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# **rain Tree consulting**

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10 September 2020

## **TALLAWONG STATION PRECINCT SOUTH**

**1-15 & 2-12 CONFERTA AVENUE – ROUSE HILL, NSW**

## **ARBORICULTURAL TREE PROTECTION PLAN**

*Report Ref No- RTC-14820*

Prepared for  
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## **INTRODUCTION**

This report has been commissioned by DEICORP Projects (Tallawong Station) Pty Limited to provide a Tree Protection Plan (TPP) for the purpose of retaining trees No. T31 & 32 pre, during & post construction activities.

## **METHODOLOGY**

This Tree Protection Plan (TPP) has been prepared based on the following documentation:

Daw & Walton Consulting Surveyors job No. 4900-20

- Survey Plan Sheet 7 of 7, rev 1 dated 10.3.2020

Bennet & Trimble

- Tallawong Station Precinct South, GD Plans Overall, rev V, Dwg No. DA-110-020 dated 8.4.20

Raintree Consulting

- Tree Audit & Impact Assessment Report ref No. RTC-5120 dated 16 April 2020

Australian Standards

- AS4970 Protection of Trees on Development Sites 2009

Note: all measurements and development offsets within this report are taken from the centre of the tree.

## **SUMMARY OF ASSESSMENT**

### ***Prior to site grading & construction activities***

1. Prior to any site activity commencing the subject trees are to be protected with 1.8m high tree protection fencing as indicated within Appendix- A p6. The location of tree protection fencing is to be situated at the extremity of tree protection zone radiuses within the site, and under the guidance and certification of an appointed project arborist. The inner tree protection area (TPA) shall be mulched to a depth not exceeding 100mm with tree protection fencing installed in accordance with the following recommendations:
  - Tree 31: Constructed at a 7.2m setback encaging the tree to the existing or any additional boundary fencing forming a tree protection area (TPA).
  - Tree 32: Constructed in conjunction with tree protection fencing for T31, being situated at a 4.2m setback encaging the tree to the existing or any additional boundary fencing forming an inner tree protection area (TPA).
2. The above shall be certified by an appointed project arborist prior to works commencing, see general tree protection requirements p3 for further detail.

### **Tree protection measures – construction stage**

3. There shall be no access, site changes or excavation within the Tree Protection Zone (TPZ) or designated Tree Protection Area (TPA) without prior arborist advice. All tree protection fencing shall remain in place and only be altered, moved or dismantled under the approval and certification of the site arborist.
4. *Specific development & access exclusion zones*: there shall be no excavation or level change within the following Structural Root Zone (SRZ) setbacks, being the area required for tree stability.
  - Tree 31: No works, access or excavation within 2.7m of the tree.
  - Tree 32: No works, access or excavation within 2.3m of the tree.
5. *Minor infrastructure / proposed pathways*: The proposed access pathway shall be suspended above ground level over the tree protection area (TPA) & Structural Root Zone (SRZ) to minimise conflicts to underlying tree roots. Where construction for the public verge pathway is required along Schofields Road there shall be no excavation within the SRZ without prior arborist advice.
6. *Hold points specific and routine inspections*: The following hold points being no works shall occur without arborist advice and certification apply during construction:
  - *Hold points*: Within tree protection zones construction of public access pathways shall not commence without prior arborist consultation, with pathway footprints clearly mark on site for arborist review & certification.
  - All excavations within the TPZ are to be supervised by appointed project arborist appropriately treating all encountered tree roots.
  - *Routine inspections*: The appointed project arborist shall inspect the tree protection area & fencing at monthly intervals providing any additional recommendations for the management of the trees based on site conditions.

### **General tree management & protection principles**

7. In addition to specific protection methodology outlined within this report the following additional recommendations based on Australian Standard AS4970 Protection of Trees on Development Sites 2009 apply:
  - a) Tree protection fencing and/or zones are to be installed prior to development works occurring. The extent of tree protection fencing is to be located at the extremity of Tree Protection Zone (TPZ) radiuses, or constructed under the guidance and certification of an appointed project arborist in accordance with this report.

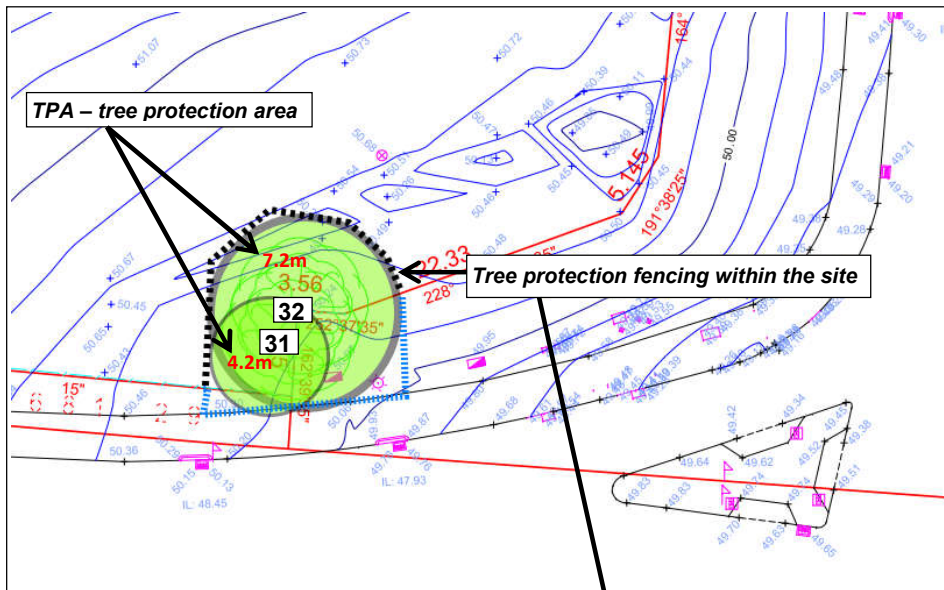
All tree protection fencing requires appropriate signage clearly stating a restriction area being a designated Tree Protection Zone (TPZ).

All contact information including appointed project arborist contact number(s) are to be detailed on tree protection zone signage.

- b) In accordance with AS4970 - 2009 (1.4.4) a project or site arborist is to be engaged to monitor, supervise excavation within TPZ setbacks, advise and provide certification of protection works conducted.  
The project arborist is recommended to be suitably qualified having a minimum Australian Qualification Framework (AQF) Level 5 certification and be competent in methodology of protecting trees on development sites.  
The project arborist is to provide final certification outlining tree protection measures with photographic evidence of ongoing works retained for certification purposes (AS4970 S/5.5.2 *Final certification*).
- c) The site arborist is to be familiar with protection measures specific to Australian Standard AS4970 'Protection of Trees on Development Sites' – 2009 requirements with any modification in Tree Protection Fencing (TPF) or Zones (Z) to be compliant with AS4970 Section 4.5 *Other Tree Protection Measures*.
- d) *Hold points general: Hold points specific to no works are to commence without arborist advice, inspections & certifications:*
- 1) No works shall occur within the SRZ without prior arborist advice and certification.
  - 2) No excavation shall occur within the TPZ of any tree without prior project arborist notification and/or site supervision.
  - 3) It is the responsibility of the principle contractor to manage tree protection zones and complete certification task for Principal Certifying Authority (PCA) compliance.
- e) Approved excavation within TPZ setbacks are to be conducted manually by hand under the supervision of an appointed project arborist such that trees roots can be management and protected in accordance with AS4970 – 2009 Section 4.5.4 *Root protection during works within the TPZ*. At no stage are tree roots permitted to be ripped or damaged beyond the point of excavation by site machinery. Where large significant roots have been encountered they are to be referred to the arborist for further advice. Exposed roots at the excavated cut face are to be protected with jute mesh, geotextile fabric or similar being secured in place to avoid drying of the root system and soil profile.
- f) *Canopy pruning / tree removal: tree removal and canopy reductions are to be approved by the Local Government Authority. Works are to be conducted by a suitably qualified and insured AQF Level 3 arborist in accordance with AS4373 Pruning Standards, and specifically be conducted in accordance with Safe Work Australia – Guide to managing risks of tree trimming and removal works 2016 ([www.swa.gov.au](http://www.swa.gov.au)).*
- g) *Additional inground services within TPZ's which may include sewer, stormwater, water, electrical services and landscape construction, final design and impact to trees shall be reviewed and endorsed by the project arborist prior to their installment.*



**APPENDIX- A:** Tree Protection Plan, *not to scale*



**Tree protection zones**  
**Radial setbacks**

T31	SRZ: 2.7m – TPZ: 7.2m
T32	SRZ: 2.3m – TPZ: 4.2m

