



TREE CONSERVATION REPORT

1887 St Joseph Boulevard, Ottawa, ON

Tree Conservation Report submitted as Partial
Requirements for a Rezoning Application, July
13, 2023

Dendron Forestry Services



Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca

Tree Conservation Report

Submitted as part of Rezoning Application

Address: 1887 St Joseph Boulevard
Date of Report: July 13, 2023
Date of Site Visit: May 2 & May 9, 2023
Prepared by: Kevin Myers; kevin.myers@dendronforestry.ca
Client: Sobeys Capital Limited, Erin Wallace; erin.wallace@sobeys.com

This Report must be read in its entirety, including the Assumptions and Limiting Conditions attached herein.

Purpose of the Report

This Tree Conservation Report has been prepared for Erin Wallace from Sobeys Capital Limited, as partial requirements for a Rezoning Application submitted to the City of Ottawa. The objectives of this Tree Conservation Report are:

- To describe all trees with diameters over 10 cm on the site, recording their species, size, and current health condition. This includes trees on adjacent private property 10 cm or greater in diameter, with critical root zones that extend onto the subject property. It also includes city trees of all sizes that will be impacted by the proposed development.
- To evaluate the impact of the trees by the proposed development and what the recommended action is (retain and protect or remove)
- To provide recommendations on how to mitigate damage to retained trees during construction

Methodology

The following materials were reviewed as part of this report:

- Survey by Farley, Smith & Denis Surveying Ltd., dated May 8, 2023
- Site Plan by Fotenn Planning & Design, dated October 4, 2022
- Conceptual grading plan by McIntosh Perry, dated July 12, 2023
- GeoOttawa tree inventory layer and aerial photography
- Google© Street View imagery – various years

Two site visits were conducted to collect the following information from each tree classified as protected under the City of Ottawa's Tree Protection By-law No. 2020-340:

- Diameter at breast height (1.3 m from grade)
- Species
- Tree health
- Relevant measurements such as distance to the existing structures like fences, driveways, etc



Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca

Current Vegetation

This site is currently occupied by a large parking lot and industrial building. The existing trees are limited to the parking lot medians and edges of the property. A large number of the planted Norway spruce (*Picea abies*) have had guy wires attached for too long and have lost their central leader to girdling. All those affected have adapted and most now have codominant stems.

Many of the Norway maples (*Acer platanoides*) have canker (likely *Eutypella parasitica*) and are in poor health. In the small greenspace at the rear of the property the trees are faring better but are directly beside a gravel/paved parking area and therefore have restricted healthy rooting space on that side. There is also a group of likely self-seeded small Norway maples on the adjacent property which may grow quickly and begin to compete with the larger trees for resources.

No endangered or at risk species of vegetation was noted during site visits.

Appendix A is an inventory of all trees that are protected under City of Ottawa Tree Protection (By-law No. 2020-340) on the site. This includes private trees with a diameter at breast height (dbh) of 10 cm or greater, and city-owned trees of all sizes. It also includes trees with a dbh of 10 cm or greater on adjacent properties whose Critical Root Zone (CRZ) extend into the subject area. The CRZ is an area around the trunk with a radius equivalent to 10 times the diameter of the trunk. This does not take into account infrastructure such as buildings and asphalt and it assumed the tree has no restrictions on root growth. See Map 1 for locations of trees and associated numbers.

Proposed Development and Conserved Vegetation

Due to the intensification on this site, tree preservation will be very difficult. The northeast corner of the property, where there is less activity proposed, is the one location recommended for tree preservation and protection. **Trees 31 and 32** appear to be far enough from proposed building and roadways to survive. These trees have the potential to grow large and could contribute to canopy cover once construction is complete. Protective fencing as described below should be installed prior to any site works.

Tree 35 is a cluster of self-seeded Norway maples (*Acer platanoides*) along the northern fence line. The proposed development is unlikely to have a significant impact on these young trees, and therefore no action is required.

Tree 20 is a group of 14 Siberian elms (*Ulmus pumila*) on the adjacent property but growing quite close to the fence. Many of these trees will likely suffer deleterious effects from the changes in grade on the subject property and from the installation of the proposed landscaping wall along the eastern property line, so it is possible they will need to be removed in the future. At this time, they are recommended for retention with the following mitigations recommended: prior to excavation for the proposed landscape wall, a certified arborist should expose the roots by air spade and sever them cleanly by hand. This will promote faster sealing after construction. The arborist can then make a determination about tree stability and health based on the size of roots severed.



Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca

Mitigation Measures

Prior to any site works, protective fencing should be installed around the trees as indicated in the attached Map #2 and maintained until all construction on site has been completed as per the City of Ottawa Tree Protection Specifications (March 2021). Within the fenced area, the following tree protection guidelines should be applied:

- Do not change the grade
- Do not store construction material
- Do not operate machinery
- Do not convert to hard surface or change the landscaping
- Do not excavate unless it is a method that has been pre-approved by the City
- Do not place signs, notices or posters to any tree
- Do not damage the root system, trunk, or branches of any tree
- Direct the exhaust away from the tree

The tree protection fencing must be 1.2 m in height and constructed of a rigid or framed material (e.g. modulus – steel, plywood hoarding, or snow fence on a 2"X4" wood frame) with posts 2.4 m apart such that the fence location cannot be altered. All supports must be placed outside of the CRZ and installation must minimize damage to existing roots.

If the fenced tree protection area must be reduced to facilitate construction, *one* of the following mitigation measures should be applied:

- Place a layer of 6-12 inches (15 to 30 cm) of woodchip mulch to the area
- Apply ¾ (2 cm) inch plywood, or road mats over a 4+ inch (10 cm) thick layer of the wood chip mulch
- Apply 4-6 inches (10 to 15 cm) of gravel over a taut, staked, geotextile fabric

Tree Planting Recommendation

The current canopy of this site is not extensive, but development should take every opportunity to incorporate plantings of native shrubs and trees to replace what is lost and contribute to overall city tree cover.

Wildlife Impact

The changes to this site are expected to have very little wildlife impact. A groundhog and rabbit were seen in the greenspace at the rear of the property. The groundhog was clearly inhabiting the area, whereas the rabbit may have simply been passing through.



Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca

Tree Clearing and Migratory Birds

Following the guidelines under the *Migratory Birds Convention Act*, 1994, removal of vegetation should be avoided during the nesting periods for migratory birds which extends from April 15 to as late as August 15th. If tree removal is required during this period, a nesting survey should be completed by a biologist within 5 days of tree removal to confirm that no nests are present.

The undersigned personally inspected the property and issues associated with this report on May 2 and May 9, 2023. On Behalf of Dendron Forestry Services,

Kevin Myers, MFC , R.P.F. in Training
ISA Certified Arborist ®, ON-2907A
Dendron Forestry Services
kevin.myers@dendronforestry.ca
(514) 726-8531

This report has been approved by Astrid Nielsen, Registered Professional Forester, July 17, 2023





APPENDIX A – TREE INVENTORY

Tree ¹	Species	Diameter at breast height (cm)	Ownership ^{2,3}	Condition	Action
1	Crabapple (<i>Malus spp.</i>)	28	Subject property – possibly jointly owned with City	Fair/Good: growing under wires, epicormic shoots	Remove due to impacts of development
2	Austrian pine (<i>Pinus nigra</i>)	30	Subject property	Poor: Live Crown Ratio 30%, chlorosis on remaining	Remove due to impacts of development
3	Austrian pine (<i>Pinus nigra</i>)	22, 23	Subject property	Fair: poor structure, minor chlorosis	Remove due to impacts of development
4 ⁴	White spruce (<i>Picea glauca</i>)	21	Subject property	Poor: Live Crown Ratio 5% - rest dead	Remove due to health
5 ⁴	Manitoba maple (<i>Acer negundo</i>)	14 10, 9, 15	Subject property	Fair: poor structure; growing beside fence	Remove due to impacts of development
6 ⁴	Norway spruce (<i>Picea abies</i>)	24	Subject property	Fair/Good: minor defoliation	Remove due to impacts of development
7 ⁴	Norway spruce (<i>Picea abies</i>)	19	Subject property	Fair/Poor: thin crown; poor structure	Remove due to impacts of development
8 ⁴	Norway spruce (<i>Picea abies</i>)	29	Subject property	Fair/Poor: thin crown; being girdled	Remove due to impacts of development
9 ⁴	Norway spruce (<i>Picea abies</i>)	22, 15	Subject property	Fair: some deadwood in crown; codominant stems split at 70cm	Remove due to impacts of development
10 ⁴	Norway spruce (<i>Picea abies</i>)	26, 18	Subject property	Fair: some deadwood in crown; codominant stems split at 70cm	Remove due to impacts of development
11 ⁴	Norway spruce (<i>Picea abies</i>)	30, 19	Subject property	Fair/Poor: very thin crown; split at 1.2m	Remove due to impacts of development
12 ⁴	Norway spruce (<i>Picea abies</i>)	16, 17	Subject property	Fair: some deadwood in crown	Remove due to impacts of development
13 ⁴	Norway spruce (<i>Picea abies</i>)	35, 16	Subject property	Fair: some dead wood in crown	Remove due to impacts of development
14 ⁴	Norway spruce (<i>Picea abies</i>)	23, 25	Subject property	Fair	Remove due to impacts of development
15 ⁴	Norway spruce (<i>Picea abies</i>)	23, 7, 19	Subject property	Fair/Poor	Remove due to impacts of development
16 ⁴	Norway spruce (<i>Picea abies</i>)	41, 16	Subject property	Fair/Good: some deadwood	Remove due to impacts of development
17 ⁴	Norway maple (<i>Acer platanoides</i>)	25	Subject property	Poor: moderate lean; sprouts at base becoming trees; decay in old wounds	Remove due to health
18	Norway maple (<i>Acer platanoides</i>)	38	Subject property	Poor: canker; leaning away	Remove due to health
19	Norway maple (<i>Acer platanoides</i>)	40	Subject property	Fair/Poor: dead central leader has decay; possible canker	Remove due to health



Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca

				beginning; cracks in branches; lost limb	
20	Siberian elm (<i>Ulmus pulmila</i>)	14 stems: 10-40	Adjacent – 1250/1252 Marenger	14 stems between 10 and 40cm	Retain. Certified arborist to expose roots and sever roots by hand prior to excavation for proposed landscape wall
21	Norway maple (<i>Acer platanoides</i>)	40	Subject property	Poor; poor union; Center of stem decayed away; possible canker	Remove due to health
22	Norway maple (<i>Acer platanoides</i>)	25 (est)	Boundary - 1250/1252 Marenger	Poor: leaning heavily on, and growing over, fence	Remove due to impacts of development
23	Norway spruce (<i>Picea abies</i>)	25	Subject property	Fair: thin crown	Remove due to impacts of development
24	Norway spruce (<i>Picea abies</i>)	38	Subject property	Fair/Good: minor defoliation	Remove due to impacts of development
25	Norway spruce (<i>Picea abies</i>)	34	Subject property	Fair: crown thin at top	Remove due to impacts of development
26	Norway spruce (<i>Picea abies</i>)	38	Subject property	Fair/Good: minor defoliation	Remove due to impacts of development
27	Norway spruce (<i>Picea abies</i>)	36	Subject property	Good	Remove due to impacts of development
28 ⁴	White spruce (<i>Picea glauca</i>)	22	Subject property	Poor: major defoliation/dead branches	Remove due to health
29	White spruce (<i>Picea glauca</i>)	23	Subject property	Poor: major defoliation/dead branches	Remove due to health
30	Norway maple (<i>Acer platanoides</i>)	41	Subject property	F: exposed roots with damage; large wound with decay (canker?)	Remove due to impacts of development
31	Norway spruce (<i>Picea abies</i>)	29	Subject property	Fair/Good: asymmetrical crown, minor defoliation	Retain and protect
32	White spruce (<i>Picea glauca</i>)	31, 32	Subject property	Fair: Codominant stems at 40cm; minor defoliation	Retain and protect
33	Colorado spruce (<i>Picea pungens</i>)	35	Subject property	Good: asymmetrical crown	Remove due to impacts of development
34 ⁴	Norway maple (<i>Acer platanoides</i>)	18 est	Boundary – 1479 Youville	Fair/Poor: heavy lean; wounds; growing under fence	Remove due to impacts of development
35 ⁴	Norway maple (<i>Acer platanoides</i>)	5-10	Adjacent – 1479 Youville	Fair: Weed trees along back fence line	No action required
36	Norway maple (<i>Acer platanoides</i>)	36	Subject property	Fair: slight lean, some dead branches	Remove due to impacts of development
37	Norway maple (<i>Acer platanoides</i>)	57	Subject property	Fair/Poor: large wound at base; poor structure; lean towards subject property	Remove due to impacts of development
38	Norway maple (<i>Acer platanoides</i>)	49	Subject property	Fair/Good: slight lean towards subject property; exposed roots	Remove due to impacts of development
39	Norway spruce (<i>Picea abies</i>)	32	Subject property	Fair: some defoliation, some chlorosis	Remove due to impacts of development



Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca

40	Norway spruce (<i>Picea abies</i>)	33	Subject property	Fair: crowded at base, good foliage up top	Remove due to impacts of development
41	Norway spruce (<i>Picea abies</i>)	42	Subject property	Fair: some defoliation, some chlorosis	Remove due to impacts of development
42	Norway spruce (<i>Picea abies</i>)	39	Subject property	Good	Remove due to impacts of development
43	Norway maple (<i>Acer platanoides</i>)	30	Subject property	Poor: canker at base; decay in center of stem; main leader is dead	Remove due to impacts of development
44	Norway maple (<i>Acer platanoides</i>)	20	Subject property	Fair/Good: lean in to subject property; small wounds with decay	Remove due to impacts of development
45	Norway maple (<i>Acer platanoides</i>)	39	Subject property	Fair/Poor: one of three main leaders dying from top; likely decay in center of stem	Remove due to health
46 ⁴	Ash (<i>Fraxinus spp.</i>)	10, 8, 9	Subject property	Poor: sprouts from dead stem	Remove due to health
47 ⁴	Ash (<i>Fraxinus spp.</i>)	11, 10, 8, 8	Subject property	Poor: sprouts from dead stem	Remove due to health
48 ⁴	Norway maple	10	Subject property	Fair/Good: recently planted; wound at base sealing	Remove due to health
49	Manitoba maple (<i>A. negundo</i>)	12	Boundary – 1252 Marenger	Poor: small stem growing from old stump; heavy lean	Remove due to health

¹ Please refer to the enclosed Tree Conservation Report map for tree numbers. Note that this map includes a tree layer added to the site plan (in pdf format) provided by the client. This layer includes only information about the trees and the original site plan is not altered in this process.

²Ownership of the tree in this report is based on the information provided and should not be used as a determination of ownership. For ownership disputes, a survey should be relied on. For boundary trees, consent from the adjacent property owner is required for removal as part of the application.

³Trees on adjacent properties do not include a full assessment. The diameters are estimated, and the health is estimated based on what is visible from the subject property. Trees along the property line may also have limited health assessments if part of the tree is not visible.

⁴The location of these trees was not provided and has been estimated



Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca

APPENDIX B – PHOTOGRAPHS



Tree 2 (right) and Tree 3 (left)



Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca



Trees 4-7 (right to left)



Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca



Trees 8-12 (right to left)



Trees 13-16 (right to left)



Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca



Above - Tree 17



Trees 18-22 (right to left)



Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca



Above - Trees 23-28 (right to left)



Right - Trees 28 and 29



Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca



Above - Tree 30

Right - Trees 31-34





Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca



Above - Tree 44 (right) Tree 45 (left)

Below - Tree 43



Below - Tree 48





Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca

APPENDIX C – ASSUMPTIONS AND LIMITING CONDITIONS

Intended Use of the Report

This Report was prepared by Dendron Forestry Services (hereafter “Dendron”) at the request of the Client. The results, observations, interpretations, analysis, recommendations, and conclusions contained within this Report are to be used solely for the purposes outlined within this Report. All other uses are impermissible and unintended, unless specifically stated in writing in the Report.

Intended User of the Report

This Report was prepared by Dendron for the exclusive use of the Client and may not be used or relied upon by any other party. All other users are unintended and unauthorized, unless specifically stated in writing in the Report.

Limitations of this Report

This Report is based on the circumstances and on-site conditions as they existed at the time of the site inspection and the information provided by the Client and/or third parties to Dendron. On-site conditions may limit the extent of the on-site inspection(s) conducted by Dendron, including weather events such as rain, flooding, storms, winds, tornados, snowfall, snow cover, hail; obstructions including fencing, dwellings, buildings, sheds, plants, and animals; lack of access to the entire perimeter of the tree due to adjacent properties; the shape of the tree; and accessibility of the tree crown, branches, trunk, or roots for examination.

In the event that information provided by the Client or any third parties, including but not limited to documents, records, site and grading plans, permits, or representations or any site conditions are updated or change following the completion of this Report, this Report is no longer current and valid and cannot be relied upon for the purpose for which it was prepared. Dendron and its agents, assessors, and/or employees are not liable for any damages, injuries, or losses arising from amendments, revisions, or changes to the documents, records, site and grading plans, permits, representations, or other information upon which Dendron relied in preparing this Report.

No assessment of any other trees or plants has been undertaken by Dendron. Dendron and its agents, assessors, and/or employees are not liable for any other trees or plants on or around the subject Property except those expressly identified herein. The results, observations, interpretations, analysis, recommendations, and conclusions contained within this Report apply only to the trees identified herein.

Trees and plants are living organisms and subject to change, damage, and disease, and the results, observations, interpretations, analysis, recommendations, and conclusions as set out in this Report are valid only as at the date any inspections, observations, tests, and analysis took place. No guarantee, warranty, representation, or opinion is offered or made by Dendron as to the length of the validity of the results, observations, interpretations, analysis, recommendations, and conclusions contained within this Report. As a result the Client shall only rely upon this Report as representing the results, observations, interpretations, analysis, recommendations, and conclusions that were made as at the date of such inspections, observations, tests, and analysis. The trees discussed in this Report should be re-assessed periodically and at least within one year of the date of this Report.

No Opinion regarding ownership of the Tree

This Report was not prepared to make a determination as to ownership of the subject tree(s). Where ownership of the subject tree(s) is identified within this Report, said identification is based on the information provided by the Client and third parties, including surveys, permits, and site and grading plans and may not be relied upon as a guarantee, warranty, or representation of ownership.

Assumptions

This Report is based on the circumstances and conditions as they existed at the time of the site inspection and the information provided by the Client and/or third parties to Dendron. Where documents, records, site and grading plans, permits, representations, and any other information was provided to Dendron for the purpose of preparing this Report, Dendron assumed that said information was correct and up-to-date and prepared this Report in reliance on that information. Dendron and its agents, assessors, and/or employees, are not responsible for the veracity or accuracy of such information. Dendron and its agents, assessors, or employees are not liable for any damages, injuries, or losses arising from inaccuracies, errors, and/or omissions in the documents, records, site and grading plans, permits, representations, or other information upon which Dendron relied in preparing this Report.

For the purpose of preparing this Report, Dendron and its agents, assessors, and/or employees assumed that the property which is the subject of this Report is in full compliance with all applicable federal, provincial, municipal, and local statutes, regulations, by-laws, guidelines, and other related laws. Dendron and its agents, assessors, and/or employees are not liable for any issues with respect to non-compliance with any of the above-referenced statutes, regulations, bylaws, guidelines, and laws as it may pertain to or affect the property to which this Report applies.

For the purpose of preparing this Report, Dendron and its agents, assessors, and/or employee assumed that there are no hidden or unapparent conditions affecting the results, observations, interpretations, analysis, recommendations, and conclusions contained within this Report.

No Publication

The Client acknowledges and agrees that all intellectual property rights and title, including without limitation, all copyright in this Report shall remain solely with Dendron Forestry. Possession of this Report, or a copy thereof, does not entitle the Client or any third party to the right of publication or reproduction of the Report for any purpose save and except where Dendron has given its prior written consent.



Dendron Forestry Services

www.dendronforestry.ca

613.805.WOOD (9663)

info@dendronforestry.ca

Neither all nor any part of the contents of this Report shall be disseminated to the public through advertising, public relations, news, sales, the internet or other media (including, without limitation, television, radio, print or electronic media) without the prior written consent of Dendron Forestry.

Implementing the Report Recommendations

Dendron and its agents, assessors, and/or employees accept no responsibility for the implementation of any part of this Report unless specifically requested to provide oversight on the implementation of the recommendations. In the event that inspection or supervision of all or part of the implementation of the within recommendations is requested, that request shall be in writing and the details agreed to in writing by both parties.

Dendron and its agents, assessors, and/or employees are not liable for any damages or injuries arising from the manner in which the recommendations in this Report are implemented, including failure to, incorrect, or negligent implementation of the recommendations.

Further Services

Neither Dendron nor any assessor employed or retained by Dendron for the purpose of preparing or assisting in the preparation of this Report shall be required to provide any further consultation or services to the Client, save and except as already carried out in the preparation of this Report and including, without limitation, to act as an expert witness or witness in any court in any jurisdiction unless the Client has first made specific arrangements with respect to such further services, including, without limitation, providing the payment of the Report's regular hourly billing fees.

Limits of Liability

In carrying out this Report, Dendron and its agents, assessors, and/or employees have exercised a reasonable standard of care, skill, and diligence as would be customarily and normally provided in carrying out this Report. While reasonable efforts have been made to ensure that the trees recommended for retention are healthy, no guarantees are offered, or implied, that these trees, or all parts of them will remain standing. It is professionally impossible to predict with absolute certainty the behaviour of any single tree or group of trees, or all their component parts, in all given circumstances. Inevitably, a standing tree will always pose some risk. Most trees have the potential to fall, lean, or otherwise pose a danger to property and persons in the event of adverse weather conditions, and this risk can only be eliminated if the tree is removed.

Without limiting the foregoing, no liability is assumed by Dendron for:

- a) any legal description provided with respect to the Property;
- b) issues of title and or ownership respect to the Property;
- c) the accuracy of the Property line locations or boundaries with respect to the Property; and
- d) the accuracy of any other information provided to Dendron by the Client or third parties;
- e) any consequential loss, injury or damages suffered by the Client or any third parties, including but not limited to replacement costs, loss of use, earnings and business interruption; and
- f) the unauthorized distribution of the Report.

The total monetary amount of all claims or causes of action the Client may have as against Dendron Forestry, including but not limited to claims for negligence, negligent misrepresentation, and breach of contract, shall be strictly limited solely to the total amount of fees paid by the Client to Dendron Forestry pursuant to the Contract for Services dated April 18, 2023, for which this Assessment was carried out.

Further, under no circumstance may any claims be initiated or commenced by the Client against Dendron or any of its directors, officers, employees, contractors, agents, assessors, or Assessors, in contract or in tort, more than 12 months after the date of this Report.

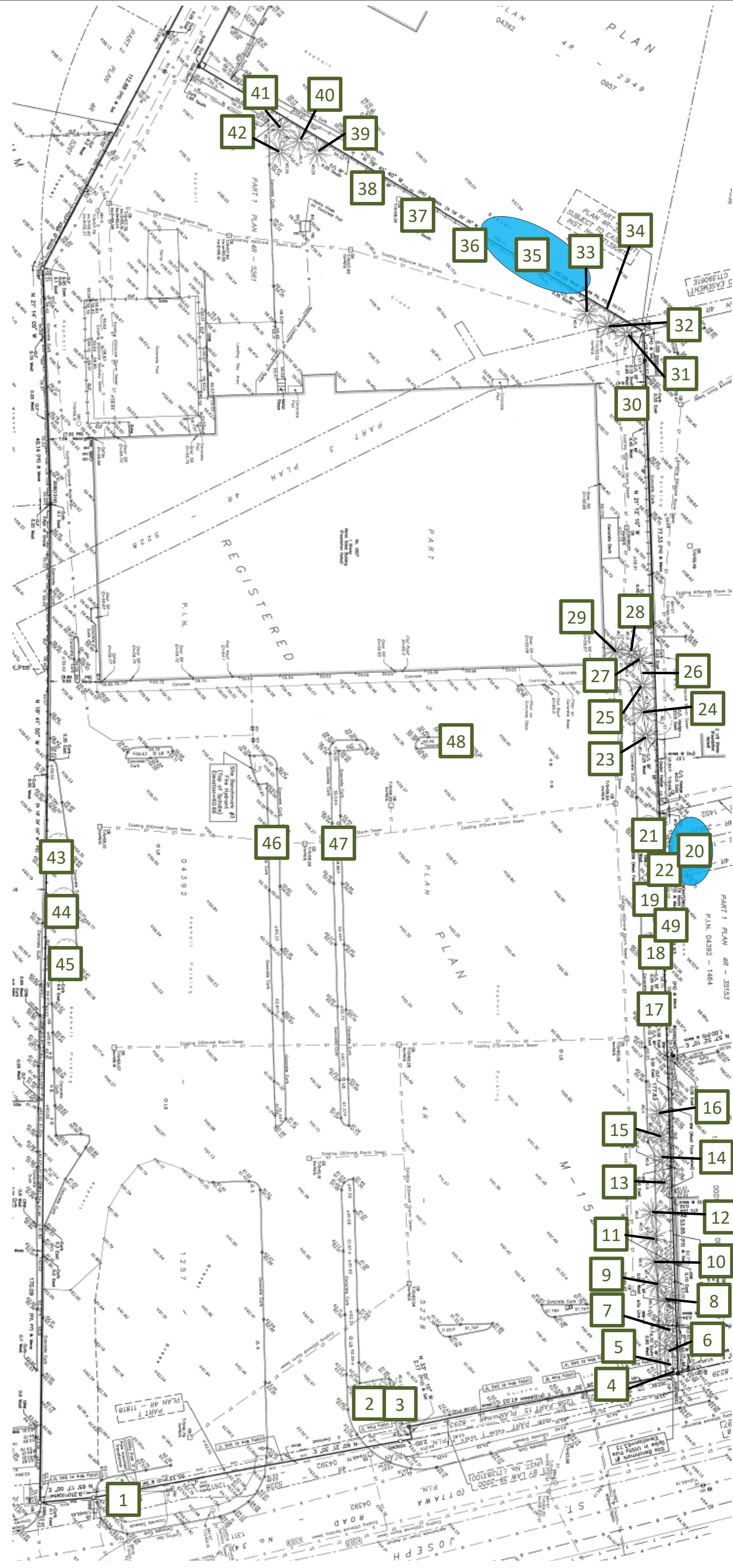
No Third Party Liability

This Report was prepared by Dendron exclusively for the Client for the purpose set out in the Report. Any use which a third party makes of this Report, or any reliance on or decisions a third party may make based upon this Report, are made at the sole risk of any such third parties. Dendron Forestry accepts no responsibility for any damages or loss suffered by any third party or by the Client as a result of decisions made or actions based upon the unauthorized use or reliance of this Report by any such party.

General

Any plans and/or illustrations in this Report are included only to help the Client visualize the issues in this Report and shall not be relied upon for any other purpose. This report is best viewed in colour. Any copies printed in black and white may make some details difficult to properly understand. Dendron accepts no liability for misunderstandings due to a black and white copy of the report.

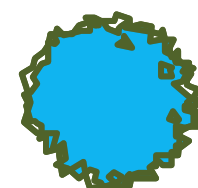
Notwithstanding any of the above, nothing in this Report is taken to absolve the Client of the responsibility of obtaining a new Report in the event that the circumstances of the tree change.



Legend



Critical Root Zone



Tree either fully or partly on adjacent property



Identified tree included in TCR

Tree ¹	Species	DBH (cm)	Ownership ^{2,3}	Condition
1	Crabapple (<i>Malus spp.</i>)	28	Subject property – possibly jointly owned with City	Fair/Good: growing under wires, epicormic shoots
2	Austrian pine (<i>Pinus nigra</i>)	30	Subject property	Poor: Live Crown Ratio 30%, chlorosis on remaining
3	Austrian pine (<i>P. nigra</i>)	22, 23	Subject property	Fair: poor structure, minor chlorosis
4 ⁴	White spruce (<i>Picea glauca</i>)	21	Subject property	Poor: Live Crown Ratio 5% - rest dead
5 ⁴	Manitoba maple (<i>Acer negundo</i>)	14 10, 9, 15	Subject property	Fair: poor structure; growing beside fence
6 ⁴	Norway spruce (<i>Picea abies</i>)	24	Subject property	Fair/Good: minor defoliation
7 ⁴	Norway spruce (<i>P. abies</i>)	19	Subject property	Fair/Poor: thin crown; poor structure
8 ⁴	Norway spruce (<i>P. abies</i>)	29	Subject property	Fair/Poor: thin crown; being girdled
9 ⁴	Norway spruce (<i>P. abies</i>)	22, 15	Subject property	Fair: some deadwood in crown; codominant stems split at 70cm
10 ⁴	Norway spruce (<i>P. abies</i>)	26, 18	Subject property	Fair: some deadwood in crown; codominant stems split at 70cm
11 ⁴	Norway spruce (<i>P. abies</i>)	30, 19	Subject property	Fair/Poor: very thin crown; split at 1.2m
12 ⁴	Norway spruce (<i>P. abies</i>)	16, 17	Subject property	Fair: some deadwood in crown
13 ⁴	Norway spruce (<i>P. abies</i>)	35, 16	Subject property	Fair: some dead wood in crown
14 ⁴	Norway spruce (<i>P. abies</i>)	23, 25	Subject property	Fair
15 ⁴	Norway spruce (<i>P. abies</i>)	23, 7, 19	Subject property	Fair/Poor
16 ⁴	Norway spruce (<i>P. abies</i>)	41, 16	Subject property	Fair/Good: some deadwood
17 ⁴	Norway maple (<i>Acer platanoides</i>)	25	Subject property	Poor: moderate lean; sprouts at base becoming trees; decay in old wounds
18	Norway maple (<i>A. platanoides</i>)	38	Subject property	Poor: canker; leaning away
19	Norway maple (<i>A. platanoides</i>)	40	Subject property	Fair/Poor: dead central leader has decay; possible canker beginning; cracks in branches; lost limb
20	Siberian elm (<i>Ulmus pulmila</i>)	14 stems: 10-40	Adjacent – 1250/1252 Marenger	14 stems between 10 and 40cm
21	Norway maple (<i>A. platanoides</i>)	40	Subject property	Poor; poor union; Center of stem decayed away; possible canker
22	Norway maple (<i>A. platanoides</i>)	25 (est)	Boundary - 1250/1252 Marenger	Poor: leaning heavily on, and growing over, fence
23	Norway spruce (<i>P. abies</i>)	25	Subject property	Fair: thin crown
24	Norway spruce (<i>P. abies</i>)	38	Subject property	Fair/Good: minor defoliation
25	Norway spruce (<i>P. abies</i>)	34	Subject property	Fair: crown thin at top
26	Norway spruce (<i>P. abies</i>)	38	Subject property	Fair/Good: minor defoliation
27	Norway spruce (<i>P. abies</i>)	36	Subject property	Good
28 ⁴	White spruce (<i>Picea glauca</i>)	22	Subject property	Poor: major defoliation/dead branches
29	White spruce (<i>Picea glauca</i>)	23	Subject property	Poor: major defoliation/dead branches
30	Norway maple (<i>A. platanoides</i>)	41	Subject property	F: exposed roots with damage; large wound with decay (canker?)
31	Norway spruce (<i>P. abies</i>)	29	Subject property	Fair/Good: asymmetrical crown, minor defoliation
32	White spruce (<i>Picea glauca</i>)	31, 32	Subject property	Fair: Codominant stems at 40cm; minor defoliation
33	Colorado spruce (<i>Picea pungens</i>)	35	Subject property	Good: asymmetrical crown
34 ⁴	Norway maple (<i>A. platanoides</i>)	18 est	Boundary – 1479 Youville	Fair/Poor: heavy lean; wounds; growing under fence
35 ⁴	Norway maple (<i>A. platanoides</i>)	5-10	Adjacent – 1479 Youville	Fair: Weed trees along back fence line
36	Norway maple (<i>A. platanoides</i>)	36	Subject property	Fair: slight lean, some dead branches
37	Norway maple (<i>A. platanoides</i>)	57	Subject property	Fair/Poor: large wound at base; poor structure; lean towards subject property
38	Norway maple (<i>A. platanoides</i>)	49	Subject property	Fair/Good: slight lean towards subject property; exposed roots
39	Norway spruce (<i>P. abies</i>)	32	Subject property	Fair: some defoliation, some chlorosis
40	Norway spruce (<i>P. abies</i>)	33	Subject property	Fair: crowded at base, good foliage up top
41	Norway spruce (<i>P. abies</i>)	42	Subject property	Fair: some defoliation, some chlorosis
42	Norway spruce (<i>P. abies</i>)	39	Subject property	Good
43	Norway maple (<i>A. platanoides</i>)	30	Subject property	Poor: canker at base; decay in center of stem; main leader is dead
44	Norway maple (<i>A. platanoides</i>)	20	Subject property	Fair/Good: lean in to subject property; small wounds with decay
45	Norway maple (<i>A. platanoides</i>)	39	Subject property	Fair/Poor: one of three main leaders dying from top; likely decay in center of stem
46 ⁴	Ash (<i>Fraxinus spp.</i>)	10, 8, 9	Subject property	Poor: sprouts from dead stem
47 ⁴	Ash (<i>Fraxinus spp.</i>)	11, 10, 8, 8	Subject property	Poor: sprouts from dead stem
48 ⁴	Norway maple (<i>A. platanoides</i>)	10	Subject property	Fair/Good: recently planted; wound at base sealing
49	Manitoba maple (<i>A. negundo</i>)	12	Boundary – 1252 Marenger	Poor: small stem growing from old stump; heavy lean

Note: the tree layer has been added to the original survey supplied by the client in pdf format. This layer refers to the trees only, and the original survey has not been altered in the process. Refer to the original survey for details as quality is lost when importing the plan into the mapping software used to create the tree layer.



Tree Conservation Report Map 1 – 1887 St Joesph Boulevard
 Tree layer prepared by Dendron Forestry Services
 Current Vegetation, May 16, 2023
 For more information, please contact info@dendronforestry.ca

Tree Protection Area (TPA)

Prior to any site works, protective fencing should be installed around the TPA as indicated in this Map and maintained until all construction on site has been completed as per the City of Ottawa Tree Protection Specifications (March 2021). **Failure to install and maintain the indicated fencing may result in fines from the City.**

Within the fenced area, the following tree protection guidelines should be applied:

- Do not change the grade
- Do not store construction material
- Do not operate machinery
- Do not convert to hard surface or change the landscaping
- Do not excavate unless it is a method that has been pre-approved by the City
- Do not place signs, notices or posters to any tree
- Do not damage the root system, trunk, or branches of any tree
- Direct the exhaust away from the tree

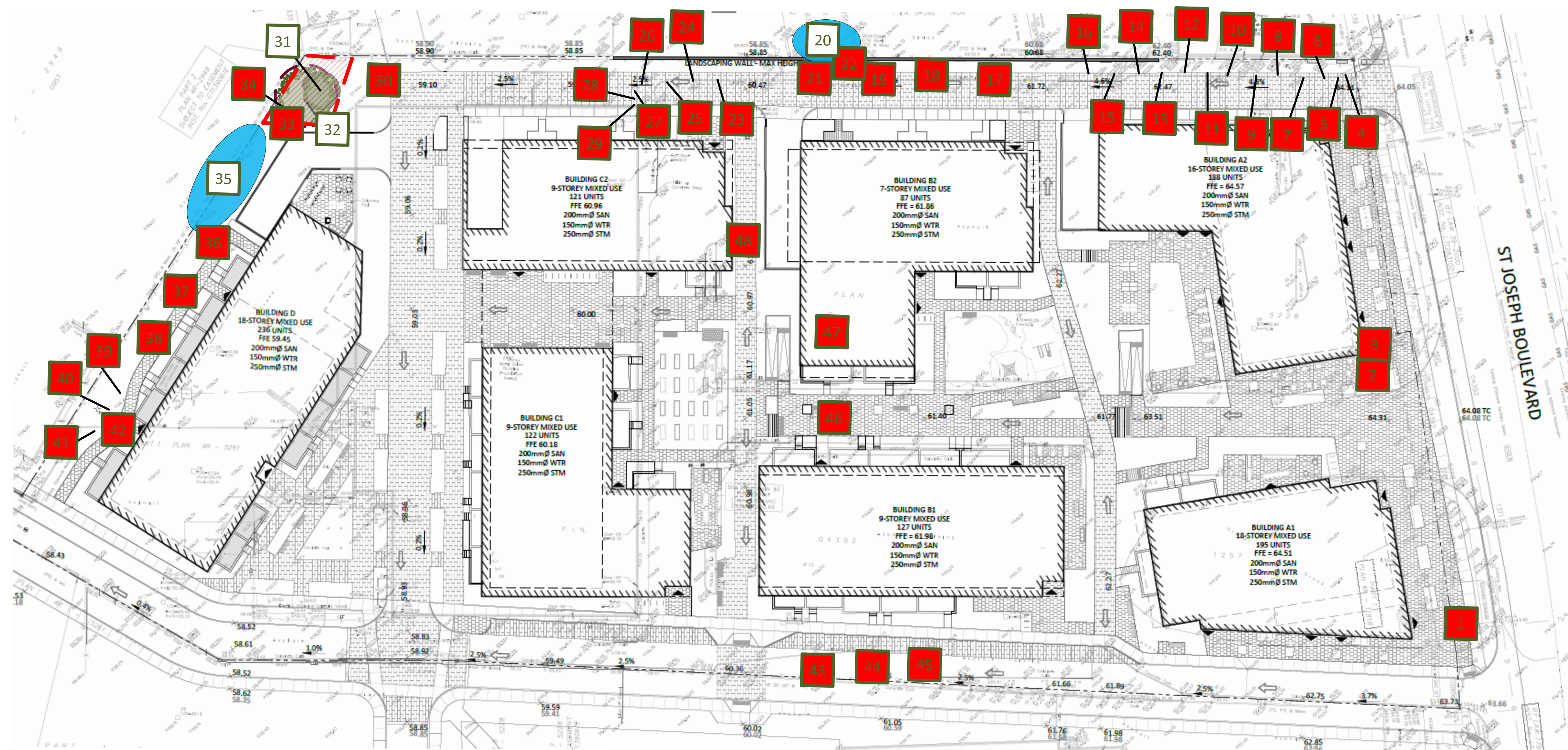
The tree protection fencing must be 1.2 m in height and constructed of a rigid or framed material (e.g. modulus-steel, plywood hoarding, or snow fence on a 2"x4" wood frame) with posts 2.4 m apart such that the fence location cannot be altered. All supports must be placed outside of the CRZ and installation must minimize damage to existing roots.

If the fenced tree protection area must be reduced to facilitate construction, *one* of the following mitigation measures should be applied:

- Place a layer of 6-12 inches (15 to 30 cm) of woodchip mulch to the area
- Apply ¾ (2 cm) inch plywood, or road mats over a 4+ inch (10 cm) thick layer of the wood chip mulch
- Apply 4-6 inches (10 to 15 cm) of gravel over a taut, staked, geotextile fabric

Tree ¹	Species	DBH (cm)	Ownership ^{2,3}	Condition	Action
1	Crabapple (<i>Malus spp.</i>)	28	Subject property – possibly jointly owned with City	Fair/Good: growing under wires, epicormic shoots	Remove due to impacts of development
2	Austrian pine (<i>Pinus nigra</i>)	30	Subject property	Poor: Live Crown Ratio 30%, chlorosis on remaining	Remove due to impacts of development
3	Austrian pine (<i>Pinus nigra</i>)	22, 23	Subject property	Fair: poor structure, minor chlorosis	Remove due to impacts of development
4-16 ⁴	White spruce (<i>Picea glauca</i>)	16-41	Subject property	Fair - Poor	Remove due to health
17-19	Norway maple (<i>Acer platanoides</i>)	25-40	Subject property	Poor	Remove due to health
20	Siberian elm (<i>Ulmus pumila</i>)	14 stems: 10-40	Adjacent – 1250/1252 Marenger	14 stems between 10 and 40cm	Retain. Certified arborist to expose roots and sever roots by hand prior to excavation for proposed landscape wall
21	Norway maple (<i>Acer platanoides</i>)	40	Subject property	Poor: poor union; Center of stem decayed away; possible canker	Remove due to health
22	Norway maple (<i>Acer platanoides</i>)	25 (est)	Boundary - 1250/1252 Marenger	Poor: leaning heavily on, and growing over, fence	Remove due to impacts of development
23-27	Norway spruce (<i>Picea abies</i>)	25-38	Subject property	Fair-Good	Remove due to impacts of development
28 ⁴	White spruce (<i>Picea glauca</i>)	22	Subject property	Poor: major defoliation/dead branches	Remove due to health
29	White spruce (<i>Picea glauca</i>)	23	Subject property	Poor: major defoliation/dead branches	Remove due to health
30	Norway maple (<i>Acer platanoides</i>)	41	Subject property	Fair: exposed roots with damage; large wound with decay, likely canker	Remove due to impacts of development
31	Norway spruce (<i>Picea abies</i>)	29	Subject property	Fair/Good: asymmetrical crown, minor defoliation	Retain and protect
32	White spruce (<i>Picea glauca</i>)	31, 32	Subject property	Fair: Codominant stems at 40cm; minor defoliation	Retain and protect
33	Colorado spruce (<i>Picea pungens</i>)	35	Subject property	Good: asymmetrical crown	Remove due to impacts of development
34 ⁴	Norway maple (<i>Acer platanoides</i>)	18 est	Boundary – 1479 Youville	Fair/Poor: heavy lean; wounds; growing under fence	Remove due to impacts of development
35 ⁴	Norway maple (<i>Acer platanoides</i>)	5-10	Adjacent – 1479 Youville	Fair: Weed trees along back fence line	No action required

Tree ¹	Species	DBH (cm)	Ownership ^{2,3}	Condition	Action
36	Norway maple (<i>Acer platanoides</i>)	36	Subject property	Fair: slight lean, some dead branches	Remove due to impacts of development
37	Norway maple (<i>Acer platanoides</i>)	57	Subject property	Fair/Poor: large wound at base; poor structure; lean towards subject property	Remove due to impacts of development
38	Norway maple (<i>Acer platanoides</i>)	49	Subject property	Fair/Good: slight lean towards subject property; exposed roots	Remove due to impacts of development
39	Norway spruce (<i>Picea abies</i>)	32	Subject property	Fair: some defoliation, some chlorosis	Remove due to impacts of development
40	Norway spruce (<i>Picea abies</i>)	33	Subject property	Fair: crowded at base, good foliage	Remove due to impacts of development
41	Norway spruce (<i>Picea abies</i>)	42	Subject property	Fair: some defoliation, some chlorosis	Remove due to impacts of development
42	Norway spruce (<i>Picea abies</i>)	39	Subject property	Good	Remove due to impacts of development
43	Norway maple (<i>Acer platanoides</i>)	30	Subject property	Poor: canker at base; decay in center of stem; main leader is dead	Remove due to impacts of development
44	Norway maple (<i>Acer platanoides</i>)	20	Subject property	Fair/Good: lean in to subject property; small wounds with decay	Remove due to impacts of development
45	Norway maple (<i>Acer platanoides</i>)	39	Subject property	Fair/Poor: one of three main leaders dying from top; likely decay in center of stem	Remove due to health
46 ⁴	Ash (<i>Fraxinus spp.</i>)	10, 8, 9	Subject property	Poor: sprouts from dead stem	Remove due to health
47 ⁴	Ash (<i>Fraxinus spp.</i>)	11, 10, 8, 8	Subject property	Poor: sprouts from dead stem	Remove due to health
48 ⁴	Norway maple	10	Subject property	Fair/Good: recently planted; wound at base sealing	Remove due to health
49	Manitoba maple (<i>A. negundo</i>)	12	Boundary – 1252 Marenger	Poor: small stem growing from old stump; heavy lean	Remove due to health



Legend

- Critical Root Zone
- Tree to be removed
- Tree either fully or partly on adjacent property
- Tree Protection Area

Note: the tree layer has been added to the original grading plan supplied by the client in pdf format. This layer refers to the trees only, and the original plan has not been altered in the process. Refer to the original plan for details on grading as quality is lost when importing the plan into the mapping software used to create the tree layer.



Tree Conservation Report Map #2 – 1887 St Joesph Boulevard
 Tree layer prepared by Dendron Forestry Services
 Version 2.0, July 13, 2023
 For more information, please contact info@dendronforestry.ca