

To: Peter Penner CJDL

From: Mike Leonard

Date: 2020 08 13

SUBJECT: Tree Root Management at Office Expansion Foundation Interface

We appreciate the opportunity to assist you in the preservation of this outstanding Tulip Tree.

I observed the specimen on-site with you. As I understand the existing structure will be extended in a northerly direction, requiring excavation to accommodate a conventional foundation wall with a spread footing that will terminate within +/- 15 feet of the tree trunk.

In general my opinion is that this will not affect the longevity of the tree, since the bulk of the root mass of most trees is located on the east and southeast side of the trunk. As part of your due diligence the following best practices are suggested:

_ Prior to construction expose the upper 18 inches of the root mass to a dimension 36 inches north of the centerline of the foundation. This can be accomplished by gently loosening the soil in 6 inch lifts with the teeth of a conventional excavator bucket.

_ It is likely that both fibrous and woody roots will be encountered. The fibrous roots need no treatment. Any woody roots larger than the diameter of a pencil should be cleanly pruned with hand shears, loppers or pruning saws; under no circumstances should chainsaws or other power equipment be used.

_ Prior to installing forming and related falsework install a flexible geotextile root barrier along the length of the root zone encountered. (We can provide you with a specification for this product.)

We are available to observe and advise on the work if this would assist you. Depending on the conditions encountered it may be advisable to do an injection fertilization within the residual rooting zone.

Please feel free to contact me at any time at 519 671 5267 or at mlla@isp.ca if clarification of this communication is required.

Regards,

Mike Leonard O.A.L.A . , C.S.L.A .