



October 30, 2024

ARBORIST REPORT

705 Kingston Road, Pickering, Ontario

BACKGROUND

MHBC was retained to conduct an inventory of the existing trees within the boundaries of the property known as 705 Kingston Road, as they pertain to the City of Pickering Tree By-laws. This investigation examined 88 trees within and around the subject property. Field work was completed October 11, 2024, this report relates to the condition of the trees at that time.

PROCEDURE

The on-site inventory of existing trees was carried out using the current survey of the property and relies on the accuracy of this survey. The inventory includes all trees within the site boundary, all trees within 6.0 metres of the site boundary and all City owned trees along the adjacent boulevards.

This inventory is summarized graphically in the Tree Inventory Plans TI-1 – TI-2, which shall always be read in conjunction with this report and shall form part of this report. For the purposes of this report, trees and groupings of trees are identified in terms of species, size, condition, and recommendations.

The following rating system was used in describing the general condition of the trees inventoried:

- Good: Indicates a condition of vigor and no major concerns.
- Fair: Indicates an adequate tree, which may have some minor issues.
- Poor: Indicates declining health, bad form, or other more serious issues.
- Dead: Indicates a dead tree that should be removed.

ASSUMPTIONS AND LIMITING CONDITIONS

- Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible and is assumed to be correct; however MHBC can neither guarantee nor be responsible for the accuracy of information provided by others.
- It is assumed that the properties are not in violation of any applicable codes, ordinances, statutes, or other governmental regulations.
- Unless otherwise required by law, possession of this report or a copy thereof does not imply right of publication or use for any purpose in whole or in part by any other than the person or company by whom it was commissioned.
- The use of excerpts from this report or alterations to this report, without the authorization of MHBC Planning will invalidate the entire report. This report may not be used for any purpose other than its intended purpose as outlined.

- Unless expressed otherwise: 1) information contained in this report covers only those items that were examined and reflect the condition of those items at the time of inspection; and 2) the inspection is limited to visual examination or accessible items without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies in the plants inventoried may not arise in the future.
- The determination of ownership of any subject tree(s) is the responsibility of the owner and any civil or common-law issues, which may exist between property owners with respect to trees, must be resolved by the owner. The recommendation to remove or maintain any tree(s) does not grant authority to encroach in any manner onto adjacent private properties.

SUMMARY OF TREES INVENTORIED

Tree #	Common Name	Botanical Name	DBH (CM)	Condition	Comments	Recommendation
201	Honey Locust	Gleditsia triacanthos	16	F		Remove due to construction
202	Honey Locust	Gleditsia triacanthos	21	F		Remove due to construction
203	Honey Locust	Gleditsia triacanthos	22	F		Remove due to construction
204	Honey Locust	Gleditsia triacanthos	25	F		Remove due to construction
205	Honey Locust	Gleditsia triacanthos	22	F		Remove due to construction
206	Honey Locust	Gleditsia triacanthos	17	F		Remove due to construction
207	Honey Locust	Gleditsia triacanthos	28	F		Remove due to construction
208	Austrian Pine	Pinus nigra	20	F/P	Moderate deadwood in canopy	Remove due to construction
209	Austrian Pine	Pinus nigra	26	F	Minor deadwood in canopy	Remove due to construction
210	Honey Locust	Gleditsia triacanthos	6	F		Remove due to construction
211	Honey Locust	Gleditsia triacanthos	6	F		Remove due to construction
212	Honey Locust	Gleditsia triacanthos	6	F		Remove due to construction
213	Manitoba Maple	Acer negundo	26	P	Moderate to significant deadwood in canopy, 2 stem at 0.4m, 1 stem with Moderate lean	Remove due to construction
214	Honey Locust	Gleditsia triacanthos	37	F		Remove due to construction

215	Austrian Pine	Pinus nigra	37	F	Mild lean, minor deadwood in canopy	Remove due to construction
216	Austrian Pine	Pinus nigra	25	F/P	Imbalanced canopy	Remove due to construction
217	Austrian Pine	Pinus nigra	32	P	Moderate deadwood throughout	Remove due to construction
218	Austrian Pine	Pinus nigra	27	P/D	Significant deadwood, tree is 98% dead	Remove due to construction
219	Austrian Pine	Pinus nigra	23	P/D	Significant deadwood, elevated canopy, tree is 80% dead	Remove due to construction
220	Linden Sp.	Tilia Sp.	3	F	Mild lean	Retain
221	Linden Sp.	Tilia Sp.	3	F	Moderate lean	Retain
222	American Elm	Ulmus americana	4	D	Tree is 100% dead	Retain
223	American Elm	Ulmus americana	4	F		Retain
224	Dead Deciduous		4	D	Tree is 100% dead	Retain
225	Austrian Pine	Pinus nigra	34	F	Mild lean	Remove due to construction
226	Austrian Pine	Pinus nigra	34	F		Remove due to construction
227	Tamarack	Larix laricina	2	F		Retain
228	Tamarack	Larix laricina	2	F		Retain
229	White Spruce	Picea glauca	6	P/D	Significant deadwood throughout, tree is 85% dead	Remove due to construction
230	White Spruce	Picea glauca	6	P/D	Significant deadwood throughout, tree is 80% dead	Retain
231	White Spruce	Picea glauca	4	F	Mild lean	Retain
232	White Spruce	Picea glauca	7	P	Previously topped, moderate deadwood throughout	Retain
233	White Spruce	Picea glauca	3	F		Retain
234	White Spruce	Picea glauca	3	F	Mild lean	Retain
235	Red Maple	Acer rubrum	8	F	Damage at base	Retain
236	Red Maple	Acer rubrum	7	P	Significant deadwood throughout, damage at base	Retain
237	Red Maple	Acer rubrum	8	F/P	Minor deadwood in canopy, damage at base	Retain
238	Norway Maple	Acer platanoides	34	F/P	Moderate deadwood throughout, tar spots	Remove due to construction
239	Norway Maple	Acer platanoides	28	F	Tar spots	Retain
240	Austrian Pine	Pinus nigra	34	P	Significant deadwood throughout	Retain
241	Austrian Pine	Pinus nigra	31	P	Significant deadwood throughout, 2 stem at 1.1m	Retain

242	Austrian Pine	Pinus nigra	23	P/D	Significant deadwood throughout, tree is 80% dead, elevated canopy, bow in trunk	Retain
243	Austrian Pine	Pinus nigra	37	F/P	Moderate to significant deadwood throughout	Retain
244	Honey Locust	Gleditsia triacanthos	30	F		Retain
245	Honey Locust	Gleditsia triacanthos	41	F		Retain
246	Austrian Pine	Pinus nigra	34	F	Mild lean	Retain
247	Austrian Pine	Pinus nigra	34	F	Mild lean	Retain
248	Austrian Pine	Pinus nigra	35	F		Retain
249	Austrian Pine	Pinus nigra	37	F	Mild bow in trunk	Retain
250	Honey Locust	Gleditsia triacanthos	39	F		Retain
251	Honey Locust	Gleditsia triacanthos	47	F		Retain
252	Austrian Pine	Pinus nigra	32	F	Minor deadwood throughout	Retain
253	Austrian Pine	Pinus nigra	31	F/P	Moderate to significant deadwood throughout, 3 stem at 0.9m, bow in trunk	Retain
254	Austrian Pine	Pinus nigra	28	F	Minor deadwood throughout, mild lean, bow in trunk, 2 stem at 1.0m	Retain
255	Austrian Pine	Pinus nigra	34	F/P	Moderate to significant deadwood throughout	Retain
256	Honey Locust	Gleditsia triacanthos	38	F		Retain
257	Honey Locust	Gleditsia triacanthos	46	F		Retain
258	Austrian Pine	Pinus nigra	43	F		Retain
259	Austrian Pine	Pinus nigra	26	F/P	2 stem at 1.0m, elevated canopy, moderate deadwood throughout	Retain
260	Austrian Pine	Pinus nigra	19	P	Bow in trunk, elevated canopy, moderate to significant deadwood throughout	Retain
261	Austrian Pine	Pinus nigra	37	F/P	Moderate to significant deadwood throughout	Retain
262	Austrian Pine	Pinus nigra	31	F/P	Moderate deadwood throughout	Retain
263	Austrian Pine	Pinus nigra	38	F	Mild lean	Remove due to construction

264	Austrian Pine	Pinus nigra	26	F		Remove due to construction
265	Austrian Pine	Pinus nigra	29	F		Retain
266	Austrian Pine	Pinus nigra	26	F		Retain
267	Honey Locust	Gleditsia triacanthos	18	F		Remove due to construction
268	Honey Locust	Gleditsia triacanthos	25	F		Remove due to construction
O1	Siberian Elm	Ulmus pumila	~16	F	Multi-stem	Retain
O2	Siberian Elm	Ulmus pumila	~19	F	Multi-stem	Retain
O3	Buckthorn	Rhamnus	~8	F	Multi-stem	Retain
O4	Buckthorn	Rhamnus	~7	F	Multi-stem	Retain
O5	Russian Olive	Elaeagnus angustifolia	~12	F		Retain
O6	Willow	Salix	~52	F		Retain
O7	Austrian Pine	Pinus nigra	~13	D	100% dead	Retain
O8	Austrian Pine	Pinus nigra	~24	F	3 stem	Retain
O9	Austrian Pine	Pinus nigra	~13	F		Retain
O10	Austrian Pine	Pinus nigra	~18	F		Retain
O11	Austrian Pine	Pinus nigra	~21	F		Retain
269	Honey Locust	Gleditsia triacanthos	19	F		Remove due to construction
270	Siberian Elm	Ulmus pumila	17	F	Minor deadwood throughout	Remove due to construction
271	Austrian Pine	Pinus nigra	22	F	Minor deadwood in canopy	Remove due to construction
272	Austrian Pine	Pinus nigra	21	P/D	Significant deadwood in canopy, tree is 80% dead	Remove due to construction
273	Schwedler Maple	Acer platanoides var. schwedleri	7	F		Remove due to construction
274	Ornamental Pear	Pyrus calleryana	4	F		Retain
275	Ornamental Pear	Pyrus calleryana	3	F		Retain
276	Ornamental Pear	Pyrus calleryana	4	F		Retain
277	Ornamental Pear	Pyrus calleryana	4	F	Bow in trunk	Retain

The above table summarizes the on-site trees. The remaining trees will be subject to tree protection per City of Pickering standards as outlined on drawings 1-TI-2. It is noted that not all trees marked for retention require tree protection hoarding. Refer to TI-1 for size and layout of tree protection hoarding.

PHOTO RECORD



Tree 201



Tree 202



Tree 203



Tree 204



Tree 205, 206



Tree 207



Trees 208, 209



Tree 210



Trees 211, 212



Trees 213, 214



Trees 215 – 219



Tree 220



Tree 221



Tree 222



Trees 223, 224



Tree 225



Tree 226



Trees 227 – 229



Trees 230 – 233



Trees 234, 235



Trees 236, 237



Tree 238



Tree 239



Trees 240 – 244



Trees 245, 246



Trees 247 – 249



Trees 250, 251



Trees 252 – 255



Trees 256, 257



Trees 258 – 262



Trees 263, 264



Trees 265, 266



Tree 267



Tree 268



Tree 269



Tree 270



Trees 271, 272



Tree 273



Tree 274



Trees 275 – 277



Tree O1



Tree O2



Trees O3, O4



Trees O5 – O11

TREE PROTECTION RECOMMENDATIONS

The following standards shall apply to any trees that are identified to be retained. Where the municipality enforces its own standards, those of the governing municipality shall supersede the recommendations contained herein. In all other instances, the following recommendations shall be treated as minimum standards for tree protection and retention.

1.0 ESTABLISH A TREE PROTECTION ZONE

The purpose of the tree protection zone is to prevent root damage, soil compaction and soil contamination during construction activities. Workers and machinery shall not disturb the tree protection zone in any way. In order to prevent access, the following recommendations are offered.

- Install tree protection hoarding as per City of Pickering detail 1-TI-2.
- Allow no fill, equipment, supplies, or waste within the tree protection zone.
- Maintain the tree protection hoarding in good condition for the duration of construction.
- Tree protection hoarding is not to be removed until all construction activities have been completed.

2.0 ROOT PRUNING

Where possible, hand dig areas closest to each tree to prevent any unnecessary tearing or pulling of roots. Removal of roots that are greater than 2.5 centimeters in diameter or roots that are injured or diseased should be performed as follows:

- Preserve the root bark ridge (similar in structure to the branch bark ridge). Directional Root Pruning (DRP) is the recommended technique and should be employed during hand excavation around tree roots. Roots are similar to branches in their response to pruning practices. With DRP, objectionable and severely injured roots are properly cut to a lateral root that is growing downward or in a favorable direction.
- All roots needing to be pruned or removed shall be cut cleanly with sharp hand tools, by a Certified Arborist.
- No wound dressings or pruning paint shall be used to cover the ends of each cut.
- All roots requiring pruning shall be cut using any of the following tools:
Large or small loppers, Hand pruners, Small hand saws, Wound scribes
- Avoid prolonged exposure of tree roots during construction - keep exposed roots moist and dampened with mulching materials, irrigation or wrap in burlap if exposed for longer than 4 hours.

3.0 FERTILIZATION AND IRRIGATION

The following measures are recommended:

- Aeration and deep root fertilize to ensure that all trees receive the appropriate nutrients for healthy growth.
- Fertilizer must be a low nitrogen formula such as 5-30-30 to promote root growth rather than shoot growth.
- If construction occurs during July and / or August, roots must be irrigated during conditions of drought.

4.0 ESTABLISH MAINTENANCE PROGRAM

Pre-Construction:

- Prune all trees to remove any deadwood and obstruction prune as required.

During Construction:

- Irrigate tree preservation zones during drought conditions (June through September), in an attempt to reduce the effects of drought stress.
- Inspect the site every month to ensure that all tree protection fence / hoarding is in place and in good condition, inspect the trees to monitor condition.

Post-Construction:

- Prune crowns to remove any newly developed deadwood only. Do not remove any live growth.
- Inspect the trees three times per year (May, July, and September) to monitor condition for a minimum period of 2 additional years.

5.0 LANDSCAPING

Any landscaping completed within the tree preservation zones, after construction is completed and tree protection fencing / hoarding has been removed, is to be carried out in such a way that it will not cause damage to any of the trees or their roots. The trees must be protected to the same standards listed earlier in this report, but without the use of tree protection fence or hoarding.

The following guidelines are recommended:

- **No grade changes** are permitted which include adding and/or removing soil.
- **No excavation** is permitted that can cause damage to the roots of the tree.
- **No heavy equipment** can be used to compact the soil within the tree preservation zone.
- Where possible, hard surface paving around trees to be protected should be constructed using permeable products such as interlocking stone. Areas to be paved must be hand dug when encroaching within the tree protection zone.

CONCLUSIONS

Based on our investigations, we are of the opinion that thirty-two (32) of the trees inventoried will require removal to facilitate the proposed construction. All other trees can be successfully retained if the recommendations within this report are followed. No tree shall be harmed or removed prior to applying for and receiving the requisite permits from the City of Pickering.

Trees which are to remain shall be protected according to the tree protection details and the required protection hoarding shall be installed, inspected and approved prior to the commencement of any construction activities.

Should you have any questions regarding this report, please contact the undersigned directly.

Respectfully submitted,

MHBC Planning, Urban Design & Landscape Architecture



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