TOWN OF CALEDON
PLANNING
RECEIVED
June 17th, 2025

Arborist Report and Tree Preservation Plan

Stellar Homes Phase 2

Part of Lot 18, Concession 8

Town of Caledon

Prepared for:
Stellar Homes Inc.

Prepared by:
Azimuth Environmental
Consulting, Inc.

January 2025 Update
February 2024

AEC 23-056

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Environmental Assessments & Approvals

January 29, 2025 AEC 23-056

Stellar Homes Inc.
125 Don Hillock Drive, Unit 8B
Aurora, Ontario
L4G 0H8

Attention: Mr. Vito Froio, President

Re: January 2025 Update **Arborist Report and Tree Preservation Plan**
Stellar Estate Homes Phase 2
Part of Lot 18, Concession 8, Town of Caledon, Regional Municipality of Peel

Dear Mr. Froio:

Azimuth Environmental Consulting, Inc. (Azimuth) is pleased to submit our Arborist Report and Tree Preservation Plan (January 2025 Update) for the above noted development property located in the Town of Caledon. This report includes the results of our tree inventory completed for all trees (10 centimetres diameter at breast height or greater) located within areas of potential impact both on and adjacent to the subject lands. Recommendations are provided with respect to tree removal, preservation and compensation for the subject property.

If you have any questions pertaining to the information within this report, please do not hesitate to contact myself directly.

Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

David d'Entremont, H. B.Sc.Terrestrial Ecologist, ISA Certified Arborist(ISA# ON-3073A)

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1.0 INTRODUCTION

Azimuth Environmental Consulting, Inc. (Azimuth) was retained by Stellar Homes Inc. to prepare an Arborist Report and Tree Preservation Plan for the proposed estate residential subdivision development (Stellar Estates Phase 2) at Part of Lot 18, Concession 8, Town of Caledon (Town), Regional Municipality of Peel (Region). Due to the presence of trees 10 centimetres (cm) diameter breast height (DBH) or greater within the subject property, the Town has requested this study to assess preservation opportunities and recommend compensation for any tree removals to occur. This report has been updated to address review comments received as part of First Submission review.

The land proposed for development covers approximately 4.1 hectares (ha) and consists of primarily open meadow with small hedgerows and wetland features along the perimeter. Adjacent land uses include primarily estate residential to the north, east and west, and an agricultural field to the south.

The proponent wishes to convert the subject property into a 5-lot estate residential development, similar to Phase 1 which consisted of 10 lots to the north and west. Please see Figure 2 (Tree Preservation Plan) for the proposed site plan.

In total, 78 trees were included in the inventory and assessed for this report, which included a grouping of 10 willow trees (see Figure 2). Of the 78 trees assessed, 45 trees are located within the on-site wetland or designated 30 metre (m) vegetation protection zone (VPZ) along the southern property boundary.

2.0 METHODOLOGY

A Tree Inventory and Health Assessment was undertaken in August 2022 as part of an Existing Conditions Report completed by Terrastory Environmental Consulting Inc. (April 28, 2023). The results of the Tree Inventory and Health Assessment can be found within Appendix 8 of Terrastory's report as presented within Appendix B of Azimuth's Environmental Impact Study (February 2024).

A tree inventory was completed on October 17, 2023 by Drew West, ISA Certified Arborist (ON-1429A). There was no construction activity on the site at the time of the field study. All trees and with a DBH of 10cm or greater located on the subject lands or within 6m of all property boundaries. Azimuth also used the field visit to confirm the data collected by Terrastory in April 2023 to ensure accuracy of tree species, location and health condition. This field inventory included the following elements:

- Inventory of all trees located within the anticipated limits of site disturbance, including all specimens with a DBH of at least 10cm. Trunk diameter measurements were taken at approximately 1.4m (4.5 feet) above ground surface at the base of each tree.
- Recorded species (common and scientific names), DBH (cm) and condition/health status of all applicable trees. Tree health assessments were graded as either 'Good', 'Fair', 'Poor' or 'Dead' based on factors such as percentage of live crown, evidence of internal trunk rot/damage, tree structure/form and disease.
- Recorded location of inventoried trees #130 – #148 using a hand-held GPS unit (accuracy +/- 3m) to plot tree locations relative to site plan features. Terrastory's GPS waypoints were used for trees #501 – #549.

Using all field data gathered during the inventory and assessment process, a tree inventory table was created including the following information:

- Proposed Action based on the location of each tree, its Tree Protection Zone (TPZ) area and the proposed limits of disturbance. As a general rule, any tree with a TPZ to be impacted more than 25% is recommended for removal as the chances for these trees to survive following construction are perceived as low. It should be noted that 33 trees included in the inventory are assumed to be significantly impacted by construction and are recommended for removal.
- General notes describing characteristics of the tree.

3.0 DISCUSSION

3.1 Findings

A total of 78 trees were included in the tree inventory, which included a grouping containing 10 mature willow trees within the southern wetland portion of the site. The primary tree species found within the site were Manitoba Maple (*Acer negundo*), Green Ash (*Fraxinus pennsylvanica*) and a hybrid Willow species (*Salix x fragilis*). Several other species were found at the site but in smaller numbers. The majority of trees within the site are located along the northern and southern boundaries and are polewood (15 – 30cm DBH) to mature sized (>30cm DBH) (Appendix A). No live trees which would be considered significant (e.g., Species at Risk, Heritage Trees, very large/mature) were found within the subject property.

3.2 Tree Removal

Of the 78 trees included in the inventory, all trees located within the on-site wetland or the MVPZ along the southern property limits are recommended for preservation. The remaining 33 trees located along the northern property boundary are recommended for removal due to the proposed development. Of the 33 trees recommended for removal, Trees 501 – 525 and 549 should be removed due to grading at the frontage of each estate lot. Trees 526 – 532 should be removed to create improve traffic sightlines, as these trees are currently located within a daylight triangle of Mount Pleasant Road and Mulloy Court.

3.3 Tree Preservation

Of the 78 trees included in the inventory, a total of 45 trees will be preserved within the southern portion of the property.

3.4 Arboricultural Maintenance

No specific arboricultural maintenance is recommended for the trees to be preserved, as all of the trees to be preserved will be located within the protected on-site wetland, MVPZ or Open Space lands where no development is proposed. Sufficient protection distance will be provided adjacent to the protected individuals to avoid impact to preserved trees roots/crowns during site excavation/grading activities.

4.0 TREE PROTECTION SPECIFICATIONS

Specifications for protecting the forested areas to be preserved during construction are detailed below.

4.1 Tree Protection Zone (TPZ)

The TPZ is a defined protection area around an individual tree or groupings of trees which is set out to maintain the existing condition of the root zone, canopy and trunk. This zone is implemented if site disturbance is planned within the area, or if there is a reasonable likelihood of inadvertent encroachment of any form into the area during site disturbance. A TPZ has been calculated for each tree to be protected/preserved during construction, which estimates the extent of tree root zone based on the diameter at breast height. The formula accepted by the International Society of Arboriculture (1 foot TPZ per 1inch DBH, equivalent to 0.12m of TPZ per 1cm DBH) was used to determine the recommended root protection zone for each tree. For example, the DBH for Tree #132 was measured as 43cm. Thus, the TPZ for Tree #132 is a radius of 5.2 metres surrounding the base of the trunk. For groupings, the dripline was used as a suitable limit

to the TPZ. TPZ radius measurements for all trees to be retained are listed in Appendix A, with the resulting TPZ areas around retained trees shown in Figure 2.

Tree protection fencing (hoarding) should be installed along the northern edge of the MVPZ and Open Space Block (see Figure 2) to ensure construction machinery does not enter this preservation zone. As per the Town of Caledon Tree Preservation Standard No. 606, siltation control fencing may be used as a tree preservation fencing substitute if required by engineering at the discretion of the Town. Therefore, if erosion and sediment control (ESC) fencing is already proposed for the MVPZ and Open Space Block, then duplication in fencing alignments should not be necessary. Any tree protection fencing must comply with the standard shown in the Town of Caledon Standard Drawing 606 and the Tree Preservation Standard Notes – Part 1 and 2 (Standard Drawings 710 and 711; Appendix B).

The following activities shall be prohibited within the TPZ of retained trees prior to, during and following site disturbance:

- Installation or attachment of any items to the tree(s).
- Operation of equipment or machinery.
- Storage of equipment, machinery or materials.
- Access by any personnel.
- Placement of trailers, temporary buildings or structures.
- Flushing, storage or dumping of fuels, chemicals or other contaminants.
- Stockpiling of soil/stone.
- Digging, trenching or excavation (where unnecessary).
- Change of existing grade.

5.0 TREE COMPENSATION

To compensate for the 22 existing healthy (fair or good condition) trees (greater than 10cm DBH) recommended for removal along the northern property boundary, it is proposed that a total of 38 trees be planted at the recommended ratio as per the Town of Caledon (2020) (Tree Compensation Table, Appendix C). The plantings should be focused along the eastern and southern property boundaries. As privacy plantings along Mount Pleasant Road are being requested by the Town of Caledon for Lot 5, the compensation trees should tie into this area where possible.

Figure 2 shows where the proposed tree compensation plantings could occur. High value native species such as Sugar Maple (*Acer saccharum*), Silver Maple (*Acer saccharinum*) Red Oak (*Quercus rubra*), Eastern White Pine (*Pinus strobus*) and White Spruce (*Picea glauca*) are recommended for the plantings.

As the Town of Caledon has requested that privacy plantings be located along the western side of Mount Pleasant Road for Lot 5, a portion of the 38 trees are proposed within this area. The remainder of compensation trees are proposed along the southern property boundary within the Open Space Block.

6.0 CONCLUSIONS

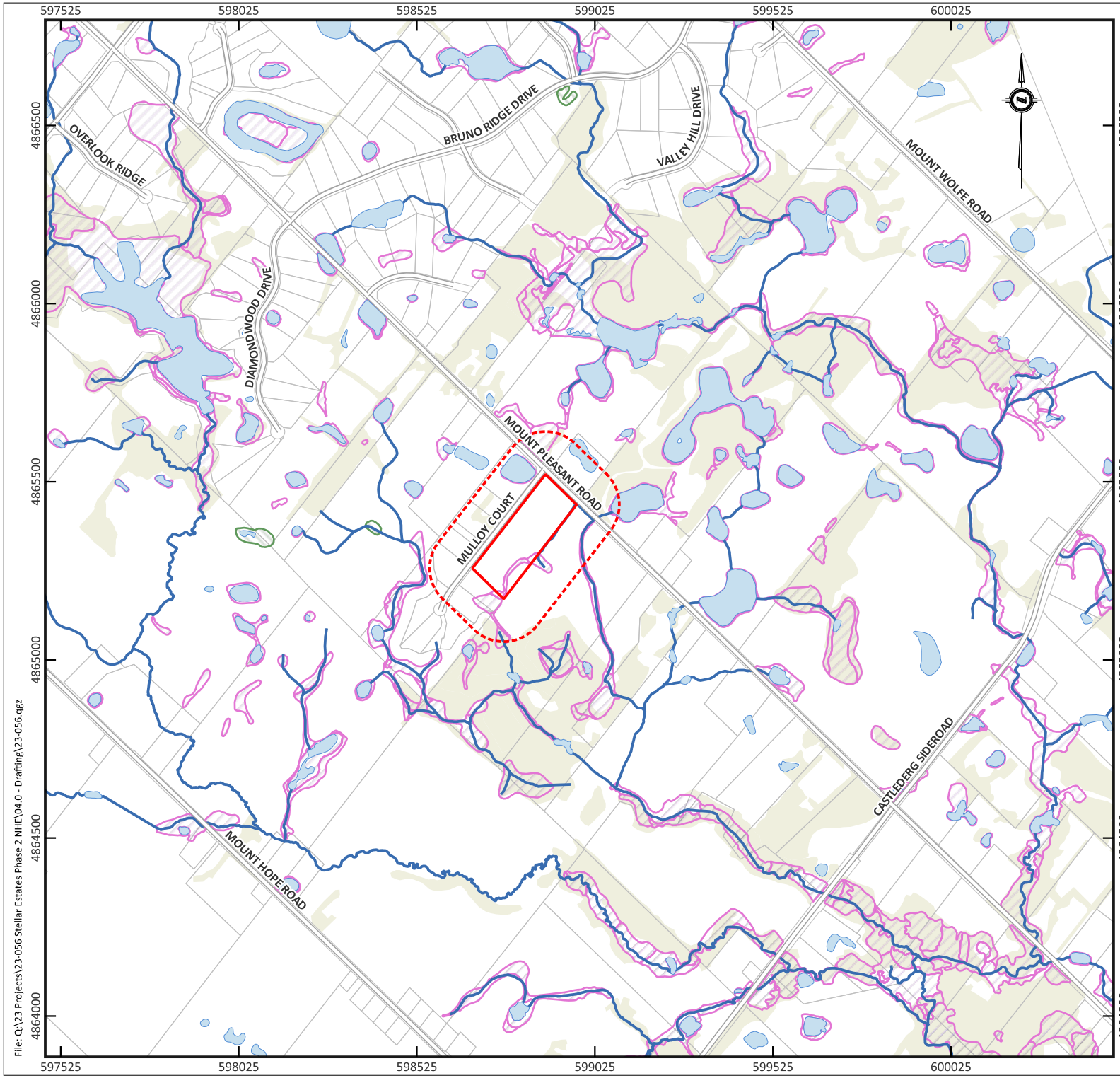
A total of 78 trees were documented and assessed during the tree inventory for the subject lands, which included a tree grouping containing 10 willow trees. The majority of trees within the site are located within the northern and southern portions and are polewood (15 – 30cm DBH) to mature sized (>30cm DBH). No live trees which would be considered significant (*e.g.*, Species at Risk, Heritage Trees, very large/mature) were found within the subject property.

A total of 45 trees are recommended for preservation, while a total of 33 trees are recommended for removal due to the proposed development. To compensate for the loss of 33 trees, it is recommended that the developer provide compensation at at the ratios prescribed by the Town (2020) for a total of 38 compensation trees at the general locations shown in Figure 2.

7.0 REFERENCES

Azimuth Environmental Consulting Inc. 2024. Environmental Impact Study Stellar Homes Phase 2 Part of Lot 18, Concession 8, Town of Caledon

Town of Caledon. 2020. Terms of Reference for Arborist Reports, Tree Preservation Plans and Tableland Tree Removal Compensation

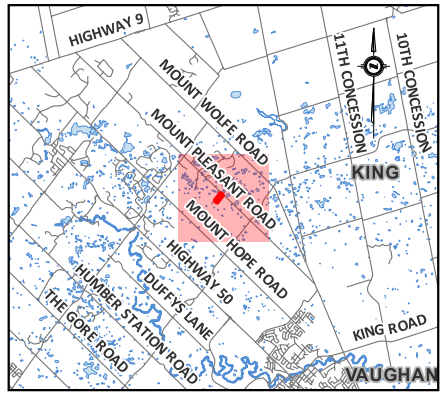


LEGEND

- Approx. Property Boundary
- Study Area
- Waterbody
- Permanent Watercourse
- Unevaluated Wetland
- Provincially Significant Wetland
- Wooded Area
- Road

REGIONAL MAP

SCALE 1:250000



0 0.25 0.5 0.75

KILOMETERS

AZIMUTH ENVIRONMENTAL CONSULTING, INC.
ENVIRONMENTAL ASSESSMENTS & APPROVALS

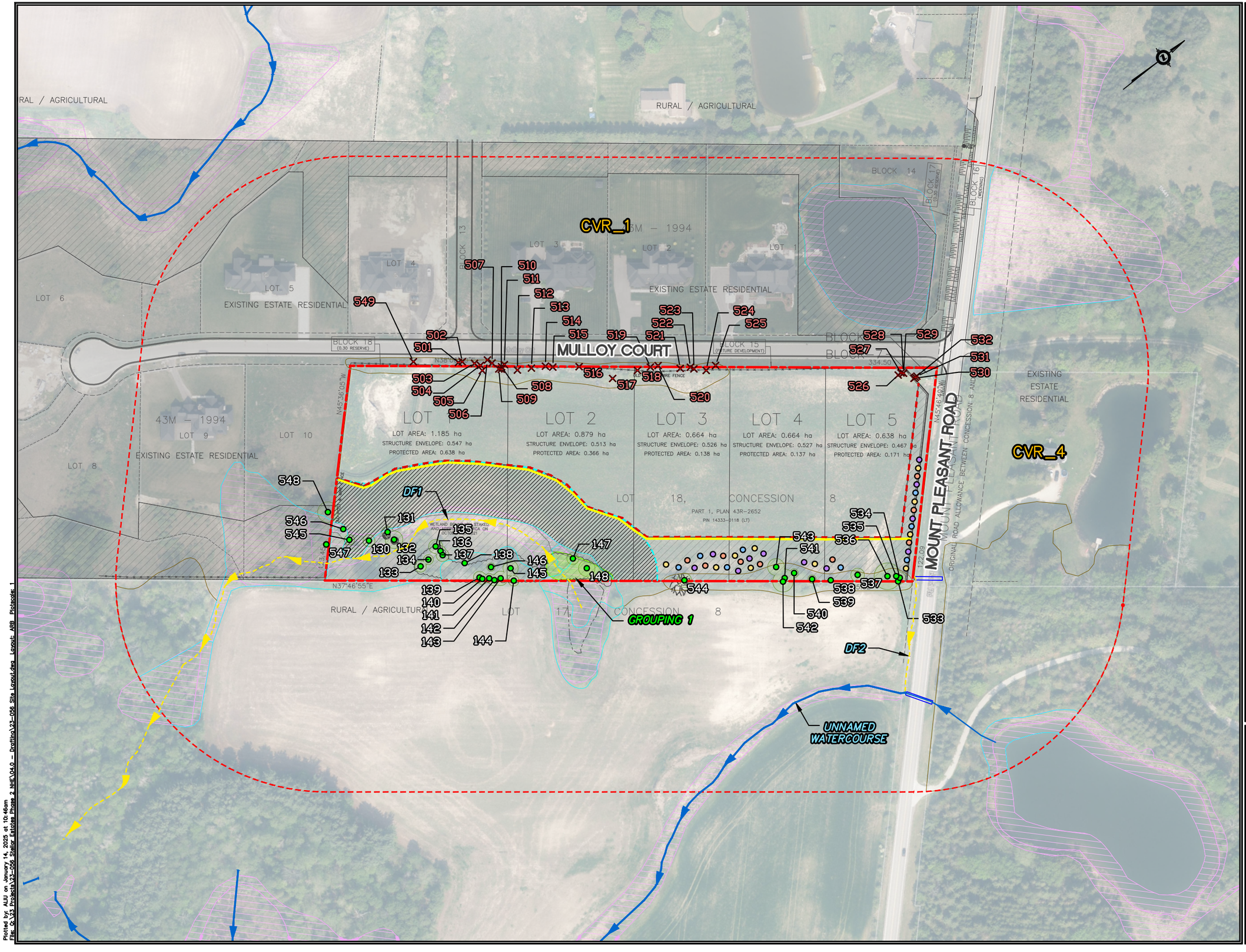
SITE LOCATION

0 MULLOY COURT
CALEDON, ON

DATE ISSUED:	JANUARY 2025
CREATED BY:	A.L.
PROJECT NO.:	23-056
BASE MAP:	MNRF

Figure No.
1

File: Q:\23 Projects\23-056 Stellar Estates Phase 2 NHE\04.0 - Drafting\23-056.qgz



LEGEND:

- APPROX. PROPERTY BOUNDARY
- STUDY AREA
- MOUNT WOLFE WETLAND COMPLEX PROVINCIALLY SIGNIFICANT WETLAND (PSW; MNRF, 2022)
- WATERCOURSE
- EPHEMERAL DRAINAGE FEATURE/ INDIRECT FISH HABITAT (DF)
- EXISTING TREE LOCATION TO BE PRESERVED
- EXISTING TREE LOCATION TO BE REMOVED
- TREE GROUPING
- TREE PROTECTION ZONE
- TREE PROTECTION FENCING
- ELC UPLAND COMMUNITIES
- ELC WETLAND COMMUNITIES
- 30m MVPZ SETBACK
- LIMIT OF PROP. STRUCTURE ENVELOPE
- MVPZ RESTORATION PLANTING ZONE

PROPOSED TREE SPECIES

- SUGAR MAPLE (*Acer saccharum*)
- RED OAK (*Quercus rubra*)
- EASTERN WHITE PINE (*Pinus strobus*)
- EASTERN WHITE CEDAR (*Thuja occidentalis*)

0 50.00 100.0

HORIZONTAL SCALE 1:2000

AZIMUTH ENVIRONMENTAL CONSULTING, INC.
ENVIRONMENTAL ASSESSMENTS & APPROVALS

TREE PRESERVATION PLAN

0 MULLOY COURT CALEDON, ON

DATE ISSUED:	JANUARY 2025	Figure No. 2
CREATED BY:	A.L.	
PROJECT NO.:	23-056	
REFERENCE:	TOWN OF CALEDON	

Plotted by: ALU on January 14, 2025 at 10:46am
File: O:\23 Projects\23-056 Stellar Estates Phase 2 NHE\04.0 — Drafting\23-056 Site Layout.dwg Layout: ARB Pistcolor: 1

APPENDICES

Appendix A: Tree Inventory and Assessment Table
Appendix B: Town of Caledon Tree Preservation Detail and Standard Notes
Appendix C: Tree Compensation Table

APPENDIX A

Tree Inventory and Assessment Table

Tree Inventory and Assessment Table: Stellar Estate Homes Phase 2, Arborist Report and Tree Preservation Plan

Tree #	Common Name	Scientific Name	DBH (cm)	Condition Rating	Tree Protection Zone (m)	Recommended Action	Notes
130	Manitoba Maple	*Acer negundo*	29, 25	Good	3.5	**Preserve**	Good overall condition, two stems
131	Manitoba Maple	*Acer negundo*	28, 26, 24	Good	3.4	**Preserve**	Good overall condition, three stems
132	Manitoba Maple	*Acer negundo*	43	Good	5.2	**Preserve**	Good overall condition
133	Black Cherry	*Prunus serotina*	28	Good	3.4	**Preserve**	Good overall condition
134	Green Ash	*Fraxinus pennsylvanica*	24	Poor	2.9	**Preserve**	Significant amount of crown dieback, emerald ash borer damage
135	White Spruce	*Picea glauca*	34	Good	4.1	**Preserve**	Good overall condition
136	Green Ash	*Fraxinus pennsylvanica*	26	Poor	3.1	**Preserve**	Significant amount of crown dieback, emerald ash borer damage
137	Eastern White Pine	*Pinus strobus*	31	Good	3.7	**Preserve**	Good overall condition
138	Green Ash	*Fraxinus pennsylvanica*	13	Fair	1.6	**Preserve**	Some minor crown dieback, emerald ash borer damage
139	Black Cherry	*Prunus serotina*	30, 27	Good	3.6	**Preserve**	Good overall condition, two stems
140	Green Ash	*Fraxinus pennsylvanica*	27	Poor	3.2	**Preserve**	Significant amount of crown dieback, emerald ash borer damage
141	Common Apple	*Malus pumila*	23	Fair	2.8	**Preserve**	Some minor crown dieback
142	Green Ash	*Fraxinus pennsylvanica*	28	Good	3.4	**Preserve**	Good overall condition
143	Common Apple	*Malus pumila*	35	Poor	4.2	**Preserve**	Significant amount of crown dieback
144	Green Ash	*Fraxinus pennsylvanica*	26, 20	Poor	3.1	**Preserve**	Significant amount of crown dieback, emerald ash borer damage
145	White Spruce	*Picea glauca*	37	Good	4.4	**Preserve**	Good overall condition
146	White Spruce	*Picea glauca*	20	Good	2.4	**Preserve**	Good overall condition
147	Manitoba Maple	*Acer negundo*	29	Good	3.5	**Preserve**	Good overall condition
148	Manitoba Maple	*Acer negundo*	40	Good	4.8	**Preserve**	Good overall condition
501	Green Ash	*Fraxinus pennsylvanica*	27	Poor	-	Remove	Significant amount of crown dieback, emerald ash borer damage
502	Green Ash	*Fraxinus pennsylvanica*	26	Poor	-	Remove	Significant amount of crown dieback, emerald ash borer damage
503	Green Ash	*Fraxinus pennsylvanica*	23	Poor	-	Remove	Significant amount of crown dieback, emerald ash borer damage
504	Green Ash	*Fraxinus pennsylvanica*	25	Poor	-	Remove	Significant amount of crown dieback, emerald ash borer damage
505	Manitoba Maple	*Acer negundo*	30	Good	-	Remove	Good overall condition
506	Green Ash	*Fraxinus pennsylvanica*	23	Poor	-	Remove	Significant amount of crown dieback, emerald ash borer damage
507	Common Apple	*Malus pumila*	20	Poor	-	Remove	Significant amount of crown dieback, multistemmed
508	Manitoba Maple	*Acer negundo*	13, 14	Fair	-	Remove	Some minor crown dieback, two stems
509	Manitoba Maple	*Acer negundo*	12	Fair	-	Remove	Some minor crown dieback
510	Manitoba Maple	*Acer negundo*	14	Fair	-	Remove	Some minor crown dieback
511	Manitoba Maple	*Malus pumila*	32, 34, 12	Fair	-	Remove	Some minor crown dieback, three stems
512	Manitoba Maple	*Acer negundo*	35	Fair	-	Remove	Some minor crown dieback
513	Common Apple	*Malus pumila*	24, 25, 16	Fair	-	Remove	Some rot at base, three stems

Tree Inventory and Assessment Table: Stellar Estate Homes Phase 2, Arborist Report and Tree Preservation Plan

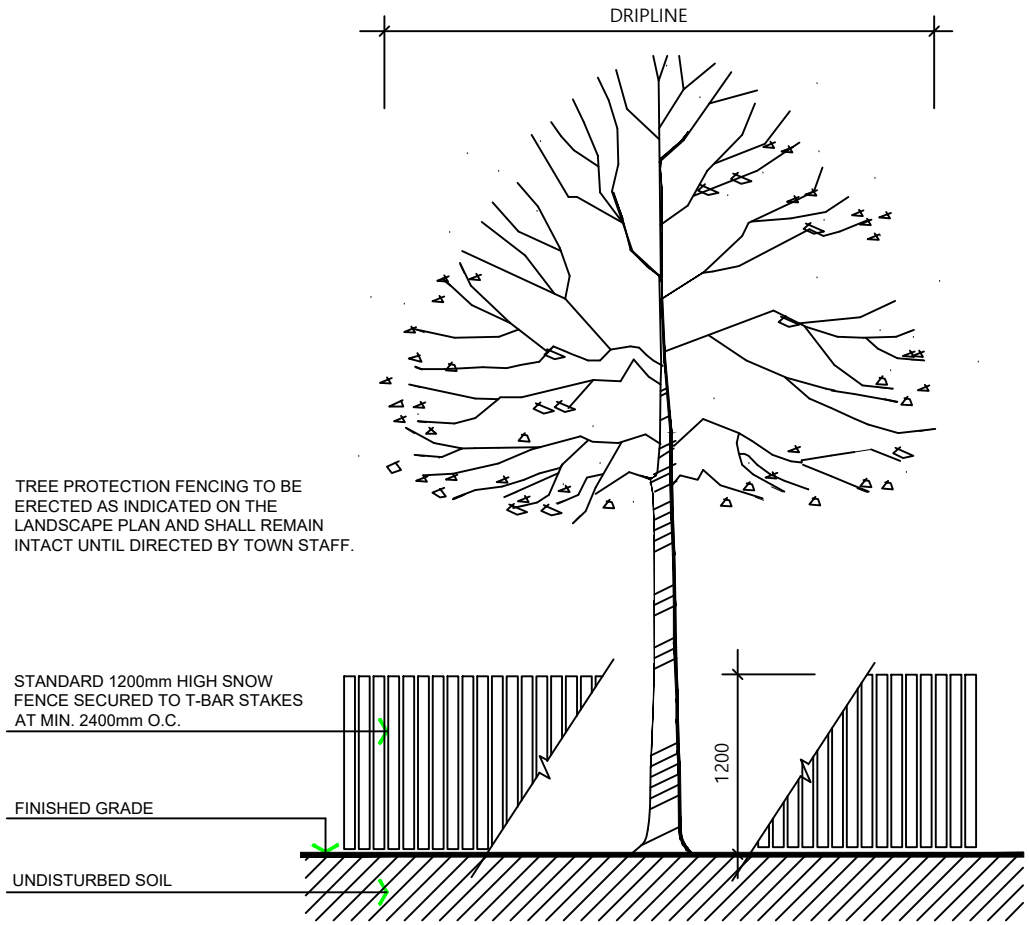
Tree #	Common Name	Scientific Name	DBH (cm)	Condition Rating	Tree Protection Zone (m)	Recommended Action	Notes
514	Green Ash	*Fraxinus pennsylvanica*	35	Poor	-	Remove	Significant amount of crown dieback, emerald ash borer damage
515	Green Ash	*Fraxinus pennsylvanica*	42	Poor	-	Remove	Significant amount of crown dieback, emerald ash borer damage
516	Green Ash	*Fraxinus pennsylvanica*	29	Poor	-	Remove	Significant amount of crown dieback, emerald ash borer damage
517	Manitoba Maple	*Acer negundo*	60	Fair	-	Remove	Some minor crown dieback
518	Manitoba Maple	*Acer negundo*	50	Fair	-	Remove	Some minor crown dieback
519	Eastern White Pine	*Pinus strobus*	34	Good	-	Remove	Good overall condition
520	Green Ash	*Fraxinus pennsylvanica*	21	Poor	-	Remove	Significant amount of crown dieback, emerald ash borer damage
521	Manitoba Maple	*Acer negundo*	34, 26	Fair	-	Remove	Some minor crown dieback, two stems
522	Green Ash	*Fraxinus pennsylvanica*	16	Poor	-	Remove	Significant amount of crown dieback, emerald ash borer damage
523	Black Walnut	*Juglans nigra*	14	Good	-	Remove	Good overall condition
524	Black Cherry	*Prunus serotina*	12, 10, 10	Good	-	Remove	Good overall condition, three stems
525	Eastern White Pine	*Pinus strobus*	24	Good	-	Remove	Good overall condition
526	Hybrid Willow	*Salix x fragilis*	12	Good	-	Remove	Good overall condition
527	Hybrid Willow	*Salix x fragilis*	13	Good	-	Remove	Good overall condition
528	Hybrid Willow	*Salix x fragilis*	21, 15	Good	-	Remove	Good overall condition, two stems
529	Hybrid Willow	*Salix x fragilis*	12	Good	-	Remove	Good overall condition
530	Hybrid Willow	*Salix x fragilis*	10	Good	-	Remove	Good overall condition
531	Hybrid Willow	*Salix x fragilis*	12	Good	-	Remove	Good overall condition
532	Hybrid Willow	*Salix x fragilis*	19	Good	-	Remove	Good overall condition
533	Dotted Hawthorn	*Crataegus punctata*	19, 10	Good	2.3	**Preserve**	Good overall condition, two stems
534	Common Apple	*Malus pumila*	28, 20	Good	3.4	**Preserve**	Good overall condition, two stems
535	Green Ash	*Fraxinus pennsylvanica*	22	Poor	2.6	**Preserve**	Significant amount of crown dieback, emerald ash borer damage
536	Black Cherry	*Prunus serotina*	65, 20	Fair	7.8	**Preserve**	Some minor crown dieback, two stems
537	Black Cherry	*Prunus serotina*	33, 30, 30	Fair	4.0	**Preserve**	Some minor crown dieback, three stems
538	Smooth Serviceberry	*Amelanchier laevis*	11, 12	Good	1.4	**Preserve**	Good overall condition, two stems
539	Bur Oak	*Quercus macrocarpa*	20	Good	2.4	**Preserve**	Good overall condition
540	Black Cherry	*Prunus serotina*	21	Good	2.5	**Preserve**	Good overall condition
541	Common Apple	*Malus pumila*	44, 40, 40	Good	5.3	**Preserve**	Good overall condition, three stems
542	Common Apple	*Malus pumila*	50	Good	6.0	**Preserve**	Good overall condition
543	Manitoba Maple	*Acer negundo*	41	Good	4.9	**Preserve**	Good overall condition
544	Common Apple	*Malus pumila*	35, 31, 20	Good	4.2	**Preserve**	Good overall condition, three stems
545	Green Ash	*Fraxinus pennsylvanica*	25	Fair	3.0	**Preserve**	Some minor crown dieback

Tree Inventory and Assessment Table: Stellar Estate Homes Phase 2, Arborist Report and Tree Preservation Plan

Tree #	Common Name	Scientific Name	DBH (cm)	Condition Rating	Tree Protection Zone (m)	Recommended Action	Notes
546	Manitoba Maple	*Acer negundo*	14	Good	1.7	**Preserve**	Good overall condition
547	Green Ash	*Fraxinus pennsylvanica*	16, 16	Fair	1.9	**Preserve**	Some minor crown dieback, emerald ash borer damage, two stems
548	Eastern White Pine	*Pinus strobus*	50	Good	6.0	**Preserve**	Good overall condition
549	Black Walnut	*Juglans nigra*	32	Good	-	Remove	Good overall condition
Grouping 1	Hybrid Willow	*Salix x fragilis*	25 to 25	Good	dripline	**Preserve**	Grouping of 10 Willow trees in wetland area

APPENDIX B

Town of Caledon Tree Preservation Detail and Standard Notes



SPECIFICATIONS FOR THE PROTECTION AND PRESERVATION OF EXISTING VEGETATION:

1. PRIOR TO ISSUANCE OF THE GRADING AND SERVICING OR BUILDING PERMIT, ALL EXISTING TREES THAT ARE TO BE PRESERVED SHALL BE FULLY PROTECTED WITH HOARDING (IE SNOW FENCING) OUTSIDE THEIR 'DRIPLINES', OR AS DIRECTED THROUGH ADDITIONAL GOVERNING DOCUMENTS,TO THE SATISFACTION OF THE TOWN.
2. GROUPS OF TREES AND OTHER EXISTING PLANTINGS TO BE PROTECTED SHALL BE TREATED IN A LIKE MANNER WITH HOARDING AROUND THE ENTIRE CLUMP(S).
3. TREE PRESERVATION FENCE IS TO BE INSPECTED BY THE CONSULTING ARBORIST OR LANDSCAPE ARCHITECT AND APPROVED BY THE TOWN PRIOR TO CONSTRUCTION COMMENCING.
4. SILTATION CONTROL FENCING MAY BE USED AS A TREE PRESERVATION FENCING SUBSTITUTE IF REQUIRED BY ENGINEERING AT THE DISCRETION OF THE TOWN.
5. AREAS WITHIN PROTECTIVE FENCING SHALL REMAIN UNDISTURBED AND SHALL NOT BE USED FOR THE STORAGE OF BUILDING MATERIALS OR EQUIPMENT. NO CONTAMINANTS SHALL BE DUMPED OR FLUSHED WHERE FEEDER ROOTS OF TREES EXIST. NO GARBAGE OR BUILDING MATERIALS ARE TO BE PLACED ON OR AGAINST THE TREE PRESERVATION FENCE.
6. PRUNE BRANCHES TO REMOVE DAMAGED LIMBS ONLY. DO NOT DAMAGE LEADERS. ALL CUTS OVER 25mm SHALL BE TREATED IN ACCORDANCE WITH APPROPRIATE HORTICULTURAL PRACTICES AS APPROVED BY THE TOWN. NO MORE THAN 20% OF THE TREE SHALL BE PRUNED UNLESS DIRECTED BY THE TOWN.
7. CUTTING OF ROOTS OR CHANGING OF GRADES AROUND EXISTING TREES TO BE PRESERVED WILL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE PUBLIC WORKS AND ENGINEERING DEPARTMENT.
8. IF TREES ARE BEING ADVERSELY AFFECTED BY CONSTRUCTION, A WATERING AND FERTILIZING PROGRAM IS TO BE SET UP TO THE SATISFACTION OF THE TOWN.
9. PRIOR TO FINAL APPROVAL TREES THAT HAVE DIED OR HAVE BEEN DAMAGED BEYOND REPAIR PRIOR DURING OR POST CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH TREES OF A SIZE AND SPECIES APPROVED BY THE TOWN, AT THE SOLE COST OF THE DEVELOPER.

TOWN OF CALEDON

TREE PRESERVATION

NO.	REVISION	APR'D	DATE
3	STANDARD 707 NOW 606		JAN 18
2	STANDARD No. 1135 NOW 707, NOTES EDIT		JUNE 08
1	NOTE NO. 9 ADDED		MARCH 08

APR'D: C.C. DATE: JUNE 08

DRAWN: abal SCALE: NTS

STANDARD No. 606

SPECIFICATIONS

A. General

The following Tree Preservation and Protection Measures will be undertaken to help eliminate and/or significantly reduce construction injury to all trees recommended for preservation. All temporary tree protection measures cited for retained trees must comply with the Town of Caledon Tree Protection Specifications and Details. Any variation from the standard tree protection measures must be approved in writing by the Town of Caledon.

B. Pre-Construction Phase

1. Prior to construction, the trees to be preserved shall be protected with a Tree Protection Barrier. The barrier shall consist of 1.2m (4ft) high orange plastic snow fence wired to T-bars (see Town of Caledon Tree Preservation Fencing, STD 606).
2. If applicable, attach a filter cloth 600mm high to the construction side of the hoarding to act as sediment control. Sediment control fencing shall meet or exceed OPSD-219.110, and be installed to the satisfaction of the Town of Caledon.
3. All supports and bracing used to safely secure the barrier should be located outside the Tree Protection Zone (TPZ). All supports and bracing should minimize damage to roots.
4. The TPZ fence is to be installed along the edge of the tree protection zones. This hoarding is to remain in place and remain in good condition throughout the entire duration of the project. Dismantling the tree protection barrier prior to approval by the Town of Caledon staff may constitute a contravention.
5. The applicant shall notify the Town of Caledon and the consulting certified arborist or landscape architect to confirm that the tree protection barriers are in place.
6. Where fill or excavated material must be temporarily located near a TPZ, a wooden barrier must be used to ensure no material enters the TPZ.
7. Remove any garbage and foreign debris from the tree protection zones, daily.
8. For the trees that were recommended for removal and/or crown pruning that are within the TPZ limits, these activities are to be performed by a qualified ISA certified arborist prior to the installation of the Tree Protection Zone barriers and prior to the commencement of any construction activities. Install the Tree Protection Zone barrier as per Tree Preservation Fencing, STD 606 at the limits shown on the tree inventory and protection plan after the tree removal, whichever is greater, and crown pruning activities are completed.
9. A **Tree Protection Zone** sign must be mounted on all sides of the tree protection barrier for the duration of site construction. The sign should be a minimum of 40cm x 60cm and made of white gator board or equivalent material.
10. The sign must be similar to the illustration shown below, or as directed by the Town of Caledon.

TREE PROTECTION ZONE

No work is permitted in the Tree Protection Zone

This includes construction works, grading, storage of trash or materials.

The tree protection barrier must not be removed without written authorization of the Town of Caledon.

11. All contractors and site visitors should be informed of the tree preservation and protection measures at a pre-construction meeting.

specifications continued on next panel...

TOWN OF CALEDON						
TREE PRESERVATION STANDARD NOTES - PART 1					APR'D: B.B.	DATE: AUGUST 17
					DRAWN: B.M.	SCALE: NTS
	NO.	REVISION	APR'D	DATE	STANDARD No. 710	

SPECIFICATIONS continued from previous panel

C. During Construction Phase

1. All areas within the TPZ shall remain undisturbed for the duration of construction. There will be no grade changes, dumping, and storage of any materials, structures or equipment within these areas. The Tree Protection Barrier must not be removed without the written authorization of the Town of Caledon.
2. Minor grading works will be permitted at the edge of the preservation zone as required to correct localized depressions, and blend to existing grades.This work to be undertaken under the direct supervision of an ISA certified arborist.
3. A certified ISA arborist will undertake proper root pruning in accordance with acceptable arboriculture practices when and if roots of retained trees are to be exposed, damaged, or severed by construction work. The exposed roots will be backfilled with appropriate material as soon as possible to prevent desiccation. Root pruning prior to excavation will help prevent necessary damage to tree roots.The use of low pressure hydrovac to expose roots is recommended, at no additional cost.
4. The Town of Caledon must be notified for all work that impacts the TPZ for temporary removal of a section of hoarding to gain access for fine grading or other works. All works are to be supervised by the Town of Caledon.
5. No cables, wire or ropes of any kind shall be wrapped around or installed in trees to be preserved.
6. No contaminants will be dumped or flushed in the TPZ areas or where feeder roots of trees exist (generally beyond the TPZ areas).
7. Irrigate tree protection zones during drought conditions, June to September to reduce drought stress.
8. Inspect the site daily to ensure hoarding is in place and in good condition. Inspect trees to monitor condition.

D. Post Construction Phase

1. Following the completion of all site works including landscaping, and after review and approval by the Town of Caledon staff, the protective hoarding may be removed.
2. After removal of the protective hoarding, the Tree Preservation Zones shall be inspected by the Town of Caledon staff. Any remaining dead, diseased, or hazardous limbs or trees are to be removed by an ISA certified arborist as directed by the consulting arborist or Town of Caledon staff.

end of specifications

TOWN OF CALEDON						
TREE PRESERVATION STANDARD NOTES - PART 2					APR'D: B.B.	DATE: AUGUST 17
					DRAWN: B.M.	SCALE: NTS
	NO.	REVISION	APR'D	DATE	STANDARD No. 711	

APPENDIX C

Tree Compensation Table

Tree Compensation Table: Stellar Estate Homes Phase 2, Arborist Report and Tree Preservation Plan

Tree #	Common Name	Scientific Name	DBH (cm)	Condition Rating	Tree Protection Zone (m)	Recommended Action	Notes	Compensation Ratio[2]	Required # Compensation Trees
505	Manitoba Maple	*Acer negundo*	30	Good	-	Remove	Good overall condition	2:1	2
508	Manitoba Maple	*Acer negundo*	13, 14 [1]	Fair	-	Remove	Some minor crown dieback, two stems	1:1	1
509	Manitoba Maple	*Acer negundo*	12	Fair	-	Remove	Some minor crown dieback	1:1	1
510	Manitoba Maple	*Acer negundo*	14	Fair	-	Remove	Some minor crown dieback	1:1	1
511	Manitoba Maple	*Malus pumila*	32, 34, 12	Fair	-	Remove	Some minor crown dieback, three stems	3:1	3
512	Manitoba Maple	*Acer negundo*	35	Fair	-	Remove	Some minor crown dieback	2:1	2
513	Common Apple	*Malus pumila*	24, 25, 16	Fair	-	Remove	Some rot at base, three stems	3:1	3
517	Manitoba Maple	*Acer negundo*	60	Fair	-	Remove	Some minor crown dieback	4:1	4
518	Manitoba Maple	*Acer negundo*	50	Fair	-	Remove	Some minor crown dieback	3:1	3
519	Eastern White Pine	*Pinus strobus*	34	Good	-	Remove	Good overall condition	2:1	2
521	Manitoba Maple	*Acer negundo*	34, 26	Fair	-	Remove	Some minor crown dieback, two stems	2:1	2
523	Black Walnut	*Juglans nigra*	14	Good	-	Remove	Good overall condition	1:1	1
524	Black Cherry	*Prunus serotina*	12, 10, 10	Good	-	Remove	Good overall condition, three stems	1:1	1
525	Eastern White Pine	*Pinus strobus*	24	Good	-	Remove	Good overall condition	2:1	2
526	Hybrid Willow	*Salix x fragilis*	12	Good	-	Remove	Good overall condition	1:1	1
527	Hybrid Willow	*Salix x fragilis*	13	Good	-	Remove	Good overall condition	1:1	1
528	Hybrid Willow	*Salix x fragilis*	21, 15	Good	-	Remove	Good overall condition, two stems	2:1	2
529	Hybrid Willow	*Salix x fragilis*	12	Good	-	Remove	Good overall condition	1:1	1
530	Hybrid Willow	*Salix x fragilis*	10	Good	-	Remove	Good overall condition	1:1	1
531	Hybrid Willow	*Salix x fragilis*	12	Good	-	Remove	Good overall condition	1:1	1
532	Hybrid Willow	*Salix x fragilis*	19	Good	-	Remove	Good overall condition	1:1	1
549	Black Walnut	*Juglans nigra*	32	Good	-	Remove	Good overall condition	2:1	2
								Total Compensation Trees	**38**

[1] DBH of multi-stemmed tree determined by taking the square root of the sum of the squared DBH measurements of all stems (*i.e.* square root of $A^2 + B^2 + C^2$)

[2] Compensation Ratio as required within the Terms of Reference for Arborist Reports, Tree Preservation Plans and Tableland Tree Removal Compensation (Town of Caledon, April 2020)