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City of Mississauga



TREE PROTECTION FENCING. REFER TO SHEET TP-2 FOR DETAILS.

> EXISTING DECIDUOUS TREE TO BE PRESERVED

**EXISTING CONIFEROUS TREE** TO BE REMOVED

**EXISTING CONIFEROUS TREE** TO BE PRESERVED

> TREE TAG I.D. NUMBER (TO BE REMOVED)

SURVEY PLAN RECEIVED FROM MATAS HOMES ON JUNE 2013, PREPARED BY VLADIMIR DOSEN RVEYING NOVEMBER, 2011. FILE NAME: 86DUNDASEASTcomb1.dwg STING TREE INSPECTION UNDERTAKEN BY REDBUD FORESTRY CONSULTANTS AND SEFERIAN DESIGN GROUP JULY 10, 2013, UPDATED MAY 2016.

NO.	REVISIONS	DATE:
6	REVISED AS PER NEW SITE PLAN	19.05.28
5	REVISED AS PER NEW SITE PLAN	18.01.04
4	REVISED PER UTILITY PLAN	17.05.19
3	REVISED AS PER COMMENTS	16.08.08
	SITE PLAN LAYOUT REVISION	16.07.28
	REVISED AS PER COMMENTS	18.10.03
NO.	ISSUED	DATE:

REISSUED FOR ZBA AND OPA	19.09.24
REISSUED FOR ZBA AND OPA	18.04.12
ISSUED FOR ZBA AND OPA	18.01.04
REISSUED FOR ZBA AND OPA	16.08.12
REISSUED FOR ZBA AND OPA	16.07.22
REISSUED FOR ZBA AND OPA	19.08.06

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# Seferian

SEFERIAN DESIGN GROUP 761 Brant Street, Suite 202 Burlington, ON | L7R 2H4 905.634.3110 | seferiandesign.com

TREE PRESERVATION & REMOVALS PLAN

SCALE: 1:200 PROJECT NO: 16-044 DRAWN BY: SLS DESIGN BY: SLS CHECKED BY: HS SHEET No: 1 of 2 NORTH



- 3. Any discrepancies in this drawing or accompanying details are to be reported to the Landscape Architect / or Engineer. Contractor is not to proceed in uncertainty.
- 4. The Contractor is to be aware of all existing and proposed services and utilities. The Contractor shall check all underground services and utility lines staked by each agency having jurisdiction prior commencing the work.
- 5. All trees located within the project area designated for preservation (refer to tree preservation plan), or denoted existing, and all trees located on adjacent properties shall be preserved. In the event that any trees designated for preservation located within the project area or on adjacent properties are damaged or killed by the actions of a Contractor or their agents/sub-contractors, the Contractor will be responsible for the replacement of the destroyed plant material with material of equal and value and comparable species to the satisfaction of the project arborist or their representative.
- 6. No grade changes shall occur within tree protection zone. In the event that grade changes may occur the consulting arborist must be notified so that precautions to preserve the tree, such dry welling or root feeding can be determined prior to the placement of fill or excavation activities.
- 7. Trees shall not have any rigging cables or hardware of any sort attached or wrapped around them, nor shall any contaminants be dumped within the protective areas. Furthermore, no contaminants shall be dumped or flushed where they may come in contact with the feeder roots of the trees.
- 8. The Contractor will take every precaution to prevent damage to trees or shrubs. The Contractor will take every precaution to protect plant and root systems from damage, compaction and contamination resulting from the construction to the satisfaction of the Contract Administrator or consulting arborist..
- 9. Any roots or branches which extend beyond the tree protection zone(s) indicated on this plan which require pruning, must be pruned by a Certified Arborist or other tree professional as approved by municipal representative. All pruning of tree roots and branches must be in accordance with good arboricultural standards.
- 10. Trees that require pruning prior to construction to permit construction activities, have been identified in the tree preservation plan. In the event that it is necessary to remove additional limbs or portions of trees after construction has commenced, to accommodate construction, the consulting arborist is to be informed and the removal is to be executed carefully and in full accordance with arboricultural techniques by a certified arborist in accordance with current ISA standards and good arboricultural practices.
- 11. The Contractor is required to install all tree protection fences first and obtain approval by the Landscape Architect prior to undertaking any vegetation clearing, demolition and grading works on site.
- 12. Trees identified for removal shall be cut and removed off site. All wood chips shall be hauled and disposed off site.
- 13. All tree removals must be completed outside of nesting season which will extend from May 1st to July 1st.

#### **DURING CONSTRUCTION:**

- 14. Maintain tree protection fencing and the TPZ throughout the entire construction period.
- 15. During excavation operations in which roots are affected, the Contractor is to prune all exposed roots cleanly. Prune ends to point obliquely downwards The exposed roots should not be allowed to dry out, and the Contractor shall discuss watering the roots with the Owner and Landscape Architect so that the roots shall maintain optimum soil moisture during construction and backfilling operations. Backfilling must be with clean uncontaminated topsoil from an approved source.
- 16. Areas within the dripline of the trees designated for preservation are not to be used for any type of storage (i.e. storage of debris, construction material, surplus soils, and construction equipment). No trenching or tunneling for underground services shall be located within the tree protection zone or dripline of trees designated for preservation within or adjacent to construction zone.
- 17. Any grading required within the tree protection zone for any tree must be completed by hand under the site supervision of the project Landscape Architect and or Arborist.

- 18. After construction, remove all protective material & begin a care and feeding program for trees as required.
- 19. One year following construction the contractor will prune out all dead, dying or unsafe wood. Only qualified experienced personnel under the direction of an accredited Arborist will perform this work.
- 20. Areas where root systems are directly exposed shall have roots pruned in accordance with good horticultural practices and then back filled with good native loam soil. This will be reviewed with consulting Arborist if required.
- 21. Damaged trees must be immediately repaired at Contractor's expense under the direction of the consulting Arborist.
- 22. All trees to be preserved will be monitored by the Project Landscape Architect & Consulting Arborist during the construction period and for a period of two years following construction.

## **ESTABLISHMENT OF TREE PROTECTION ZONE, BARRIERS** & FENCING

- 1. Where trees located within the project area that it has been determined the feasibility for preservation is good, tree protection barriers are proposed to establish a tree protection zone (refer to Tree Preservation Plan). All trees located on adjacent properties shall be preserved unless written consent is provided by the property owner for the tree removal(s).
- 2. The tree protection zone shall be established by the installation of tree protection fencing. The Tree Preservation Plan indicates the layout of the fencing. The tree protection fencing shall follow municipal guidelines and/or requirements unless stated otherwise within the detailed vegetation management plan.
- 3. Tree protection barriers are to be erected prior to the commencement of any construction or grading activities on the site and are to remain in place throughout the entire duration of the project. The applicant shall notify the municipal representative prior to commencing any construction activities to confirm that the tree protection barriers are in place.
- 4. All supports and bracing used to safely secure the barrier should be located outside the tree protection zone. All supports and bracing should minimize damage to roots.
- 5. Where some fill or excavated material must be temporarily located near the tree protection zone, a wooden barrier must be used to ensure no material(s) enters the tree protection zone.

### LIMITATIONS OF ASSESSMENT

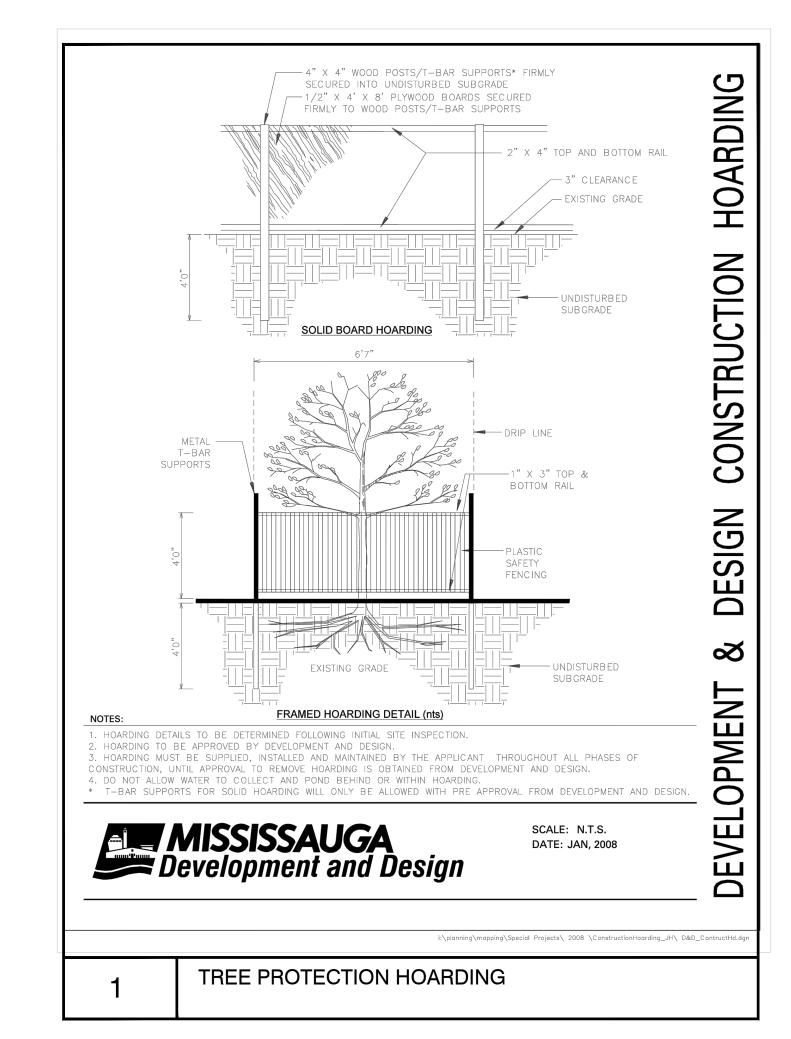
It is Seferian Design Group policy to attach the following clause regarding limitations. We do this to ensure that the all interested parties are aware of what is technically and professionally realistic in retaining trees.

The assessment of the trees presented on these plans has been made using accepted arboricultural techniques. Specifically, we conducted a visual examination 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; and the degree and direction of lean (if any). We also noted the general condition of the trees and the surrounding site, and the proximity of property and people. Except where specifically noted, the trees were not cored, probed or climbed and there was no detailed inspection of the root crowns involving excavations.

Notwithstanding the recommendations and conclusions made on these plans and corresponding reports (if applicable), must be recognized that trees are living organisms, and their health and vigour constantly changes over time. They are not immune to changes in site conditions or seasonal variations in the weather conditions.

While reasonable efforts have been made to ensure that the trees recommended for retention are healthy, no guarantees are offered, or implied, that these trees or any of their parts will remain standing. It is both professionally and practically impossible to predict with absolute certainty the behaviour of any single tree or its component parts under all circumstances. Inevitably, a standing tree will always pose some level of risk. Most trees have the potential for failure under adverse weather conditions, and the risk can only be eliminated if the tree is removed.

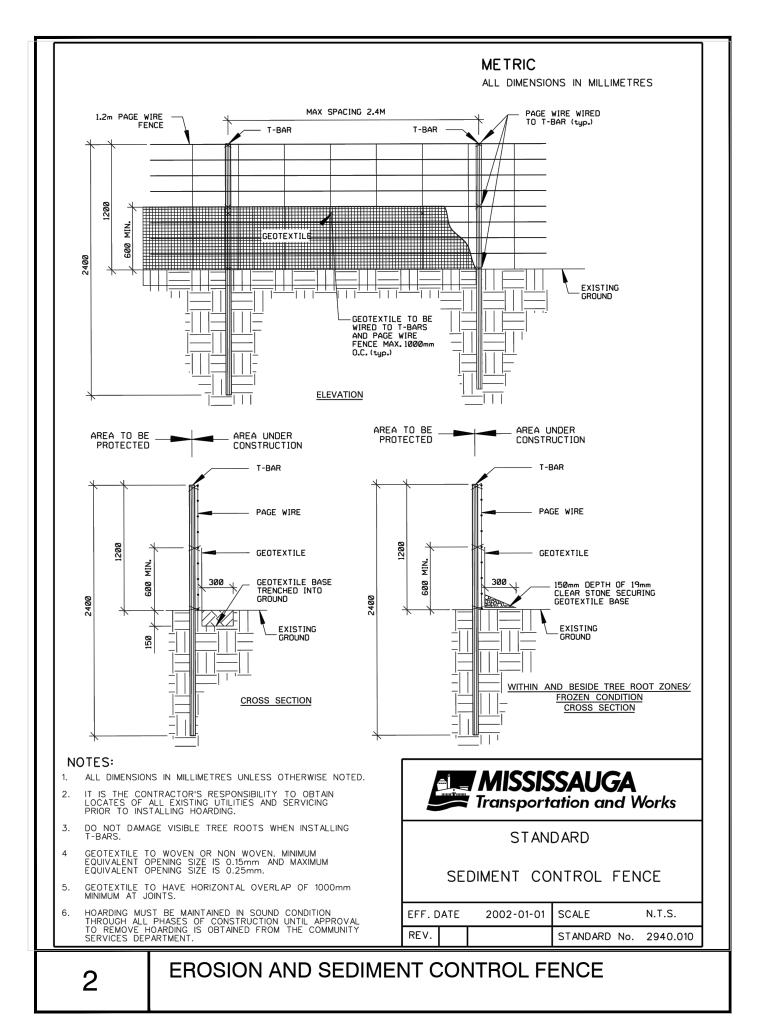
Although every effort has been made to ensure that this assessment is reasonably accurate, the trees should be re-assessed periodically. The assessment presented on these plans and in corresponding reports (if applicable) are valid at the time of inspection.



THE FOLLOWING IS A CHART SHOWING THE MINIMUM REQUIRED DISTANCES FOR DETERMINING A TREE PROTECTION ZONE

Tree Protection Zones						
Diameter of Trunk Centimetres at 1.4 m above grade (DBH)	Minimum Tree Protection Zone (TPZ) Distance from trunk, measured in metres.  1	Potential Rooting Area (PRA) for all trees and TPZ for trees in NHS, parks, open spaces and other significant natural heritage areas.				
<10	1.2	2.4				
10-29	1.8	3.6				
30-40	2.4	4.8				
41-50	3.0	6.0				
51-60	3.6	7.2				
61-70	4.2	8.4				
71-80	4.8	9.6				
81-90	5.4	10.8				
91-100	6.0	12.0				
>100	6 cm per 1 cm DBH	12 cm per 1 cm DBH				

- 1. THE TREE PROTECTION ZONE (TPZ) AND CRITICAL ROOT ZONE (CRZ) DISTANCES ARE TO BE MEASURED FROM THE OUTSIDE EDGE OF THE TREE BASE TO THE DRIP LINE.THE FOLLOWING IS A CHART SHOWING THE MINIMUM REQUIRED DISTANCES FOR DETERMINING A TREE PROTECTION ZONE.
- 2. WHERE WORK IS BEING PERFORMED BEYOND THE TREE PROTECTION ZONE (TPZ) BUT WITHIN THE CRITICAL ROOT ZONE (CRZ), THE WORKS ARE SUBJECT TO THE FOLLOWING SPECIFICATIONS:
  - ROOT PRUNING BY ROTARY SAW TO A DEPTH OF 300mm
  - ROOTS ARE TO BE CUT A MAXIMUM OF 300mm FROM THE EDGE OF EXCAVATION (GRADING OR REMOVALS).
  - THE LIMIT EXCAVATION, GRADING OR REMOVALS IS TO BE MINIMIZED TO THE GREATEST EXTENT POSSIBLE, AND IS TO INCLUDE THE USE OF EXCAVATION SHORING, SMALLER EXCAVATION EQUIPMENT, OR RUBBER TIRED MACHINES.



### Tree Protection Note:

The applicant is responsible for ensuring that tree protection hoarding is maintained throughout all phases of demolition and construction in the location and condition as approved by the Planning and Building Department. No materials (building materials, soil, etc.) may be stockpiled within the area of hoarding. Failure to maintain the hoarding as originally approved or the storage of materials within the hoarding will be cause for the Letter of Credit to be held for two years following completion of all site works. Hoarding must be inspected prior to the removal of any tree hoarding from the site.

Owner's Signature:	
Date:	

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Landscape Architect for direction. Do not proceed in uncertainty.

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**KEY PLAN** 



SOURCE OF BASE INFORMATION: SURVEY PLAN RECEIVED FROM MATAS HOMES ON JUNE 2013, PREPARED BY VLADIMIR DOSEN SURVEYING NOVEMBER, 2011. FILE NAME: 86DUNDASEASTOOMDI.dwg
EXISTING TREE INSPECTION UNDERTAKEN BY REDBUD FORESTRY CONSULTANTS AND SEFERIAN

DESIGN GROUP JULY 10, 2013, UPDATED MAY 2016.

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NO. 6	REISSUED FOR ZBA AND OPA	DATE: 19.09.24
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6 5	REISSUED FOR ZBA AND OPA REISSUED FOR ZBA AND OPA	19.09.24 18.04.12
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Emblem Developments Corp.

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PROJECT TITLE:

86-90 DUNDAS STREET EAST MISSISSAUGA, ONTARIO

CITY FILE: OZ/OPA 16 008

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TREE PRESERVATION NOTES & DETAILS

DWG No: SCALE: AS SHOWN TP-2 PROJECT NO: 16-044 DRAWN BY: SLS DESIGN BY: SLS CHECKED BY: HS SHEET No: 2 of 2