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Arborist Report

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ISA Certification #: PN2013A

Date:	26 July 17
File #:	17-123
Client:	Donna Begg
Telephone:	604-202-9201
Email:	perennialdesigns@shaw.ca
Site Address:	4730 the Hwy West Vancouver, BC

Purpose:

Burley Boys Tree Service Ltd. has been contracted to provide tree inventory and tree removal/tree retention outline for the property at 4730 the Highway, West Vancouver, BC. Plans include the development of the property, including the construction of a new laneway home on the property.

This report is intended to accompany a development permit for the property which includes the removal of 2 oversized trees on private property which are noted as being in poor condition and inside/too close to required excavations; not suitable for retention.

All recommended tree removal should be considered in conjunction with an approved replanting/landscape plan.

Method:

The site was visited with all trees being assessed from the ground only, using the Visual Tree Assessment (VTA) technique. No trees were climbed or cored during the site visit.

Observations:

The trees are not individually tagged, but they are referred to in the Appendix below. 2 trees within or near the property were assessed. The proposed development includes the construction of a new laneway home at the location of an existing garage on the property.

Tree # 1 is a Western red cedar (*Thuja plicata*). This tree measures 92 cms DBH. It has been previously topped and is in poor condition. This tree is inside the excavation area for the new laneway house and driveway and is required to be removed.

Tree # 2 is a Western red cedar (*Thuja plicata*) measuring 98 cms DBH. This tree is in poor condition; it has been previously topped and has visible decay at the base of its main stem from a previously removed codominant stem. This tree is inside / too close to excavations required for the laneway house and is required to be removed.

All other trees on site are being retained. These include several mature cedars at front of property. The existing driveway is protecting any roots of trees being retained, therefore, tree protection barrier placed along edge of driveway will be sufficient. Arborist supervision is required for any regrading of the driveway if being replaced, and a new driveway should be at the same grade as the existing.

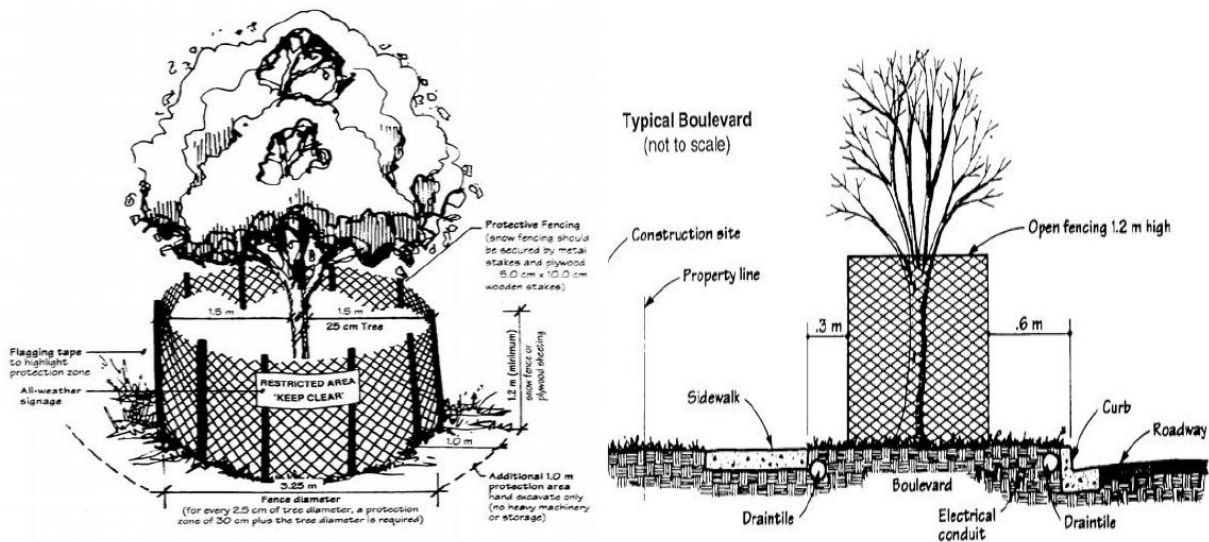
Tree Retention Outline:

A tree preservation fence must be constructed around the root areas of all trees that are to be retained. Wherever possible, the radius of the tree preservation fence should extend as far as the drip line of the tree's canopy. If this is not possible, the fence should be located no closer than the determined CRZ for each individual tree. This will ensure that critical root zone for each tree is protected. Protecting the tree's critical root zones will help reduce the amount of soil compaction to the root areas, and will also aid in retaining the moisture in the soils during the construction period.

Should any excavations be required inside the determined critical root zone of any trees to be retained, a certified arborist must be on site to assess and document the roots being affected and mitigate appropriately. If any roots are expected to be uncovered, damaged or cut, it is recommended that a certified arborist be retained to supervise the excavations and mitigate any damaged roots accordingly.

Heavy machines should be kept out of the drip line of all trees on the property. Designated roadways for machines to move through the property may prove beneficial. Construction materials, particularly concrete should not be stored inside the root zones. Waste concrete should not, under any circumstances, be disposed of inside root zones. This includes hosing down of tools used to mix or spread concrete. Any large roots (over 15cm) exposed by excavation should have broken ends sawn off cleanly.

Standard and Boulevard Tree Protection Barrier (TPB) guide/outline (Fig 3)
 TPB is to be erected in accordance with municipal bylaw. Traditionally it is composed of wooden 2x4 construction and orange snow fencing material. It is to be erected in a suitable geometrical form or shape to encompass the outlined areas in the above mentioned report, or as described by development services. It is to be a permanent structure that can be maintained for the entire development process. It is to be adhered to and the inside area is not to be used for storage of supplies or rubbish. Any reduction in TPB should be supervised and Arborist consultation is mandatory.



Conclusions:

All removal / retention recommendations are based on both the trees' current health, condition and long-term viability as a retained tree and their relative proximities to required excavations. The recommended removals should be considered in conjunction with a City approved re-planting / landscape plan.

Limitations:

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The inherent characteristics of trees or parts of trees to fall due to environment conditions and internal problems are unpredictable. Defects are often hidden within the tree or underground. The project arborist has endeavored to use his skill, education and judgment to assess the potential for failure, with reasonable methods and detail. It is the owner's responsibility to maintain the trees to reasonable standards and to carry our recommendations for mitigation suggested in this report.

It is the sole responsibility of the client or their representatives to follow through with all recommendations for future consultations or site inspections.

Appendix:

Below details the tree assessed. "DBH" is the main trunk diameter of the tree measured approximately 1.2m from grade. The determined health and condition of each tree is relative to its canopy structure, colour and vigor and any defects noted in the stem, canopy or root plate. "CRZ" is the determined Critical Root Zone of each tree. Tree protection barriers should be located no closer to the trunk than this distance.

Tree #	Species	DBH (cm)	Health & Condition	CRZ (m)	Remove or Retain	Comments
1	Cedar	92	Poor	5.52	Remove	Previously topped. Inside excavation area for laneway house and driveway
2	Cedar	98	Poor	5.88	remove	Previously topped. Decay at base of main stem from removal of codominant stem years ago. Inside / too close to excavations.

Images and Site Plans:







