



Talbot Mackenzie & Associates

Consulting Arborists

TREE PRESERVATION PLAN

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August 09, 2017

Jobsite Property: 1245 Vista Heights

Date of Site Visit: August 02, 2017 Time: 7:30 AM

Weather Conditions: Hazy, 19° Celsius, wind 11 km/hour

Site Conditions: Gently sloping residential lawn area surrounds the tree.

Summary: From the information compiled during our site visits, and based on our discussions and review of the plans that were supplied, in our opinion, the impacts on the root structures of the 28 cm Garry oak tree will be difficult, if not impossible to mitigate. It will not be possible to retain and protect a sufficient portion of the critical root structures to have a reasonable expectation that it can be retained and will remain stable or survive in future years.

Assignment: Review the plans for the installation of the underground services, pool and hot tub area, underground storage cisterns, and retaining walls as they relate to a single 28 cm Garry oak tree located in the rear garden. Conduct an exploratory excavation within the root zone of the oak tree to expose and document the major root structures.

Method: During our August 02, 2017 site visit, we conducted an exploratory excavation within the root zone of the 28 cm d.b.h. Garry oak tree located in the rear garden and 3.8 metres from the east property boundary. The excavation was by hand, shovelling to expose the lower trunk, root collar and major structural roots extending out on each side of the trunk base. The number and size of roots were measured and documented.

Field work findings: On the date of our exploratory excavation, we met onsite with the building contractor, property owner and house designer. The contractor marked out, onsite, the locations of and working room required to facilitate the installation of the retaining wall, cisterns and pool area:

- The retaining wall will be constructed along the eastern property boundary and inside the existing cement wall. The minimum distance required for excavation of the wall footprint was marked at 2.5 metres west of the existing concrete wall and 1.3 metres east of the oak tree.

- The pool area and underground cisterns are to be installed on the west side of the tree location. The minimum distance required for excavation for these features was marked at 5.0 metres west of the existing concrete wall and 1.2 metres west of the oak tree.

As a result, this will leave a maximum distance of 2.5 metres between these areas of excavation to install the underground sanitary and storm service lines. The Garry oak tree grows within this 2.5 metre service corridor.

Our excavation found that the oak tree is growing in an area of fill soil. A depth of more than 60 cm of fill material was excavated around the root collar before the root flair at the base of the trunk was exposed. Adventitious roots were found growing directly from the trunk and growing upward into the fill soil surrounding the tree. Our excavation to the depth of the root flair exposed the following root structures that are extending into the service corridor:

- One 10 cm diameter root and two 2 cm diameter roots on the east side of the root collar.
- One 5 cm diameter root on the south side of the root collar.
- One 8 cm diameter root on the west side of the root collar.

As indicated in our previous May 31, 2017 report addendum, the narrow width of the corridor available for installing the underground services, the depth and width of the excavation required for these services, and the tree location within the corridor will make it difficult, if not impossible, to successfully employ alternative excavation techniques such as hand digging or the use of an Airspade or hydro excavation equipment to expose and retain the root structures. Based on our discussions and the plans that were supplied, mitigation of these impacts is unlikely to be successful or permit the retention of this tree.

Please do not hesitate to call us at (250) 479-8733 should you have any further questions. Thank You.

Yours truly,
Talbot Mackenzie & Associates



Tom Talbot & Graham Mackenzie
ISA Certified, & Consulting Arborists

Enclosure: Picture page

Disclosure Statement

Arborists are professionals who examine trees and use their training, knowledge and experience to recommend techniques and procedures that will improve their health and structure or to mitigate associated risks.

Trees are living organisms, whose health and structure change, and are influenced by age, continued growth, climate, weather conditions, and insect and disease pathogens. Indicators of structural weakness and disease are often hidden within the tree structure or beneath the ground. It is not possible for an Arborist to identify every flaw or condition that could result in failure nor can he/she guarantee that the tree will remain healthy and free of risk.

Remedial care and mitigation measures recommended are based on the visible and detectable indicators present at the time of the examination and cannot be guaranteed to alleviate all symptoms or to mitigate all risk posed.



Cistern location - west side



Wall footprint location - east side



Exposed root - west side



Exposed roots - south and east side