



Protection of Existing Trees During Demolition and Construction

No.: TREE-03
Date: 2006-06-29
Revised: 2023-02-07

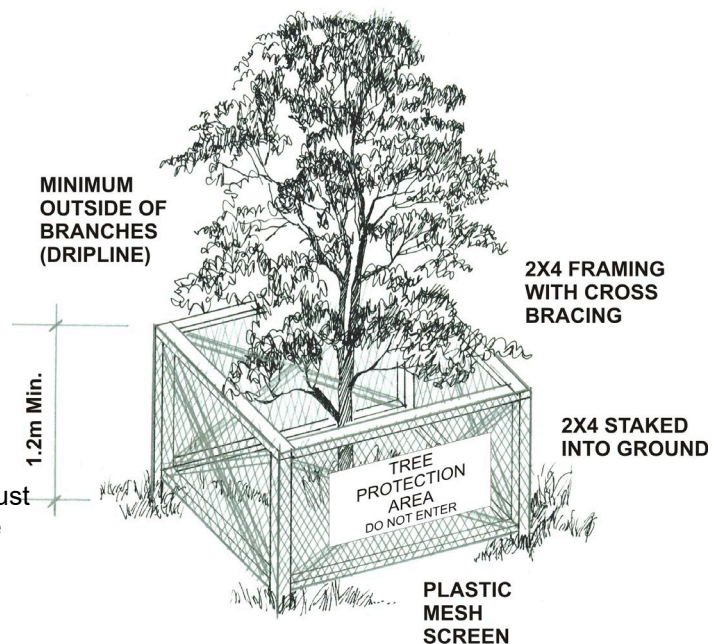
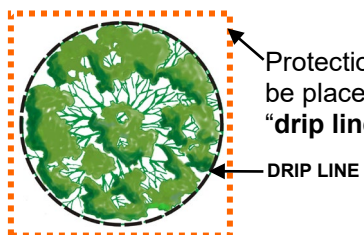
Purpose:

To ensure tree protection barrier(s) are placed around any tree(s) which are not to be cut or removed, in such a manner as to ensure that the trunk, branches and root structure are not damaged by **any** construction operations.

Background:

Applicants shall not remove or cut any trees with a dbh of 20 cm or 7 $\frac{7}{8}$ inches (see Bulletin [TREE-01](#)) on the site until a Tree Permit or Development Permit and/or Rezoning has been approved which addresses the removal of trees.

1. A fence must be placed at the drip line of all trees to be retained prior to issuance of any permits (demolition, rezoning, development, building). The fence(s) shall be 2x4 wood frame with cross brace construction with snow-fence and staked into the ground (see reverse). The tree protection fence shall be clearly signed "**Tree Protection Zone – Do Not Enter**" (see reverse) and remain intact for any construction or demolition site throughout the entire period of demolition and/or construction.
2. Appropriate information regarding existing tree preservation shall be provided to Tree Preservation and/or Planning staff. This is to include:
 - The location of all protective tree fencing;
 - Any excavation locations for foundations, utilities, driveways, perimeter drainage, etc.;
 - A grading plan or cross-section showing finished grade; and
 - A drainage plan for the site.
3. Any Arborist recommended pruning and root pruning shall be supervised by an ISA Certified Arborist.
4. No entry of any kind shall occur within the trees' drip line/tree protection zone. This includes people, equipment and/or materials.
5. Fill material, compacted soil and continuous concrete walls with footings cannot be located within the drip line of retained trees.



See over →

Tree Protection Zone

The Tree Protection Zone (TPZ) encompasses the drip line of the tree as illustrated in Fig. 1a and 1b.

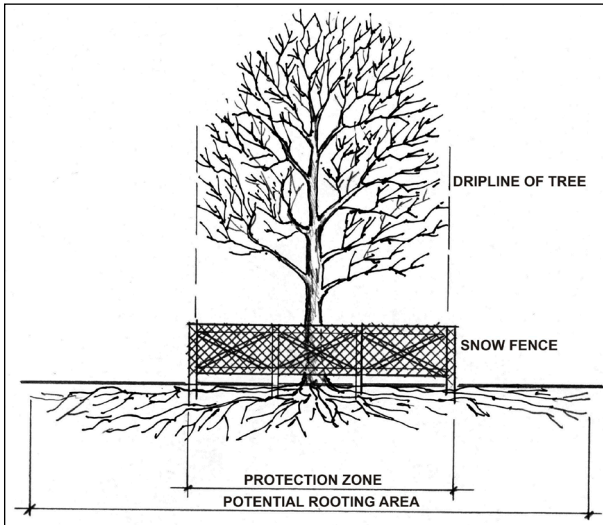


Fig. 1a - Example of a *drip line* on a tree

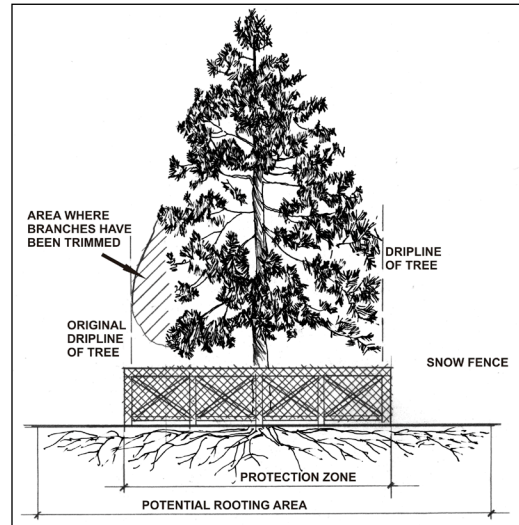


Fig. 1b - Example of a *drip line* on a tree with one side pruned

Note: If the tree is on an adjacent property, the drip line must still be protected on your side of the property line. If the branches have been cut or pruned, the TPZ must protect the original drip line of the tree (Fig. 1b).

Tree Protection Distance Table

*Minimum Protection Required Around Tree

Tree Trunk Diameter			Distance from Trunk		Total Diameter	
cm	inches	feet	m	feet	m	feet
20	8	0.6	1.2	3.9	2.60	8.5
25	10	0.8	1.5	4.9	3.25	10.7
30	12	1.0	1.8	5.9	3.90	12.8
35	14	1.2	2.1	6.9	4.55	14.9
40	16	1.3	2.4	7.9	5.20	17.1
45	18	1.5	2.7	8.9	5.85	19.2
50	20	1.7	3.0	9.8	6.50	21.3
55	22	1.8	3.3	10.8	7.15	23.5
60	24	2.0	3.6	11.8	7.80	29.6
75	30	2.5	4.5	14.8	9.75	32.0
90	36	3.0	5.0	16.4	10.90	35.8
100	40	3.3	6.0	19.7	13.00	42.7

Tree Protection Zone Signage

All TPZ are required to have signage as shown in Fig. 2. The signage must be a minimum of 11"x14" in size on *at least 2* sides. A sign is now available for download from the City of Richmond's Tree Bylaw webpage at www.richmond.ca/sustainability/environment/treeremoval.htm.

For Tree Protection Barrier inspection requests and enquiries call 604-247-4684.

NOTE: Failure to maintain tree protection barriers may result in fines of up to \$50,000.00 per offence.



Fig. 2 – Tree Protection Zone Sign