



A Tree Management Plan is required for a Permit in the following instances:

1. Tree Permit applications that propose more than 20 trees are being cut. For development and building applications, if less than 20 trees are being cut, see Bulletin 2016-004-ENV Arborist Report Requirements.
2. If clearing more than 500 square metres of land.

The Tree Management Plan must be prepared by a Certified Arborist or qualified professional forester and must include:

1. **Initial Tree Assessment** and initial sketch plan showing;
 - a. Location, species, size (dbh) and number of Permit Trees to be removed with the developable area of the parcel.
 - b. Location, species, size, age class, health condition and number of Significant trees and Significant Tree stands outside of Conservation Areas on the parcel; and whether they are proposed for retention or removal.
 - c. Location, species, age class and health condition of Permit Trees identified for retention; to include trees within 10m of property boundaries and conservation areas; trees within 10 m of Significant Trees; and trees within 10m of existing or proposed building envelopes.
 - d. Location of proposed development layout and/or building envelope layout including existing and proposed structures, services and other infrastructure.
2. **Tree Retention Plan** which identifies trees to be retained outside Conservation Areas with best level of effort to:
 - a. Retain trees along perimeters of parcels with regard to new forest edges, critical root zones and privacy;
 - b. Minimize impacts to adjacent properties;
 - c. Minimize impacts to groundwater and drainage;
 - d. Retain Significant Trees and Significant Tree StandsThe Tree Retention Plan shall include a complete description of trees proposed for retention including those on adjacent properties where Critical Root Zones cross property boundaries. Identify names (common and botanical), locations, quantities, health condition and size in cm (dbh); and the Critical Root Zone of each retained trees.
3. **Tree Protection Plan** which describes how trees will be protected and monitored during construction, including considerations for grading, drainage, irrigation, space and placement of Tree Protection Barriers around the Critical Root Zone of retained trees within 5 metres of construction/development activity. See Bulletin 2016-006-ENV for more details on Tree Protection Requirements.
4. **Tree Risk Assessment** completed by a Qualified Tree Risk Assessor to identify all trees that are a potential hazard to proposed development during and after construction. Tree Risk Assessments shall be submitted to the City before construction begins and after construction is complete. All mitigation for risk of Hazard Trees identified in the report shall be addressed and confirmed prior to final approval of the works under the Permit.

"This information is provided for convenience only and is not a substitution of applicable City Bylaws, Provincial or Federal Codes or Laws. You must satisfy yourself that any existing or proposed construction or other works complies with such Bylaws, Codes or other laws."



5. **Replacement Planting Plan** in accordance with Schedule “E” of the Bylaw. See Bulletin 2016-007-ENV for more details on Replacement Tree Requirements.
6. **Monitoring Schedule** for tree retention and planting on the site during and after construction. A Certified Arborist must be retained as a monitor to ensure proper protection measures and planting quality. Monitors may be requested by the City to report on issues that arise on site throughout the construction phases.
7. **Calculation of security** amount on planted and retained trees, to be paid by the Applicant in accordance with Schedule “E” of the Bylaw. Each tree to be planted or retained requires \$600 security; not to exceed a total of \$24,000 per hectare or \$100,000 for the entire application. This security shall be returned one year after the trees have been planted by the Applicant with the submission of a Certified Arborist report assuring the healthy condition of the trees. This report shall be approved by the City Manager of Development and Environmental Services before release of security.

Other plans that are required as per specific site conditions may include:

8. **Groundwater Impact Assessment** as related to tree removals when removing more than 20 trees or clearing more than 500 square metre area over a Vulnerable Aquifer. The Assessment shall be prepared by a qualified hydrological professional.
9. **Phased Clearing Plan**, (except for farm use), if the area to be cleared has slopes over 15%, or is on a Floodplain. The Plan will indicate how cutting will be phased to minimize the immediate impacts of clearing.
10. **Windfirm Assessment** for clearing activity that will create a new forest edge on or off the parcel; to address blowdown risk and mitigation including tree removal, pruning and replacement recommendations, and retention of Large Woody Debris within Conservation Areas. This Assessment shall be prepared by a Registered Forester or a Certified Arborist with experience in blowdown risk mitigation.

Once the above information has been approved by the City Arborist, a **detailed Tree Survey** to be prepared by a registered BC Land Surveyor is required to indicate proposed tree retention and replacement areas that require restrictive covenants; and for location of trees to be cut within five metres of property boundaries, Conservation Area boundaries and areas with steep slopes over 25%.

All protection and mitigation measures shall be inspected and reported by the Certified Arborist, and approved by the City, before any development work can begin on site.

A full version of the City of Maple Ridge Tree Protection and Management Bylaw is available at <https://www.mapleridge.ca/media/file/tree-protection-management-consolidated-bylaw-no-7133-2015>

For specific information regarding permit requirements, contact trees@mapleridge.ca

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