Glen Iris Estate City of Cockburn Community Update







Acknowledgement of Country

The Mayor, Councillors and staff of the City of Cockburn acknowledge the Whadjuk Nyungar people of Beeliar boodja as the traditional custodians of this land. We pay our respect to the Elders, past and present.



Purpose of this Presentation

Response to Community Feedback

• Introductions.

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- There have been a number of community concerns around tree retention and traffic in Glen Iris Estate.
- This presentation will answer these questions in the hope of informing our community on the City's roles and responsibilities.

Presentation Structure:

The City's Role Trees & Design Considerations Traffic Dilapidation Reports Question Time

The City's role 'The Gatekeepers'

- What is a subdivision approval?
- How does the City assess tree retention and managing traffic considerations following subdivision approval?



WAPC Approved Subdivision Plan





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Balancing Design Requirements





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What the Developer's project team is doing to protect trees in the development





Tree Biology



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Tree Roots

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FIGURE B1 STRUCTURE OF A TREE IN A NORMAL GROWING ENVIRONMENT Document Set ID: 12005249 Version: 1, Version Date: 07/08/2024



Tree Retention and Protection



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Protection of Trees on Development Sites

Australian Standard 4970

Landscape design is an important component of most development. Established trees of appropriate species and sound structure are beneficial components of the built environment and a potential asset to any development site. Trees may be retained because of their—

- (a) aesthetic qualities;
- (b) heritage values;
- (c) ecosystem benefits, including-
 - (i) stormwater management;
 - (ii) shade and heat reduction qualities;
 - (iii) wildlife habitat and biodiversity;
 - (iv) carbon dioxide absorption;
 - (v) particulate pollution capture;
 - (vi) salt wind protection; and
- (d) social and psychological values.

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Tree Protection Zone

Australian Standard 4970





Example 1: TPZ of a tree with symmetrical crown

Example 2: TPZ of a tree with non-symmetrical crown and how the TPZ should be adjusted to protect the crown

Tree Protection Zone Australian Standard 4970 Tree Protection Zone J. Color **NO ACCESS** Contact: 1.8 m TPZ



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Encroaching into the TPZ

Australian Standard 4970



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Tree Protection Measures

Through the Different Construction Stages



Tree Protection Measures







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Tree Protection Measures



Organic fertilisers used pre and post construction to encourage tree growth and mitigate induced stresses.



Supplementary irrigation to the trees via. the turret on the water cart to maintain soil moisture (example photo)



Canopy reduction to reduce the weight of the canopy, balance the tree and reduce transpiration requirements

Root mapping and vacuum excavation



An example of root mapping within the TPZ of a large Tuart, uncovering only 1 root @40mm diameter, allowing construction to proceed without detriment to the tree.



root mapping to determine the level of root removal required and to assist with the viability assessment of the tree.

Root mapping and vacuum excavation



Root mapping to chase and expose roots and clean cutting roots at the desired location to facilitate construction.

With this method, roots can be fully chased and exposed, providing an opportunity to 'clean cut' roots at the precise location and reducing the root damage to the absolute minimum.

Root mapping

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Both images are taken about 2-3 m from the base of trees. The tree on the left shows large roots heading towards the former fairway. The right image shows a trench on the former "rough" side of the tree – with almost no roots present (although plenty of lost Titleist and Callaway balls were found).



Bulk Earthworks

Tree Protection Measures



MATCHLINE A REFER DRG C070



NOTES 1 THE DRIVING SHALL BE READ IN CONSINCTION WITH THE CONTRACT GRAVINGS AND SPECIFICATIONS. 2 FOR STANDARD NOTES AND LEEDED REFER TO COND OF THE SET

DEAN

MATCHLINE B

PLAN SCALE 1:1000



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Bulk Earthworks

Fencing



DENSFORDCIVIL

Civil Design Tree Protection Measures

Arborist Bulk Civil Design Earthworks Review Investigations Landscaping

New



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Civil Design

Other examples

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Civil Design

Road 51 example

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Initial design (left) vs alternative design (right) showing trees that can be retained (green)



Site Investigations





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Civil Design

Road 51 and Tree 270 example





Tree 270 with the original road layout staked in blue and a picture of its root mapping

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Civil Design

Road 51 and Tree 270 example



New cul-de-sac alignment in black dotted line



Alternative Hammerhead Proposal

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New Landscaping

Preserving and improving TPZ





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Tree Retention

Progress to date

Original Assessment	Grand Total	Onsite Status (April 2024)		
		Removed	Retained	Grand Total
High Value	71	14	57	71
Retain	48	1	47	48
Remove	23	13	10	23
Medium Value	175	69	106	175
Retain	92	7	85	92
Remove	83	62	21	83
Low Value	281	136	145	281
Retain	108	10	98	108
Remove	173	126	47	173
Grand Total	527	219	308	527

Summary

Progress to date









The works on site are supervised by a qualified arborist and being undertaken in close consultation with the City. Tree retention works are industry best practice and in accordance with AS 4970. Due to challenging site conditions, not all trees are capable of retention, but all efforts are being made to retain as many as possible. New landscaping will greatly enhance the amount of trees in the public sphere, as well as to improve the biodiversity and aesthetics of the area.

Transport Upgrades

Key Upgrade: New Signalised Intersection with closure of Turnbury Park Drive

Figure 4.8: Berrigan Drive Intersection - Concept Design only



(map source: Reproduced with permission from Nearmap)

Objectives:

- ✓ Safer Access
- ✓ Replaces uncontrolled intersection
- ✓ Protected pedestrian crossing ability
- Protected right turn movements

Traffic Management & Operations



Source: MRWA fact sheet- traffic control

 Traffic management & operation of construction vehicles to be in accoradnce with the approved Traffic Management Plan (TPM), forming part of the Construction Management Plan (CMP)

 Any inconsistency or non-compliance is promptly raised to the developer for rectification.

✓ Contact representatives of the project

Community Liaison Officer Maria Mendoza Mobile 0408 695131 Email mmendoza@densfordcivil.com.au

Dilapidation Reports

Progress to date

Questions?



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