

TOWN OF CALEDON
PLANNING
RECEIVED

October 1, 2020

ARBORIST REPORT

Pertaining to:

12544 HIGHWAY 50,
Bolton, Ontario

Prepared for:

n Architecture Inc.
23 Bonnington Place
Toronto, ON M2N 4V2

Prepared by:



Bruce Tree Expert Company Ltd.

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BTEC File #: 6452-0002

Date: Nov. 19 2015

Revised: Oct. 14 2016

Sep. 8 2020

Introduction

Bruce Tree Expert Company Ltd. was retained by n Architecture Inc. in November of 2015 to complete an Arborist Report and Tree Protection Plan for 12544 Highway 50, Bolton. The report was requested relative to the construction of a gas station on the site. The following arborist report has been updated relative to comments received from the Town of Caledon dated Dec. 9 2019.

The purpose of this report is to:

- Establish species, size and condition of trees located on and adjacent to the subject site.
- Provide a prescription for the protection/removal of trees during the project.
- Provide a Tree Protection Plan showing the location of tree protection and removal measures based on the current site plans.

Method

1. The subject site was assessed on November 17 2015 by the consulting arborist.
2. Photos were taken at the time and the most representative are attached as Appendix I.
3. All trees greater than 10cm DBH were included inventoried on the subject site and within approximately 6m of property lines.
4. Trunk diameter was measured using a calibrated diameter tape. The measurement was taken at 1.4 meters above ground level, generally referred to as the diameter at breast height (DBH). For trees located on adjacent private property, DBH was estimated.
5. Trees were assessed in consideration of overall health and structural integrity and assigned a condition rating ranging from good to fair to poor. The assessment may be characterized as an external visual assessment from the ground.
6. The tree inventory is attached as Appendix II, TPP-2.
7. A Tree Protection Plan was created by Bruce Tree Expert Company Ltd. by adding tree protection and removal comments to a site plan prepared by n Architecture Inc. issued Sep. 8, 2020 and based on a survey prepared by GTA Surveying Ltd. dated Sep. 25 2015. The Tree Protection Plan is attached as Appendix II.

Site Description

At the time of the tree assessment, the subject site consisted of a vacant house and shed, and that was being used for parking and as an auto yard. The surface of the site was primarily gravel, with occasional piles of rubble and mounds of dirt soil/fill. The site was bordered by wind-seeded Manitoba maple trees in poor condition. There was a pond at the east end of the site, with a naturalized open meadow/grassland extending beyond the property line.

Tree Inventory

See Appendix II, TPP-I.

Tree Protection Prescription

Pre-Construction

1. The client is to submit the following report and Tree Protection Plan to the Town of Caledon for review.
2. The following tree protection and removal measures must be read in conjunction with the Tree Protection Plan, Appendix II. Both documents must be provided to the site supervisor prior to any work commencing on the site.
3. Several trees have been proposed for removal, which are located on the property line or immediately on the adjacent property. Most of these trees are structurally in bad condition and likely to fail if retained. Trees that are located on or over the property line are considered 'boundary trees'. Under the Forestry Act, it is the responsibility of the client to obtain permission from the co-owner of any boundary or neighbouring trees prior to their removal. Municipal approval does not preclude civil action.
4. Written permission must be provided to the Town for the removal of adjacent or boundary trees from the adjacent owner or co-owner of these trees. If written permission is not provided, the trees must be fully protected.
5. Trees proposed for removal, and if approved by the Town, must be removed prior to any work on the site.
6. No disturbance is allowed within the Tree Protection Zone (TPZ) of protected trees. Disturbance includes soil compaction from foot traffic and construction materials,

excavation, grade changes, or storage of materials. The minimum TPZ radius is specified as the drip line of trees.

7. Tree protection barriers are required for all trees that are to be preserved on or adjacent to the site. The barriers are to be installed at the drip line of trees as per the Town of Caledon Standard 707.
8. Protective hoarding is to be installed as shown on the Tree Protection Plan (Appendix II). The barriers are to be 1.2m (4 feet) high and constructed of orange web snow fencing wired to T-bars. There is to be no damage to roots below ground to install the T-bars. If a root is in conflict, the T-bar must be shifted. T-bars must be no greater than 1.8m apart.

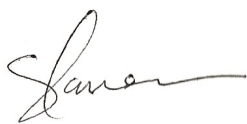
Construction Phase

9. It is the responsibility of the site supervisor to inspect the condition of the tree protection measures outlined on the plan and within this report each morning. If disturbance is observed, it is to be repaired prior to work commencing on site that day.
10. During construction, if any tree roots are exposed or disturbed outside the tree protection fencing, care is to be taken to minimize their disturbance. If roots must be removed outside the TPZ, they must be cleanly pruned. Tearing roots hinders wound closure and can increase risk of disease and root rot.
11. Trees 1, 3 and 4 are located on the adjacent private property to the north. These trees are at a slightly higher grade than the subject site. The area adjacent to these trees is to be maintained as soft ground surface. If the grade of the subject site is to match the adjacent grade, only sandy-loam topsoil may be added (no fill). No excavation is to occur under the drip lines of these trees.

Post Construction

12. Trees 1, 3 and 4 are to be monitored following construction for any indications of stress following construction. Stress as a result of the construction may not be apparent for some years following the disturbance and may make the tree more susceptible to other stresses (water stress, insects, disease). If the condition of the trees declines, the most appropriate method to address the issue is to be carried out.
13. Replanting on the site may be required by the Town to compensate for the removal of canopy cover.

If there are any questions regarding this report, please do not hesitate to contact me at 416 268-7453.

A handwritten signature in black ink, appearing to read 'Sarah Lamon', written in a cursive style.

Sarah Lamon, M.F.C., I.S.A. Certified Arborist ON-1220A

Appendix I – Photographs



Photo 1. Tree 01 behind fence and Tree 02 in front of fence on subject site.



Photo 2. Tree 03, behind fence and Tree 02 (far right).



Photo 3. Trees 04 (behind fence), 05 and 06.



Photo 4. Tree 08.



Photo 5. Tree 09, leader is dead.



Photo 6. Trees 10 and 11.



Photo 7. Tree 12.



Photo 8. Trees 15 and 16.

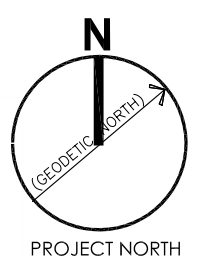
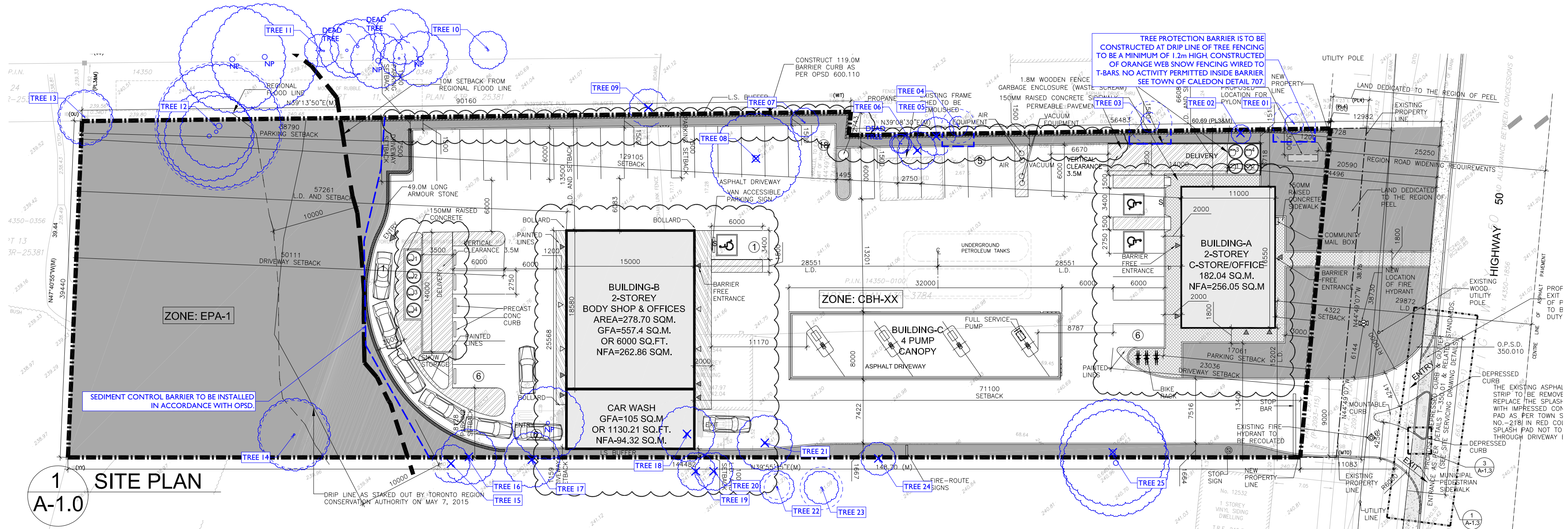


Photo 9. Tree 21.



Photo 10. Tree 25.

Appendix II - Tree Protection Plan, attached.



- LEGEND**
- TREE PROPOSED FOR REMOVAL
 - TREE PROTECTION FENCE
 - MINIMUM TREE PROTECTION ZONE/DRIP LINE FOR TREE PROTECTION
 - NOT PRESENT (TREE PREVIOUSLY REMOVED)

GENERAL NOTES

1. This plan is to be read in conjunction with the arborist report prepared by Bruce Tree Expert Company Ltd. dated Nov. 19 2015, revised Sep. 8 2020.

2. Bruce Tree Expert Company Ltd. provided the tree numbers, tree protection zones, tree protection comments and icons for trees 2, 11, 22, 23, 24. Locations approximate. All other information was provided on a site plan prepared by n Architecture Inc. issued Sep. 8 2020 and a topographic survey prepared by GTA Surveying Inc. dated Jan. 20 2014 and Jul. 23 2014.

BRUCE TREE
MULLENBACH TREE

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6452-0002
Btec FILE
1: 350
SCALE

NO.	DATE
3	08.09.2020
2	14.10.2016
1	19.11.2015

TITLE
TREE PROTECTION PLAN

SITE
12544 HIGHWAY 50,
BOLTON

TPP-1
SHEET 1/2

Inventory Date: Nov. 17 2015

Chart Details:

Tree #: Inventoried trees were assigned an identification number.

Species: Includes the botanical name and common name of each tree.

DBH: Diameter in cm measured at 1.4 meters from the ground (diameter at breast height).

Crown: Average diameter of the crown in m.

Condition Rating: Overall condition rating from good to fair to poor based on overall health and structure.

Condition Comments: Specific observations from the visual assessment that have informed the condition rating.

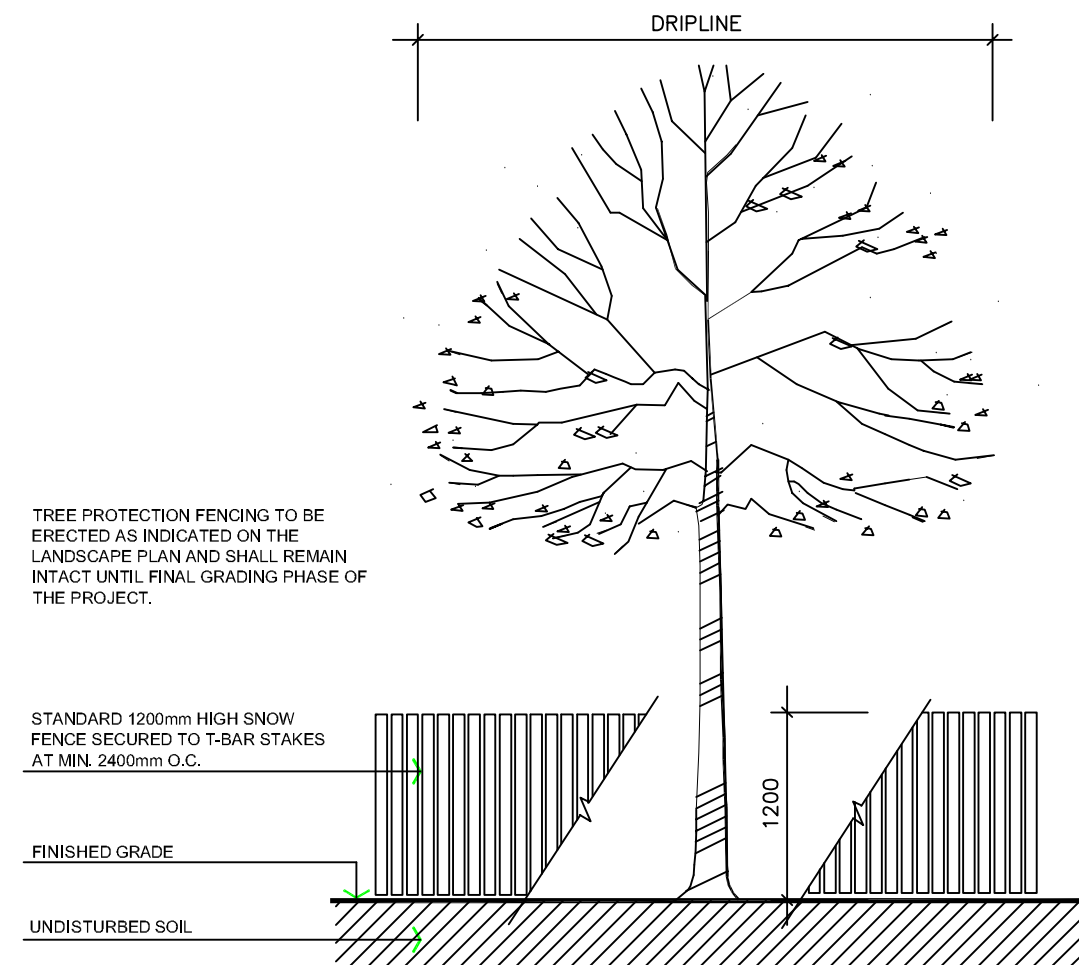
TPZ: Minimum Tree Protection Zone radius in metres for tree preservation. N/A for trees proposed for removal.

Ownership: Ownership based on survey. Categories: Municipal; Private Subject Site; Private Adjacent; Private Boundary; TBD (to be determined).

Trees located close to property lines may require ownership confirmation by a surveyor.

Action: Protect, injure or remove recommendations based on the site plans, and other actions to be taken.

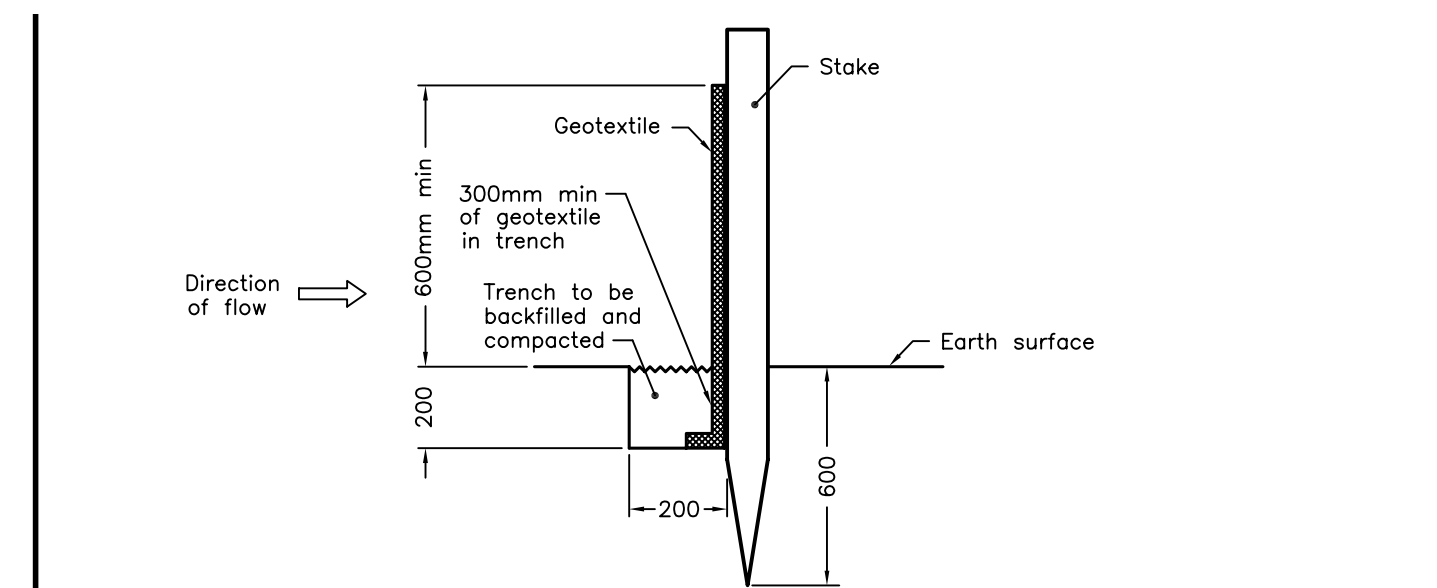
Tree #	Species	DBH (cm)	Crown (m)	Condition Rating	Condition Comments	TPZ (m)	Ownership	Action
1	<i>Gleditsia triacanthos</i> (honey locust)	16.5	5	Good	Good trunk structure; good crown structure; good health; 20cm north of fence at higher elevation than subject site.	5	Private, Adjacent	Preserve
2	<i>Acer platanoides</i> (Manitoba maple)	9 & 5	5	Fair - Poor	Codominant stems at 75cm from ground with included bark; suckering at base; within 10cm if fence; fair to poor trunk structure, fair crown structure, good health.	NA	Private, Subject site	Remove
3	<i>Gleditsia triacanthos</i> (honey locust)	18.5	4	Good	Good trunk structure; good crown structure; good health; 75cm north of fence, higher elevation than subject site.	4	Private, Adjacent	Preserve
4	<i>Gleditsia triacanthos</i> (honey locust)	15.5	5	Fair	Asymmetrical crown extending to east; minor witches brooming; good structure; fair health; 75cm north of wooden fence.	5	Private, Adjacent	Preserve
5	<i>Acer platanoides</i> (Manitoba maple)	31, 7, 7, 5	5	Poor	Growing within 10cm of fence; topped in past; large mushrooms in trunk; lean to south.	NA	Private, Subject site	Remove
6	<i>Acer platanoides</i> (Manitoba maple)	27.5	3	Poor	Topped; trunk on minor lean to east; growing at base of shed; poor structure; fair health.	NA	Private, Subject site	Remove
7	<i>Acer platanoides</i> (Manitoba maple)	12, 8.5	5	Poor	Codominant stems at ground level; within 10cm of fence; poor trunk structure; fair to poor crown structure; good health.	NA	Private, Subject site	Remove
8	<i>Acer saccharinum</i> (silver maple)	75	6	Poor	Advanced decline; large diameter cavities (20cm diameter) on east, west and south sides of trunk; leader dead; 15cm diameter dead limb extending south; 15% live crown.	NA	Private, Subject site	Remove
9	<i>Acer platanoides</i> (Manitoba maple)	21	4	Poor	10% live crown; main stem dead with suckering at base; slight lean to west.	NA	Private, Adjacent	Remove
10	<i>Acer platanoides</i> (Manitoba maple)	15-20	5	Poor	Multiple branch tear outs; poor structure; poor health.	NA	Private, Adjacent	Preserve
11	<i>Acer platanoides</i> (Manitoba maple)	30-35	6	Poor	Advanced decline; 20% live crown; multiple branch tear outs; trunk decay.	NA	Private, Adjacent	Preserve
12	<i>Salix</i> sp. (willow)	72, 50-60 x2, 40-50 x2	15	Fair - Poor	Growing at edge of pond with base of trunk partially submerged; multiple stems; debris piled to east; multiple broken branches up to 10cm diameter; fair health.	15	Private, Subject site	Preserve
13	<i>Acer platanoides</i> (Manitoba maple)	26.5, 20	6	Poor	Codominant stems at 1.2m with included bark; poor health.	NA	Private, Subject site	Remove
14	<i>Acer platanoides</i> (Manitoba maple)	27, 25, 24	8	Poor	Codominant at ground level with included bark; fourth stem decaying; poor structure; fair health.	NA	Private, Subject site	Remove
15	<i>Acer platanoides</i> (Manitoba maple)	16, 14	5	Poor	Growing through page wire fence; leaning to west away from T16; poor structure; fair health.	NA	Private, Adjacent	Remove
16	<i>Acer platanoides</i> (Manitoba maple)	41, 17, 14, 13	12	Poor	Growing through page wire fence; codominant stems at ground with included bark; on lean to south; mushrooms on main stem; poor structure; fair to poor health.	NA	Private, boundary	Remove
17	<i>Acer platanoides</i> (Manitoba maple)	38, 33	8	Poor	Codominant stems with included bark; mushrooms from trunk; multiple branch tearouts; brush piled at base.	NA	Private, boundary	Remove
18	<i>Acer platanoides</i> (Manitoba maple)	44, 36	10	Poor	Growing from dirt mound; 50% crown tear out; multiple suckers; poor structure; fair vitality.	NA	Private, Subject site	Remove
19	<i>Acer platanoides</i> (Manitoba maple)	15-20	4	Poor	Growing approx. 1m from bottom of mound; lean to south away from T18.	NA	Private, Adjacent	Remove
20	<i>Acer platanoides</i> (Manitoba maple)	15-20	4	Poor	Growing approx. 1m from bottom of mound; lean to south away from T18; hazard beam crack on main limb.	NA	Private, Adjacent	Remove
21	<i>Acer platanoides</i> (Manitoba maple)	29.5	7	Poor	Acute lean to south; growing from dirt mound; multiple branch tear outs; poor structure; fair vitality.	NA	Private, Subject site	Remove
22	<i>Rhamnus cathartica</i> (European buckthorn)	5-10 x 10	3	Poor	Crown damaged by failure of T21.	3	Private, Adjacent	Preserve
23	<i>Acer platanoides</i> (Manitoba maple)	10-20 x 6	5	Fair - Poor	Narrow angled unions between multiple stems; fair health.	5	Private, Adjacent	Preserve
24	<i>Acer platanoides</i> (Manitoba maple)	25-35	7	Fair - Poor	Low branching with lever limbs liable to tear out; codominant stems in upper crown with narrow union; fair to poor vitality.	NA	TBD	Remove
25	<i>Ulmus pumila</i> (Siberian elm)	53	7	Poor	All branch tips torn in past with epicormic shoots forming crown; old cavity at base on south side approx. 1/3	NA	Private, boundary	Remove



SPECIFICATIONS FOR THE PROTECTION AND PRESERVATION OF EXISTING VEGETATION:

- PRIOR TO ISSUANCE OF THE BUILDING PERMIT, ALL EXISTING TREES THAT ARE TO BE PRESERVED SHALL BE FULLY PROTECTED WITH HOARDING (IE SNOW FENCING) OUTSIDE THEIR 'DRIPLINES', TO THE SATISFACTION OF THE TOWN.
- GROUPS OF TREES AND OTHER EXISTING PLANTINGS TO BE PROTECTED SHALL BE TREATED IN A LIKE MANNER WITH HOARDING AROUND THE ENTIRE CLUMP(S).
- AREAS WITHIN THE 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.
- 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.
- 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.
- TREES THAT HAVE DIED, OR HAVE BEEN DAMAGED BEYOND REPAIR SHALL BE REPLACED AT THE DEVELOPER'S EXPENSE, WITH TREES OF A SIZE AND SPECIES APPROVED BY THE TOWN.
- IF TREES ARE BEING ADVERSELY AFFECTED BY CONSTRUCTION, A WATERING AND FERTILIZING PROGRAM IS TO BE SET UP TO THE SATISFACTION OF THE TOWN.
- TREE PRESERVATION FENCE TO BE INSPECTED BY THE CONSULTING LANDSCAPE ARCHITECT AND APPROVED PRIOR TO CONSTRUCTION COMMENCING.

TOWN OF CALEDON		APR'D: C.C.	DATE: JUNE 08
TREE PRESERVATION		DRAWN: abal	SCALE: NTS
NO.	REVISION	APR'D	DATE
2	STANDARD No. 1135 NOW 707, NOTES EDIT		JUNE 08
1	NOTE NO. 9 ADDED		MARCH 08
STANDARD No. 707			



NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING		Nov 2006	Rev 1	
LIGHT-DUTY SILT FENCE BARRIER		OPSD 219.110		

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	Btec FILE 1: 350 SCALE	3 08.09.2020 2 14.10.2016 1 19.11.2015	NO. DATE			