



**1478 Westdel Bourne – Wagner
Property, London, Ontario,
Arborist Report**

August 17, 2020

Prepared for:

Norquay Orchard Land Corp.
300-101 Wellington Street,
London, ON, N6B2K6

Prepared by:


Stantec Consulting Ltd.
100-300 Hagey Boulevard
Waterloo, ON N2L 0A4
(519) 579-4410

161413921



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Prepared by _____



(signature)

Gary Grewal, MAsc., EP, ISA
ISA Certified Arborist ON-2174A
Tel.: (519) 585-7442
gary.grewal@stantec.com

Reviewed by _____



(signature)

Landon Black, OALA, ISA Certified Arborist ON-1876A,
Landscape Architect,
Tel.: (519) 585-7263
landon.black@stantec.com



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Introduction
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1.0 INTRODUCTION

Stantec Consulting Limited (Stantec) has been retained by Norquay Orchard Land Corp. to prepare an Arborist Report for the proposed future development 1478 Westdel Bourne in London, Ontario. The Arborist Report has been prepared in support of the Site Plan Approval application and has been prepared as per requirements set out in the City of London Site Plan Control By-law, C.P.-1455-541 November 26, 2019.

1.1 EXISTING SITE

The development site is currently a 6.5 hectare residential property with an old apple orchard and one residential building. The site has a significant amount of mown lawn with tree planting areas clustered around the residences and the perimeter of the property. The front of the property, the perimeter of the property and the area around the residential building is covered with mature black walnuts. Opposite the subject site on west side of Westdel Bourne are large residential homes. The north and east boundaries of the site have ongoing residential developments. An agricultural parcel with a residential building exists on the south side of the subject property.

1.2 PROPOSED DEVELOPMENT

The proposed Site Plan for 1478 Westdel Bourne includes single family residential development on the eastern portion of the property and medium density residential development on the western portion. The central area of the property is proposed to contain a park.



Methodology
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2.0 METHODOLOGY

The tree inventory was conducted by Gary Grewal ISA Certified Arborist ON-2174A on June 18, 2020. The tree inventory and assessment included the trees located within the property boundary, and trees within 3m on adjacent lands that may be impacted by the development and proposed grading work.

The detailed inventory data was collected for trees 10 cm diameter at breast height (DBH) and greater, as well as planted landscape trees. The data collected included tree species, general health condition, DBH, and dripline radius. No trees were tagged during the inventory process.

Tree locations were recorded using a Trimble R1 GNSS Receiver unit. Data were recorded using ESRI Collector on an iPhone 8. The detailed inventory information has been compiled into Table A located in Appendix 'A'. Trees have been identified on the Tree Management Plan, Drawings L-900 - L-907, located in Appendix 'B'.

2.1 TREE CONDITION RATING

The condition of inventoried trees was assessed using the following three categories:

Trunk Integrity - Assessment of the trunk for any defects.

Canopy Structure - Assessment of the scaffold branches and canopy of the tree.

Canopy Vigour - Assessment of the amount of deadwood versus live growth in the tree crown, also considers size, colour and amount of foliage.

Outlined below are the detailed guidelines utilized for the condition classification:

Good: Defects if present are minor (e.g. twig dieback, small wounds), defective tree part is small (e.g. 5-8 cm diameter limb) providing little if any risk.

Fair: Defects are numerous or significant (e.g. dead scaffold limbs), defective parts are moderate in size (e.g. limb greater than 5-8 cm in diameter).

Poor: Defects are severe (trunk cavity in excess of 50%), defective parts are large (e.g. majority of crown).

Dead: Tree exhibits no signs of life.



Observations and Analysis
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3.0 OBSERVATIONS AND ANALYSIS

3.1 OBSERVATIONS

The study area contained both native species and non-native species. A total of 533 trees were inventoried on site. The following species were observed:

Table 1: Observed Species

<i>Family</i>	<i>Genus species (common name)</i>
<i>Betulaceae</i> (birch family)	<i>Ostrya virginiana</i> (ironwood)
<i>Juglandaceae</i> (walnut family)	<i>Juglans nigra</i> (black walnut)
<i>Moraceae</i> (mulberry family)	<i>Morus alba</i> (white mulberry)
<i>Oleaceae</i> (olive family)	<i>Fraxinus sp.</i> (ash sp.)
<i>Rhamnaceae</i> (buckthorn family)	<i>Rhamnus cathartica</i> (European buckthorn)
<i>Rosaceae</i> (rose family)	<i>Malus pumila</i> (common apple) <i>Malus sp.</i> (apple sp.) <i>Prunus serotina</i> (black cherry) <i>Prunus sp.</i> (cherry sp.)
<i>Sapindaceae</i> (soapberry family)	<i>Acer platanoides</i> (Norway maple) <i>Acer negundo</i> (Manitoba maple)
<i>Ulmaceae</i> (elm family)	<i>Ulmus americana</i> (white elm)

3.2 ANALYSIS

3.2.1 Tree Removal & Preservation

3.2.1.1 Trees to be Removed

The proposed Site Plan will require extensive use of the site and the removal of trees is recommended to facilitate the proposed end uses and ensure a feasible and safe construction process.

Thirty (30) are recommended for removal because they are dead and may present a hazard to the final Site use as well as the construction crew during construction.



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The removal of 494 trees is recommended to facilitate the construction of the proposed development. These removals are recommended to facilitate underground works, site grading and to implement a landscape architectural design compatible with the proposed site end use.

The site also contains 6 European buckthorns, which are an invasive species and are recommended to be removed. There are also 3 trees within 3 meters of the property which have been approved for removal by the municipality as shown in 'Riverbend South Tree Preservation Plan and Report' submitted by AECOM on behalf of Sifton Properties Limited. Since they have been approved for removal, tree protection fencing will not be installed to protect these trees. However, these trees are not proposed for removal as a part of this project.

3.2.1.2 Tree Removal and Preservation Summary

No trees are recommended to be retained and protected. The following is a summary of the total inventoried trees to be removed. Trees to be removed have been identified on drawings L-901 to L-906:

- Total trees inventoried in area = 533
- Trees to be protected = 0
- Total trees to be removed = 530
- Trees previously approved for removal = 3



4.0 CONSTRUCTION MITIGATION AND MANAGEMENT

4.1 CONSTRUCTION IMPACTS

4.1.1 Potential Construction Impacts to Trees

Trees are living organisms that react to changes in their environment. Trees can be damaged during construction without showing signs of damage until some years later. Most of the impacts relate to the removal of roots that results in the slow death of the tree as a result of its inability to absorb sufficient water and nutrients. Contained within this section are descriptions of the potential impacts this project may have on the trees, and impact mitigation methods that are intended to aid in the design and construction process.

4.1.2 Soil Compaction and Root Damage

The leading cause of construction damage to trees is compaction of the soil around the roots or within the Tree Protection Zone (TPZ). The TPZ is the area around the tree or group of trees in which no grading or construction activity may occur. Equipment entering into a TPZ compresses the air pockets around the roots inhibiting the tree from absorbing nutrients and water. This damage ultimately reduces the health of the tree. Accordingly, during the removal stage, equipment use within the preservation zones should be restricted to ensure that the tree's roots are not disturbed, thereby, assisting in maintaining their continued health. The TPZ is protected and delineated by the TPF.

4.1.3 Mechanical Damage

Equipment can physically damage the trees through striking the trunk, limbs and/or roots. Felled trees can also cause damage during the tree removal stage of construction. Some damage is unavoidable due to close proximity of adjacent trees; however, through the use of proper equipment and Best Management Practices (BMP) the damage can be minimized. The Contractor should be held responsible for all avoidable damage to the trees during all stages of development. Note: trees shall be felled away from adjacent trees to be retained.

4.1.4 Root Damage

The success of tree preservation is dependent not only on protecting the root zone from compaction and damage, it is also contingent upon the ability to ensure that the structural roots within the root plate are not disturbed. Impacts to this area may result in the structural failure of these trees. Excavating soil 1 m outside a tree's dripline, or within a dripline if approved by an Arborist, can damage roots by tearing and splitting back to the stem. This damage can later lead to rot, which can kill the tree. When excavating the top 30-60 cm of soil adjacent to trees, care must be taken. Excavation should cleanly sever the roots prior to stripping and removal of soil. Exposed roots, greater than 2.5 cm diameter, shall be pruned back to the soil face to prevent damage to the tree.



4.2 PROTECTING AND MANAGING TREES DURING CONSTRUCTION

The following recommendations are presented to provide appropriate tree protection and management during the construction for this project.

1. Tree protection fencing shall be installed to protect trees identified for preservation. TPF installation must conform to details and City of London standards. Upon installation of the tree protection fencing, the Contractor shall contact the Project Arborist to review and approve the fencing and its location prior to commencement of any site work. This shall be coordinated with City staff for approval. The protection fencing shall remain intact throughout the entire protection. The fencing will be inspected weekly and, if required, repaired. The fencing shall be removed at the completion of all site works.
2. Upon receiving the necessary project approvals and prior to the commencement of tree removals, all trees designated for preservation must be flagged in the field. All designated preservation areas must be left standing and undamaged during site works. Removals are to be completed outside of migratory bird nesting season from April 1 to August 31. Removals may take place during this restricted time only if the requirements of the Migratory Birds Convention Act are met and nesting activity is routinely monitored by qualified individuals (i.e., Wildlife Biologists).
3. The TPZ is the area around a retained tree that is to be protected by tree protection fencing. The TPZ is not to be used for any type of storage (e.g. storage of debris, construction material, surplus soils, and construction equipment). No trenching or tunneling for underground services shall be located within the TPZ. Construction equipment shall not be allowed to idle or exhaust within the TPZ.
4. Trees shall not have any rigging cables or hardware of any sort attached or wrapped around them, nor shall any contaminants be dumped within the protective areas. Furthermore, no contaminants shall be dumped or flushed where they may come into contact with the feeder roots of the trees. In the event that roots from retained trees are exposed, or if it is necessary to remove limbs or portions of trees after construction has commenced, the Project Arborist shall be informed and the proper actions conforming to City Policies and By-laws shall be carried out.
5. Upon completion of the tree removals, all felled trees are to be removed from the site. No lumber or brush from the clearing is to be stored on the site. Any chipping, cutting or brush cleanup are to be completed outside of the bird nesting season. These works may take place during this restricted time only if the requirements of the Migratory Birds Convention Act are met and nesting activity is routinely monitored by qualified individuals (i.e., Wildlife Biologists).
6. The following is the process that shall be carried out if tree removals are requested during the restricted time indicated in the Migratory Birds Convention Act:
 - Contact a qualified individual (i.e., Wildlife Biologist) to determine if nesting birds are within the tree removal disturbance area. Stantec has a qualified bird specialist on staff that can be contacted



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- If the bird specialist has determined that there are nesting birds onsite, there will be no tree removals/chipping conducted within the boundary set out by the specialist. Tree removals can resume within this area at the end of the nesting season, August 31, or if the migratory bird specialist has determined the birds have left
- If the bird specialist determines there are no migratory birds nesting within the disturbance area, the contractor has 7 days to conduct removals. At the end of 7 days, if removals and chipping is not complete, the bird specialist will return to the site and proceed with another assessment. If there are still no birds, work can resume for another 7 days. This process will continue until all removals and chipping is complete.



Conclusion
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5.0 CONCLUSION

A total of 533 trees were observed on site and 530 of them and have been recommended for removal based on the proposed Site Plan. Thirty (30) of these trees have been recommended for removal because they are dead and could present a hazard to the development and to workers during construction. Six (6) have been recommended for removal as they are invasive species and 3 trees on the neighbouring property have been approved removal through a separate permit. The remaining 494 are recommended removal as they are within the construction limit. Locations and details for the installation of TPF have been provided on Drawings L-900 through L-907 located in Appendix 'B'.



Disclaimer
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6.0 DISCLAIMER

The assessment of the trees presented within this report has been made using accepted arboricultural techniques. These include a visual examination of the above-ground parts of each tree for structural defects, scars, external indications of decay, evidence of insect presence, discoloured foliage, the general condition of the trees and the surrounding site, as well as the proximity of property and people. None of the trees examined were dissected, cored, probed, or climbed, and detailed root crown examinations involving excavation were not undertaken.

Notwithstanding the recommendations and conclusions made in this report, it must be realized that trees are living organisms and their health and vigour is constantly changing. They are not immune to changes in site conditions or seasonal variations in the weather.

While reasonable efforts have been made to ensure the trees recommended for retention are healthy, no guarantees are offered or implied, that these trees or any part of them will remain standing. It is both professionally and practically impossible to predict with absolute certainty the behavior of any single tree or group of trees in all circumstances. Inevitably, a standing tree will always pose some risk. Most trees have the potential for failure if provided with the necessary combinations of stresses and elements. This risk can only be eliminated if the tree is removed.

Every effort has been made to ensure that this assessment is reasonably accurate, and the trees should be re-assessed periodically. The assessment presented in this report is valid at the time of inspection.



APPENDIX A
Tree Inventory Table A

TABLE A. Detailed Tree Inventory, Wagner Property, City of London, Ontario

Project Number: 161413921

Data collected: June 18, 2020

Tag # / Tree ID for trees <10cm DBH	Botanical Name	Common Name	DBH (cm)					Dripline Radius (m)	Condition				Comments	Action	Removal/Injury Justification
			Stem 1	Stem 2	Stem 3	Stem 4	Stem 5		Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition			
1	<i>Ostrya virginiana</i>	ironwood	34.0	20.0	20.0	17.0	11.0	8.0	Fair	Good	Good	Good	Union above grade	Remove - Construction	Remove to facilitate construction
2	<i>Juglans nigra</i>	black walnut	32.0	32.0	-	-	-	7.0	Fair	Good	Good	Good	Union above grade	Remove - Construction	Remove to facilitate construction
3	<i>Juglans nigra</i>	black walnut	32.0	30.0	-	-	-	7.0	Fair	Good	Good	Good	Union above grade	Remove - Construction	Remove to facilitate construction
4	<i>Juglans nigra</i>	black walnut	36.0	-	-	-	-	6.0	Good	Good	Good	Good	Slight lean	Remove - Construction	Remove to facilitate construction
5	<i>Juglans nigra</i>	black walnut	45.0	-	-	-	-	6.0	Good	Good	Good	Good	Slight lean	Remove - Construction	Remove to facilitate construction
6	<i>Juglans nigra</i>	black walnut	30.0	-	-	-	-	6.0	Good	Good	Good	Good	Slight lean	Remove - Construction	Remove to facilitate construction
7	<i>Juglans nigra</i>	black walnut	29.0	-	-	-	-	6.0	Good	Good	Good	Good	Slight lean	Remove - Construction	Remove to facilitate construction
8	<i>Juglans nigra</i>	black walnut	32.0	32.0	31.0	-	-	7.0	Fair	Good	Good	Good	Union above grade	Remove - Construction	Remove to facilitate construction
9	<i>Juglans nigra</i>	black walnut	30.0	-	-	-	-	6.0	Good	Good	Good	Good	Slight lean	Remove - Construction	Remove to facilitate construction
10	<i>Juglans nigra</i>	black walnut	55.0	-	-	-	-	6.0	Fair	Good	Good	Good	Co dominant stem	Remove - Construction	Remove to facilitate construction
11	<i>Juglans nigra</i>	black walnut	30.0	-	-	-	-	6.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
12	<i>Juglans nigra</i>	black walnut	30.0	-	-	-	-	6.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
13	<i>Juglans nigra</i>	black walnut	41.0	-	-	-	-	8.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
14	<i>Juglans nigra</i>	black walnut	30.0	-	-	-	-	6.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
15	<i>Juglans nigra</i>	black walnut	37.0	-	-	-	-	6.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
16	<i>Malus sp.</i>	apple sp.	55.0	-	-	-	-	5.0	Fair	Good	Poor	Poor	Major dieback, rot in trunk	Remove - Construction	Remove to facilitate construction
17	<i>Juglans nigra</i>	black walnut	32.0	32.0	-	-	-	7.0	Fair	Good	Good	Good	Union above grade	Remove - Construction	Remove to facilitate construction
18	<i>Juglans nigra</i>	black walnut	32.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
19	<i>Juglans nigra</i>	black walnut	40.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
20	<i>Juglans nigra</i>	black walnut	34.0	-	-	-	-	7.0	Fair	Good	Good	Good	Poor branching	Remove - Construction	Remove to facilitate construction
21	<i>Juglans nigra</i>	black walnut	20.0	-	-	-	-	4.0	Fair	Good	Good	Good		Remove - Construction	Remove to facilitate construction
22	<i>Juglans nigra</i>	black walnut	30.0	-	-	-	-	7.0	Good	Good	Good	Good	Broken branch	Remove - Construction	Remove to facilitate construction
23	<i>Juglans nigra</i>	black walnut	36.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
24	<i>Juglans nigra</i>	black walnut	14.0	-	-	-	-	3.0	Fair	Good	Good	Good		Remove - Construction	Remove to facilitate construction
25	<i>Juglans nigra</i>	black walnut	20.0	-	-	-	-	4.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
26	<i>Juglans nigra</i>	black walnut	32.0	-	-	-	-	4.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
27	<i>Juglans nigra</i>	black walnut	20.0	-	-	-	-	4.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
28	<i>Juglans nigra</i>	black walnut	32.0	-	-	-	-	4.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
29	<i>Juglans nigra</i>	black walnut	32.0	-	-	-	-	4.0	Good	Fair	Good	Good	Dead and broken lower branches	Remove - Construction	Remove to facilitate construction
30	<i>Juglans nigra</i>	black walnut	20.0	-	-	-	-	4.0	Good	Fair	Good	Good	Dead branches	Remove - Construction	Remove to facilitate construction
30A	<i>Juglans nigra</i>	black walnut	32.0	-	-	-	-	6.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
31	<i>Juglans nigra</i>	black walnut	35.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
32	<i>Juglans nigra</i>	black walnut	20.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
33	<i>Juglans nigra</i>	black walnut	30.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
34	<i>Juglans nigra</i>	black walnut	36.0	31.0	-	-	-	7.0	Fair	Good	Good	Good	Union above grade	Remove - Construction	Remove to facilitate construction
35	<i>Juglans nigra</i>	black walnut	36.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
37	<i>Juglans nigra</i>	black walnut	14.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
38	<i>Juglans nigra</i>	black walnut	30.0	-	-	-	-	7.0	Poor	Good	Good	Fair	Major rot at base of trunk	Remove - Construction	Remove to facilitate construction
39	<i>Juglans nigra</i>	black walnut	35.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
40	<i>Juglans nigra</i>	black walnut	34.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
41	<i>Juglans nigra</i>	black walnut	30.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
42	<i>Juglans nigra</i>	black walnut	32.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
43	<i>Juglans nigra</i>	black walnut	30.0	-	-	-	-	7.0	Good	Fair	Good	Good	Dead branches	Remove - Construction	Remove to facilitate construction
44	<i>Juglans nigra</i>	black walnut	32.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
45	<i>Juglans nigra</i>	black walnut	45.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
46	<i>Juglans nigra</i>	black walnut	45.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
47	<i>Juglans nigra</i>	black walnut	47.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
48	<i>Juglans nigra</i>	black walnut	38.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
49	<i>Juglans nigra</i>	black walnut	45.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
50	<i>Juglans nigra</i>	black walnut	23.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
51	<i>Juglans nigra</i>	black walnut	28.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
52	<i>Juglans nigra</i>	black walnut	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
53	<i>Juglans nigra</i>	black walnut	43.0	0.0	0.0	0.0	0.0	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
54	<i>Juglans nigra</i>	black walnut	34.0	0.0	0.0	0.0	0.0	7.0	Good	Fair	Good	Good	Some Dead branches	Remove - Construction	Remove to facilitate construction
55	<i>Juglans nigra</i>	black walnut	32.0	0.0	0.0	0.0	0.0	7.0	Good	Fair	Good	Good	Some Dead branches	Remove - Construction	Remove to facilitate construction
56	<i>Juglans nigra</i>	black walnut	32.0	0.0	0.0	0.0	0.0	7.0	Good	Fair	Good	Good	Some Dead branches	Remove - Construction	Remove to facilitate construction
57	<i>Juglans nigra</i>	black walnut	43.0	0.0	0.0	0.0	0.0	7.0	Good	Fair	Good	Good	Some Dead branches	Remove - Construction	Remove to facilitate construction
58	<i>Juglans nigra</i>	black walnut	30.0	27.0	0.0	0.0	0.0	7.0	Fair	Poor	Good	Poor	Some Dead branches and dieback. Co-dominant	Remove - Construction	Remove to facilitate construction
59	<i>Juglans nigra</i>	black walnut	34.0	0.0	0.0	0.0	0.0	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
60	<i>Juglans nigra</i>	black walnut	34.0	0.0	0.0	0.0	0.0	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
61	<i>Juglans nigra</i>	black walnut	30.0	0.0	0.0	0.0	0.0	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
62	<i>Juglans nigra</i>	black walnut	36.0	0.0	0.0	0.0	0.0	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
63	<i>Malus sp.</i>	apple sp.	50.0	0.0	0.0	0.0	0.0	0.0	Poor	Poor	Poor	Poor	Major rot and dieback	Remove - Construction	Remove to facilitate construction
64	<i>Malus sp.</i>	apple sp.	25.0	0.0	0.0	0.0	0.0	2.0	Poor	Poor	Poor	Poor	Major rot and dieback	Remove - Construction	Remove to facilitate construction
65	<i>Malus sp.</i>	apple sp.	50.0	0.0	0.0	0.0	0.0	0.0	Poor	Fair	Fair	Fair	Major rot	Remove - Construction	Remove to facilitate construction
65	<i>Rhamnus cathartica</i>	European buckthorn	10.0	10.0	10.0	0.0	0.0	3.0	Good	Good	Fair	Good		Remove - Invasive	Invasive Species
66	-	Stump	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
67	-	Stump	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
70	<i>Juglans nigra</i>	black walnut	13.0	0.0	0.0	0.0	0.0	4.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
71	<i>Juglans nigra</i>	black walnut	13.0	0.0	0.0	0.0	0.0	4.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction

TABLE A. Detailed Tree Inventory, Wagner Property, City of London, Ontario

Project Number: 161413921

Data collected: June 18, 2020

Tag # / Tree ID for trees <10cm DBH	Botanical Name	Common Name	DBH (cm)					Dripline Radius (m)	Condition				Comments	Action	Removal/Injury Justification
			Stem 1	Stem 2	Stem 3	Stem 4	Stem 5		Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition			
141	<i>Juglans nigra</i>	black walnut	38.0	-	-	-	-	7.0	Fair	Good	Good	Fair		Remove - Construction	Remove to facilitate construction
142	<i>Juglans nigra</i>	black walnut	25.0	-	-	-	-	7.0	Fair	Good	Good	Fair		Remove - Construction	Remove to facilitate construction
143	<i>Juglans nigra</i>	black walnut	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
144	<i>Juglans nigra</i>	black walnut	37.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
145	<i>Fraxinus sp.</i>	ash sp.	20.0	-	-	-	-	2.0	Poor	Poor	Poor	Poor	Emerald ash borer signs	Remove - Construction	Remove to facilitate construction
146	<i>Juglans nigra</i>	black walnut	37.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
147	<i>Juglans nigra</i>	black walnut	37.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
148	<i>Juglans nigra</i>	black walnut	37.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
149	<i>Juglans nigra</i>	black walnut	37.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
150	<i>Juglans nigra</i>	black walnut	28.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
151	<i>Juglans nigra</i>	black walnut	28.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
152	<i>Juglans nigra</i>	black walnut	38.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
153	<i>Acer platanoides</i>	Norway maple	30.0	23.0	-	-	-	7.0	Poor	Good	Good	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
154	<i>Juglans nigra</i>	black walnut	28.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
155	<i>Juglans nigra</i>	black walnut	39.0	-	-	-	-	8.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
156	<i>Juglans nigra</i>	black walnut	32.0	-	-	-	-	8.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
157	<i>Juglans nigra</i>	black walnut	30.0	-	-	-	-	6.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
158	<i>Juglans nigra</i>	black walnut	12.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
159	<i>Juglans nigra</i>	black walnut	28.0	-	-	-	-	3.0	Fair	Good	Good	Good	Poor trunk structure	Remove - Construction	Remove to facilitate construction
160	<i>Juglans nigra</i>	black walnut	33.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
161	<i>Malus sp.</i>	apple sp.	45.0	-	-	-	-	5.0	Poor	Poor	Poor	Poor		Remove - Construction	Remove to facilitate construction
162	<i>Malus sp.</i>	apple sp.	38.0	-	-	-	-	5.0	Poor	Poor	Poor	Poor	Rot in trunk, metal wire going through trunk	Remove - Construction	Remove to facilitate construction
163	<i>Malus sp.</i>	apple sp.	41.0	-	-	-	-	5.0	Poor	Poor	Poor	Poor	Rot in trunk, metal wire going through trunk	Remove - Construction	Remove to facilitate construction
164	<i>Acer negundo</i>	Manitoba maple	30.0	32.0	-	-	-	5.0	Fair	Good	Good	Good	Union above grade	Remove - Construction	Remove to facilitate construction
165	<i>Malus sp.</i>	apple sp.	37.0	-	-	-	-	5.0	-	-	-	Dead	Rot in trunk, metal wire going through trunk	Remove - Hazard	Tree is dead
166	<i>Malus sp.</i>	apple sp.	41.0	-	-	-	-	5.0	Poor	Poor	Fair	Poor	Rot in trunk, metal wire going through trunk	Remove - Construction	Remove to facilitate construction
167	<i>Malus sp.</i>	apple sp.	28.0	-	-	-	-	3.0	Poor	Poor	Fair	Poor	Rot in trunk, metal wire going through trunk	Remove - Construction	Remove to facilitate construction
168	<i>Malus sp.</i>	apple sp.	48.0	20.0	-	-	-	3.0	Poor	Fair	Fair	Fair	Rot in trunk, metal wire going through trunk	Remove - Construction	Remove to facilitate construction
169	<i>Malus sp.</i>	apple sp.	28.0	-	-	-	-	3.0	Poor	Fair	Fair	Fair	Rot in trunk, metal wire going through trunk	Remove - Construction	Remove to facilitate construction
170	<i>Malus sp.</i>	apple sp.	22.0	-	-	-	-	3.0	Poor	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
171	-	-	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
172	<i>Malus sp.</i>	apple sp.	55.0	-	-	-	-	3.0	Poor	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
173	<i>Malus sp.</i>	apple sp.	20.0	25.0	-	-	-	3.0	Poor	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
174	<i>Malus sp.</i>	apple sp.	26.0	-	-	-	-	3.0	Poor	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
175	<i>Malus sp.</i>	apple sp.	55.0	-	-	-	-	3.0	Poor	Fair	Fair	Fair	Metal wire through the trunk, rot	Remove - Construction	Remove to facilitate construction
176	<i>Malus sp.</i>	apple sp.	50.0	20.0	20.0	-	-	3.0	Poor	Fair	Fair	Fair	Metal wire screwed into trunk	Remove - Construction	Remove to facilitate construction
177	<i>Malus sp.</i>	apple sp.	23.0	-	-	-	-	3.0	Poor	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
178	<i>Malus sp.</i>	apple sp.	56.0	-	-	-	-	7.0	Poor	Fair	Fair	Fair	Metal wire	Remove - Construction	Remove to facilitate construction
179	<i>Malus sp.</i>	apple sp.	20.0	-	-	-	-	2.0	Poor	Fair	Fair	Fair	Trunk rot, die back	Remove - Construction	Remove to facilitate construction
180	<i>Malus sp.</i>	apple sp.	45.0	-	-	-	-	2.0	Poor	Fair	Poor	Fair	Trunk rot, die back	Remove - Construction	Remove to facilitate construction
181	<i>Malus sp.</i>	apple sp.	54.0	-	-	-	-	2.0	Poor	Fair	Poor	Fair	Metal wire	Remove - Construction	Remove to facilitate construction
182	<i>Malus sp.</i>	apple sp.	23.0	10.0	-	-	-	3.0	Fair	Fair	Fair	Fair	Union below grade	Remove - Construction	Remove to facilitate construction
183	<i>Malus sp.</i>	apple sp.	54.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair	Metal wire	Remove - Construction	Remove to facilitate construction
184	<i>Malus sp.</i>	apple sp.	54.0	20.0	10.0	-	-	6.0	Fair	Fair	Fair	Fair	Metal wire, union below grade	Remove - Construction	Remove to facilitate construction
185	<i>Malus sp.</i>	apple sp.	54.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair	Metal wire, union below grade	Remove - Construction	Remove to facilitate construction
186	<i>Malus sp.</i>	apple sp.	22.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair	Metal wire, union below grade	Remove - Construction	Remove to facilitate construction
187	<i>Malus sp.</i>	apple sp.	54.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
187A	<i>Malus sp.</i>	apple sp.	23.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
188	<i>Malus sp.</i>	apple sp.	23.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
189	<i>Malus sp.</i>	apple sp.	58.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair	Major branch snapped off	Remove - Construction	Remove to facilitate construction
189	<i>Malus sp.</i>	apple sp.	60.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
190	<i>Malus sp.</i>	apple sp.	23.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
190	<i>Malus sp.</i>	apple sp.	60.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
191	<i>Malus sp.</i>	apple sp.	60.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
192	<i>Malus sp.</i>	apple sp.	20.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
193	<i>Malus sp.</i>	apple sp.	60.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
194	<i>Malus sp.</i>	apple sp.	50.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
195	<i>Fraxinus sp.</i>	ash sp.	30.0	30.0	-	-	-	6.0	Poor	Poor	Poor	Poor	Union above grade, EAB signs	Remove - Construction	Remove to facilitate construction
196	<i>Malus sp.</i>	apple sp.	22.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
197	<i>Malus sp.</i>	apple sp.	41.0	-	-	-	-	5.0	Poor	Poor	Poor	Poor	Rot in trunk, metal wire going through trunk	Remove - Construction	Remove to facilitate construction
198	<i>Malus sp.</i>	apple sp.	22.0	-	-	-	-	3.0	Poor	Poor	Poor	Poor	Rot in trunk, metal wire going through trunk	Remove - Construction	Remove to facilitate construction
199	<i>Malus sp.</i>	apple sp.	50.0	-	-	-	-	5.0	Poor	Poor	Poor	Poor	Rot in trunk, metal wire going through trunk	Remove - Construction	Remove to facilitate construction
200	<i>Malus sp.</i>	apple sp.	25.0	-	-	-	-	5.0	Poor	Poor	Poor	Poor		Remove - Construction	Remove to facilitate construction
201	<i>Malus sp.</i>	apple sp.	50.0	-	-	-	-	5.0	Poor	Poor	Poor	Poor	Rot in trunk, metal wire going through trunk	Remove - Construction	Remove to facilitate construction
202	<i>Fraxinus sp.</i>	ash sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
203	-	-	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
204	<i>Malus sp.</i>	apple sp.	33.0	-	-	-	-	5.0	Good	Poor	Poor	Poor		Remove - Construction	Remove to facilitate construction
205	<i>Malus sp.</i>	apple sp.	20.0	-	-	-	-	2.0	Good	Poor	Poor	Poor		Remove - Construction	Remove to facilitate construction
205A	<i>Malus sp.</i>	apple sp.	38.0	-	-	-	-	2.0	Good	Poor	Poor	Poor		Remove - Construction	Remove to facilitate construction
206	<i>Malus sp.</i>	apple sp.	38.0	-	-	-	-	2.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
207	<i>Malus sp.</i>	apple sp.	24.0	-	-	-	-	2.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction

TABLE A. Detailed Tree Inventory, Wagner Property, City of London, Ontario

Project Number: 161413921

Data collected: June 18, 2020

Tag # / Tree ID for trees <10cm DBH	Botanical Name	Common Name	DBH (cm)					Dripline Radius (m)	Condition				Comments	Action	Removal/Injury Justification
			Stem 1	Stem 2	Stem 3	Stem 4	Stem 5		Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition			
208	Malus sp.	apple sp.	33.0	-	-	-	-	3.0	Good	Fair	Poor	Poor	Major dieback	Remove - Construction	Remove to facilitate construction
209	Malus sp.	apple sp.	24.0	-	-	-	-	2.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
210	Malus sp.	apple sp.	24.0	-	-	-	-	2.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
211	Malus sp.	apple sp.	24.0	-	-	-	-	2.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
212	Malus sp.	apple sp.	24.0	-	-	-	-	4.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
213	Malus sp.	apple sp.	24.0	-	-	-	-	4.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
214	Malus sp.	apple sp.	28.0	-	-	-	-	4.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
215	Malus sp.	apple sp.	28.0	20.0	17.0	-	-	4.0	Poor	Fair	Fair	Poor	Rot	Remove - Construction	Remove to facilitate construction
216	Malus sp.	apple sp.	34.0	-	-	-	-	4.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
217	Malus sp.	apple sp.	12.0	10.0	-	-	-	2.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
218	Malus sp.	apple sp.	22.0	-	-	-	-	5.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
219	Malus sp.	apple sp.	30.0	-	-	-	-	5.0	Good	Fair	Fair	Fair	Broken scaffolds, dieback	Remove - Construction	Remove to facilitate construction
220	Malus sp.	apple sp.	30.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair	Rot trunk	Remove - Construction	Remove to facilitate construction
221	Malus sp.	apple sp.	30.0	-	-	-	-	3.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
222	Malus sp.	apple sp.	20.0	-	-	-	-	3.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
223	Malus sp.	apple sp.	25.0	-	-	-	-	3.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
224	Malus sp.	apple sp.	40.0	-	-	-	-	3.0	Good	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
241	Rhamnus cathartica	European buckthorn	10.0	-	-	-	-	1.0	Good	Good	Good	Good		Remove - Invasive	Invasive Species
242	Malus sp.	apple sp.	24.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
243	Malus sp.	apple sp.	56.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair	Condominant, one Leader snapped off	Remove - Construction	Remove to facilitate construction
244	Malus sp.	apple sp.	24.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
245	Malus sp.	apple sp.	55.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
246	Malus sp.	apple sp.	55.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
247	Malus sp.	apple sp.	55.0	20.0	20.0	12.0	-	6.0	Fair	Fair	Fair	Fair	Union below grade	Remove - Construction	Remove to facilitate construction
248	Malus sp.	apple sp.	22.0	-	-	-	-	4.0	Fair	Fair	Fair	Fair	Union below grade	Remove - Construction	Remove to facilitate construction
249	Malus sp.	apple sp.	55.0	22.0	20.0	-	-	6.0	Fair	Fair	Fair	Fair	Union below grade	Remove - Construction	Remove to facilitate construction
250	Malus sp.	apple sp.	24.0	-	-	-	-	4.0	Fair	Fair	Fair	Fair	Union below grade	Remove - Construction	Remove to facilitate construction
251	Malus sp.	apple sp.	55.0	20.0	18.0	-	-	6.0	Fair	Fair	Fair	Fair	Union below grade, rot	Remove - Construction	Remove to facilitate construction
252	Malus sp.	apple sp.	55.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair	Union below grade, rot	Remove - Construction	Remove to facilitate construction
253	Malus sp.	apple sp.	55.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair	Union below grade, rot	Remove - Construction	Remove to facilitate construction
253A	Malus sp.	apple sp.	29.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
253B	Malus sp.	apple sp.	29.0	30.0	15.0	-	-	6.0	Fair	Fair	Fair	Fair	Union below grade, rot in trunk	Remove - Construction	Remove to facilitate construction
255	Malus sp.	apple sp.	29.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
256	Malus sp.	apple sp.	29.0	30.0	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
257	Malus sp.	apple sp.	29.0	24.0	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
258	Malus sp.	apple sp.	29.0	24.0	11.0	-	-	6.0	Fair	Fair	Fair	Fair	Union below grade, rot	Remove - Construction	Remove to facilitate construction
259	Malus sp.	apple sp.	29.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
259A	Malus sp.	apple sp.	55.0	-	-	-	-	8.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
260	Malus sp.	apple sp.	55.0	-	-	-	-	8.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
261	Malus sp.	apple sp.	20.0	-	-	-	-	4.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
262	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
263	Malus sp.	apple sp.	20.0	-	-	-	-	2.0	Fair	Fair	Poor	Poor	Rot in trunk	Remove - Construction	Remove to facilitate construction
264	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
265	Malus sp.	apple sp.	33.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
266	Malus sp.	apple sp.	50.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
267	Malus sp.	apple sp.	23.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair	Rot	Remove - Construction	Remove to facilitate construction
268	Malus sp.	apple sp.	23.0	20.0	33.0	-	-	3.0	Fair	Fair	Fair	Fair	Rot, leader pruned odd	Remove - Construction	Remove to facilitate construction
270	Malus sp.	apple sp.	23.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair	Rot	Remove - Construction	Remove to facilitate construction
271	Malus sp.	apple sp.	55.0	-	-	-	-	3.0	Fair	Poor	Poor	Poor	Rot, one leader dead	Remove - Construction	Remove to facilitate construction
272	Malus sp.	apple sp.	22.0	-	-	-	-	3.0	Fair	Poor	Poor	Fair	Rot, one leader dead	Remove - Construction	Remove to facilitate construction
273	Malus sp.	apple sp.	40.0	-	-	-	-	3.0	Fair	Poor	Poor	Fair		Remove - Construction	Remove to facilitate construction
273A	Malus sp.	apple sp.	22.0	-	-	-	-	3.0	Fair	Poor	Poor	Fair		Remove - Construction	Remove to facilitate construction
274	Malus sp.	apple sp.	22.0	20.0	30.0	-	-	3.0	Fair	Poor	Poor	Fair	Rot in trunk, one leader pruned	Remove - Construction	Remove to facilitate construction
275	Malus sp.	apple sp.	22.0	20.0	30.0	19.0	-	7.0	Fair	Poor	Poor	Fair	Rot in trunk, one leader pruned	Remove - Construction	Remove to facilitate construction
276	Malus sp.	apple sp.	22.0	-	-	-	-	5.0	Fair	Poor	Poor	Fair		Remove - Construction	Remove to facilitate construction
277	Malus sp.	apple sp.	60.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
278	Malus sp.	apple sp.	38.0	10.0	-	-	-	7.0	Fair	Fair	Fair	Fair	Union below grade	Remove - Construction	Remove to facilitate construction
279	Malus sp.	apple sp.	55.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair	Union below grade	Remove - Construction	Remove to facilitate construction
280	Malus sp.	apple sp.	55.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair	Union above grade	Remove - Construction	Remove to facilitate construction
280A	Malus sp.	apple sp.	23.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
281	Malus sp.	apple sp.	55.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
282	Malus sp.	apple sp.	28.0	-	-	-	-	7.0	Fair	Fair	Poor	Poor	Dieback	Remove - Construction	Remove to facilitate construction
283	Malus sp.	apple sp.	60.0	-	-	-	-	7.0	Fair	Fair	Poor	Poor	Dieback	Remove - Construction	Remove to facilitate construction
284	Malus sp.	apple sp.	28.0	-	-	-	-	3.0	Fair	Fair	Poor	Poor	Dieback	Remove - Construction	Remove to facilitate construction
285	Malus sp.	apple sp.	60.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair	Dieback	Remove - Construction	Remove to facilitate construction
286	Malus sp.	apple sp.	28.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
287	Malus sp.	apple sp.	60.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
288	Malus sp.	apple sp.	28.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
289	Malus sp.	apple sp.	60.0	10.0	-	-	-	7.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
290	Malus sp.	apple sp.	10.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
291	Malus sp.	apple sp.	60.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction

TABLE A. Detailed Tree Inventory, Wagner Property, City of London, Ontario

Project Number: 161413921

Data collected: June 18, 2020

Tag # / Tree ID for trees <10cm DBH	Botanical Name	Common Name	DBH (cm)					Dripline Radius (m)	Condition				Comments	Action	Removal/Injury Justification
			Stem 1	Stem 2	Stem 3	Stem 4	Stem 5		Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition			
292	Malus sp.	apple sp.	24.0	23.0	-	-	-	7.0	Fair	Fair	Fair	Fair	Rot in trunk, union above grade	Remove - Construction	Remove to facilitate construction
293	Malus sp.	apple sp.	55.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
294	Malus sp.	apple sp.	30.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
295	Malus sp.	apple sp.	55.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
296	Malus sp.	apple sp.	23.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
297	Malus sp.	apple sp.	55.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
298	Malus sp.	apple sp.	23.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
299	Malus sp.	apple sp.	55.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
300	Malus sp.	apple sp.	26.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
301	Malus sp.	apple sp.	10.0	18.0	20.0	33.0	10.0	6.0	Poor	Fair	Fair	Fair	Union below grade, rot in trunk	Remove - Construction	Remove to facilitate construction
302	Malus sp.	apple sp.	26.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
303	Malus sp.	apple sp.	10.0	18.0	20.0	33.0	10.0	6.0	Poor	Fair	Fair	Fair	Union below grade, rot in trunk	Remove - Construction	Remove to facilitate construction
304	Malus sp.	apple sp.	33.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
305	Malus sp.	apple sp.	33.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
306	Malus sp.	apple sp.	33.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
307	Malus sp.	apple sp.	37.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
308	Malus sp.	apple sp.	26.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
309	Malus sp.	apple sp.	33.0	12.0	10.0	10.0	-	5.0	Fair	Fair	Fair	Fair	Rot in trunk, union below grade	Remove - Construction	Remove to facilitate construction
310	Malus sp.	apple sp.	28.0	-	-	-	-	4.0	Fair	Fair	Fair	Fair	Rot in trunk	Remove - Construction	Remove to facilitate construction
310A	Malus sp.	apple sp.	35.0	-	-	-	-	4.0	Poor	Fair	Fair	Poor	Rot in trunk	Remove - Construction	Remove to facilitate construction
311	Malus sp.	apple sp.	35.0	-	-	-	-	4.0	Poor	Poor	Poor	Poor	Rot in trunk, dieback	Remove - Construction	Remove to facilitate construction
312	Malus sp.	apple sp.	35.0	-	-	-	-	4.0	Fair	Poor	Fair	Fair	Rot in trunk, dieback	Remove - Construction	Remove to facilitate construction
313	Malus sp.	apple sp.	39.0	10.0	-	-	-	7.0	Fair	Poor	Fair	Fair	Rot in trunk, union below grade	Remove - Construction	Remove to facilitate construction
314	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
315	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
316	Malus sp.	apple sp.	16.0	-	-	-	-	2.0	Fair	Poor	Poor	Poor	Dieback, leader pruned off	Remove - Construction	Remove to facilitate construction
317	Malus sp.	apple sp.	22.0	-	-	-	-	2.0	Fair	Poor	Poor	Poor	Dieback, leader pruned off	Remove - construction	
318	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
319	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
320	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
321	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
322	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
323	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
324	Malus sp.	apple sp.	33.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - construction	
325	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
326	Malus sp.	apple sp.	33.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
327	Malus sp.	apple sp.	33.0	-	-	-	-	5.0	Fair	Fair	Fair	Poor	Major dieback	Remove - Construction	Remove to facilitate construction
328	Malus sp.	apple sp.	33.0	-	-	-	-	5.0	Fair	Fair	Fair	Poor	Major dieback	Remove - Construction	Remove to facilitate construction
329	Malus sp.	apple sp.	25.0	-	-	-	-	3.0	Fair	Fair	Fair	Poor	Major dieback	Remove - Construction	Remove to facilitate construction
330	Malus sp.	apple sp.	25.0	18.0	-	-	-	3.0	Fair	Fair	Fair	Fair	Major dieback	Remove - Construction	Remove to facilitate construction
331	Malus sp.	apple sp.	25.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair	Major dieback	Remove - Construction	Remove to facilitate construction
332	Malus sp.	apple sp.	25.0	-	-	-	-	3.0	Fair	Poor	Poor	Poor	Major dieback	Remove - Construction	Remove to facilitate construction
333	Malus sp.	apple sp.	34.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair	Major dieback	Remove - Construction	Remove to facilitate construction
334	Malus sp.	apple sp.	34.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
335	Malus sp.	apple sp.	33.0	-	-	-	-	3.0	Fair	Poor	Poor	Poor	Major dieback	Remove - Construction	Remove to facilitate construction
336	Malus sp.	apple sp.	34.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
337	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
338	Malus sp.	apple sp.	39.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
339	Malus sp.	apple sp.	30.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
340	Malus sp.	apple sp.	34.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
341	Malus sp.	apple sp.	34.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
342	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
344	Malus sp.	apple sp.	28.0	-	-	-	-	4.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
345	Malus sp.	apple sp.	37.0	-	-	-	-	4.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
346	Malus sp.	apple sp.	50.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
347	Malus sp.	apple sp.	38.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
348	Malus sp.	apple sp.	55.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
349	Malus sp.	apple sp.	20.0	-	-	-	-	2.0	Fair	Poor	Fair	Poor	Dieback	Remove - Construction	Remove to facilitate construction
350	Malus sp.	apple sp.	55.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
351	Malus sp.	apple sp.	38.0	-	-	-	-	4.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
352	Malus sp.	apple sp.	55.0	-	-	-	-	4.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
353	Malus sp.	apple sp.	55.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
354	Malus sp.	apple sp.	55.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
355	Malus sp.	apple sp.	23.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
357	Malus sp.	apple sp.	38.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
358	Malus sp.	apple sp.	44.0	-	-	-	-	7.0	Fair	Poor	Poor	Poor	Dieback	Remove - Construction	Remove to facilitate construction
359	Malus sp.	apple sp.	38.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
360	Malus sp.	apple sp.	48.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
361	Malus sp.	apple sp.	22.0	-	-	-	-	2.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
362	Malus sp.	apple sp.	60.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
363	Malus sp.	apple sp.	60.0	-	-	-	-	6.0	Poor	Fair	Fair	Poor	Rot	Remove - construction	

TABLE A. Detailed Tree Inventory, Wagner Property, City of London, Ontario

Project Number: 161413921

Data collected: June 18, 2020

Tag # / Tree ID for trees <10cm DBH	Botanical Name	Common Name	DBH (cm)					Dripline Radius (m)	Condition				Comments	Action	Removal/Injury Justification
			Stem 1	Stem 2	Stem 3	Stem 4	Stem 5		Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition			
364	Malus sp.	apple sp.	34.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair	Rot	Remove - construction	
365	Malus sp.	apple sp.	45.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - construction	
366	Malus sp.	apple sp.	30.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - construction	
367	Malus sp.	apple sp.	44.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - Construction	
368	Morus alba	white mulberry	40.0	-	-	-	-	6.0	Good	Good	Good	Good		Remove - Construction	
369	Malus sp.	apple sp.	44.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair		Remove - Construction	
370	Malus sp.	apple sp.	30.0	-	-	-	-	4.0	Fair	Fair	Fair	Fair		Remove - Construction	
371	Malus sp.	apple sp.	25.0	-	-	-	-	4.0	Fair	Fair	Fair	Fair		Remove - Construction	
372	Malus sp.	apple sp.	44.0	-	-	-	-	4.0	Fair	Poor	Fair	Fair	Dieback	Remove - Construction	
373	Malus sp.	apple sp.	19.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	
374	Malus sp.	apple sp.	44.0	-	-	-	-	4.0	Fair	Fair	Fair	Fair		Remove - Construction	
375	Malus sp.	apple sp.	44.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
376	Malus sp.	apple sp.	23.0	-	-	-	-	4.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
377	Malus sp.	apple sp.	44.0	-	-	-	-	5.0	Poor	Poor	Fair	Poor	Cavity in trunk, dieback	Remove - Construction	Remove to facilitate construction
378	Malus sp.	apple sp.	55.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
379	Malus sp.	apple sp.	33.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
380	Malus sp.	apple sp.	55.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
381	Malus sp.	apple sp.	28.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
382	Malus sp.	apple sp.	45.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
383	Malus sp.	apple sp.	60.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
384	Malus sp.	apple sp.	19.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
385	Malus sp.	apple sp.	60.0	-	-	-	-	7.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
386	Malus sp.	apple sp.	19.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
387	Malus sp.	apple sp.	49.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
388	Malus sp.	apple sp.	60.0	-	-	-	-	6.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
389	Juglans nigra	black walnut	20.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
390	Malus pumila	common apple	55.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
391	Malus pumila	common apple	55.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
392	Morus alba	white mulberry	23.0	-	-	-	-	7.0	Poor	Fair	Good	Good	Crack in trunk	Remove - Construction	Remove to facilitate construction
393	Malus pumila	common apple	55.0	-	-	-	-	4.0	Poor	Poor	Fair	Poor	Dieback	Remove - Construction	Remove to facilitate construction
394	Malus pumila	common apple	40.0	-	-	-	-	4.0	Fair	Fair	Fair	Fair	Dieback	Remove - Construction	Remove to facilitate construction
394A	Malus pumila	common apple	29.0	-	-	-	-	3.0	Poor	Poor	Fair	Poor	Dieback	Remove - Construction	Remove to facilitate construction
395	Malus pumila	common apple	33.0	-	-	-	-	3.0	Poor	Poor	Fair	Poor	Dieback	Remove - Construction	Remove to facilitate construction
396	Juglans nigra	black walnut	10.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
397	Malus pumila	common apple	33.0	-	-	-	-	3.0	Poor	Poor	Fair	Poor	Dieback	Remove - Construction	Remove to facilitate construction
398	Malus sp.	apple sp.	28.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
399	Malus sp.	apple sp.	33.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
400	Malus sp.	apple sp.	44.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
401	Morus alba	white mulberry	24.0	-	-	-	-	3.0	Fair	Fair	Poor	Poor	Small cavity, stunted leaves	Remove - Construction	Remove to facilitate construction
402	Malus sp.	apple sp.	36.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
403	Prunus sp.	cherry species	30.0	-	-	-	-	6.0	Fair	Fair	Good	Fair	Dieback	Remove - Construction	Remove to facilitate construction
404	Juglans nigra	black walnut	9.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
405	Juglans nigra	black walnut	15.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
406	Malus sp.	apple sp.	45.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
407	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
408	Malus sp.	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
409	Malus sp.	apple sp.	30.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
410	Malus sp.	apple sp.	30.0	-	-	-	-	3.0	Fair	Poor	Fair	Poor	Dieback	Remove - Construction	Remove to facilitate construction
411	Morus alba	white mulberry	22.0	-	-	-	-	3.0	Fair	Good	Good	Fair	Cavity in trunk	Remove - Construction	Remove to facilitate construction
412	Malus sp.	apple sp.	30.0	-	-	-	-	3.0	Fair	Poor	Fair	Poor	Dieback	Remove - Construction	Remove to facilitate construction
413	Morus alba	white mulberry	25.0	-	-	-	-	3.0	Fair	Good	Good	Fair	Cavity in trunk	Remove - Construction	Remove to facilitate construction
414	Malus sp.	apple sp.	30.0	-	-	-	-	3.0	Fair	Poor	Fair	Poor	Dieback	Remove - Construction	Remove to facilitate construction
415	Malus sp.	apple sp.	27.0	-	-	-	-	3.0	Fair	Poor	Fair	Poor	Dieback	Remove - Construction	Remove to facilitate construction
416	Rhamnus cathartica	European buckthorn	18.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Invasive	Invasive Species
417	Malus sp.	apple sp.	27.0	20.0	-	-	-	3.0	Fair	Poor	Fair	Poor	Dieback	Remove - Construction	Remove to facilitate construction
418	Morus alba	white mulberry	28.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
419	Malus sp.	apple sp.	55.0	-	-	-	-	3.0	Poor	Poor	Fair	Poor	Dieback, large cavity in base of Trunk	Remove - Construction	Remove to facilitate construction
420	Morus alba	white mulberry	26.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
421	Malus sp.	apple sp.	55.0	-	-	-	-	3.0	Poor	Poor	Fair	Poor	Dieback, large cavity in base of Trunk	Remove - Construction	Remove to facilitate construction
422	Malus sp.	apple sp.	30.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
423	Ulmus americana	white elm	30.0	-	-	-	-	6.0	Good	Fair	Good	Good		Remove - Construction	Remove to facilitate construction
424	Juglans nigra	black walnut	17.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
425	Juglans nigra	black walnut	17.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
426	Malus sp.	apple sp.	60.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
427	Morus alba	white mulberry	26.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
428	Malus sp.	apple sp.	28.0	-	-	-	-	3.0	Fair	Poor	Fair	Poor	Dieback	Remove - Construction	Remove to facilitate construction
429	Malus sp.	apple sp.	28.0	-	-	-	-	3.0	Fair	Poor	Fair	Poor	Dieback, broken branch	Remove - Construction	Remove to facilitate construction
430	Malus sp.	apple sp.	30.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair		Remove - Construction	Remove to facilitate construction
431	Malus sp.	apple sp.	30.0	-	-	-	-	3.0	Poor	Fair	Fair	Fair	Broken branch, cavity	Remove - Construction	Remove to facilitate construction
432	Malus sp.	apple sp.	30.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair	Rot	Remove - Construction	Remove to facilitate construction
433	Malus sp.	apple sp.	27.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair	Rot	Remove - Construction	Remove to facilitate construction

TABLE A. Detailed Tree Inventory, Wagner Property, City of London, Ontario

Project Number: 161413921

Data collected: June 18, 2020

Tag # / Tree ID for trees <10cm DBH	Botanical Name	Common Name	DBH (cm)					Dripline Radius (m)	Condition				Comments	Action	Removal/Injury Justification
			Stem 1	Stem 2	Stem 3	Stem 4	Stem 5		Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition			
434	Malus sp.	apple sp.	30.0	-	-	-	-	3.0	Poor	Poor	Fair	Poor	Rot, dead leader	Remove - Construction	Remove to facilitate construction
435	Malus sp.	apple sp.	30.0	-	-	-	-	3.0	Poor	Poor	Fair	Poor	Rot	Remove - Construction	Remove to facilitate construction
436	Morus alba	white mulberry	28.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
437	Malus sp.	apple sp.	40.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair	Rot	Remove - Construction	Remove to facilitate construction
438	Malus sp.	apple sp.	25.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair	Rot	Remove - Construction	Remove to facilitate construction
439	Morus alba	white mulberry	28.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
440	Malus sp.	apple sp.	55.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair	Rot	Remove - Construction	Remove to facilitate construction
441	-	-	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
442	Juglans nigra	black walnut	10.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
443	Malus sp.	apple sp.	55.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair	Rot	Remove - Construction	Remove to facilitate construction
443A	Prunus sp.	cherry species	14.0	-	-	-	-	1.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
444	Prunus sp.	cherry species	38.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair	Rot	Remove - Construction	Remove to facilitate construction
445	Prunus sp.	cherry species	38.0	-	-	-	-	5.0	Fair	Fair	Fair	Fair	Rot	Remove - Construction	Remove to facilitate construction
446	-	-	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
447	Juglans nigra	black walnut	30.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
448	Malus sp.	apple sp.	28.0	-	-	-	-	3.0	Fair	Fair	Fair	Fair	Broken branches	Remove - Construction	Remove to facilitate construction
449	-	-	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
450	Juglans nigra	black walnut	26.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
451	Malus sp.	apple sp.	38.0	-	-	-	-	4.0	Fair	Good	Good	Good		Remove - Construction	Remove to facilitate construction
452	Rhamnus cathartica	European buckthorn	20.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Invasive	Invasive Species
453	Malus sp.	apple sp.	38.0	-	-	-	-	4.0	Fair	Good	Good	Fair		Remove - Construction	Remove to facilitate construction
454	Juglans nigra	black walnut	26.0	26.0	-	-	-	6.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
455	Juglans nigra	black walnut	26.0	10.0	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
456	Malus sp.	apple sp.	19.0	10.0	-	-	-	1.0	Good	Poor	Poor	Poor	Union below grade, vine covered	Remove - Construction	Remove to facilitate construction
458	Juglans nigra	black walnut	26.0	10.0	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
459	Juglans nigra	black walnut	30.0	-	-	-	-	2.5	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
460	Juglans nigra	black walnut	30.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
461	Malus sp.	apple sp.	38.0	-	-	-	-	4.0	Fair	Good	Fair	Good		Remove - Construction	Remove to facilitate construction
462	Malus sp.	apple sp.	50.0	-	-	-	-	4.0	Poor	Poor	Poor	Poor	Cavity, dieback	Remove - Construction	Remove to facilitate construction
463	Juglans nigra	black walnut	20.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
464	Juglans nigra	black walnut	20.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
465	Juglans nigra	black walnut	20.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
466	Juglans nigra	black walnut	20.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
467	Juglans nigra	black walnut	20.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
468	Juglans nigra	black walnut	30.0	-	-	-	-	6.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
469	Juglans nigra	black walnut	30.0	-	-	-	-	6.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
470	Juglans nigra	black walnut	20.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
471	Malus sp.	apple sp.	50.0	-	-	-	-	3.0	Poor	Fair	Poor	Poor	Rot, dead leader, broken branches	Remove - Construction	Remove to facilitate construction
472	-	-	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
473	Malus sp.	apple sp.	38.0	-	-	-	-	5.0	Poor	Poor	Poor	Poor	Pest damage, rot, cavity	Remove - Construction	Remove to facilitate construction
474	Juglans nigra	black walnut	25.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
475	Juglans nigra	black walnut	25.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
476	Juglans nigra	black walnut	20.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
477	Juglans nigra	black walnut	20.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
478	Juglans nigra	black walnut	10.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
479	Juglans nigra	black walnut	10.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
480	Juglans nigra	black walnut	16.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
481	Juglans nigra	black walnut	23.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
482	Juglans nigra	black walnut	28.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
483	Juglans nigra	black walnut	28.0	-	-	-	-	4.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
484	Juglans nigra	black walnut	11.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
485	Juglans nigra	black walnut	17.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
486	Juglans nigra	black walnut	25.0	-	-	-	-	4.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
487	Juglans nigra	black walnut	14.0	-	-	-	-	4.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
488	Juglans nigra	black walnut	23.0	-	-	-	-	4.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
489	Juglans nigra	black walnut	9.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
490	Juglans nigra	black walnut	9.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
491	Juglans nigra	black walnut	18.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
493	Juglans nigra	black walnut	33.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
495	Juglans nigra	black walnut	11.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
496	Juglans nigra	black walnut	28.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
497	Juglans nigra	black walnut	28.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
498	Juglans nigra	black walnut	28.0	30.0	26.0	-	-	5.0	Good	Good	Good	Good	Union above grade	Remove - Construction	Remove to facilitate construction
499	Juglans nigra	black walnut	28.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
500	Juglans nigra	black walnut	28.0	-	-	-	-	5.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
501	Juglans nigra	black walnut	15.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
502	Juglans nigra	black walnut	10.0	15.0	13.0	-	-	1.0	Poor	Fair	Poor	Poor	Dieback, rot trunk	Remove - Construction	Remove to facilitate construction
503	Juglans nigra	black walnut	22.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
504	Juglans nigra	black walnut	22.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
505	Juglans nigra	black walnut	40.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
506	Juglans nigra	black walnut	22.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction

TABLE A. Detailed Tree Inventory, Wagner Property, City of London, Ontario

Project Number: 161413921

Data collected: June 18, 2020

Tag # / Tree ID for trees <10cm DBH	Botanical Name	Common Name	DBH (cm)					Dripline Radius (m)	Condition				Comments	Action	Removal/Injury Justification
			Stem 1	Stem 2	Stem 3	Stem 4	Stem 5		Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition			
507	<i>Juglans nigra</i>	black walnut	22.0	10.0	-	-	-	3.0	Good	Good	Good	Good	Union above grade	Remove - Construction	Remove to facilitate construction
508	<i>Juglans nigra</i>	black walnut	14.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
509	<i>Juglans nigra</i>	black walnut	37.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
510	<i>Juglans nigra</i>	black walnut	37.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
511	<i>Juglans nigra</i>	black walnut	37.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
512	<i>Juglans nigra</i>	black walnut	48.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
513	<i>Juglans nigra</i>	black walnut	43.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
514	<i>Juglans nigra</i>	black walnut	43.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
515	<i>Juglans nigra</i>	black walnut	30.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
515A	<i>Juglans nigra</i>	black walnut	37.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
516	<i>Juglans nigra</i>	black walnut	42.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
517	<i>Juglans nigra</i>	black walnut	27.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
518	-	-	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
519	<i>Prunus serotina</i>	black cherry	60.0	-	-	-	-	8.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
520	<i>Juglans nigra</i>	black walnut	10.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
521	<i>Juglans nigra</i>	black walnut	27.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
522	<i>Juglans nigra</i>	black walnut	33.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
523	<i>Juglans nigra</i>	black walnut	33.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
524	<i>Juglans nigra</i>	black walnut	14.0	-	-	-	-	4.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
525	<i>Juglans nigra</i>	black walnut	22.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
526	<i>Juglans nigra</i>	black walnut	33.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
527	<i>Juglans nigra</i>	black walnut	33.0	-	-	-	-	7.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
528	<i>Malus sp.</i>	apple sp.	50.0	-	-	-	-	5.0	Good	Good	Fair	Fair		Remove - Construction	Remove to facilitate construction
529	<i>Malus sp.</i>	apple sp.	48.0	-	-	-	-	1.0	Good	Poor	Fair	Fair	Dieback	Remove - Construction	Remove to facilitate construction
530	<i>Juglans nigra</i>	black walnut	21.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
531	<i>Juglans nigra</i>	black walnut	21.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
532	<i>Juglans nigra</i>	black walnut	10.0	-	-	-	-	3.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
533	<i>Juglans nigra</i>	black walnut	7.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Construction	Remove to facilitate construction
534	<i>Malus sp.</i>	apple sp.	50.0	-	-	-	-	2.0	Poor	Fair	Poor	Fair	Trunk rot, die back, cavity	Remove - Construction	Remove to facilitate construction
535	<i>Malus sp.</i>	apple sp.	38.0	-	-	-	-	2.0	Poor	Fair	Poor	Fair	Trunk rot, die back, cavity, leader topped off	Remove - Construction	Remove to facilitate construction
536	<i>Malus sp.</i>	apple sp.	27.0	-	-	-	-	2.0	Poor	Poor	Poor	Poor	Trunk rot, die back, cavity, leader topped off	Remove - Construction	Remove to facilitate construction
537	<i>Malus sp.</i>	apple sp.	-	-	-	-	-	-	-	-	-	Dead		Remove - Hazard	Tree is dead
538	<i>Rhamnus cathartica</i>	European buckthorn	12.0	-	-	-	-	2.0	Good	Good	Good	Good		Remove - Invasive	Invasive Species
539	<i>Malus sp.</i>	apple sp.	48.0	-	-	-	-	5.0	Fair	Fair	Good	Fair	Trunk rot	Preserve - Offsite	Approved for Removal by city for different project
540	<i>Malus sp.</i>	apple sp.	18.0	-	-	-	-	2.0	Fair	Good	Good	Fair		Preserve - Offsite	Approved for Removal by city for different project
541	<i>Rhamnus cathartica</i>	European buckthorn	10.0	-	-	-	-	2.0	Good	Good	Good	Good		Preserve - Offsite	Approved for Removal by city for different project

Table A. Tree Totals

1. 'Total 'Action' Trees



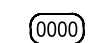


Protect - Hoarding:	0
Preserve - Off Site	3
Remove - Construction:	494
Remove - Hazard:	30
Remove - Invasive Species	6
Total:	533

APPENDIX B

Tree Management Plan, Drawings L-900 - L-907



Legend

	Existing Deciduous Tree
	Existing Deciduous Tree
	Tree to be Retained and Protected Identification Tag
	Tree to be Removed Identification Tag
	Tree Previously Approved for Removal

ISSUED OF DRAFT PLAN APPROVAL	By	Appd	2020.08.12
Revision/Issue	JJ	GG	YYYY.MM.DD
File Name: 161413921_L-1M	JJ	JJ	GG 2020.07.30
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

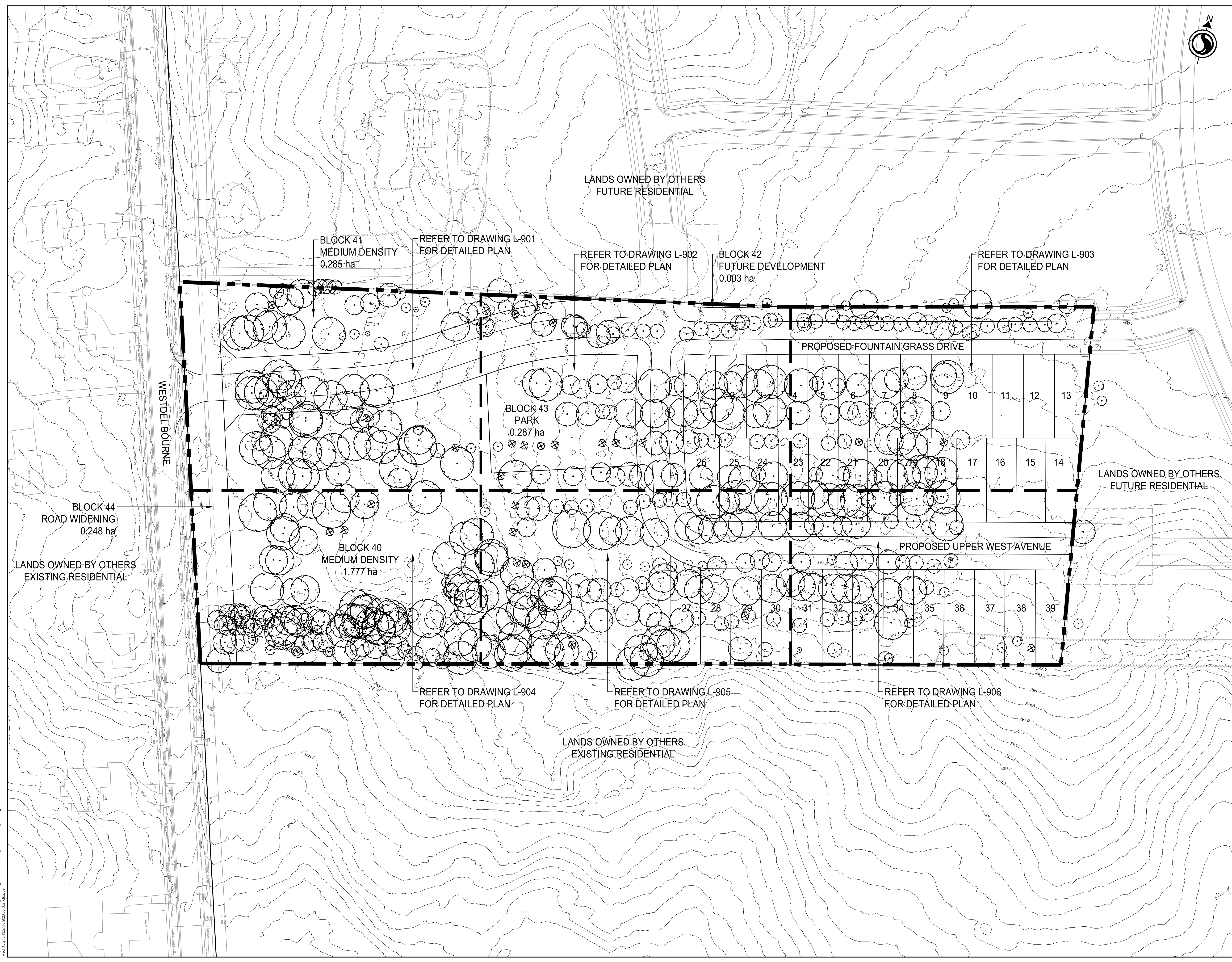
Permit-Seal

Client/Project
NORQUAY ORCHARD LAND CORP.

1478 WESTDEL BOURNE
(FORMERLY WAGNER PROPERTY)
LONDON, ON

Title
OVERALL TREE PRESERVATION PLAN

Project No. 161413921	Scale 1:750	0 7.5 22.5 37.5m
Revision Sheet 0 1 of 8	Drawing No. L-900	



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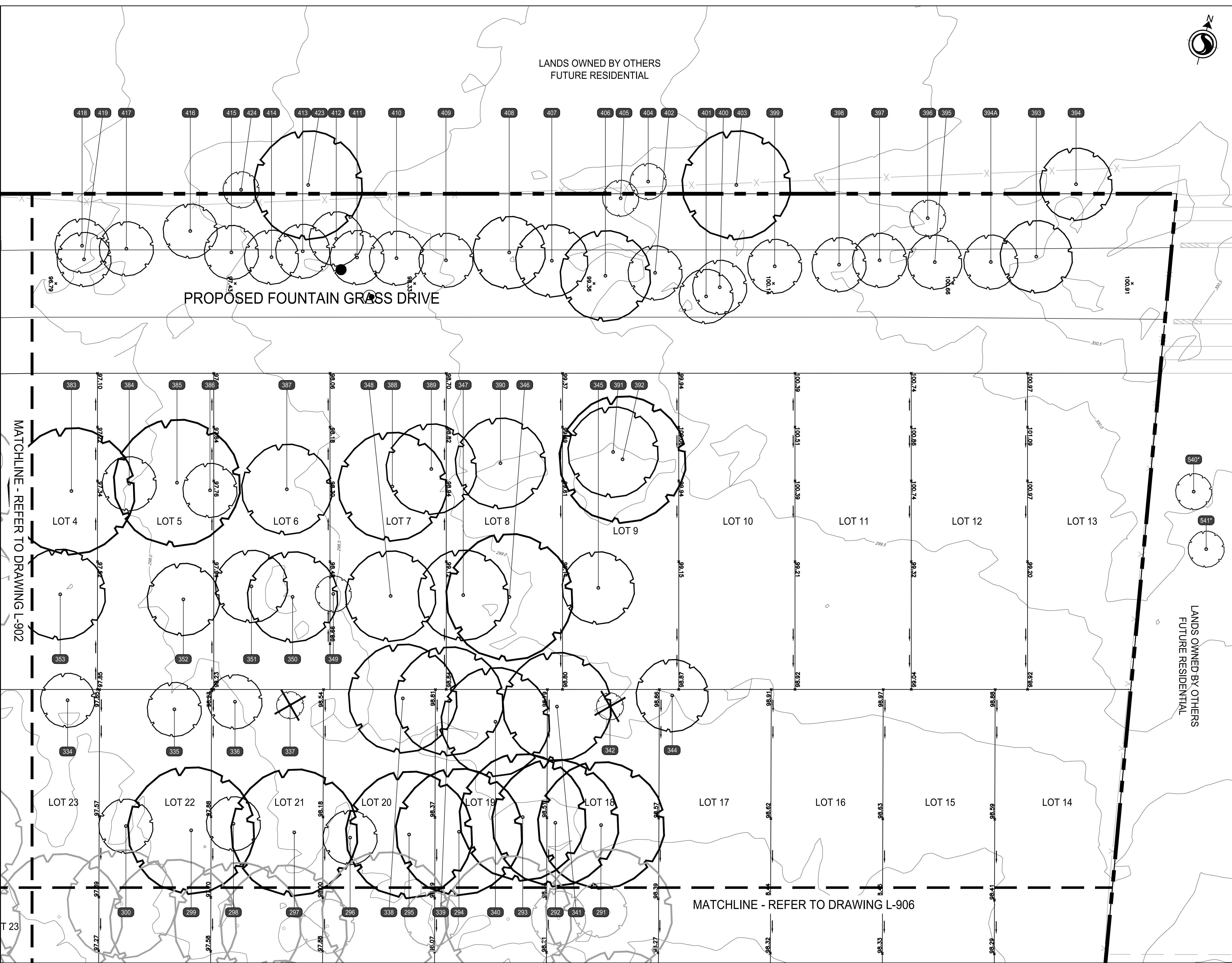
Stantec Consulting Ltd.
100-300 Hogey Boulevard
Waterloo ON N2L 0A4
Tel: (519) 579-4410
www.stantec.com

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Key Map NTS.



- Legend**
- Existing Deciduous Tree
 - Existing Deciduous Tree
 - Tree to be Retained and Protected Identification Tag
 - Tree to be Removed Identification Tag
 - Tree Previously Approved for Removal



Revision/Issue	By	Appd	2020.08.12
ISSUED OF DRAFT PLAN APPROVAL	JJ	GG	2020.08.12
Revision/Issue			YYYY.MM.DD

File Name: 161413921_L-1M
Dwn: JJ Dsgn: JJ Chkd: GG 2020.07.30
YYYY.MM.DD

Permit-Seal

Client/Project
NORQUAY ORCHARD LAND CORP.

1478 WESTDEL BOURNE
(FORMERLY WAGNER PROPERTY)
LONDON, ON

Title
TREE PRESERVATION PLAN

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Legend

- Existing Deciduous Tree
- Existing Deciduous Tree
- Tree to be Retained and Protected Identification Tag
- Tree to be Removed Identification Tag
- Tree Previously Approved for Removal

ISSUED FOR DRAFT PLAN APPROVAL	JJ	GG	2020.08.12
Revision/Issue	By	Appd	YYYY.MM.DD
File Name: 161413921_L-1M	JJ	JJ	GG
	Dwn.	Dsgn.	Chkd.
			2020.08.12
			YYYY.MM.DD

Permit-Seal

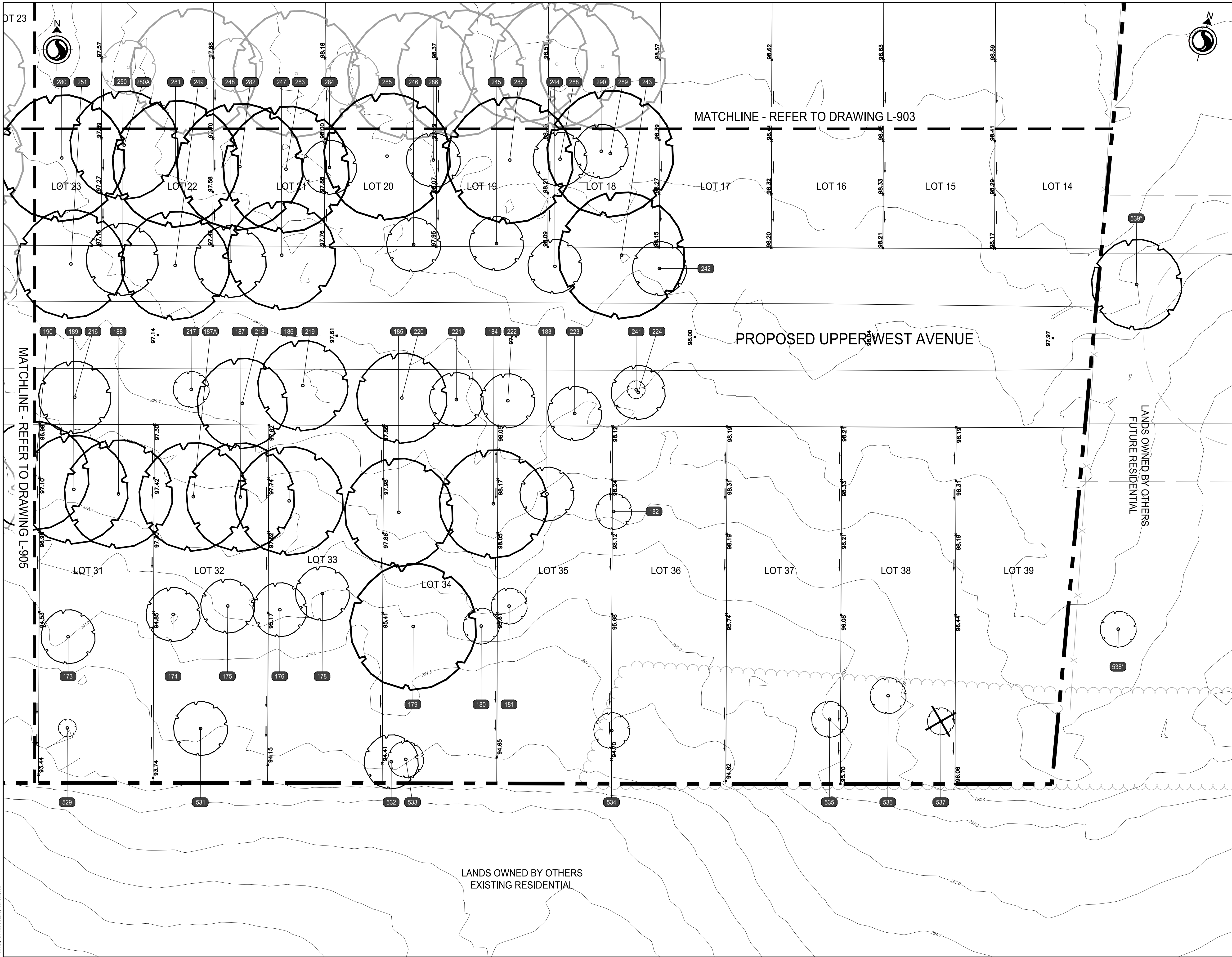
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NORQUAY ORCHARD LAND CORP.

1478 WESTDEL BOURNE
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LONDON, ON

Title
TREE PRESERVATION PLAN

Project No. 161413921 Scale 1:200

Revision Sheet 0 7 of 8 Drawing No. L-906



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