### ARBORIST REPORT FOR 401 Smyth Road, City of Ottawa, Ontario

Prepared for: CHILDREN'S HOSPITAL OF EASTERN ONTARIO-OTTAWA CHILDREN'S TREATMENT CENTRE (CHEO) 1DOOR4CARE INTEGRATED TREATMENT CENTRE

Prepared by:

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Date: August 2022 File: C21114

This report has been prepared as part of a proposed development on the located at 401 Smyth Road, in the City of Ottawa, henceforth referred to as the Subject Lands. Colville Consulting Inc was contacted by B+H Architects and asked to join a multi-disciplinary team to complete an Arborist Report as outlined in Infrastructure Ontario's document "Request for Proposals for Planning, Design and Conformance Consulting Services for Children's Hospital of Eastern Ontario-Ottawa Children's Treatment Centre (CHEO) 1Door4Care Integrated Treatment Centre RFP No. 21-083". Works undertaken as part of this report include a detailed inventory of trees on the Subject Lands, mitigation strategies to reduce impact on trees recommended to be retained. An inventory of trees within and adjacent the development footprint of the proposed parking garage and treatment facility was completed on June 9<sup>th</sup> and 10<sup>th</sup>, 2022, with data present in this report reflecting the site conditions at that time.

The general intent of the Report is to identify trees within and adjacent the proposed development and provide preliminary input on which trees are anticipated to be removed based on the PDC design approach, and which trees may be able to be retained. Information on trees to be removed includes the rational for removal in addition to information to be used during compensation discussions as part of the development review process with the city. It is our understanding that compensation type and extent will be determined by the total number and size of trees to be removed on site, as well as the ability to incorporate replacement trees into the landscape plan. Information on mitigation strategies has been included in for trees to be retained

Prior to development it is anticipated that, in addition to the information provided in this report, a Tree Conservation Report (TCR) will be required as per the City of Ottawa Tree By-law (No. 2020-340). Schedule E of the By-law outlines the guidelines required for the completion of a TCR and states:

"The Tree Conservation Report (TCR) provides essential information that must be integrated with all plans for a site, including the grading, servicing and landscape plans, to ensure that trees are retained in development scenarios, where feasible, and that new trees will be accommodated and planted to contribute to the City's forest cover target and to address a site's tree loss.

The purpose of the Tree Conservation Report is to demonstrate how tree cover will be retained on the site, including mature trees, stands of trees, and hedgerows, using a design with nature approach to planning and engineering. A design with nature approach incorporates the natural features of a site into the design and engineering of a proposed development. This includes, but is not limited to, measures such as retention of vegetation, consideration of wildlife habitats, and respect for natural drainage patterns..."

#### **PROPOSED DEVELOPMENT**

The Children's Hospital of Eastern Ontario (CHEO) is currently operating on the majority of the property located at 401 Smyth Road, in the City of Ottawa. The development proposed is located on the southern portion of the Subject Property to the north of Ring Road. Development proposed as part of this project is understood to include two main components, the construction of a "1door4Care' multi-purpose building as an extension of the existing main campus and a new parking structure to replace an existing outdoor parking lot.

The proposed multi-level parking structure is being built to replace the parking spots lost as part of the construction of the treatment facility.

Modification to these plans and/or site characteristics will require further investigation to identity changes to the recommendations provided within this report.

#### ASSUMPTIONS AND LIMITING CONDITIONS

The observations and recommendations within this document are true for the period that staff were on site and therefore do not include any other activities and/or change in overall condition or health to any trees occurring on site before or after our site visit. The existence of any and all trees on site represent a certain inherent degree of risk and our evaluation and recommendation does not preclude all potential risk of failure. Inspection of trees was conducted using visual examination and limited to information gathered through visual observation.

In spite of our recommendations and conclusions in our report, it's important to understand that all trees are living organisms, meaning that their health and status has the potential to be in constant flux over time, and that trees are not immune to changes in site conditions or seasonal variations in weather conditions.

Possession of this report does not imply right of publication or use for any purpose other than to whom it is addressed to, without the prior expressed written or verbal consent of Colville Consulting Inc. This report shall be considered whole and should be considered incomplete if there are any pages missing.

#### SUBJECT LANDS

The Subject Lands are located on existing surface parking lot structures, driveways, and landscaped areas on the southern portion of the Subject Property. The overall CHEO Subject Property occupies an approximate area of 13.9 hectares, while the Subject Lands assessed as part of this report are approximately 3.1 hectares in size. CHEO shares a campus with the Ottawa General Hospital and the University of Ottawa's Roger Guindon Hall, both located at 451 Smyth Road to the east.

The Subject Lands are primarily surrounded by residential development, as well as additional institutional and recreational uses. A hydro corridor runs north of the Subject Property and is separated by a moderately sized woodland feature.

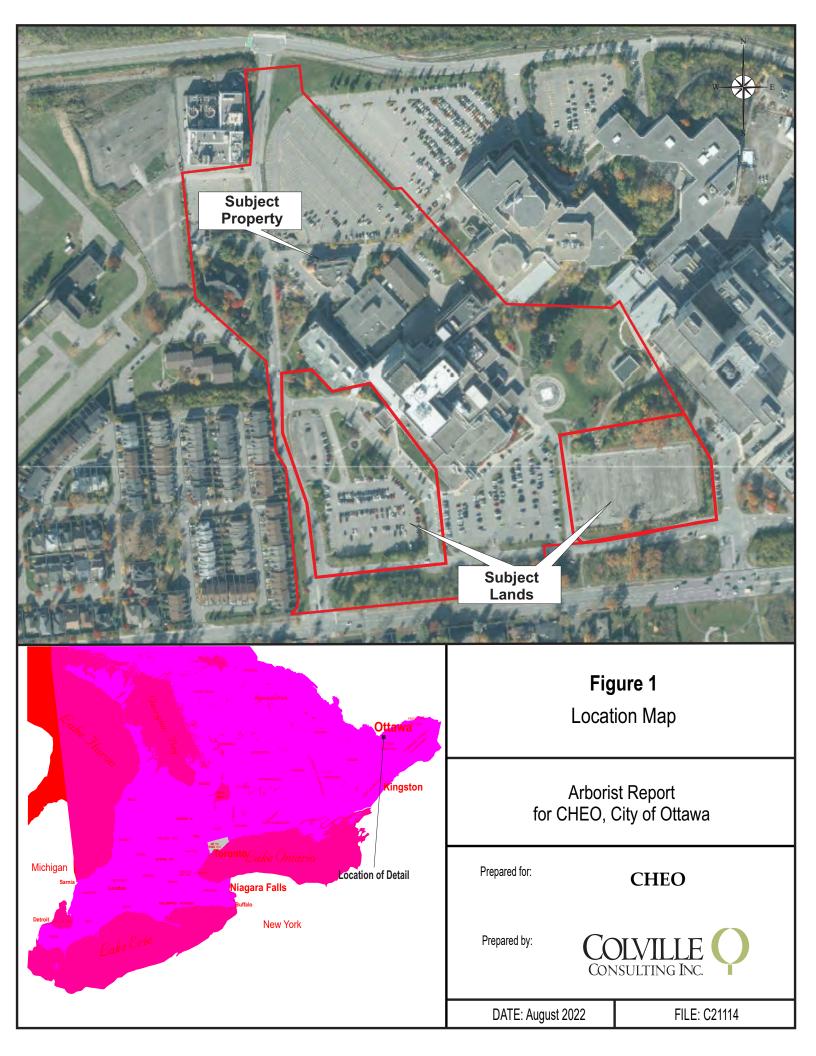
The Location of the Subject Property and Subject Lands are shown in Figure 1 provided below.

#### METHODS

This Report has been completed in general compliance with the City of Ottawa's Tree Protection By-Law (No. 2020-340), with the goal of retaining and protecting as many trees as reasonably possible on the site and providing mitigation strategies for trees to be retained. This report is intended to be read in conjunction with other design reports prepared for the project as part of the Integrated Design Brief prepared by B+H Architects.

The work plan for this report included the following components:

- Field reconnaissance to collect tree inventory information for trees situated on the Subject Lands
- Preparation of summary mapping;



- Evaluation of potential tree saving opportunities based on the proposed site plan; and,
- Recommend appropriate mitigation measures to help preserve remaining trees on the site.

The tree inventory on the Subject lands was conducted on June 9<sup>th</sup> and 10<sup>th</sup>, 2022 and included the following parameters:

Species – common and botanical names provided in the inventory table.

DBH – diameter at breast height (cm), measured at 1.3 m above the ground.

Canopy Size – Approximate diameter of tree canopy

Condition - condition of tree considering trunk integrity, crown structure and crown

Vigor- Condition ratings include Dead (D), poor (P), fair (F), and good (G).

Location – UTM coordinates of the tagged tree.

The inventory of trees on this property was limited to trees 10cm in DBH and larger for trees located within and adjacent to areas anticipated to be impacted through the proposed treatment center and parking garage development. For the purpose of this assessment, the limit of disturbance is understood to be the entirety of the Subject Lands.

#### TREE INVENTORY RESULTS

Tree Inventory data for all trees surveyed is provided in Appendix A. A total of eighty-five (85) trees were inventoried and tagged with unique tree ID numbers on and adjacent the Subject Lands during the site assessment. A total of eighty-five (85) trees were inventoried on the Subject Lands. Thirty (30) trees inventoried were directly impacted or adjacent to the proposed parking garage, and the remaining fifty-five (55) trees were located within or adjacent the proposed treatment facility footprint. Twenty-one (21) of the trees inventoried are recommended to be retained, while sixty-four (64) are recommended for removal.

Trees have been recommended for removal for a number of reasons including direct impacts from development, impacts from site grading, and poor overall tree health.

Tree to be retained are primarily located in landscaped areas or within woodlands outside of the proposed footprint of development.

Of the trees to be retained, eight (8) are invasive common buckthorn. A significant amount of smaller common buckthorn was also observed within the hedgerows adjacent to Ring Road. Removal of these invasive specimens is strongly recommended.

Detailed information and recommendations for each tree inventoried is provided within Appendix A. Mapping in Appendix B and C shows all trees inventoried on and adjacent the Subject Lands and Critical Root Zones (CRZ). A selection of site photographs taken during field inventories are provided in Appendix D and E.

#### TREE CARE RECOMMENDATIONS

The following are minimum standards for tree care recommendations that shall be applied to trees recommended to be retained as identified in Appendix A. Any additional specific standards or

specifications required by the City of Ottawa shall supersede the following recommendations and be adhered to accordingly.

#### Tree Protection Zone

The Tree Protection Zone (TPZ) is required for trees to be retained and in order to protect roots and soil within the critical root zone (CRZ). The CRZ is the immediate root zone surrounding the trunk of the tree and is integral to tree for tree health and stability. During construction, no machinery, grading, or general work should be conducted within the limits of TPZ. The TPZ should be delineated through the installation of tree hoarding.

The following recommendations should be adhered to prevent unintended works from occurring within the CRZ.

- Tree protection zone fencing shall be installed following design criteria as outlined by the City of Ottawa Tree Protection Specifications provided in Appendix E.
- Signage should be adhered to the tree hoarding protection identifying it and explaining the TPZ and that no works are permitted within the limits of the tree hoarding.
- Construction materials, equipment, soil, construction waste, or debris shall not be stored within the Tree Protection Zone.
- TPZ fencing must be installed prior the start of construction activities on the site and inspected by City forestry staff.
- Tree Protection should be maintained throughout the duration of construction. Should any damage occur to tree protection, it should be repaired as soon as possible.
- Tree hoarding should remain installed until all construction works have been completed.

#### Trunk Protection

In areas where construction activities cannot avoid encroachment into the TPZ, and the project arborist has been consulted, protection should be applied to trunks and buttress roots.

- Thick wood planks installed around the trunk overtop of foam padding and secured with straps or wires are recommended.
- Barriers should be installed at an angle to protect trunk flare and buttress roots.

#### Root Maintenance

Root health is essential for tree health and stability. Roots can extend approximately 2-3 times the distance of the dripline. This can result in a significant loss of feeder roots during construction and may require further mitigation.

- If root cuts are required, the cut should be made as far from the trunk as possible and not occur within the dripline.
- Any roots over 2.5cm in diameter should be pruned rather the torn or crushed. Two methods that may be employed are soil excavation followed by selective root cutting, or mechanical root pruning tools designed to cut roots. Root pruning should only be completed by a trained and experienced arborist.
- Mulch may be used as a temporary measure to protect roots systems. Mulch applied at a thickness of 15cm to 30cm can help disperse weight and reduce root compaction.

#### CONCLUSION

The proposed development of the treatment facility and parking structure is anticipated to require the removal of sixty-four (64) trees to facilitate grading and construction. Some trees recommended for retention are located in close proximity to the proposed developments and may need to be removed as part of additional design requirements. Additional assessments are recommended to address these changes as required.

Prior to any works being conducted along property lines, or within the drip lines of trees growing on adjacent properties that have the potential to be impacted, a consent letter from the neighboring property owners is required. Tree Protection measures should be incorporated as recommended in this report for trees that may be impacted.

Based on background research, our site visit, and discussions of our findings, we have come to a few important recommendations and conclusions. These recommendations include the following:

- It is anticipated that to facilitate the proposed development of the treatment facility and parking structure, 64 trees will need to be removed on the Subject Lands.
- Recommendations for the retention and removal of individual trees are subject to change pending modifications to the final development plan and/or grading requirements associated with construction.
- As per the City of Ottawa By-law (No. 2020-340), The removal of trees on the site cannot occur until written approval of a Tree Conservation Report has been granted through a tree permit
- Further risk assessment of trees located north of the proposed parking structure (Trees #525-530) is recommended to better determine overall tree health and assess if selective tree removal should be completed.
- Tree hoarding for trees to be retained shall meet the City of Ottawa Tree Protection Specifications, as attached in Appendix E.
- Eight of the trees inventoried over were invasive common buckthorn. Significant amounts of buckthorn are present within the hedgerows on site and should be removed and areas replanted with native species where possible.
- Tree care recommendations provided should be considered a minimum standard and applied to all trees to be retained in development areas.
- Tree protection measures and recommendations will not guarantee tree protection, and the potential for damage may still occur. Ongoing monitoring to ensure tree protection measures are effective is recommended.

Respectfully submitted by:

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#### **REFERENCES:**

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RFP Respondent's Meeting. Children's Hospital of eastern Ontario – Ottawa Children's Treatment Centre (CHEO) 1Door4Care Integrated Treatment Centre. Planning, Design, and Conformance Consulting Services. RFP 21-083 – August 10, 2021.

#### APPENDICES

- Appendix A Tree Inventory Data
- Appendix B Figure #2 Tree Inventory and CRZ for Proposed Parking Garage
- Appendix C Figure #3 Tree Inventory and CRZ for Proposed Treatment Facility
- Appendix D- Site Photographs Proposed Parking Garage
- Appendix E- Site Photographs Proposed Treatment Facility
- Appendix F- City of Ottawa Tree Protection Specifications

# **Appendix A** Tree Inventory Data

The state	Tag #	Species	Scientific Name	Location	DBH (cm)	Critical Root Zone (CRZ) (cm)	Dripline	Health	Recommendation	Field Notes/Condition Comments	Zone	Northing	Easting
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900  Cherry Plum  Prana carculycra  Trastment Facility  20.18  20.00  5  Good  Remove, grading  Multi-sem, sprawling  Stote Plum  181  5022797.089  444898.7.59    542  White Spruce  Pisca gluxa  Treatment Facility  38  380  4  Fair  Remove, grading  Stote name, grading  Multi Sam  5027713.055  444898.7.527    544  Cherry Plum  Prana carculyra  Treatment Facility  24,18,14  240  3  Good  Remove, grading  Multi Sam  Stote name, grading  Multi Sam  5027713.055  444887.385    545  White Spruce  Picce gluxa  Treatment Facility  42  420  5  Good/Fair  Retin  Stote name, grading  Multi Sam  5027717.053  444888.7.88    546  Sugar Maple  Acer socharum  Treatment Facility  42  420  5  Good  Remove, construction  Nona Sam  181  5027771.633  444888.7.83					-		-		•				
Sold  Sold Pine  Pinus synchristik  Treatment Facility  58  580  6  Good  Remove, grading  Light tan, Good canopy.  131  502700-276  448896-799    543  Cherry Plum  Prous crossfera  Treatment Facility  18  180  3  Good  Remove, grading  Good payr, healthy canopy.  181  502771.805  448875.276    544  Cherry Plum  Prous crossfera  Treatment Facility  24.18.14  240  3  Good  Remove, grading  Multi Stem  181  502771.803  44887.276    545  White Spruce  Picer glauca  Treatment Facility  24.18.44  240  5  Good/Fair  Remove, construction  None canopy dieak.  187  502772.428  448887.276    545  Sigar Maple  Acer glauca  Treatment Facility  24  400  5  Good/Fair  Remove, construction  Noi sign of disease  187  502777.13.03  448887.34    549  Norway Maple  Acer glauca  Treatment Facility  24  Good  Re				· · · · ·					•				
942  White Spruce  Pice aplance  Treatment Facility  38  380  4  Fair  Remove, grading  Some canopy deback, monor ond amage  181  9927706.256  448878.467    544  Cherry Plum  Prunus cerasifero  Treatment Facility  24,18,14  240  3  Good  Remove, grading  God pare, healthy canopy.  187  902771.806  44887.276    544  Cherry Plum  Prunus cerasifero  Treatment Facility  24  240  3  Good  Remove, grading  Multi Stem  187  902771.804  44887.183    546  Sugr Maple  Acer saccharum  Treatment Facility  34  360  Good/Fair  Remove, construction  Vinina t.5m. cdominant  181  5027771.834  44888.128    547  White Spruce  Pice aplace  Treatment Facility  38  380  5  Good  Remove, construction  Kaisase  181  5027771.834  44888.148    548  Norwy Maple  Acer platanoides  Treatment Facility  34  340  4  Fair </td <td></td> <td>,</td> <td></td>		,											
543  Otherry Plum  Pruns creas/erra  Treatment Facility  18  180  3  Good  Remove, grading  Good taper, healthy canopy.  187  5927713.065  44887.226.    544  Oherry Plum  Pruns creas/erra  Treatment Facility  24,18,14  240  3  Good  Remove, grading  Multi Stam  181  5027712.361  44887.236.    545  White Spruce  Pread place  Treatment Facility  42  420  5  Good/Fair  Remove, construction  Nino at 1.5m, codomiant  181  5027712.361  44888.381    546  Sugar Maple  Acer soccharum  Treatment Facility  38  380  5  Good  Remove, construction  Nion at 1.5m, codomiant  181  502771.303  44888.378    548  Norway Maple  Acer soccharum  Treatment Facility  34  340  4  Fair  Remove, construction  Globack in crown, proken branches removed.  181  502771.034  44888.391    551  White Spruce  Pice glouca  Treatment Facility  34  <			· · ·	,			-						
S44  Cherry Plum  Prunus cerasifera  Treatment Facility  24,18,14  240  3  Good  Remove, grading  Multi Stem  No.    S45  White Spruce  Pice a flaca  Treatment Facility  36  360  5  Good/Fair  Remove, construction  International State  187  5027723 484  448871.836    S46  Sugar Maple  Acer soccharum  Treatment Facility  42  420  5  Good/Fair  Remove, construction  Union at 15.m, codominant  181  5027721.848  448887.988    S47  White Spruce  Pice a flaca  Treatment Facility  38  380  5  Good  Remove, construction  No any Maple  Acer platanoides  Treatment Facility  34  340  4  Fair  Remove, construction  Glod a consy, good taper.  181  502770.85  448883.915    S51  White Spruce  Pice a flaca oid  Treatment Facility  34  340  3  Fair  Remove, construction  Glod a consy, good taper.  181  5027707.85  448885.92		,	-	,	1								
945  White Spruce  Pice a glouca  Treatment Facility  36  360  5  Good/Fair  Retain  Some canopy dieback  181  927722.561  448881.28    546  Sugar Maple  Accr soccharum  Treatment Facility  38  380  5  Good/Fair  Remove, construction  No at 1.5m, codominat  181  927722.561  448881.28    547  White Spruce  Pice a glouca  Treatment Facility  38  380  5  Good / Remove, construction  No at 1.5m, codominat  181  927727.818  448884.34    548  Norway Maple  Acer soccharum  Treatment Facility  36  340  4  Fair  Remove, construction  deleaktin crown, broke maches removed.  181  502771.038  448884.34    551  White Spruce  Pice a glouca  Treatment Facility  34  340  3  Fair  Remove, construction  bleaktin crown, bode harches removed.  181  502770.585  448888.54    553  Norway Maple  Acer platanoides  Treatment Facility  24  240		,		· · · · ·									
S46  Sugar Maple  Acer saccharum  Treatment Facility  42  420  5  Good/Fair  Remove, construction  Union at 1.5m, codominant  1817  502772.72.72  448885.788    547  White Spruce <i>Dicea glauca</i> Treatment Facility  38  380  5  Good  Remove, construction  No sign of disease  187  502772.78.23  448884.34    548  Norway Maple  Acer glatanoides  Treatment Facility  34  340  4  Fair  Remove, construction  disease  187  502771.80.34  448884.34    551  White Spruce  Picca glauca  Treatment Facility  34  340  4  Fair  Remove, construction  dieback in crown, broken branches removed.  181  502771.80.34  448883.915    551  White Spruce  Picca glauca  Treatment Facility  34  340  3  Fair  Remove, construction  Good canopy, good taper.  181  502770.80.34  448895.524    552  Norway Maple  Acer platanoides  Treatment Facility  14		,	,	,									
547  White Spruce  Picea glauca  Treatment Facility  38  380  5  Good  Remove, construction  No sign of disease  181  5027721.638  448884.34    548  Norway Maple  Acer platanoides  Treatment Facility  26  260  4  Good  Remove, construction  Good canopy, good taper.  181  5027718.034  448881.315    551  White Spruce  Picea glauca  Treatment Facility  34  340  3  Fair  Remove, construction  lieback in crown, proken branches removed.  181  5027707.683  448888.315    552  Norway Maple  Acer platanoides  Treatment Facility  24  240  4  Good  Remove, construction  Good canopy  181  5027705.62  448888.524    553  Norway Maple  Acer platanoides  Treatment Facility  18  180  3  Good  Retain  On slope, adjacent existing CHEO  181  5027703.707  4489350.763    554  Japanese Lilac  Syring reticulata  Treatment Facility  14													
548  Norway Maple  Acer platanoides  Treatment Facility  26  260  4  Good  Remove, construction  Good canopy, good taper.  181  5027718.034  448891.438    549  Sugar Maple  Acer soccharum  Treatment Facility  34  340  4  Fair  Remove, construction  Deleak in crown, good taper.  181  5027713.033  448883.485    551  White Spruce  Pice a glaca  Treatment Facility  34  340  3  Fair  Remove, construction  Deleak in crown, good taper.  181  5027773.033  448883.485    552  Norway Maple  Acer platanoides  Treatment Facility  24  400  4  Good  Remove, construction  Good canopy, agocent sing CHEO  181  5027705.693  448895.524    554  Norway Maple  Acer platanoides  Treatment Facility  18  180  3  Good  Retain  On slope, adjacent existing CHEO  181  5027703.707  448933.045    555  Japanese Lilac  Syringg reticulata  Treatment Facility  <				,				· · · ·		· · · · · · · · · · · · · · · · · · ·			
S51  White Spruce  Pice glauca  Treatment Facility  34  340  3  Fair  Remove, construction  Dieback in crown, good taper.  18T  5027707.685  448888.485    S52  Norway Maple  Acer platanoides  Treatment Facility  46  460  3  Good  Remove, construction  Good canopy  Good canopy  18T  5027707.685  448885.524    S53  Norway Maple  Acer platanoides  Treatment Facility  24  240  4  Good  Remove, construction  Good canopy  Good canopy  18T  5027707.685  448895.524    S54  Norway Maple  Acer platanoides  Treatment Facility  18  180  3  Good  Retain  On slope, adjacent existing CHEO  18T  5027703.707  448939.097    S55  Japanese Lilac  Syring articulata  Treatment Facility  14  140  2  Fair/Poor  Retain  Singlicant frost damage, reduced anopy.  18T  502760.477  448963.045    S56  Japanese Lilac  Syring articulata  T	548	Norway Maple	Acer platanoides	Treatment Facility	26	260	4	Good	Remove, construction	Good canopy, good taper.	18T	5027718.034	448891.438
552  Norway Maple  Acer platanoides  Treatment Facility  46  460  3  Good  Remove, construction  Good canopy  18T  5027709.598  448895.524    553  Norway Maple  Acer platanoides  Treatment Facility  24  240  4  Good  Retain  On slope, adjacent existing CHEO  18T  5027709.504  448935.524    554  Norway Maple  Acer platanoides  Treatment Facility  18  180  3  Good  Retain  On slope, adjacent existing CHEO  18T  5027709.504  448935.924    555  Japanese Lilac  Syringa reticulata  Treatment Facility  16  160  3  Good  Retain  Multi Stem, >90% canopy  18T  5027664.07  448950.763    556  Japanese Lilac  Syringa reticulata  Treatment Facility  14  140  2  Fair/Poor  Retain  Unitot stem, >90% canopy  18T  502764.071  448950.363    557  Silver Maple  Acer saccharum  Treatment Facility  20,26  260  4 </td <td>549</td> <td>Sugar Maple</td> <td>Acer saccharum</td> <td>Treatment Facility</td> <td>34</td> <td></td> <td>4</td> <td>Fair</td> <td>Remove, construction</td> <td>dieback in crown, broken branches removed.</td> <td>18T</td> <td>5027713.093</td> <td>448883.915</td>	549	Sugar Maple	Acer saccharum	Treatment Facility	34		4	Fair	Remove, construction	dieback in crown, broken branches removed.	18T	5027713.093	448883.915
553Norway MapleAcer platanoidesTreatment Facility242404GoodRetainOn slope, adjacent existing CHEO18T5027705.624448928.514554Norway MapleAcer platanoidesTreatment Facility181803GoodRetainOn slope, adjacent existing CHEO18T5027703.707448939.097555Japanese LilacSyringa reticulataTreatment Facility161603GoodRetainMulti Stem, >90% canopy18T502760.477448963.145557Silver MapleAcer saccharinumTreatment Facility141402Fair/PoorRetainUnion at base.18T502760.477448963.145558Sugar MapleAcer saccharinumTreatment Facility20,262604GoodRetainUnion at base.18T502764.175448963.945559White SprucePicca glaucaTreatment Facility303002Fair/PoorRemove, constructionToe leaders, weak union at 2m.18T502764.053448953.125560Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027564.551448957.879561Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T502754.551448957.879562Common BuckthornRhamus catharticaTreatment Fac		White Spruce	Picea glauca	Treatment Facility					Remove, construction				
554Norway MapleAcer platanoidesTreatment Facility181803GoodRetainOn slope, adjacent existing CHEO18T5027703.707448939.097555Japanese LilacSyringa reticulataTreatment Facility161603GoodRetainMulti Stem, >90% canopy18T5027685.393448950.763556Japanese LilacSyringa reticulataTreatment Facility141402Fair/PoorRetainSignificant frost damage, reduced canopy.18T502760.477448963.145557Silver MapleAcer sacchariumTreatment Facility20,262604GoodRetainUnion at base.18T502764.203448953.305558Sugar MapleAcer sacchariumTreatment Facility484805FairRemove, constructionTwo leaders, weak union at 2m.18T502764.033448953.309559White SprucePicea glaucaTreatment Facility303002Fair/PoorRemove, constructionleaning, codominant at top.18T5027640.563448951.225560Common BuckthomRhamnus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T502754.551448957.406561Common BuckthomRhamnus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T502754.551448974.086562Common BuckthomRh				,									
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556Japanese LilacSyringa reticulataTreatment Facility141402Fair/PoorRetainSignificant frost damage, reduced canopy.18T502760.477448963.145557Silver MapleAcer saccharinumTreatment Facility20,262604GoodRetainUnion at base.18T502764.203448963.945558Sugar MapleAcer saccharumTreatment Facility484805FairRemove, constructionTwo leaders, weak union at 2m.18T502764.203448955.309559White SprucePicea glaucaTreatment Facility303002Fair/PoorRemove, constructionleaning, codominant at top.18T502764.053448955.309560Common BuckthornRhannus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T502750.457448978.458561Common BuckthornRhannus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T502755.557448978.458562Common BuckthornRhannus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T502755.557448978.458561Common BuckthornRhannus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T502755.557448978.458563Common Buckthorn		· · · ·		, · · · · · · · · · · · · · · · · · · ·									
557Silver MapleAcer saccharinumTreatment Facility20,262604GoodRetainUnion at base.558Sugar MapleAcer saccharumTreatment Facility484805FairRemove, constructionTwo leaders, weak union at 2m.18T5027664.203448963.945559White SprucePicea glaucaTreatment Facility303002Fair/PoorRemove, constructionleaning, codominant at top.18T5027640.563448951.225560Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T502754.551448978.408561Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T502754.551448978.408562Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T502754.551448978.408563Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027548.435448940.281564Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027548.435448940.281563Common BuckthornRhamus catharticaTreatment Facility12 </td <td></td> <td></td> <td>, ,</td> <td>· · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			, ,	· · · · ·									
558Sugar MapleAcer saccharumTreatment Facility484805FairRemove, constructionTwo leaders, weak union at 2m.18T5027641.758448955.309559White SprucePice glaucaTreatment Facility303002Fair/PoorRemove, constructionleaning, codominant at top.18T5027640.563448951.225560Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027551.525448979.878561Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027554.551448978.408562Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027552.957448978.408563Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027552.957448977.06563Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027548.435448940.281564Common BuckthornRhamus catharticaTreatment Facility101002GoodRemove, gradingMulti-stem, Invasive18T5027550.417448924.113				,									
559White SprucePice a glaucaTreatment Facility303002Fair/PoorRemove, constructionleaning, codominant at top.18T5027640.563448951.225560Common BuckthornRhamnus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027551.525448979.878561Common BuckthornRhamnus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027554.551448978.408562Common BuckthornRhamnus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027554.551448978.408563Common BuckthornRhamnus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T502754.435448970.663563Common BuckthornRhamnus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T502754.435448970.831563Common BuckthornRhamnus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T502754.435448970.831563Common BuckthornRhamnus catharticaTreatment Facility101002GoodRemove, gradingMulti-stem, Invasive18T5027550.417448924.113564Common Buckth								1					
560Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027551.525448979.878561Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027554.551448979.878562Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027554.551448978.408563Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T5027554.957448978.408563Common BuckthornRhamus catharticaTreatment Facility121203GoodRemove, gradingMulti-stem, Invasive18T502754.435448970.68564Common BuckthornRhamus catharticaTreatment Facility101002GoodRemove, gradingMulti-stem, Invasive18T5027550.417448924.113		• ·		,									
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563  Common Buckthorn  Rhamnus cathartica  Treatment Facility  12  120  3  Good  Remove, grading  Multi-stem, Invasive  18T  5027548.435  448940.281    564  Common Buckthorn  Rhamnus cathartica  Treatment Facility  10  100  2  Good  Remove, grading  Multi-stem, Invasive  18T  5027550.417  448940.281				,						· · ·			
564  Common Buckthorn  Rhamnus cathartica  Treatment Facility  10  100  2  Good  Remove, grading  Multi-stem, Invasive  18T  5027550.417  448924.113				,									
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Tag #	Species	Scientific Name	Location	DBH (cm)	Critical Root Zone (CRZ) (cm)	Dripline	Health	Recommendation	Field Notes/Condition Comments	Zone	Northing	Easting
566	Common Buckthorn	Rhamnus cathartica	Treatment Facility	10,10,12	120	4	Good	Remove, construction	Multi-stem, Invasive	18T	5027708.978	448874.975
567	Common Buckthorn	Rhamnus cathartica	Treatment Facility	10	100	4	Good	Remove, construction	Multi-stem, Invasive	18T	5027710.347	448875.821
568	Japanese Lilac	Syringa reticulata	Treatment Facility	12	120	2	Good	Retain	Mulched, Good condition	18T	5027680.891	448949.42
569	Japanese Lilac	Syringa reticulata	Treatment Facility	10	100	2	Good	Retain	Mulched, good canopy	18T	5027668.643	448959.351
570	White Spruce	Picea glauca	Treatment Facility	28	280	3	Fair	Remove, construction	Codominant at top, branch die back throughout	18T	5027673.394	448922.219
571	White Spruce	Picea glauca	Treatment Facility	34	340	4	Fair	Remove, construction	Some Branch dieback, good taper.	18T	5027671.574	448926.092
572	White Spruce	Picea glauca	Treatment Facility	28	280	3	Fair	Remove, construction	Moderate branch dieback	18T	5027668.782	448926.338
573	Cherry Plum	Prunus cerasifera	Treatment Facility	16,18,18,28	280	7	Good	Remove, construction	Some rot on limb, multi stem	18T	5027667.806	448930.456
574	Cherry Plum	Prunus cerasifera	Treatment Facility	14,12,12	140	6	Good	Remove, construction	Multi-stem, good canopy.	18T	5027648.398	448931.449
575	White Spruce	Picea glauca	Treatment Facility	44	440	4	Fair	Remove, construction	Branch dieback, topped.	18T	5027636.289	448931.598
576	White Spruce	Picea glauca	Treatment Facility	32	320	3	Fair	Remove, construction	Branch dieback, topped.	18T	5027633.511	448934.92
577	White Spruce	Picea glauca	Treatment Facility	26	260	3	Fair/Poor	Remove, construction	Sweep mid trunk, branch dieback, trunk wound	18T	5027640.964	448943.739
578	White Spruce	Picea glauca	Treatment Facility	38	380	6	Good/Fair	Remove, construction	Branch dieback in crown, good taper	18T	5027643.792	448947.661
579	White Spruce	Picea glauca	Treatment Facility	38	380	4	Good/Fair	Remove, construction	Dieback at top of crown	18T	5027639.511	448946.526
580	White Spruce	Picea glauca	Treatment Facility	38	380	4	Good/Fair	Remove, construction	Good taper, some branch dieback	18T	5027634.292	448960.371
581	Cherry Plum	Prunus cerasifera	Treatment Facility	20,20,24	240	7	Good	Remove, construction	Multi-stem, suckering at previous limb removal	18T	5027636.731	448956.908
582	White Spruce	Picea glauca	Treatment Facility	38	380	3	Fair	Remove, construction	Slight lean, branch dieback	18T	5027632.447	448952.083
583	White Spruce	Picea glauca	Treatment Facility	34	340	4	Fair	Remove, construction	Branch dieback, reduced canopy.	18T	5027635.022	448949.795
584	Norway Maple	Acer platanoides	Treatment Facility	16	160	3	Fair	Remove, construction	Dead branch, reduced canopy	18T	5027620.365	448982.226
585	Norway Maple	Acer platanoides	Treatment Facility	18	180	2	Fair	Remove, construction	Frost crack on trunk, weak union at 170cm.	18T	5027610.32	448990.412
586	Norway Maple	Acer platanoides	Treatment Facility	16	160	2	Fair	Remove, construction	Branch dieback, reduced canopy.	18T	5027605.299	448995.243

# Appendix B

Figure #2 - Tree Inventory and CRZ for Proposed Parking Garage



#### Legend

C

- Tree Inventory (DBH)
- Critical Root Zone
  - Recommended to be Removed
  - Recommended to be Retained

Figure #2 Tree Inventory - Parking Garage				
Arborist Report for 401 Smyth Road, City of Ottawa				
Prepared for: C	HEO			
	LTING INC.			
DATE: August 2022	FILE: C21114			

# Appendix C

Figure #3 - Tree Inventory and CRZ for Proposed Treatment Facility



Critical Root Zone

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- Recommended to be Removed
- Recommended to be Retained

Figure #3					
Tree Inventory - T	reatment Facility				
Proposed Parking Garage 401 Smyth Road, Ottawa					
Prepared for:	CHEO				
	SULTING INC.				
DATE: August 2022	FILE: C21114				

### Appendix D

Site Photographs -Proposed Parking Garage



Photo 1: View east from sidewalk at landscaping along Ring Road.



**Photo 2**: View of vegetation along north fence line of existing parking area and small oak woodlot feature north of existing parking lot



Photo 3: Ripped limb damage on tree #519



Photo 4: Trunk girdling on tree #504



**Photo 5**: Cedar tree #514 with staking still attached



Photo 6: White Oak #512 in landscaped area adjacent Ring Road.



**Photo 7** : White Oak #518 at northeast corner of parking lot, surrounded by buckthorn



Photo 8: Tree #509 adjacent Ring Road.



Photo 9: Frost crack on tree #520.



Photo 10: Possible slime flux or other disease on Tree #529 root collar. Tree located in woodland north of existing parking area.

## Appendix E

Site Photographs -Proposed Treatment Facility



**Photo 1**: Trees along front of existing CHEO building, viewing northeast.



Photo 2: Example of vegetation conditions within hedgerow along Ring Road.



Photo 3: Cluster of trees in landscaped area southwest of CHEO main entrance.



Photo 4: Landscaped area adjacent existing CHEO main entrance.



Photo 5: Tree's immediately adjacent existing CHEO building, viewing north.



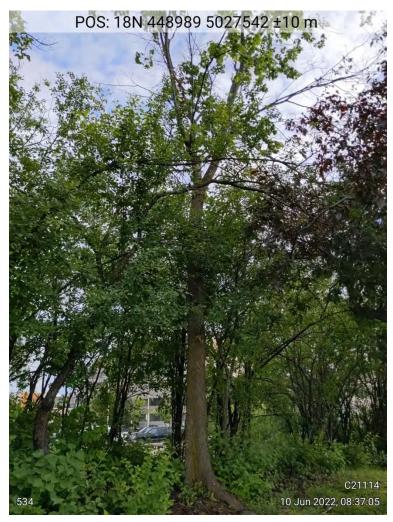
Photo 6: Hedgerow at southwest corner of Subject Lands as viewed from parking lot.



**Photo 7**: Norway Maple #584 adjacent parking, reduced canopy.



**Photo 8**: Tree #532, American Elm, codominant with weak union at 2 metres



**Photo 9**: Tree #534 in poor/fair condition with significant canopy dieback.



**Photo 10**: Tree #533 at the southeast corner of the Subject Lands



**Photo 11**: Tree #556 adjacent CHEO main entrance, fair condition with reduced canopy.



**Photo 12**: Tree #549 adjacent foot path, branches previously removed.



**Photo 13**: Tree #546, weak union at 1.5 metres.

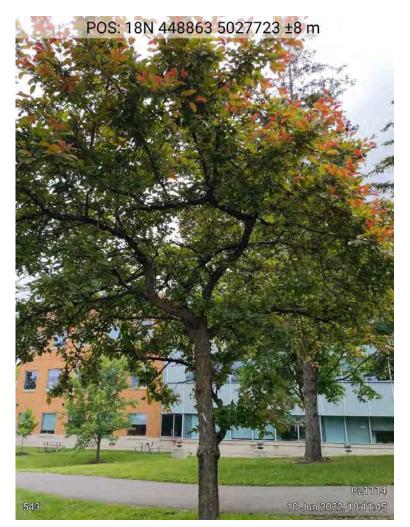


Photo 14: Tree #543 adjacent foot path.



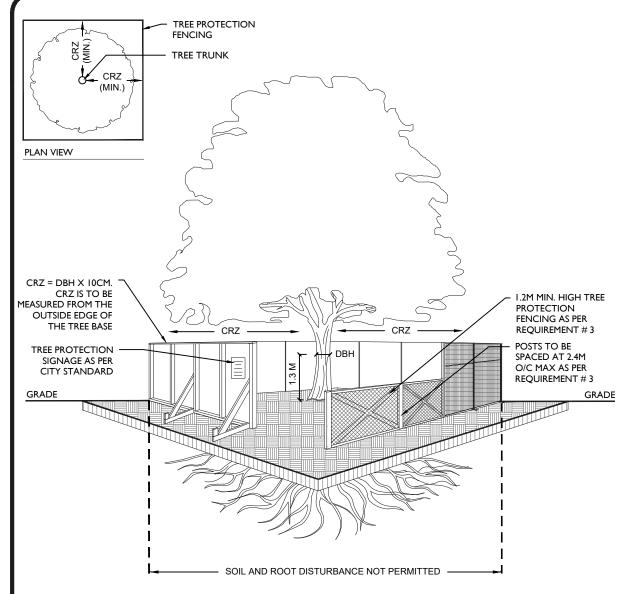
**Photo 15**: Tree #537 adjacent Ring Road, roots exposed at surface, compacted soil present on site



**Photo 16**: Tree #562, example of larger DBH Common Buckthorn present in hedgerows around parking area.

# Appendix F

City of Ottawa Tree Protection Specifications



#### TREE PROTECTION REQUIREMENTS:

- 1. PRIOR TO ANY WORK ACTIVITY WITHIN THE CRITICAL ROOT ZONE (CRZ = 10 X DIAMETER) OF A TREE, TREE PROTECTION FENCING MUST BE INSTALLED SURROUNDING THE CRITICAL ROOT ZONE, AND REMAIN IN PLACE UNTIL THE WORK IS COMPLETE.
- 2. UNLESS PLANS ARE APPROVED BY CITY FORESTRY STAFF, FOR WORK WITHIN THE CRZ:
  - DO NOT PLACE ANY MATERIAL OR EQUIPMENT INCLUDING OUTHOUSES;
  - DO NOT ATTACH ANY SIGNS, NOTICES OR POSTERS TO ANY TREE;
- DO NOT RAISE OR LOWER THE EXISTING GRADE;
- TUNNEL OR BORE WHEN DIGGING;
- DO NOT DAMAGE THE ROOT SYSTEM, TRUNK, OR BRANCHES OR ANY TREE;
- ENSURE THAT EXHAUST FUMES FROM ALL EQUIPMENT ARE NOT DIRECTED TOWARD ANY TREE CANOPY.
- DO NOT EXTEND HARD SURFACE OR SIGNIFICANTLY CHANGE LANDSCAPING
- 3. TREE PROTECTION FENCING MUST BE AT LEAST 1.2M IN HEIGHT, AND CONSTRUCTED OF RIGID OR FRAMED MATERIALS (E.G. MODULOC - STEEL, PLYWOOD HOARDING, OR SNOW FENCE ON A 2"X4" WOOD FRAME) WITH POSTS 2.4M APART, SUCH THAT THE FENCE LOCATION CANNOT BE ALTERED. ALL SUPPORTS AND BRACING MUST BE PLACED OUTSIDE OF THE CRZ, AND INSTALLATION MUST MINIMISE DAMAGE TO EXISTING ROOTS. (SEE DETAIL)
- 4. THE LOCATION OF THE TREE PROTECTION FENCING MUST BE DETERMINED BY AN ARBORIST AND DETAILED ON ANY ASSOCIATED PLANS FOR THE SITE (E.G. TREE CONSERVATION REPORT, TREE INFORMATION REPORT, ETC). THE PLAN AND CONSTRUCTED FENCING MUST BE APPROVED BY CITY FORESTRY STAFF PRIOR TO THE COMMENCEMENT OF WORK.
- 5. IF THE FENCED TREE PROTECTION AREA MUST BE REDUCED TO FACILITATE CONSTRUCTION, MITIGATION MEASURES MUST BE PRESCRIBED BY AN ARBORIST AND APPROVED BY CITY FORESTRY STAFF. THESE MAY INCLUDE THE PLACEMENT OF PLYWOOD, WOOD CHIPS, OR STEEL PLATING OVER THE ROOTS FOR PROTECTION OR THE PROPER PRUNING AND CARE OF ROOTS WHERE ENCOUNTERED.

THE CITY'S TREE PROTECTION BY-LAW, 2020-340 PROTECTS BOTH CITY-OWNED TREES, CITY-WIDE, AND PRIVATELY-OWNED TREES WITHIN THE URBAN AREA. PLEASE REFER TO WWW.OTTAWA.CA/TREEBYLAW FOR MORE INFORMATION ON HOW THE TREE BY-LAW APPLIES.

ACCESSIBLE FORMATS AND COMMUNICATION SUPPORTS ARE AVAILABLE, UPON REQUEST



TO BE IMPLEMENTED FOR RETAINED TREES, BOTH ON SITE AND ON ADJACENT SITES, PRIOR TO ANY TREE REMOVAL OR SITE WORKS AND MAINTAINED FOR THE DURATION OF WORK ACTIVITIES ON SITE.

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DATE:	MARCH 2021
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