

Following a site visit on Thursday 25 July and several visits since, please find comments below.

Initial hand excavation was undertaken within structural root zones however the plan was later amended resulting in excavation being further away from trees No.1, 2 and 3 than first expected.

Root zone encroachments have been calculated using AutoCad software and on-site measurements.

See standard tree protection below.

Tree number one Turpentine excavation is 5.6 m from trunk Centre.

Tree protection zone is 5 m and structural root zone is 2.5 m.

0% encroachment into tree protection zone.

Works are outside tree protection zone and acceptable with low risk of adverse impacts upon tree one.

Tree number two Turpentine

Hand excavation as shown in images revealed within structural root zone, closest root to tree is 100 mm diameter 2 m from trunk Centre.

Structural root zone calculated at 2.9 m.

Does not require cutting as plan has changed to have excavation 3.5 m from trunk centre outside the structural root zone.

23% encroachment into tree protection zone, however based on hand excavation showing very minimal roots in that direction and age and vigour of tree, the incursion considered to have low risk of adverse impacts upon tree.

Not likely to adversely affect the health and vigour of the tree.

Works are acceptable with low risk of adverse impacts upon tree four.

Arrange in advance for Council's Tree Management Officer to be present when excavating near tree two.

Excavate carefully under supervision of Council's Tree Management Officer using small excavator.

Tree number three Turpentine.

Hand exaction revealed one tree root within structural root zone 100 mm diameter and another 50 millimetre diameter.

Minimal root growth in direction of works.

Tree protection zone is 6.5 m from the trunk centre.

Structural root zone is 2.6 m from trunk centre.

Based on latest calculations of encroachment in to tree protection zone using AutoCad, the encroachment is 1.5% encroachment into tree protection zone is acceptable.

Also noted very minimal root growth in that direction based on hand excavation.

Works are acceptable with low risk of adverse impacts upon tree four.

Tree number four Turpentine

Tree protection zone is 7.9 m from trunk centre.

Tree structural root zone is 2.9 m from the trunk centre.

Initial proposed works are 21% encroachment into calculated tree protection zone.

Later changes to plan reduced incursion to 11% based on AutoCad calculations.

Further information required in the form of tree sensitive excavation to determine the presence of roots.

Advised site supervisor can excavate using machinery if careful, using observer. If roots are encountered, do not damage and hand excavate to expose.

26 July 2024 excavator carefully exposed area under supervision of TMO and found no tree roots in the area.

Works are acceptable with low risk of adverse impacts upon tree four.

Tree number five Turpentine

Diameter at chest height is 41cm.

Tree protection zone is 4.9m from trunk centre.

Diameter at base is 48cm.

Structural root zone is 2.4m from trunk centre.

Amendments to design and calculations based on AutoCad calculated 20% incursion including structural root zone.

Hand excavation near tree number four found three small diameter tree roots within 500 mm of excavation depth.

Tree root diameters were less than 50 millimetres.

Based on the findings of tree sensitive excavation of only minor tree roots found, there is low risk of adverse impacts upon tree five.

Arrange in advance for Council's Tree Management Officer to be present when excavating near tree five.

Excavate carefully under supervision of Council's Tree Management Officer using small excavator.

Tree Protection Measures

1. The design/plan should avoid tree structural root zones (SRZ) unless demonstrated there are no major tree roots present and minimise incursion into tree protection zones (TPZ).
2. Move site fencing to allow for excavation and exclude plant and machinery from tree protection zones not affected by necessary excavation as directed by Council's Tree Management Officer.
3. Avoid over-excavation.
4. No major tree roots are to be cut or damaged within structural root zones.
5. Outside structural root zones, tree roots less than 50mm diameter may be pruned as required using clean, sharp pruning saw or secateurs.
If roots larger than 50mm diameter are encountered, you may have to amend your plans or contact Council's Tree Management Section for further advice.
Allow a reasonable time for Council Officer to attend.
6. No materials, plant or equipment is to be stored or positioned within tree drip lines.
7. No materials are to contaminate soil such as wash from concreting equipment, fuel etc.
8. You must exercise care to avoid damage to tree trunk and branches.
9. No tracking of machinery within tree protection zones.
10. Arrange in advance for Council's Tree Management Officer to be present when excavating near trees No.2 and No.5.
Excavate carefully under supervision of Council's Tree Management Officer using small excavator.





















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