Tree Inventory and Preservation Plan Report
4646 County Road 2
Port Hope, Ontario

prepared for

Candevcon Group Inc.
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prepared by

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KUNTZ FORESTRY CONSULTING INC Project P4110

Introduction

Kuntz Forestry Consulting Inc. was retained by Candevcon Group Inc. to complete a Tree Inventory and Preservation Plan report as part of a development application for the property located at 4646 County Road 2 in Port Hope. The property is located on the east side of County Road 2 and southeast of Dale Road, within a mixed-use rural residential and agricultural area.

The work plan for this tree preservation study included the following:

- Prepare inventory of the individual tree resources over 10cm diameter at breast height (DBH) and trees of all diameters within the road right-of-way on and within six metres of the disturbance limit,
- Evaluate potential tree saving opportunities based on proposed development plans; and
- Document the findings in a Tree Inventory and Preservation Plan Report.

The results of the evaluation are provided below.

Methodology

The tree inventory was conducted on 1 March 2024. Individual trees were tagged using the numbers 401-451. Tree 407 has been removed since the initial inventory due to its hazardous condition, see Table 1 for notes, and Appendix A for photographs of the tree. Individual trees that could not be tagged were identified as Trees A-Z and AA-AK. Please note that individual tree locations for Trees 404-426, B, C, I-Z, AA, AB, and AE-AK were not included on the provided topographic survey. Where tree locations were not included on the survey, tree resources were located using aerial imagery and in-field estimations. An official topographic survey including individual tree locations will be required to determine ownership of these trees, particularly along the northwestern property boundary.

Individual tree resources were assessed utilizing the following parameters:

Tree # - number assigned to tree that corresponds to Figure 1.
Species - common and botanical names provided in the inventory table (Table 1).
DBH - diameter (centimetres) at breast height, measured at 1.4 m above the ground.
Condition - condition of tree considering trunk integrity, crown structure, and crown vigour. Condition ratings include poor (P), fair (F) and good (G).
Crown width – extent of crown (m).
Comments - additional relevant detail. Defects are rated as light (L), moderate (M), or heavy (H).

Polygons (groups of trees, especially forested units) were identified as P1 and P2. Descriptions for P2 can be found within Table 1. P1 was inventoried by 100% tally, counting all trees within these units and categorizing them by species, size category, and condition [AGS (Acceptable Growing Stock) and UGS (Unacceptable Growing Stock)].

Tree locations are shown on Figure 1. See Tables 1 and 2 for the results of the inventory.

Existing Site Conditions

The subject property is currently occupied by a 2-storey frame house, a gravel driveway, and two wooden sheds. The southwestern portion of the subject property is currently occupied by an agricultural field. Tree resources exist in the form of natural feature trees, individual landscape trees, and hedgerow features. Refer to Figure 1 for the existing conditions.

Tree Resources

The inventory documented 87 individual trees and two (2) tree polygons on and within six metres of the subject area. Refer to Tables 1 and 2 for the full tree inventory and Figure 1 for the locations of trees reported in the tree inventory.

Tree resources were comprised of Manitoba Maple (*Acer negundo*), Black Walnut (*Juglans nigra*), Eastern White Cedar (*Thuja occidentalis*), Sugar Maple (*Acer saccharum*), Silver Maple (*Acer saccharinum*), Red Maple (*Acer rubrum*), Norway Maple (*Acer platanoides*), White Birch (*Betula papyrifera*), Beech Species (*Fagus spp.*), Red Oak (*Quercus rubra*), Black Locust (*Robinia pseudoacacia*), Scots Pine (*Pinus sylvestris*), Thornless Honey Locust (*Gleditsia triacanthos 'inermis' cv.*), Blue Spruce (*Picea pungens*) and White Spruce (*Picea glauca*).

Proposed Development

The proposed development includes the severance of the subject property into 12 new lots and the construction of a new road, 'Street A', providing access to County Road 2. It is our understanding that the existing house located in Lot 1 will remain intact. Note that the provided site plan is preliminary; therefore, does not currently include building envelopes or a servicing and grading plan. Refer to Figure 1 for the proposed site plan.

Discussion

The following sections provide a discussion and analysis of development impacts, tree removal requirements, and tree preservation relative to the proposed development and existing conditions.

Development Impacts/Tree Removals

The proposed development will require the removal of 27 trees and one tree polygon, including Trees 401, 402 ,436, 435-436, AD, AH-AK and P1. Trees 401-403, 436, 446-451 and AK directly conflict with the proposed new road. It is assumed that regrading, building of swales, etc. will be required within the limit of the property boundary and for the building of the road. Trees 403,440,441,444-446 either require significant encroachment into their driplines for the construction of Street A or anticipated regrading; therefore, we do not anticipate these trees to tolerate this level of injury and their removal will be required. Please note that the removal of these trees is subject to change pending a detailed servicing and grading plan.

The removal of an additional eight (8) trees will be due to their hazardous condition, including Trees 417, 421, 422, 425, 437-439, and 442. Trees 417, 425, 437-439, and 442

also conflict with the proposed site plan. Refer to Table 1 for detailed notes on their condition.

Refer to Figure 1 for the location of tree removals.

Tree Preservation

The preservation of the remaining 53 trees, including Trees 404-408, 409-416, 418-420, 424, A-Z, AA-AC, AE-AG and P2 will be possible with the use of appropriate tree protection measures as indicated on Figure 1. Designated tree protection fencing has not been prescribed for Trees Y-Z, AA and AB as they are located behind existing fences on neighbouring property. Tree protection measures will have to be implemented prior to earthworks to ensure designated tree resources are not impacted by the development. Refer to Figure 1 for the location of required tree preservation fencing and further tree protection plan notes. Tree protection fencing was prescribed at the edge of the dripline of trees identified for preservation. Although this level of protection cannot be respected for Trees I, J and L, these trees are afforded a minimum tree protection zone (mTPZ) that is consistent with standards utilized by surrounding municipalities.

The following mTPZ's are based on the trunk diameter of the tree, as follows:

Tree DBH (cm)	**mTPZ (m), as measured from edge of tree stem**
<10cm	1.2
10-29	1.8
30-40	2.4
41-50	3.0
51-60	3.6
61-70	4.2
71-80	4.8

All grading and disturbances should be directed outside of the TPZ indicated on Figure 1. A standard tree protection fencing detail is shown on Figure 1 (snow fencing on wooden frame). Alternatively, protection fencing can also be comprised of erosion and sediment control fencing, erected on t-bars and/or affixed paige wire fencing.

Summary and Recommendations

Kuntz Forestry Consulting Inc. was retained by Candevcon Group Inc. to complete a Tree Inventory and Preservation Plan report as part of a development application for 4646 County Road 2 in Port Hope. A tree inventory was conducted and reviewed in the context of the proposed development plan.

The findings of the study indicate a total of 87 individual trees and two (2) tree polygons on and within six metres of the subject property. The removal of 27 trees and one (1) tree polygon is required to accommodate the proposed development. An additional eight (8) trees are recommended for removal due to their hazardous condition. All other tree resources can be saved provided appropriate tree protection measures are installed prior to construction.

The following recommendations are suggested to minimize impacts to trees identified for preservation. Refer to Figure 1 for additional tree preservation notes.

- Tree protection barriers and fencing should be erected at locations prescribed on Figure 1.

- Tree protection measures will have to be implemented prior to construction to ensure the trees identified for preservation are not impacted by the development.

- Branches and roots that extend past prescribed tree protection zones that require pruning must be pruned by a qualified Arborist or other tree professional. All pruning of tree roots and branches must be in accordance with good arboricultural standards.

- Site visits, pre, during and post construction are recommended by either a certified consulting arborist (I.S.A.) or registered professional forester (R.P.F.) to ensure proper utilization of tree protection barriers. Trees should also be inspected for damage incurred during construction to ensure appropriate pruning or other mitigation measures are implemented.

Respectfully Submitted,

Kuntz Forestry Consulting Inc.

Natasha Brooks

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Limitations of Assessment

Only the tree(s) identified in this report were included in the inventory. The assessment of the trees presented in this report has been made using accepted arboricultural techniques. These may include a visual examination taken from the ground of all the above-ground parts of the tree for structural defects, scars, external indications of decay such as fungal fruiting bodies, evidence of attack by insects, discoloured foliage, the condition of any visible root structures, the degree of lean (if any), the general condition of the trees and the identification of potentially hazardous trees or recommendations for removal (if applicable). Where trees could not be directly accessed (ie. due to obstructions, and/or on neighbouring properties), trees were assessed as accurately as possible from nearby vantage points.

Locations of trees provided in the report are determined as accurately as possible based on the best information available. If official survey information is not provided, tree locations in the report may not be exact. Where KFCI's in-house GPS unit is used (if applicable), tree locations are accurate only to the extent that the technology allows, which can be variable based on satellite available, RTK network / cell coverage, canopy coverage, and/or projection transformation limitations. If trees occur on or near property boundaries, an official site survey may be required to determine ownership utilizing specialized survey protocol to gain precise location.

Furthermore, recommendations made in this report are based on the site plans that have been provided at the time of reporting. These recommendations may no longer be applicable should changes be made to the site plan and/or grading, servicing, or landscaping plans following report submission.

Notwithstanding the recommendations and conclusions made in this report, it must be recognized that trees are living organisms, and their health and vigor constantly change over time. They are not immune to changes in site conditions or seasonal variations in the weather conditions. Any tree will fail if the forces applied to the tree exceed the strength of the tree or its parts.

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

Table 1. Tree Inventory

Location: 4646 County Road 2 Port Hope

Date: 01 March 2024

Surveyors: NB

Tree#	Common	Scientific Name	DBH	CW	TI	CS	CV	CDB	Comments	Action
401	Black Locust	*Robinia pseudoacacia*	72	12	F	F-G	F-G		Union at 1.8m, cavity in stem (M), lean (L), crook (L)	Remove
402	Black Locust	*Robinia pseudoacacia*	44	10	F-G	F-G	G		Union at 2.5m, deadwood (L), crook (L), asymmetrical crown (L)	Remove
403	Black Locust	*Robinia pseudoacacia*	60	11	F-G	F-G	F-G		Union at 3m, bowing (L), lean (VL)	Remove
404	Norway Maple	*Acer platanoides*	55	9	F-G	F-G	F-G		Lean (L), seam in trunk (L),included bark (L), multiple branch attachment (L)	Preserve
405	Black Walnut	*Juglans nigra*	31	6	G	F-G	G		Asymmetrical crown (M)	Preserve
406	Norway Maple	*Acer platanoides*	15	3	F-G	F-G	F-G		Union at base, asymmetrical crown (L)	Preserve
407	Black Locust	*Robinia pseudoacacia*	66	10	P	P-F	P	60	Fruiting bodies, horizontal cracking, hole in trunk at 7m - can see through tree - contacted owner to remove immediately	Tree has been removed following inventory due to hazardous condition
408	Black Locust	*Robinia pseudoacacia*	28,13,8	7	F	F-G	F	15	Union at 0.2m, crook (L)	Preserve
409	Norway Maple	*Acer platanoides*	~15,17	3	F	F	F		Union at 0.2m	Preserve
410	Norway Maple	*Acer platanoides*	26	5	F-G	F-G	F-G		Lean (L), asymmetrical crown (M)	Preserve
411	Norway Maple	*Acer platanoides*	20	4	F-G	F-G	F	10	Asymmetrical crown (L), deadwood (L)	Preserve
412	Norway Maple	*Acer platanoides*	16	4	F	F	F	10	Deadwood (L)	Preserve
413	Norway Maple	*Acer platanoides*	15	4	F	F	F	10	Deadwood (L)	Preserve
414	Black Walnut	*Juglans nigra*	20	4	F-G	F-G	F-G		Asymmetrical crown (L), crook (L)	Preserve
415	Black Walnut	*Juglans nigra*	12	3	F-G	F-G	F-G		Crook (L)	Preserve
416	Black Walnut	*Juglans nigra*	15	3	G	G	G			Preserve
417	Black Locust	*Robinia pseudoacacia*	29	6	P-F	P-F	P	50	Lean (L), deadwood (M) **-> Removal recommended**	Remove (Condition)
418	Black Walnut	*Juglans nigra*	46	8	G	F-G	G		Crook (L)	Preserve
419	Black Walnut	*Juglans nigra*	50	8	G	G	G			Preserve
420	Black Walnut	*Juglans nigra*	65	9	F-G	F-G	F	15	Deadwood (M)	Preserve
421	Black Locust	*Robinia pseudoacacia*	-	-	D	D	D	-	Dead	Preserve
422	Black Locust	*Robinia pseudoacacia*	65	10	P-F	P-F	F	20	Vertical cracking, hollow stem -> **Removal recommended**	Remove (Condition)
423	Black Walnut	*Juglans nigra*	25	5	F-G	F	F		Bowing (L)	Preserve
424	Norway Maple	*Acer platanoides*	16	3	F-G	F	F		Lean (L), seam in trunk (L)	Preserve
425	Black Locust	*Robinia pseudoacacia*	60	10	P	P	P	70	Union at 2m, crack in trunk (M) with rot **-> Removal recommended**	Remove (Condition)

426	Black Walnut	*Juglans nigra*	20	4	G	G	G			Preserve
427	Black Walnut	*Juglans nigra*	25	4	F-G	F-G	F-G		Deadwood (L)	Preserve
428	Black Walnut	*Juglans nigra*	34	7	F-G	F-G	F-G		Lean (L)	Preserve
429	Black Walnut	*Juglans nigra*	26	6	F	F-G	F	10	Lean (L), Crook (L), deadwood (L)	Remove
430	Black Walnut	*Juglans nigra*	27	6	F	F-G	F	10	Deadwood (L)	Remove
431	Black Walnut	*Juglans nigra*	55	8	G	F-G	G		Asymmetrical crown (L)	Remove
432	Black Walnut	*Juglans nigra*	68	10	G	F-G	F-G		Union at 4m	Remove
433	Manitoba Maple	*Acer negundo*	13, 10	3	F	F	F		Union at base, asymmetrical crown (L)	Remove
434	Manitoba Maple	*Acer negundo*	75	12	F	F	F	15	Union at 3m, growing into concrete, epicormic branching (L)	Remove
435	Manitoba Maple	*Acer negundo*	10,15	3	F	F	F		Union at base	Remove
436	Black Locust		30	5	F-G	F	F	20	Crook (L), asymmetrical crown (L)	Remove
437	Black Locust	*Robinia pseudoacacia*	38, 45	8	P-F	P	P	60	Union at 1m, pruning wounds (M). Stem wound (M), fruiting bodies, within striking distance of house and/or driveway **->Removal recommended**	Remove (Condition)
438	Black Locust	*Robinia pseudoacacia*	41	8	F	F	P	70	Deadwood (M-H), within striking distance of house and/or driveway **-> Removal recommended**	Remove (Condition)
439	Black Locust	*Robinia pseudoacacia*	25	6	F	P	P	70	Lean (L), crook (L), deadwood (M), within striking distance of house and/or driveway **-> Removal recommended**	Remove (Condition)
440	Black Locust	*Robinia pseudoacacia*	20	5	F	F	F	30	Crook (L), deadwood (L-M)	Remove
441	Black Locust	*Robinia pseudoacacia*	39	7	F-G	F	F	20	Crook (L), deadwood (L)	Remove
442	Black Locust	*Robinia pseudoacacia*	28	-	D	D	D	-	Dead, vertical crack in trunk, within striking distance of house and/or driveway **-> Removal recommended**	Remove (Condition)
443	Black Locust	*Robinia pseudoacacia*	16	4	F	F	F-G		Crook (L), asymmetrical crown (L)	Remove
444	Black Locust	*Robinia pseudoacacia*	44	7	F-G	F	F	20	Lean (L), deadwood (M)	Remove
445	Norway Maple	*Acer platanoides*	25	5	F	P-F	F	20	Poor form (M), seam (L), epicormic branching (L)	Remove
446	Black Locust	*Robinia pseudoacacia*	45	6	F	F-G	F-G		Lean (L), exposed roots (L), asymmetrical crown (L)	Remove
447	Eastern White Cedar	*Thuja occidentalis*	15,16,15	3	F	F	G		Union at base, sweep (L)	Remove
448	Black Locust	*Robinia pseudoacacia*	30	6	F	F	P-F	30	Union at 1.3m, crook (L)	Remove
449	Black Walnut	*Juglans nigra*	81	12	G	F-G	G		Deadwood (L)	Remove
450	Black Walnut	*Juglans nigra*	71	11	G	F	G		Union at 3m, poor form (M), deadwood (L)	Remove
451	Black Walnut	*Juglans nigra*	70	11	G	F-G	G			Remove
A	Sugar Maple	*Acer saccharum*	70	12	G	F-G	F-G		Deadwood (L)	Preserve
B	Norway Maple	*Acer platanoides*	20	4	G	F-G	F-G		Crook (M)	Preserve
C	Norway Maple	*Acer platanoides*	65	10	F-G	F-G	F-G		Union at 3m, bowing (L)	Preserve
D	White Birch	*Betula papyrifera*	~45	7	F-G	F	F	15	1 stem topped, multiple branch attachment	Preserve
E	White Birch	*Betula papyrifera*	~35,25,20	7	F	P-F	F	20	Topped, union at base	Preserve
F	Red Maple	*Acer rubrum*	~15	4	G	G	G			Preserve
G	Norway Maple	*Acer platanoides*	~50	8	F-G	F-G	G		Multiple branch attachment	Preserve
H	Norway Maple	*Acer platanoides*	~70	10	F-G	F-G	F-G		Union at 3m, multiple branch attachment, deadwood (L)	Preserve
I	Scots Pine	*Pinus sylvestris*	~50	10	G	G	G			Preserve
J	White Birch	*Betula papyrifera*	~7-25	7	F	F	F-G	10	~8 stems, poor form (M),	Preserve

K	White Spruce	*Picea glauca*	~30	5	G	G	G			Preserve
L	Silver Maple	*Acer saccharinum*	~40,35	8	F-G	F-G	G		Union at 1.2m	Preserve
M	White Spruce	*Picea glauca*	~25	5	G	G	G			Preserve
N	Norway Maple	*Tilia cordata*	~20	5	F-G	G	G			Preserve
O	White Spruce	*Picea glauca*	~20	5	G	G	G			Preserve
P	White Birch	*Betula papyrifera*	~25	6	G	G	G			Preserve
Q	White Spruce	*Picea glauca*	~17	4	G	G	G			Preserve
R	White Spruce	*Picea glauca*	~25	5	G	G	G			Preserve
S	White Spruce	*Picea glauca*	~30	5	G	G	G			Preserve
T	Norway Maple	*Acer platanoides*	~28	5	F-G	G	G		Union at 3m, multiple branch attachment	Preserve
U	Blue Spruce	*Picea pungens*	~28	5	G	G	G			Preserve
V	Norway Maple	*Acer platanoides*	~40	8	G	F-G	G			Preserve
W	Norway Maple	*Acer platanoides*	~16	4	F-G	G	G			Preserve
X	Honey Locust (cultivar)	*Gleditsia triacanthos 'inermis' cv.*	~45	7	G	G	G		Union at 3m	Preserve
Y	Beech	*Fagus sp.*	~30	6	G	G	G		Asymmetrical crown (L)	Preserve
Z	White Spruce	*Picea glauca*	~20	4	G	G	G		Behind hedgerow	Preserve
AA	Norway Maple	*Acer platanoides*	~16,17,12	4	F-G	G	G		Union at 0.2m	Preserve
AB	Honey Locust (cultivar)	*Gleditsia triacanthos 'inermis' cv.*	~32	6	F-G	F-G	G		Union at 1.2m, poor form (L)	Preserve
AC	Sugar Maple	*Acer saccharum*	~18	5	F-G	G	G		Stem wound (L)	Preserve
AD	Black Locust	*Robinia pseudoacacia*	10	3	F	F	F-G		Asymmetrical crown (L)	Remove
AE	Blue Spruce	*Picea pungens*	~25	4	G	G	F-G	10	Dieback at base of tree (L)	Preserve
AF	Black Walnut	*Juglans nigra*	~50	10	G	G	G		Union at 6m, christmas lights wrapped around entirety of trunk	Preserve
AG	Black Locust	*Robinia pseudoacacia*	~45	8	G	F-G	G		Union at 7m	Preserve
AH	Manitoba Maple		30,25	5	F	F	F-G		Union at base, crook (M), lean (L), poor form (M)	Remove
AI	Manitoba Maple		15	3	F	F	F-G		Crook (M), lean (L)	Remove
AJ	Manitoba Maple		10	2	F	F	F-G		Lean (L), poor form (M)	Remove
AK	Manitoba Maple		28,30,21	2	F	F	F		Union at 0.2m, deadwood (L), 3 stems, poor form (L)	Remove
P1	See Table 2									Remove
P2	Eastern White Cedar	*Thuja occidentalis*	~10-15	2	G	G	G		~10 trees	Preserve

Codes		
DBH	Diameter at Breast =Height	(cm)
CW	Crown width	(m)
TI	Trunk Integrity	(G, F, P)
CS	Crown Structure	(G, F, P)
CV	Crown Vigour	(G, F, P)
CDB	Crown dieback	%
P = poor, F = fair, G = good, ~ = estimate, (VL) = very light, (L) = light, (M) = moderate, (H) = heavy		

Table 2: 100% Tally Polygon

Location: 4646 County Rd 2
Date: 01-Mar-24
Surveyor: NB
Compartment: P1
Stations Tallied: 100% Tally

Tree Size **Class >>>>**	**Polewood 10-24 cm** **10-24cm**		**Sawtimber Sizes**						**Total All Sizes**	
			Small 26-36 cm		**Medium 38-48 cm**		**Large 50 cm +**			
Species	***AGS***	***UGS***	***AGS***	***UGS***	***AGS***	***UGS***	***AGS***	***UGS***	***AGS***	***UGS***
Black Locust (*Robinia pseudoacacia*)	2	0	4	2	2	3	1	0	***9***	***5***
Norway Maple (*Acer platanoides*)	4	1	3	0	0	0	0	1	***7***	***2***
Manitoba Maple (*Acer negundo*)	1	0	3	1	2	0	0	0	***6***	***1***
Total Number of Trees	**7**	**1**	**10**	**3**	**4**	**3**	**1**	**1**	**22**	**8**

Appendix A: Photographs of trees

Photo 1. Trees 401-406 (Left to right)

Photo 2. Trees 407-427 (Left to right)

Photo 3. Trees B and C (Left to right)

Photo 4. Tree A (background) and B (foreground)

Photo 6. Trees 428-432 (Right to left)

Photo 7. Tree D

Photo 8. Tree E

Photo 9. Tree 433

Photo 10. Tree F

Photo 11. Polygon 1 (facing north)

Photo 12. Trees AH-AK (Left to right)

Photo 13. Trees 434 and 435

Photo 14. Trees I- K (Left to right)

Photo 15. Tree L

Photo 16. Trees M- O (Left to right)

Photo 17. Tree V

Photo 18. Polygon 2 and Tree W

Photo 19. Tree Z (Left)

Photo 20. Trees X and Y (Left to right)

Photo 21. Trees AA and AB (far left and right)

Photo 22. Tree AB

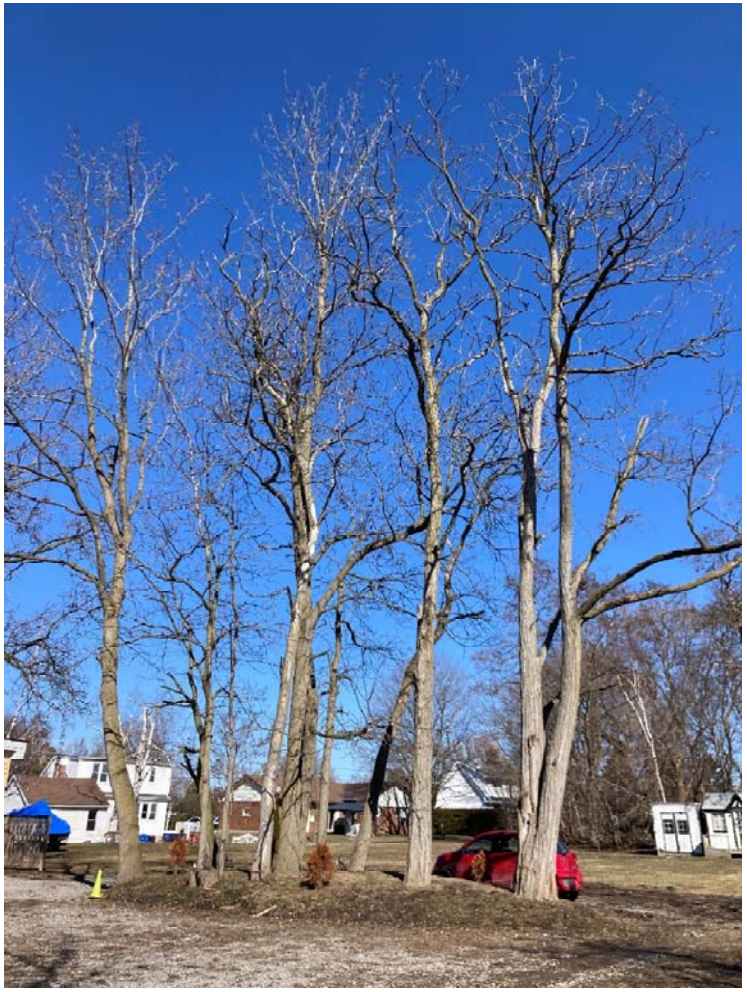


Photo 23. Trees 437-444 (Right to left)

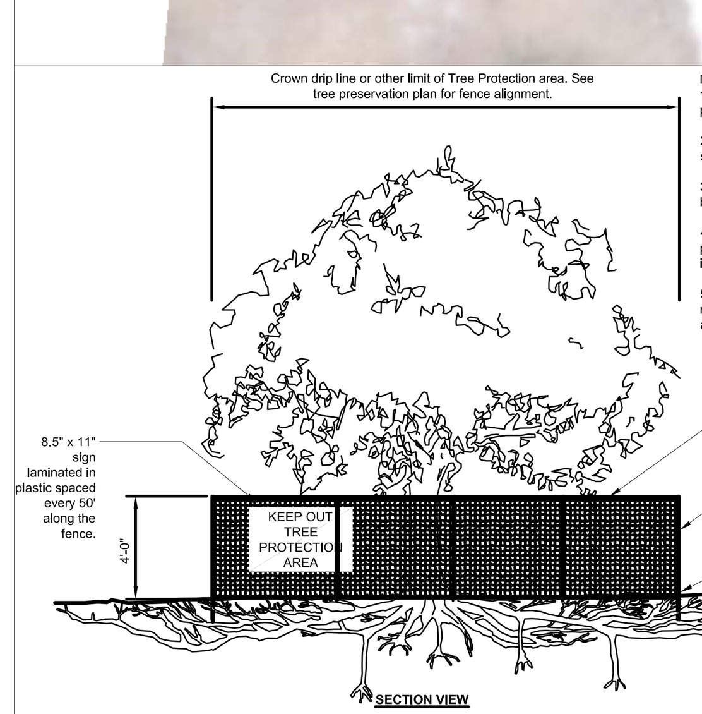
Photo 24. Trees 447-448 (Left to right)

Photo 25. Trees 449-451 (Left to right)

Photo 26. Trees AE- AG (Left to right)

Photo 27. Tree 107 prior to removal

Photo 28. Stump of Tree 107 (image provided by property owner.)



Notes:
1- See specifications for additional tree protection requirements.
2- If there is no existing irrigation, see specifications for watering requirements.
3- No pruning shall be performed except by approved arborist.
4- No equipment shall operate inside the protective fencing including during fence installation and removal.
5- See site preparation plan for any modifications with the Tree Protection area.

S-1 TREE PROTECTION
1/4" = 1'-0"

URBAN TREE FOUNDATION © 2014
OPEN SOURCE FREE TO USE

L_tree protection_safety netting

TREE PROTECTION PLAN NOTES

- It is the applicants' responsibility to discuss potential impacts to trees located near or wholly on adjacent properties or on shared boundary lines with their neighbours. Should such trees be injured to the point of instability or death the applicant may be held responsible through civil action. The applicant would also be required to replace such trees to the satisfaction of Urban Forestry.
- Tree protection barriers shall be installed to standards as detailed in this document and to the satisfaction of Urban Forestry.
- Tree protection barriers must be installed using plywood clad hoarding (minimum 19mm or ¾" thick) or an equivalent approved by Urban Forestry.
- Where required, signs as specified in Section 4, Tree Protection Signage must be attached to all sides of the barrier.
- Prior to the commencement of any site activity such as site alteration, demolition or construction, the tree protection measures specified on this plan must be installed to the satisfaction of Urban Forestry.
- Once all tree/site protection measures have been installed, Urban Forestry staff must be contacted to arrange for an inspection of the site and approval of the tree/site protection requirements. Photographs that clearly show the installed tree/site protection shall be provided for Urban Forestry review.
- Where changes to the location of the approved TPZ or sediment control or where temporary access to the TPZ is proposed, Urban Forestry must be contacted to obtain approval prior to alteration.
- Tree protection barriers must remain in place and in good condition during demolition, construction and/or site disturbance, including landscaping, and must not be altered, moved or removed until authorized by Urban Forestry.
- No construction activities including grade changes, surface treatments or excavation of any kind are permitted within the area identified on the Tree Protection Plan or Site Plan as a minimum tree protection zone (TPZ). No root cutting is permitted. No storage of materials or fill is permitted within the TPZ. No movement or storage of vehicles or equipment is permitted within the TPZ. The area(s) identified as a TPZ must be protected and remain undisturbed at all times.
- All additional tree protection or preservation requirements, above and beyond the installation of tree protection barriers, must be undertaken or implemented as detailed in the Urban Forestry approved arborist report and/or the approved tree protection plan and to the satisfaction of Urban Forestry.
- If the minimum tree protection zone (TPZ) must be reduced to facilitate construction access, the tree protection barriers must be maintained at a lesser distance and the exposed portion of TPZ must be protected using a horizontal root protection method approved by Urban Forestry.
- Any roots or branches indicated on this plan which require pruning, as approved by Urban Forestry, must be pruned by an arborist. All pruning of tree roots and branches must be in accordance with good arboricultural practice. Roots that have received approval from Urban Forestry to be pruned must first be exposed using pneumatic (air) excavation, by hand digging or by a using low pressure hydraulic (water) excavation. The water pressure for hydraulic excavation must be low enough that root bark is not damaged or removed. This will allow a proper pruning cut and minimize tearing of the roots. The arborist retained to carry out crown or root pruning must contact Urban Forestry no less than three working days prior to conducting any specified work.
- The applicant/owner shall protect all by-law regulated trees in the area of consideration that have not been approved for removal throughout development works to the satisfaction of Urban Forestry.
- Convictions of offences respecting the regulations in the Street Tree By-law and Private Tree By-law are subject to fines. A person convicted of an offence under these by-laws is liable to a minimum fine of $500 and a maximum fine of $100,000 per tree, and /or a Special Fine of $100,000. The landowner may be ordered by the City to stop the contravening activity or ordered to undertake work to correct the contravention.
- Prior to site disturbance the owner must confirm that no migratory birds are making use of the site for nesting. The owner must ensure that the works are in conformance with the Migratory Bird Convention Act and that no migratory bird nests will be impacted by the proposed work no less than 48 hours prior to conducting any specified work.

LEGEND

Tree Inventory

Refer to Table 1 of report dated 7 June 2024 for complete tree inventory information. All trees greater than 10cm DBH on and within six metres of the disturbance area were included in the inventory.

Tree Removals

The removal of 27 trees and 1 tree polygon is required to accommodate the proposed development. An additional eight trees are identified for removal due to their condition. Proposed removals are identified with RED. Trees required for removal due to condition are in ORANGE.

Tree Preservation

Preservation of all remaining trees will be possible with appropriate tree protection measures. Trees identified for preservation are indicated with GREEN labels. Minimum Tree Preservation zones and required Tree Preservation Fencing are indicated in MAGENTA. TPZ circles represent minimum distances for construction and grading near trees. Refer to Tree Protection Plan Notes for preservation details.

- Surveyed Tree Location
- Tree location identified by KFCI
- Tree Label (ORANGE) removal recommended due to poor condition
- Tree Label (RED) removal required
- Tree Label (GREEN) preservation recommended
- Tree Label (GRAY) tree has been removed since inventory
- Required Tree Protection Fencing
- Dripline, in metres of trees to be preserved (CYAN circle)
- Minimum tree protection zone *Only shown for select trees (MAGENTA circle)
- Limit of Polygon (Groups of Trees)

No.	Issue/Revisions	Date	By
1	Report Submission	7 June '24	NB

Base Data: JD Barnes Limited (topo), Candevcon Group Inc. (site plan), Northumberland County Mapping (raster)

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Tree Inventory & Preservation Plan

Project	P4110	Figure
Date	28 May 2024	1
Scale	1:500	