	1	Private	
W27	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	1	Good	Good	Good	2	Remove	Grading	1	Private	
W28	Black Walnut	<i>Juglans nigra</i>	13	13	0	0	0	0	1	Good	Good	Good	2	Remove	Grading	1	Private	
W29	Black Walnut	<i>Juglans nigra</i>	20	20	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
W3	Black Walnut	<i>Juglans nigra</i>	22	22	0	0	0	0	3.5	Good	Good	Good	4.5	Remove	Grading	1	Private	
W30	Black Walnut	<i>Juglans nigra</i>	18	18	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
W31	Black Walnut	<i>Juglans nigra</i>	13	13	0	0	0	0	2	Good	Good	Good	3	Remove	Grading	1	Private	
W32	Black Walnut	<i>Juglans nigra</i>	23	23	0	0	0	0	2.5	Good	Good	Good	3.5	Remove	Grading	1	Private	
W33	Black Walnut	<i>Juglans nigra</i>	34	23	20	15	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Multiple stems
W34	Black Walnut	<i>Juglans nigra</i>	25	25	0	0	0	0	3	Fair	Fair	Fair	4	Remove	Grading	1	Private	Tree fallen onto it, included bark
W35	Manitoba Maple	<i>Acer negundo</i>	30	30	0	0	0	0	5	Poor	Poor	Poor	6	Remove	Grading	1	Private	Broken limbs, large wounds on main stem
W36	Manitoba Maple	<i>Acer negundo</i>	25	25	0	0	0	0	4.5	Fair	Fair	Fair	5.5	Remove	Grading	1	Private	Dead branches, wounds on stem
W37	Manitoba Maple	<i>Acer negundo</i>	10	10	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Multiple stems
W38	Manitoba Maple	<i>Acer negundo</i>	42	30	30	0	0	0	5	Poor	Poor	Poor	6	Remove	Grading	1	Private	Limbs growing horizontally and sprawling, broken limbs at base, splits and wounds
W39	Norway Maple	<i>Acer platanoides</i>	28	28	0	0	0	0	2	Fair	Fair	Fair	3	Remove	Grading	1	Private	Wound along stem
W4	Black Walnut	<i>Juglans nigra</i>	22	22	0	0	0	0	3	Good	Good	Good	4	Remove	Grading	1	Private	
W40	Manitoba Maple	<i>Acer negundo</i>	45	45	0	0	0	0	4	Poor	Poor	Poor	5	Remove	Grading	1	Private	Growing horizontally, twisted and bent stem, suckering
W41	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W42	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W43	Manitoba Maple	<i>Acer negundo</i>	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W44	Black Walnut	<i>Juglans nigra</i>	17	17	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W45	Manitoba Maple	<i>Acer negundo</i>	34	30	15	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	On lean
W46	Manitoba Maple	<i>Acer negundo</i>	25	25	0	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	On lean
W47	Manitoba Maple	<i>Acer negundo</i>	22	22	0	0	0	0	2.5	Fair	Fair	Fair	3.5	Remove	Grading	1	Private	On lean
W48	Manitoba Maple	<i>Acer negundo</i>	15	15	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Grading	1	Private	On lean
W49	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W5	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	1.5	Good	Fair	Good	2.5	Remove	Grading	1	Private	Debris
W50	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W51	Black Walnut	<i>Juglans nigra</i>	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W52	Black Walnut	<i>Juglans nigra</i>	11	11	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W53	Black Walnut	<i>Juglans nigra</i>	13	13	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W54	Black Walnut	<i>Juglans nigra</i>	11	11	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W55	Black Walnut	<i>Juglans nigra</i>	11	11	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W56	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W57	Black Walnut	<i>Juglans nigra</i>	17	17	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W58	Black Walnut	<i>Juglans nigra</i>	14	14	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W59	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W6	Black Walnut	<i>Juglans nigra</i>	13	13	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Grading	1	Private	Debris
W60	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W61	Black Walnut	<i>Juglans nigra</i>	23	18	15	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W62	Black Walnut	<i>Juglans nigra</i>	20	20	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W63	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W64	Black Walnut	<i>Juglans nigra</i>	16	12	10	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W65	Black Walnut	<i>Juglans nigra</i>	17	12	12	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W66	Black Walnut	<i>Juglans nigra</i>	12	12	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W67	Black Walnut	<i>Juglans nigra</i>	17	17	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W68	Black Walnut	<i>Juglans nigra</i>	14	14	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W69	Black Walnut	<i>Juglans nigra</i>	20	20	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W7	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W70	Black Walnut	<i>Juglans nigra</i>	21	15	15	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Grading	1	Private	Codominant stems
W71	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Grading	1	Private	Codominant stems
W72	Silver Maple	<i>Acer saccharinum</i>	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W73	Silver Maple	<i>Acer saccharinum</i>	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W74	Silver Maple	<i>Acer saccharinum</i>	13	13	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W75	Silver Maple	<i>Acer saccharinum</i>	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W76	Silver Maple	<i>Acer saccharinum</i>	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W77	Silver Maple	<i>Acer saccharinum</i>	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W78	Silver Maple	<i>Acer saccharinum</i>	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W79	Silver Maple	<i>Acer saccharinum</i>	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W8	Black Walnut	<i>Juglans nigra</i>	15	15	0	0	0	0	1.5	Fair	Fair	Fair	2.5	Remove	Grading	1	Private	Stem rot
W80	Silver Maple	<i>Acer saccharinum</i>	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W81	Silver Maple	<i>Acer saccharinum</i>	13	13	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W82	Silver Maple	<i>Acer saccharinum</i>	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	

Tree ID Number	Species Common Name	Species Scientific Name	Multi-stem DBH ¹ (cm)	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Biological Health	Structural Health	Overall Health	TPZ (m)	Recommended Action	Rationale for Removals	Compensation Plantings Required	Ownership	Notes
W83	Silver Maple	<i>Acer saccharinum</i>	17	17	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W84	Silver Maple	<i>Acer saccharinum</i>	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W85	Silver Maple	<i>Acer saccharinum</i>	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W86	Silver Maple	<i>Acer saccharinum</i>	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W87	Silver Maple	<i>Acer saccharinum</i>	15	15	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W88	Silver Maple	<i>Acer saccharinum</i>	10	10	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
W9	Black Walnut	<i>Juglans nigra</i>	20	20	0	0	0	0	1.5	Good	Good	Good	2.5	Remove	Grading	1	Private	
Total compensation required -			353															

Appendix C

Hybrid Butternut Laboratory Results



CANADIAN CENTRE FOR DNA BARCODING
DNA Testing Laboratory Report

Page 1 of 19

Date of issue: April 12, 2022

CLIENT INFORMATION

Client Name: James Leslie, Senior Vegetation Ecologist
Client Address: GEI Consultants
100 Ahrens St. West | Suite 201 Kitchener, ON N2H 4C3
Contact Name: James Leslie (jleslie@geiconsultants.com)

ITEMS

Description: Six samples (twigs) from putative butternut submitted for hybrid detection.

Sample ID	Sample ID provided	Process ID
CCDBFR0695	Hamilton 1	ABCBF714-22
CCDBFR0696	Hamilton 2	ABCBF715-22
CCDBFR0697	Pickering BN1	ABCBF716-22
CCDBFR0698	Pickering BN2	ABCBF717-22
CCDBFR0699	Pickering BN3	ABCBF718-22
CCDBFR0700	Pickering BN4	ABCBF719-22

Dates Received: March 22, 2022
Sample Received by: Maria Kuzmina – Research Associate, Plant Lead in person from James Leslie
Dates of Analysis: March 29-April 07, 2022
Analyzed by: Nguyen NguyenTX. / Canadian Centre for DNA Barcoding, Biodiversity of Ontario,
University of Guelph, 50 Stone Road East, Guelph

METHODS

To ascertain the identity of the species from the submitted samples, an approximate 2mm by 2mm area of bud from each sample was subsampled using sterile techniques. The samples were ground to a fine powder and then lysed. Total genomic DNA was extracted using validated spin column DNA extraction protocol. Two target genetic markers: the second internal transcribed spacer from the nuclear ribosomal DNA (ITS2), and an intergenic spacer between the chloroplast genes *trnL* and *trnF* (*trnL-trnF*) were amplified by using the Polymerase Chain Reaction (PCR) with the primers ITS_S2F/ITS4 and *trnLUAA-c/trnFGAA-f*, respectively; followed by cycle sequencing with standardized commercially available BigDye Terminator v3.1 kit. Sequencing reactions were analyzed by high-voltage capillary electrophoresis using the automated ABI 3730xL DNA Analyzer. Bidirectional forward and reverse sequences were generated for each amplicon. Resulting trace files were assembled into contigs and consensus sequences, and then manually edited in CodonCode Aligner (version 4.1.1.) software. The sequences of ITS2 and *trnL-trnF* were compared against the BOLD reference libraries. Based on the percentage of nucleotide sequence divergence (a number of nucleotide substitutions) between sequence from the test sample and reference DNA barcode, the closest match was used to infer species identity of the corresponding test samples provided by the contributor. The quality of the sequence traces for ITS2 was done by visual inspection to resolve hybridization. Images, sequences, and their associated trace files with quality scores were uploaded to the secure BOLD project called "CCDB forensic sampling [ABCBF]".

IMAGING

The items were photographed in the Photography Lab Area by Nguyen NguyenTX., using a Canon ELPH 300 HS, 12.1 megapixels. Pictures were uploaded to the BOLD website into a secure project called "CCDB forensic sampling [ABCBF]". See Appendix 1 for item images.

INTERPRETATION

Based on the number of nucleotide substitutions between sequence from the test sample and reference DNA barcode, the closest match was used to infer species identity for the corresponding test samples provided by the contributor. The ITS2 base calls for diagnostic sites in the trace file chromatograms were used to resolve hybridization.

The ITS2 marker demonstrated five nucleotide substitutions between *Juglans cinerea* (white walnut) and *Juglans ailantifolia* (Japanese walnut) reference sequences across the amplified ~344 base pair length. Unlike the plastid genome, ribosomal nuclear DNA is inherited by both maternal and paternal organisms. Thus, hybridization event is reflected in the trace file chromatograms as mixed signals at the characteristic nucleotide positions. Therefore, the ITS2 DNA barcode is useful for detection of hybridization event between species.

The *trnL-trnF* marker demonstrated five nucleotide substitutions between *Juglans cinerea* (white walnut) and *Juglans ailantifolia* (Japanese walnut) reference sequences across the target ~950 base pair length. This marker is used as a supplementary marker to confirm species identity for the provided samples. Because it is a part of the chloroplast genome, it is inherited maternally. It confirms the maternal lineage in a hybrid but on its own does not detect hybridization event.

RESULTS

Sample ID	Sample ID provided	Process ID	Lab Results/Hybridity detected
CCDBFR0695	Hamilton 1	ABCBF714-22	Yes
CCDBFR0696	Hamilton 2	ABCBF715-22	Yes (F2 backcross hybrid)
CCDBFR0697	Pickering BN1	ABCBF716-22	No
CCDBFR0698	Pickering BN2	ABCBF717-22	No
CCDBFR0699	Pickering BN3	ABCBF718-22	No
CCDBFR0700	Pickering BN4	ABCBF719-22	No

The full length ITS2 and *trnL-trnF* genetic markers (~344 base pairs and ~950 base pairs, respectively) for all samples were aligned against the known reference sequences for *Juglans cinerea* (white walnut, butternut), *Juglans ailantifolia* (Japanese walnut), and their hybrid *Juglans cinerea* x *Juglans ailantifolia*. The alignments were analyzed by visual comparison, and by building the Neighbor Joining (NJ) phylogenetic trees using BOLD (Figures 1-8).

ITS2

The chromatograms for the sample CCDBFR0695 matched the reference chromatograms for the hybrid *Juglans cinerea* x *Juglans ailantifolia* (Figures 1, 2, and 3). The analyzed samples revealed mixed base calls at the nucleotide positions, which are diagnostic for two species in question. This base call pattern is consistent with hybridization between two parental organisms of *Juglans cinerea* and *Juglans ailantifolia*.

The chromatograms for the samples from CCDBFR0696 to CCDBFR700 matched with the references of *Juglans cinerea* (white walnut), showing no evidence of mixed base calls at the nucleotide positions, which are diagnostic for two species in question (Figures 1, 2, 3, and 4).

trnL-trnF

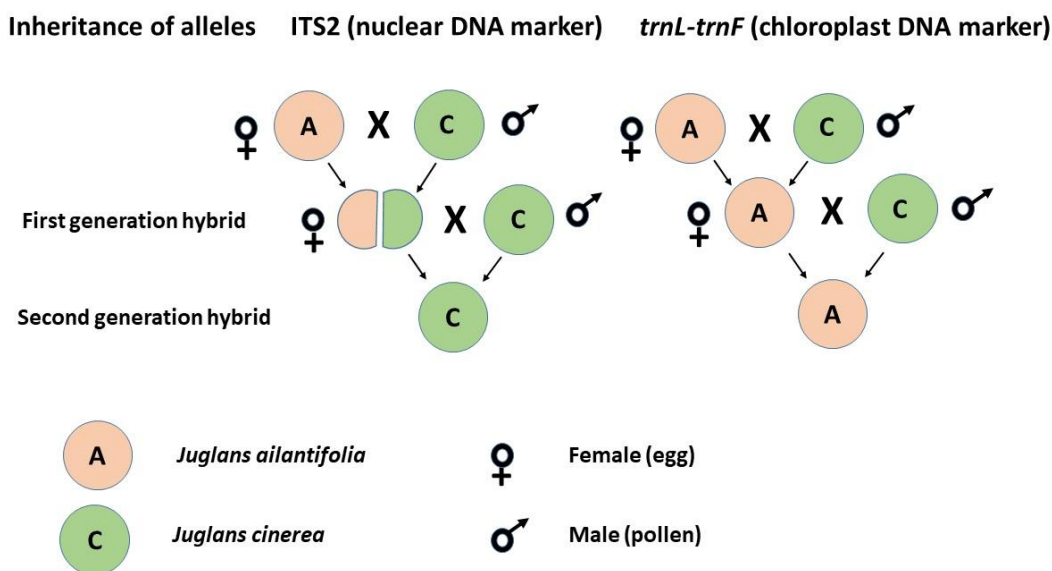
The analysis of *trnL-trnF* sequences showed that the maternal organism for the provided samples CCDBFR0695 and CCDBFR0696 belong to *Juglans ailantifolia* with five nucleotide substitutions (across the amplified length of the marker) differentiating it from *Juglans cinerea*. As shown in Figures 5, 6, 7, and 8 samples CCDBFR0695 and CCDBFR0696 match those of reference sequences for *Juglans ailantifolia*.

The analysis of *trnL-trnF* sequences confirmed that the four provided samples (CCDBFR0697-CCDBFR700) match with *Juglans cinerea* (white walnut) with five nucleotide substitutions (across the amplified length of the marker) differentiating it from *Juglans ailantifolia* (Japanese walnut) as shown in Figure 5, 6, 7 and 8.

CONCLUSIONS

The present testing indicated that the provided sample CCDBFR0695 is a first-generation hybrid between *Juglans cinerea* x *Juglans ailantifolia*. The maternal organism for this sample was *Juglans ailantifolia* (Japanese walnut).

The sample CCDBFR0696 inherited its nuclear (ITS2) and chloroplast (*trnL-trnF*) DNA copies from two different species: *Juglans cinerea* (ITS2) and *Juglans ailantifolia* (*trnL-trnF*). Because the trace chromatograms for this sample showed no evidence of mixed base calls, it indicates that it is a second generation cross between the first-generation hybrid *Juglans cinerea* x *Juglans ailantifolia* with paternal *Juglans cinerea* (or another hybrid with heterozygous alleles of ITS2). The maternal parental hybrid carried heterozygous alleles of ITS2 (*Juglans cinerea* and *Juglans ailantifolia*) and inherited the maternal allele from *Juglans ailantifolia*. In this case the specimen CCDBFR0696 inherited the same chloroplast DNA from its maternal hybrid organism (*trnL-trnF* from *Juglans ailantifolia*) and the allele of ITS2 from *Juglans cinerea*. The second allele of ITS2 came from the other parent, presumably *Juglans cinerea*. Two identical alleles did not show any evidence of mixed base calls in the chromatograms. The diagram below illustrates two types of inheritance for the nuclear (ITS2) and chloroplast (*trnL-trnF*) DNA markers and provides graphical explanation of the observed test results. Therefore, our analysis showed that the sample CCDBFR0696 is the hybrid backcross with one parental species.



Both ITS2 and *trnL-trnF* sequences for the samples CCDBFR0697, CCDBFR0698, CCDBFR0699, and CCDBFR0700 are identical to the reference sequences for *Juglans cinerea*, known as white walnut. The trace chromatograms showed no evidence of hybridization in these samples. The samples CCDBFR0697, CCDBFR0698, CCDBFR0699, and CCDBFR0700 are not hybrids.

RESULTS REPORTED BY:

A handwritten signature in black ink, appearing to read 'mNguyen', with a long horizontal stroke extending to the right.

Nguyen NguyenT.X., MSc; Forensic Technician

RESULTS REVIEWED BY:

A handwritten signature in blue ink, appearing to read 'Kuzmina', with a long horizontal stroke extending to the right.

Maria Kuzmina, PhD; Plant Lead

A handwritten signature in black ink, appearing to read 'Zakharov', with a long horizontal stroke extending to the right.

Evgeny V. Zakharov, PhD; Director, CCDB

All inquiries pertaining to this report should be directed to Nguyen NguyenT.X. (n.nguyen@uoguelph.ca) and Evgeny V. Zakharov (zakharov@uoguelph.ca). This report should not be reproduced, except in full, without written approval of the CCDB.

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The screenshot displays the ITS S2F ITS4 software interface. The top section shows a sequence alignment of 376 bp, with a scale bar indicating 100 bp, 200 bp, and 300 bp. Below the alignment, a list of sequences is shown, including CCDBFR0695 through CCDBFR0700, and several *Juglans* species (e.g., *Juglans cinerea*, *Juglans ailantifolia*). The bottom section displays chromatograms for these sequences, with a scale bar indicating 100 bp. The chromatograms show peaks for each base (A, C, G, T) and are color-coded to match the sequence alignment. The bottom status bar indicates 'Base 95 of 371 (99 in contig)'.

Figure 1. ITS2 sequence comparison of samples CCDBFR0695 – CCDBFR700 and *Juglans cinerea*, *Juglans ailantifolia*, and hybrid *Juglans cinerea* x *Juglans ailantifolia* reference sequences from the BOLD reference library at the base ~99 and ~103.



Figure 2. ITS2 sequence comparison of samples CCDBFR0695 – CCDBFR700 and *Juglans cinerea*, *Juglans ailantifolia*, and hybrid *Juglans cinerea x Juglans ailantifolia* reference sequences from the BOLD reference library at the base ~182.

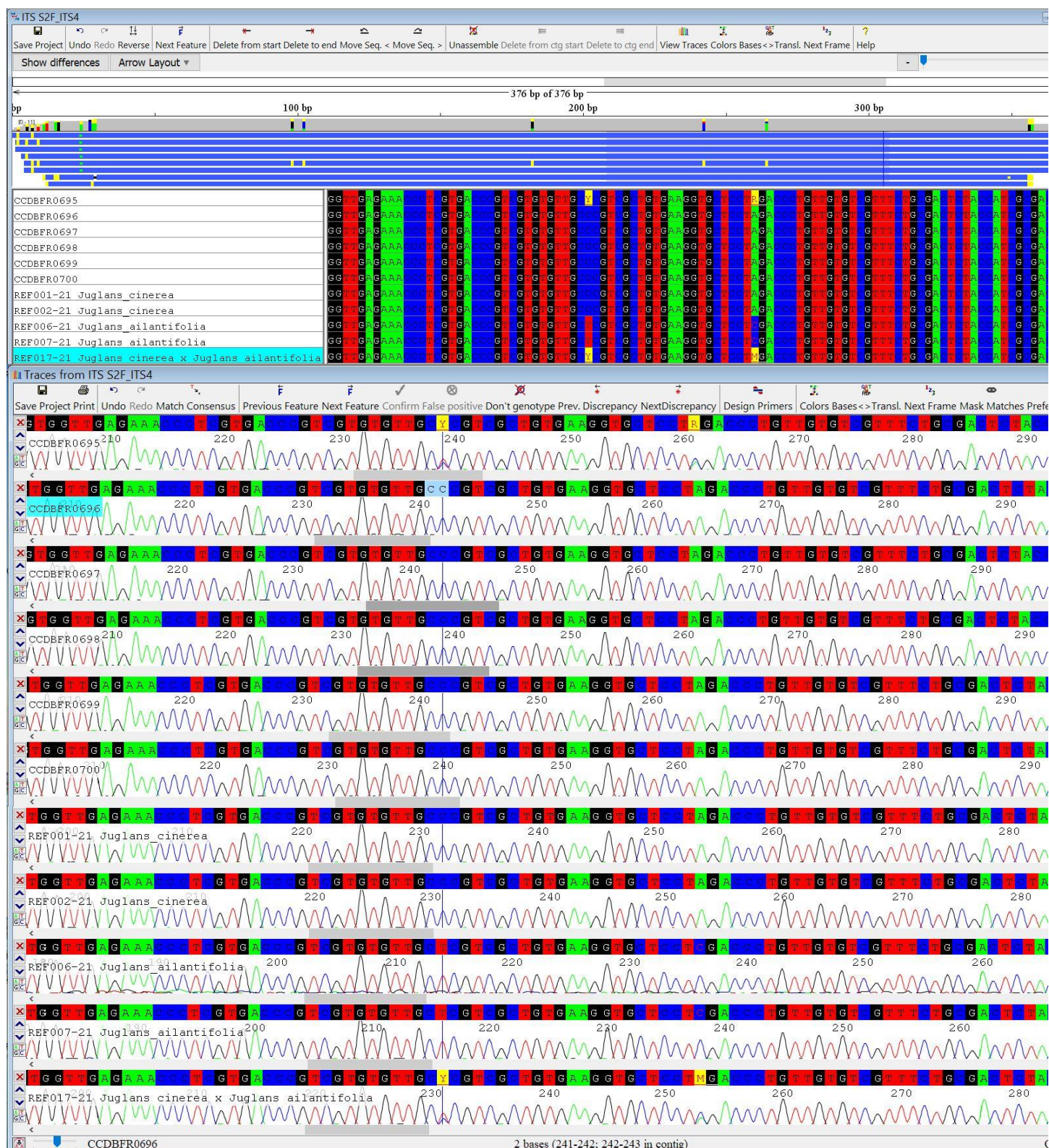


Figure 3. ITS2 sequence comparison of samples CCDBFR0695 – CCDBFR700 and *Juglans cinerea*, *Juglans ailantifolia*, and hybrid *Juglans cinerea* x *Juglans ailantifolia* reference sequences from the BOLD reference library at the base ~242 and ~264.

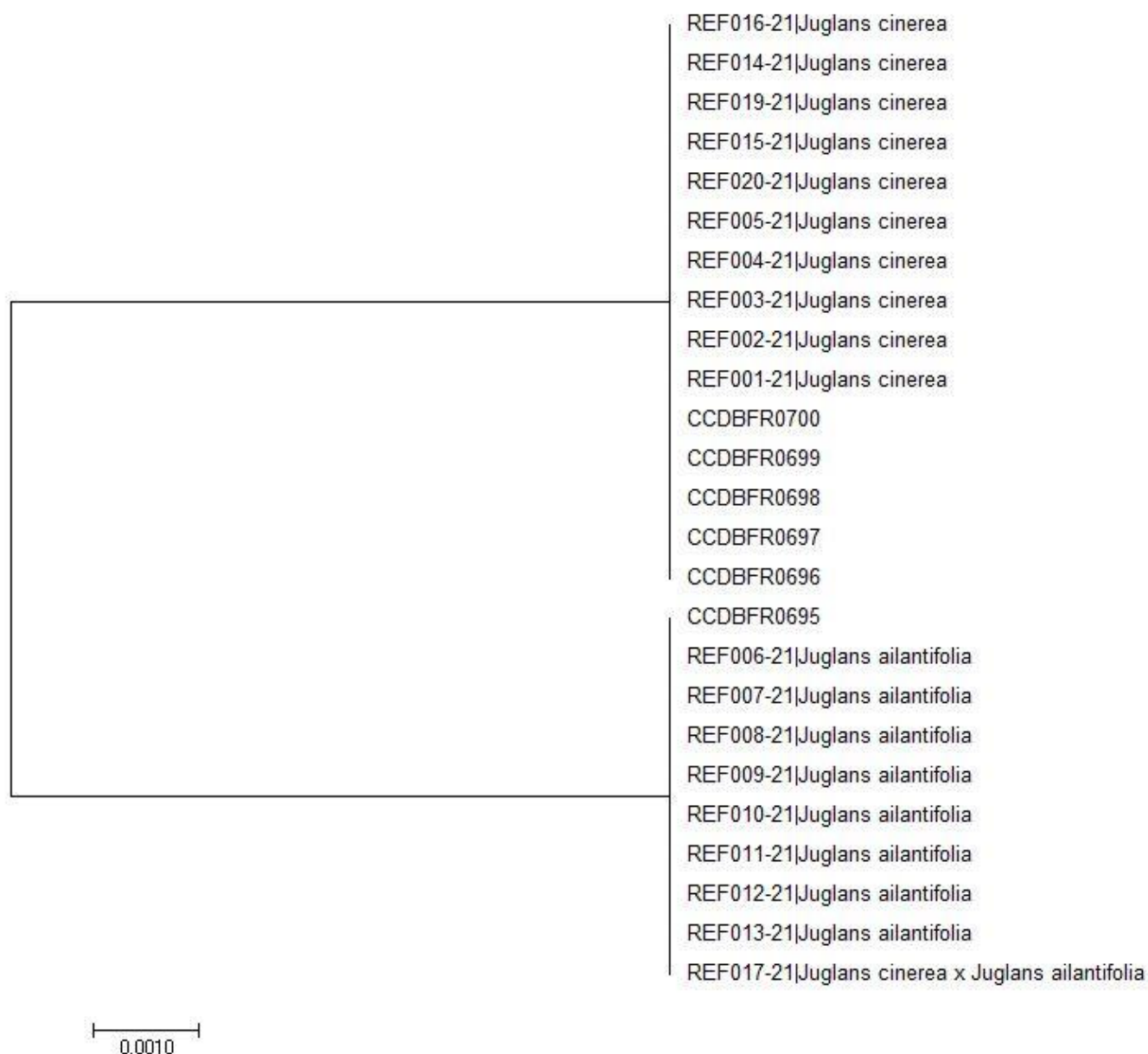


Figure 4. NJ phylogenetic tree of ITS2 sample sequences CCDBFR0695 – CCDBFR700 and *Juglans cinerea*, *Juglans ailantifolia*, and hybrid *Juglans cinerea* x *Juglans ailantifolia* reference sequences from the BOLD reference library.



Figure 5. trnL-trnF sequence comparison of samples CCDBFR0695 – CCDBFR700 and *Juglans cinerea*, *Juglans ailantifolia*, and hybrid *Juglans cinerea x Juglans ailantifolia* reference sequences from the BOLD reference library at the base ~200 and ~276.

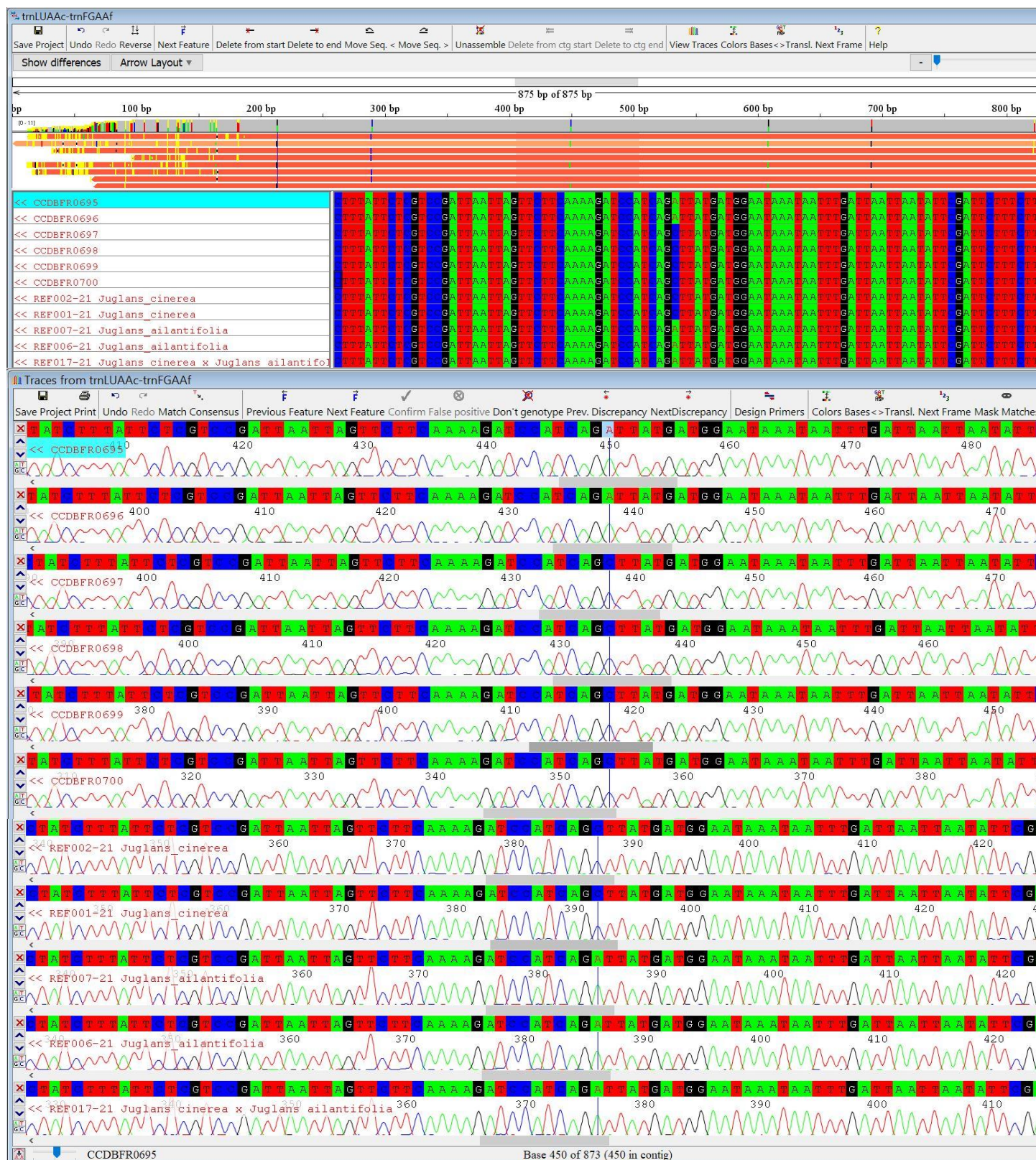


Figure 6. *trnL-trnF* sequence comparison of samples CCDBFR0695 – CCDBFR0700 and *Juglans cinerea*, *Juglans ailantifolia*, and hybrid *Juglans cinerea x Juglans ailantifolia* reference sequences from the BOLD reference library at the base ~436.



Figure 7. *trnL-trnF* sequence comparison of samples CCDBFR0695 – CCDBFR0700 and *Juglans cinerea*, *Juglans ailantifolia*, and hybrid *Juglans cinerea x Juglans ailantifolia* reference sequences from the BOLD reference library at the base ~595 and ~678.

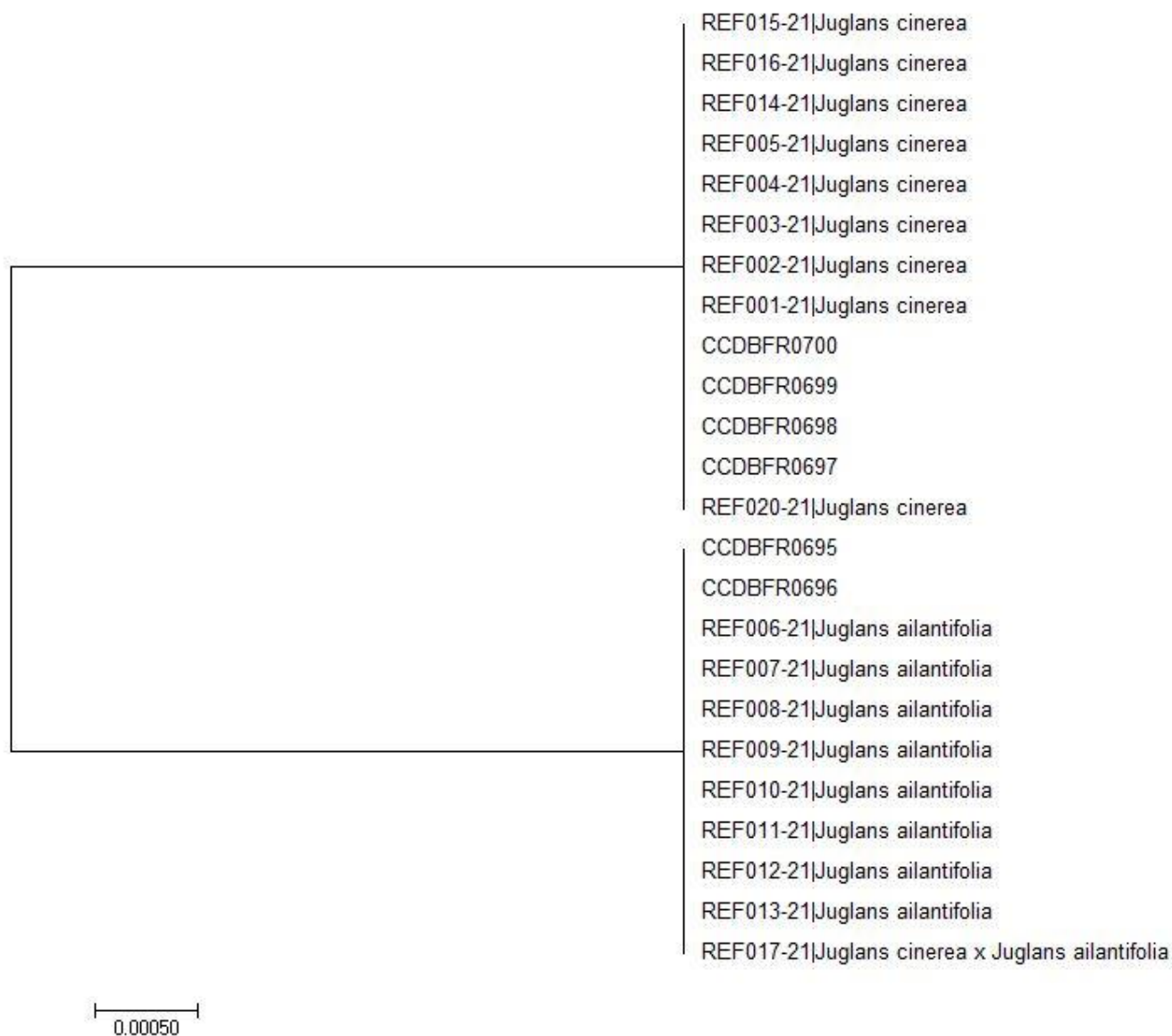


Figure 8. NJ phylogenetic tree of *trnL-trnF* sample sequences CCDBFR0695 – CCDBFR700 and *Juglans cinerea*, *Juglans ailantifolia*, and hybrid *Juglans cinerea* x *Juglans ailantifolia* reference sequences from the BOLD reference library.

Appendix 1. Image Inventory



Image 1 – Samples CCDBFR0695.

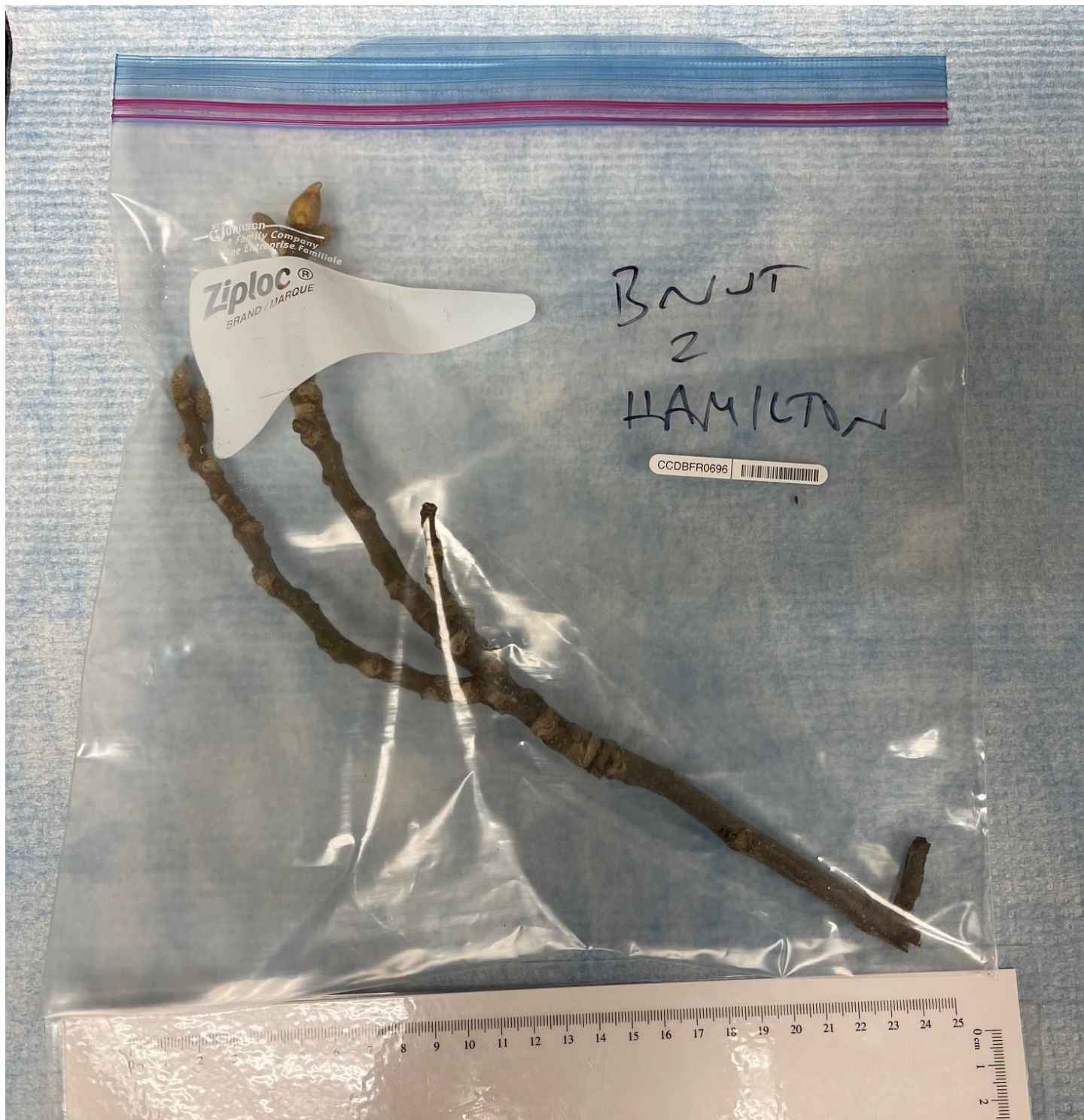


Image 2 – Sample CCDBFR0696.



Image 3 – Sample CCDBFR0697.

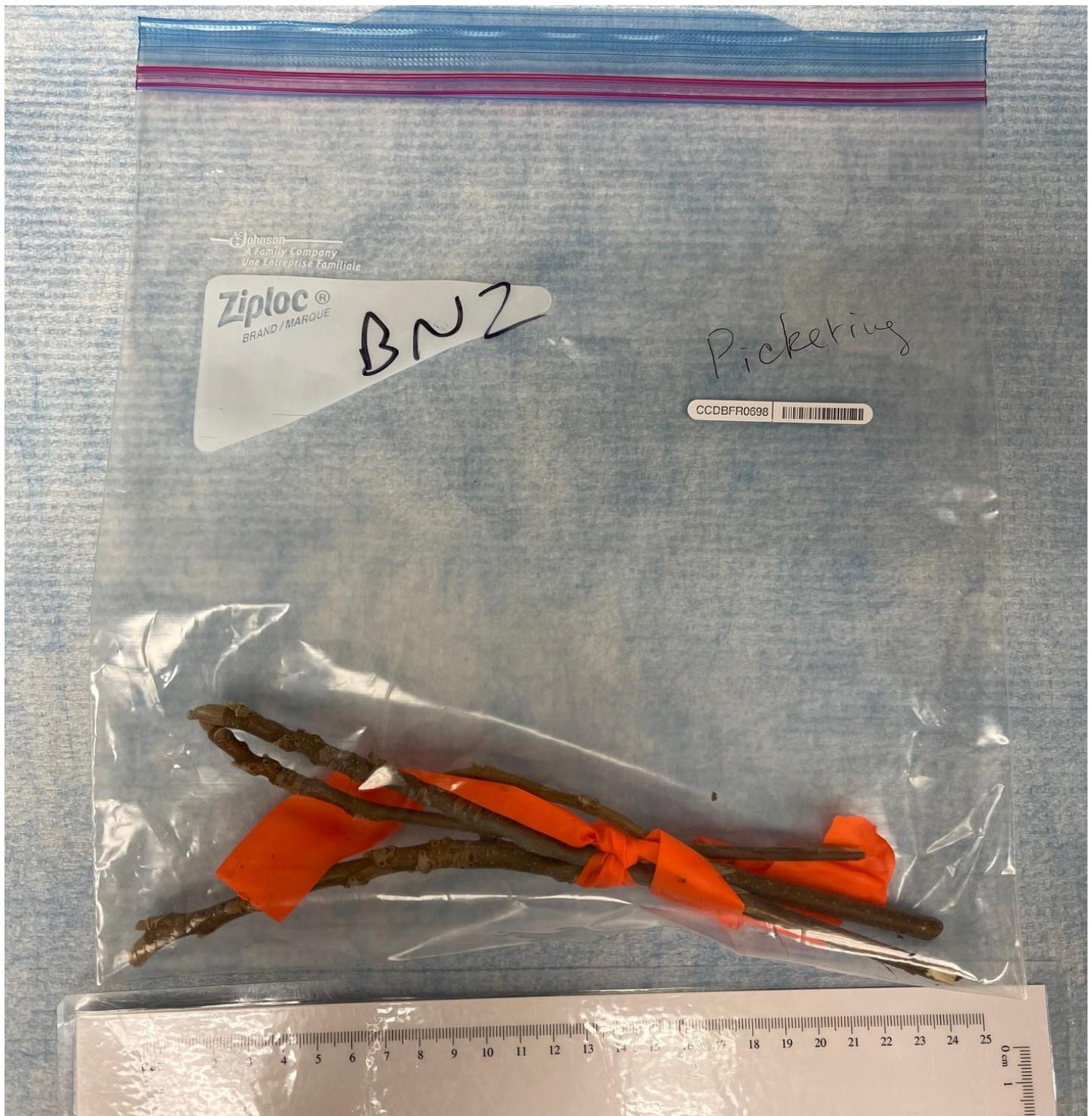


Image 4 – Sample CCDBFR0698.

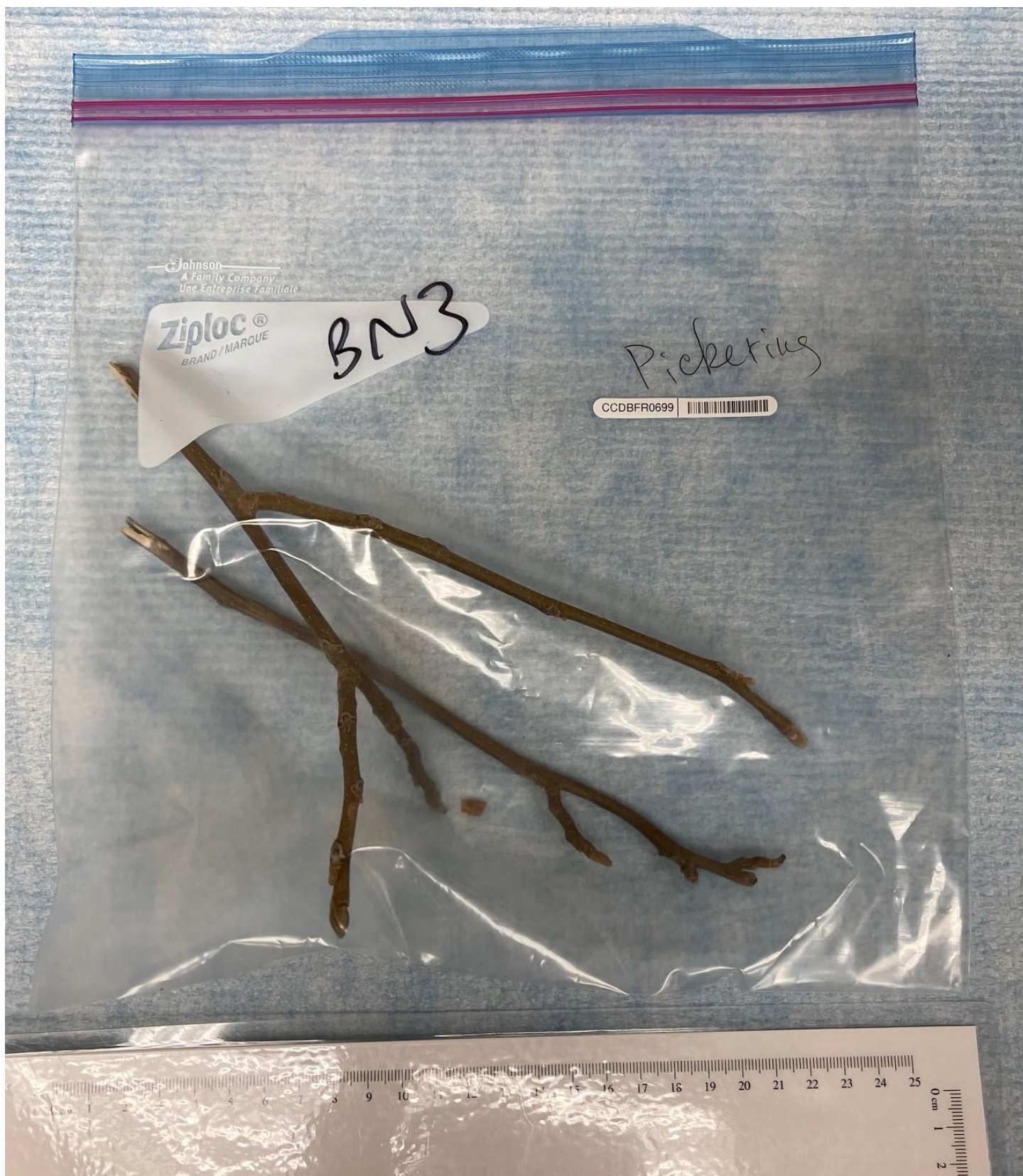


Image 5 – Sample5 CCDBFR0699.

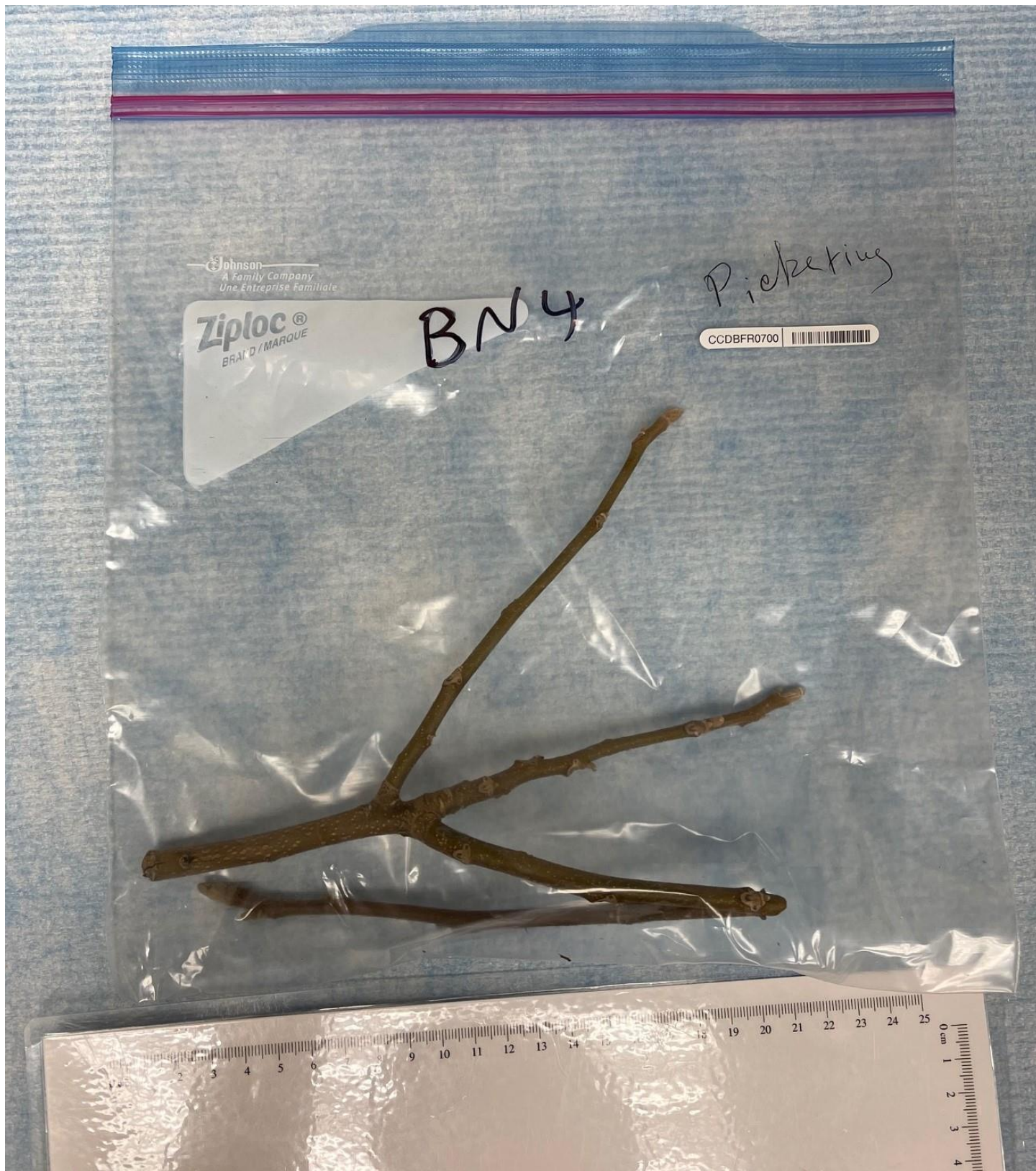


Image 6 – Sample CCDBFR700

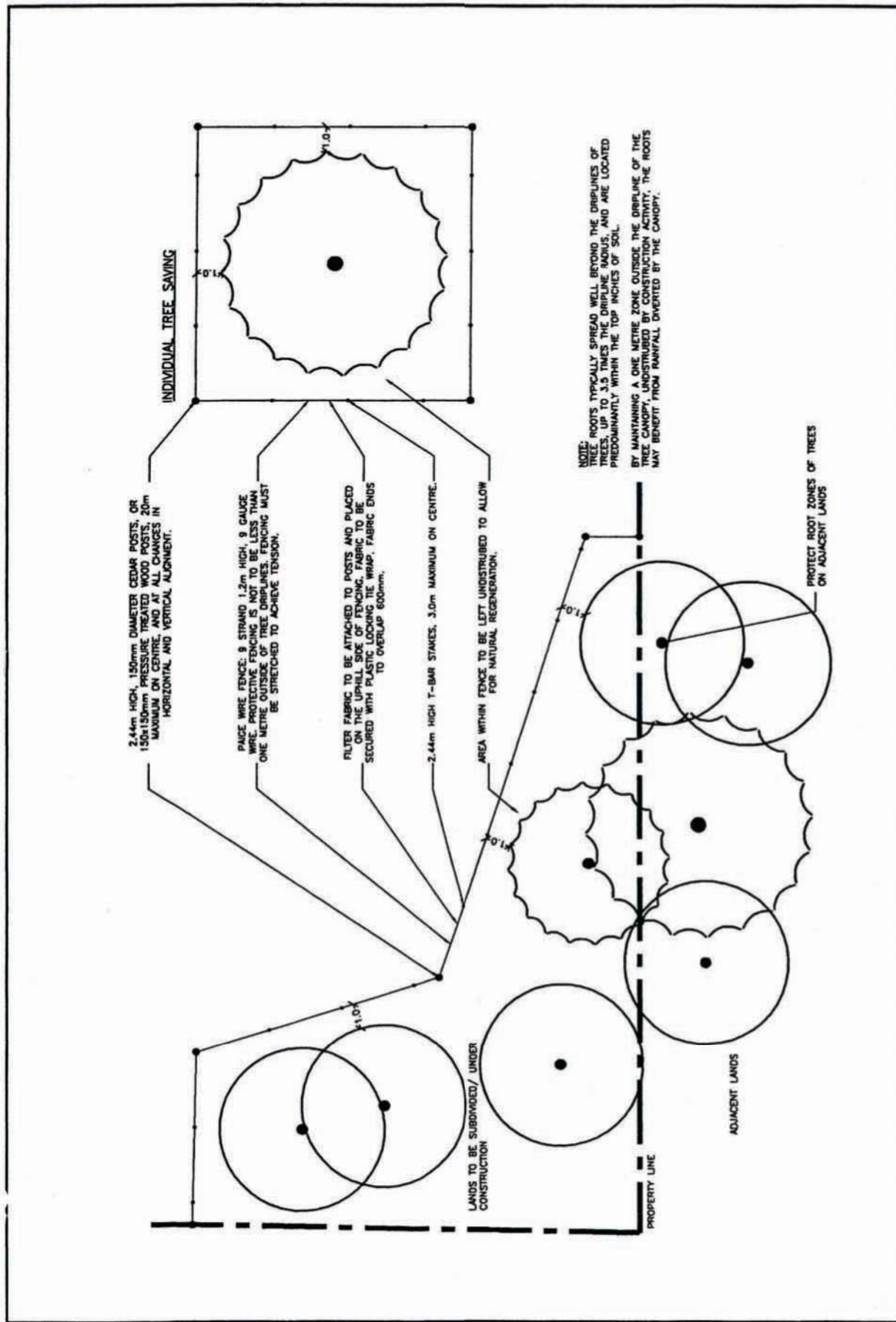
Appendix D

Tree Preservation Details

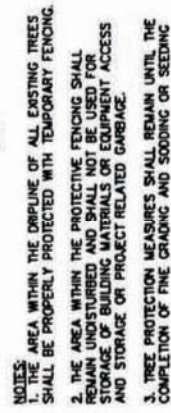


APPENDIX 8

Tree Preservation Details



TEMPORARY TREE PROTECTION FENCING (PLAN VIEW, NTS)



October 2003

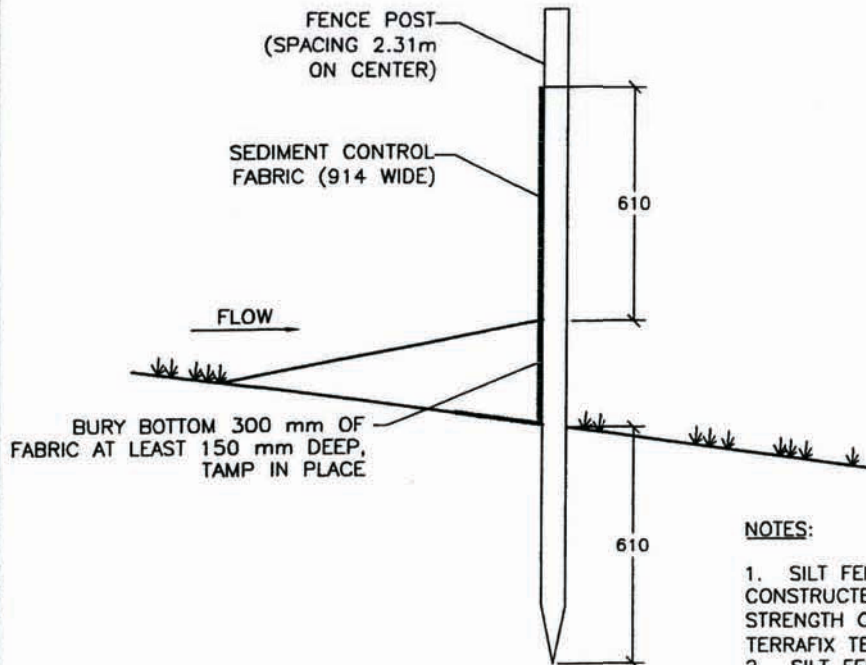


FIGURE 1

NOTES:

1. SILT FENCE HEIGHT TO BE 600 ABOVE GROUND, CONSTRUCTED OF FABRIC WITH MINIMUM TENSILE STRENGTH OF 54.43 kg (MIRAFI ENVROFENCE, TERRAFIX TERRAFENCE OR APPROVED EQUIVALENT).
2. SILT FENCE TO HAVE FACTORY ATTACHED FENCE POSTS.
3. REFER TO DRAWING FOR LOCATION OF SILT FENCE.

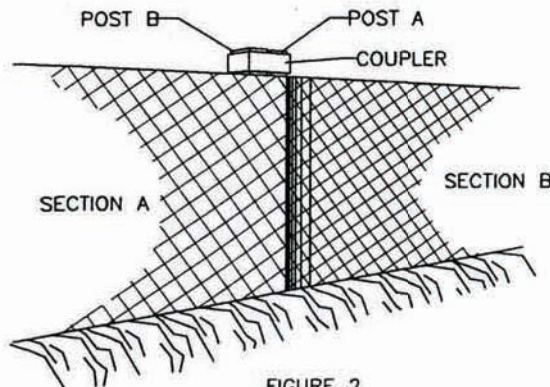


FIGURE 2

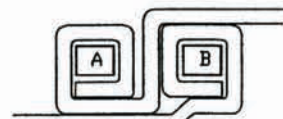


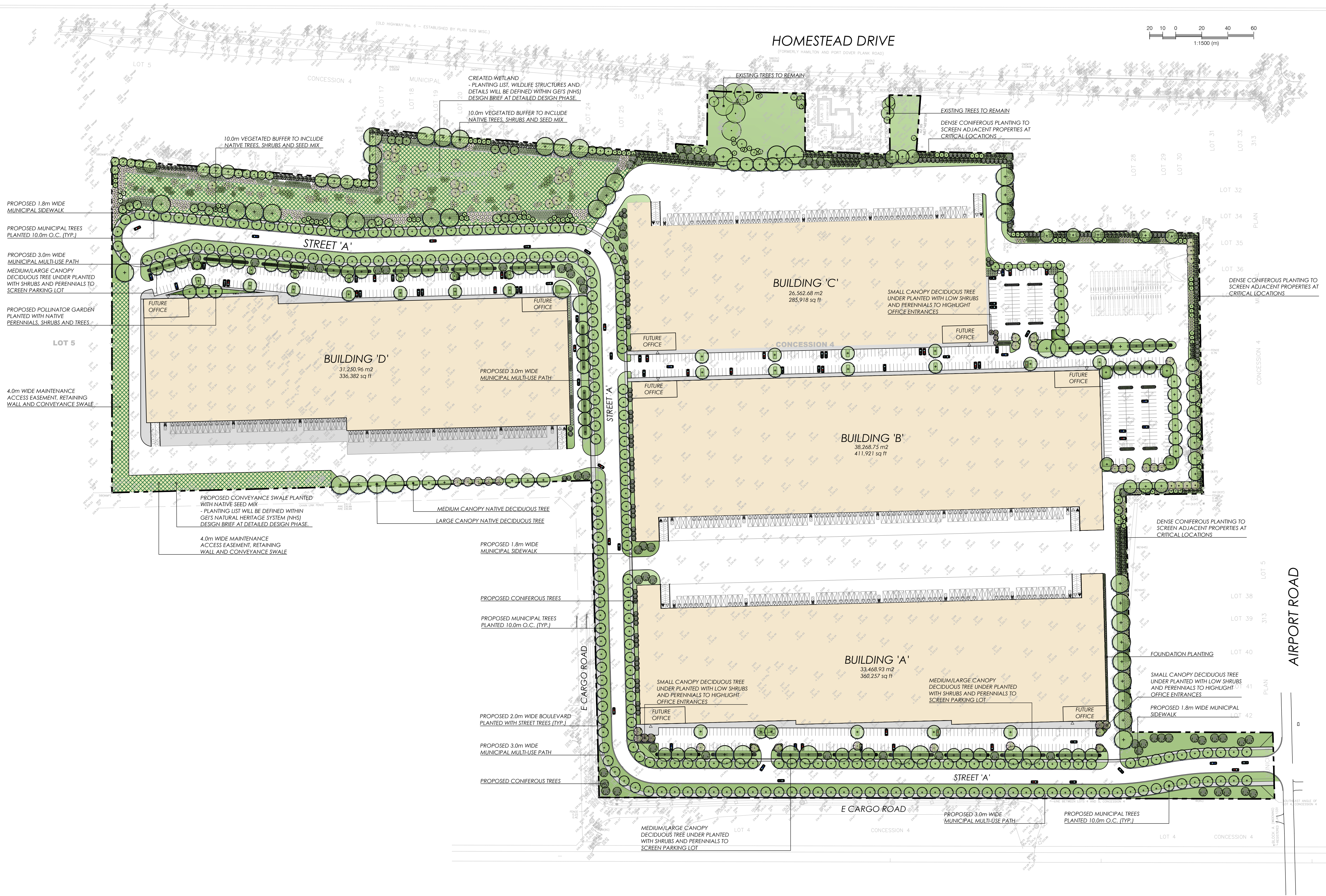
FIGURE 3

Appendix E

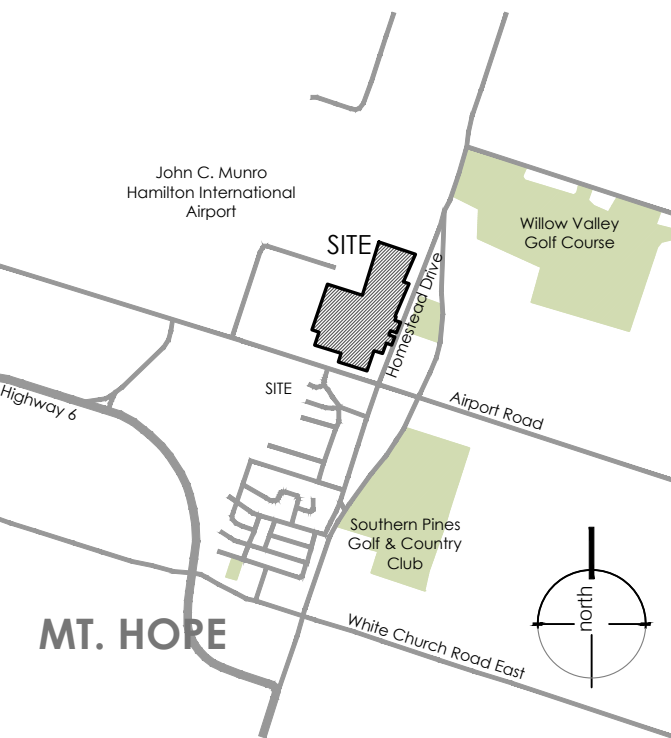
Tree Planting Plans

- a. Adesso Design Inc Landscape Concept Plan
- b. GEI Consultants Inc Wetland Compensation Concept Plan





KEY MAP - N.T.S.



LEGEND

- property line
- existing tree to remain
- proposed deciduous tree
- proposed coniferous tree
- proposed shrub
- proposed perennial
- min. 150mm topsoil, fine grade & sod
- min. 150mm topsoil, fine grade & seed
- existing elevation
- C.I.P. concrete
- proposed 1.8m ht. wooden noise fence

NOT FOR CONSTRUCTION
ISSUED FOR REVIEW & COMMENTS ONLY

REVISIONS/ SUBMISSIONS

#	DATE	DESCRIPTION
1	2023-02-27	Issued for submission
2	2023-07-26	Issued for submission

STAMP



CLIENT
Fengate Property Management
MUNICIPALITY
City of Hamilton

PROJECT
3054 Homestead Drive
9174 & 9166 Airport Road
Mt. Hope, Hamilton

MUNICIPAL FILE NUMBER

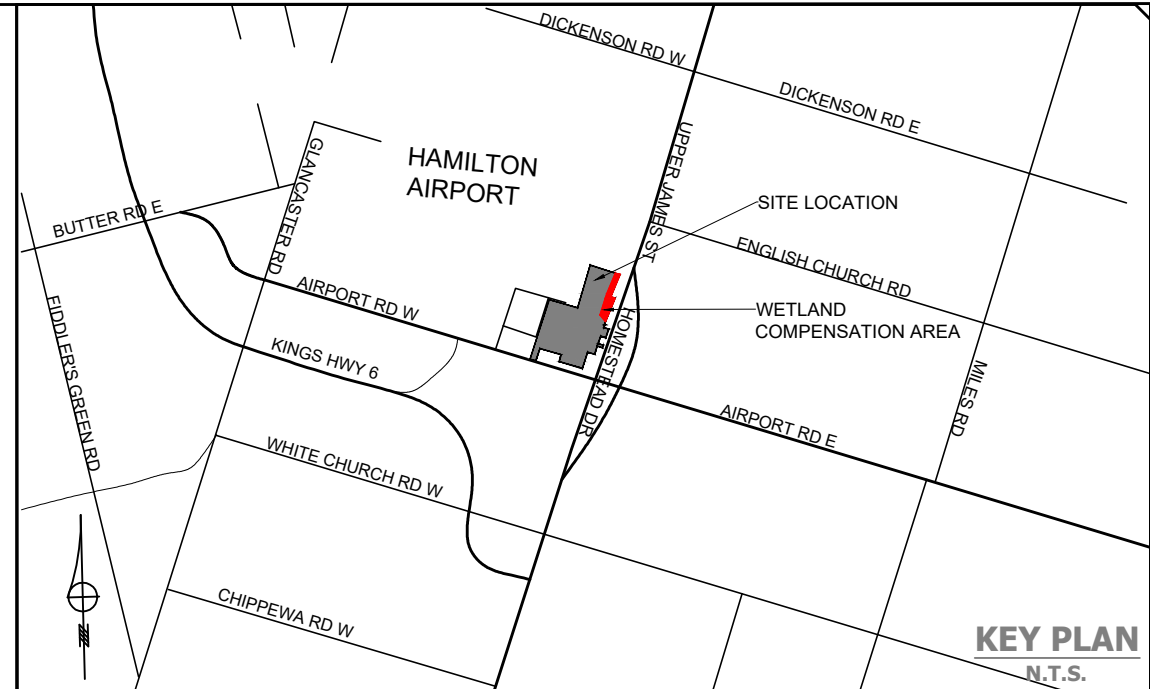
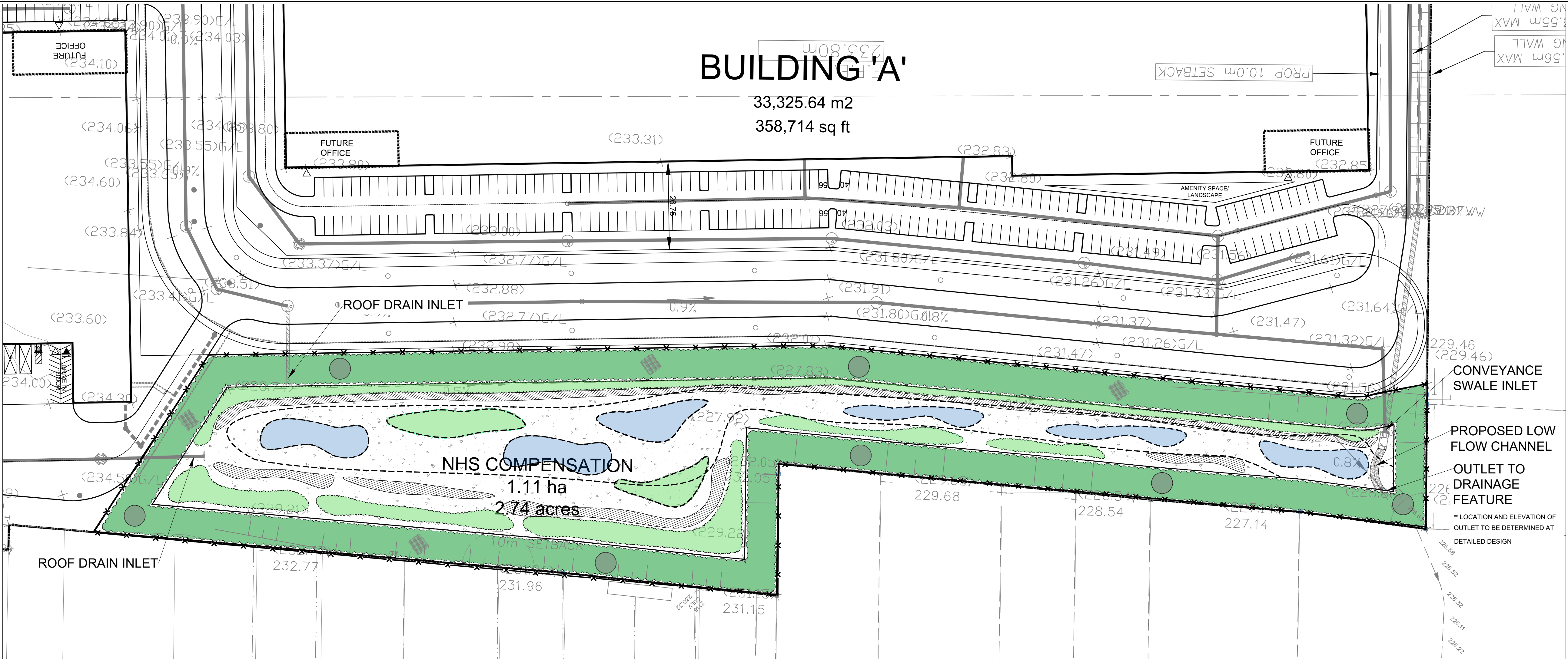
SHEET
Landscape
Concept Plan

LC-1

adesso design inc.
landscape architecture



69 John Street South, Suite 250
Hamilton, ON L8P 2B9
t: 905.526.8876
www.adessodesigninc.ca



LEGEND

- PROPOSED CONTOUR LINES
- x- PROPOSED 1.2M HIGH CHAIN LINK FENCE AT COMPENSATION AREA LIMIT
- PROPOSED UPLAND PLANTING/ COMPENSATION TREE PLANTING AREA* AND UPLAND SEED MIX
- PROPOSED SHRUB THICKET WETLAND PLANTINGS
- PROPOSED SHALLOW AQUATIC WETLAND PLANTINGS ON SUBMERGED DEPRESSIONS 10-30CM DEEP
- PROPOSED SHRUB THICKET WETLAND PLANTINGS ON ELEVATED MOUNDS 0-10CM HIGH
- PROPOSED CATTAIL PLANTINGS
- PROPOSED WETLAND SEED MIX
- BRUSH PILE HABITAT FEATURES
- ROCK PILE HABITAT FEATURES

UPLAND PLANT LIST

TREES: 5% Caliper, 95% Whips or Saplings					
KEY	SCIENTIFIC NAME	COMMON NAME	QUANTITY OF TREES 150 CM HEIGHT, 3 GALLON POTTED	QUANTITY OF TREES 40 MM CALIER	SPACING
Deciduous Trees					
AS	<i>Acer saccharinum</i>	Silver Maple	75	0	3-5m O.C.
CO	<i>Carya ovata</i>	Shagbark Hickory*	65	6	3-5m O.C.
OV	<i>Ostrya virginiana</i>	Eastern Hop-hornbeam	65	0	3-5m O.C.
QR	<i>Quercus rubra</i>	Red Oak *	65	5	3-5m O.C.
TA	<i>Tilia americana</i>	Basswood*	66	6	3-5m O.C.
Total			336	17	

Species	Notes
Shrubs	
Pin Cherry (<i>Prunus pensylvanica</i>) *	Plant interspersed within buffer zone
Wild Red Raspberry (<i>Rubus idaeus</i> sp. <i>Strigosus</i>) *	
Bush-honeysuckle (<i>Diervilla lonicera</i>) *	
Witch-hazel (<i>Hammamelis virginiana</i>) *	
Dotted Hawthorn (<i>Crataegus punctata</i>)	
Seed Mix	
20% Virginia Wildrye (<i>Elymus virginicus</i> var. <i>virginicus</i>)	GEI Custom Partial Shade Seed Mix Applied October to November
10% Canada Wildrye (<i>Elymus canadensis</i>)	
10% Bottlebrush Grass (<i>Elymus hystix</i>)	
30% Little Bluestem (<i>Schizachyrium scoparium</i> var. <i>scoparium</i>)	
5% Fowl Bluegrass (<i>Poa palustris</i>)	
5% Limestone Meadow Sedge (<i>Carex granularis</i>)	
5% Aster species (<i>Symphyotrichum ericoides</i> , <i>S. cordifolium</i> , <i>Eurybia macrophylla</i>)	
5% Path Rush (<i>Carex tenuis</i>)	
5% Pennsylvania Sedge (<i>Carex pensylvanica</i>)	
2% Fowl Mannagrass (<i>Glyceria striata</i>)	
1% Canada Anemone (<i>Anemone canadensis</i>)	
1% Showy Tick-Trefoil (<i>Desmodium canadense</i>)	
1% Wild Columbine (<i>Aquilegia canadensis</i>)	
Cover Crop	
35% Canada Wild Rye (<i>Elymus canadensis</i>)	Cover Crop Mix
25% Annual Oats (<i>Avena sativa</i>)	
20% Creeping Bent Grass (<i>Agrostis stolonifera</i>)	
20% Red Fescue (<i>Festuca rubra</i>)	

- UPLAND PLANTINGS:
- TREES AT 3-5M O.C. SHRUBS AT 1M O.C.
 - 3 SHRUBS PLANTED FOR EVERY TREE

WETLAND PLANT LIST

Species	Notes	
Shrubs		
Buttonbush (<i>Cephalanthus occidentalis</i>)	Plant along wetland edge	
Gray Dogwood (<i>Cornus racemosa</i>) *		
Red-osier Dogwood (<i>Cornus sericea</i>) *		
Heart-leaved Willow (<i>Salix eriocephala</i>)		
Pussy Willow (<i>Salix discolor</i>)		
Bebb's Willow (<i>Salix bebbii</i>)	Plant on dry mounds	
Plugs		
Broad-leaved Cattail (<i>Typha latifolia</i>) *		Plant along wetland edge
Swamp Milkweed (<i>Asclepias incarnata</i>) **		Plant on submerged mounds
Spotted Joe Pye Weed (<i>Eupatorium maculatum</i>) **		
Wild Blue Flag (<i>Iris versicolor</i>) **		
Common rush (<i>Juncus effusus</i>) ***		
Torrey's Rush (<i>Juncus torreyi</i>) ***		
Woolgrass (<i>Scirpus cyperinus</i>) ***	Plant on submerged mounds	
Soft-stemmed Bulrush (<i>Schoenoplectus tabernaemontani</i>) *		
Fragrant Water-lily (<i>Nymphaea odorata</i>)		
Common Arrowhead (<i>Sagittaria latifolia</i>)		Plant 30-60 cm deep
Seed Mix		
1% Bebb's Sedge (<i>Carex bebbii</i>)	GEI Custom Meadow Marsh Seed Mix Plant in 0-30 cm of water Seeding should occur in the Fall to promote natural cold stratification.	
1% Blue Lobelia (<i>Lobelia siphilitica</i>)		
14% Blue Vervain (<i>Verbena hastata</i>)		
2% Boneset (<i>Eupatorium perfoliatum</i>)		
5% Dark Green Bulrush (<i>Scirpus atrovirens</i>)		
25% Fox Sedge (<i>Carex vulpinoidea</i>)		
1% Grass Leaved Goldenrod (<i>Euthamia graminifolia</i>)		
10% Meadow/Open Field Sedge (<i>Carex granularis</i>)		
1% Purple Stemmed Aster (<i>Symphyotrichum puniceum</i>)		
5% Soft Rush (<i>Juncus effusus</i>)		
2% Spotted Joe Pye Weed (<i>Eupatorium maculatum</i>)		
1% Monkey Flower (<i>Mimulus ringens</i>)		
2% Stalk Grain Sedge (<i>Carex stipata</i>)		
2% Tall Manna Grass (<i>Glyceria grandis</i>)		
2% Woolgrass (<i>Scirpus cyperinus</i>)		
1% Swamp Milkweed (<i>Asclepias incarnata</i>)		
25% Fowl Bluegrass (<i>Poa palustris</i>)		
Cover Crop		
100% Annual Oats (<i>Avena sativa</i>)	Cover Crop to be added if seeding occurs in the Spring.	

*Salt tolerant; **Nectaring plant; *** Pioneer aquatic species

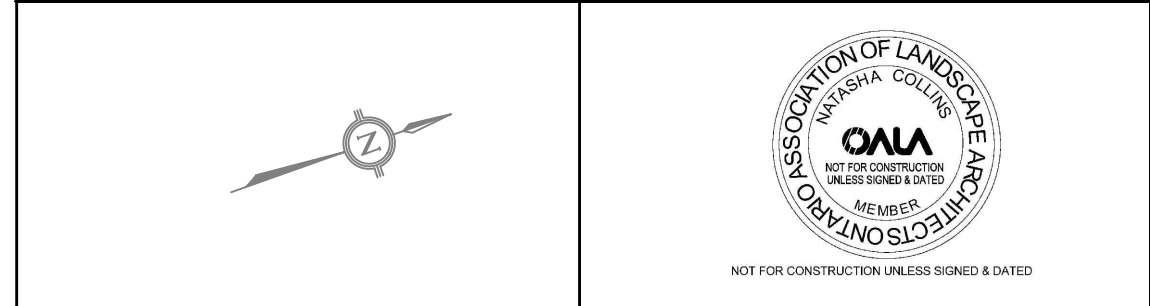
- WETLAND PLANTINGS:
- SHRUBS AT 1M O.C.

WETLAND DESIGN IS CONCEPTUAL. GRADING TO BE REFINED DURING DETAILED DESIGN.

*353 TREES ARE REQUIRED TO COMPENSATE FOR REMOVALS AS PER GEI'S 2023 ARBORIST REPORT. REPORT TO BE UPDATED.

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1	ISSUED FOR REVIEW	2023/08/15	HC
No.	REVISION	DATE	BY

FENGATE ASSET MANAGEMENT



3054 HOMESTEAD DR, 9166
AIRPORT RD & 9174 AIRPORT RD

CONCEPTUAL WETLAND COMPENSATION DESIGN

DESIGNED BY:	NC	CHECKED BY:	ND	PROJECT No.:	2100017
DRAWN BY:	NC	DATE:	15 August 2023	FIGURE No.:	
					WL-1