

# **Oakdale South - MOD 4** Landscape September 2017



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### INTRODUCTION

This report has been prepared to support the proposed Section 96 revisions to the approved State Significant Development (SSD 6917) for the staged development of the Oakdale South Estate (OSE).

The aim of this report is to provide the revised concept landscape design response for the revised masterplan and Stage 1 DA. The report responds to the Secretary's Environmental Assessment Requirements (SEARs) as they relate to landscape architecture/ design specifically:

**Urban Design and Visual:** Suitable landscaping incorporating endemic species; This report supports an Environmental Impact Statement (EIS) prepared in respect of the proposal and should be read in conjunction with the EIS and development

plans submitted with the SSDA.

The SEARS relevant to this SSD have been considered and are addressed in this report as follows:

The SSD approval sets out:

An overarching planning framework to guide the staged development of the OSE including:

- An Indicative Master Plan and Structure Plan:

- Development Controls for the OSE;
- A Biodiversity Offset Strategy.

Stage 1 Development of the Estate including:

1. A package of estate-wide site preparation works to be implemented in stages including:

- Subdivision;
- Bulk earthworks (including construction of detention basins); and

- Construction of retaining walls, road and utility infrastructure/services.

- Environmental management measures and protocols for the site.

2. Development for the purposes of warehousing and distribution including:

- The construction of warehouse buildings in Precincts 1;

- The construction of hardstand, loading, car parking and landscaping in Precincts 1;

- The fit out and use of buildings in Precincts 1 for generic warehousing and distribution uses.

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LR-002 27.09.2017

### Landscape Concept Master Plan

The landscape concept masterplan demonstrates the vision for the Oakdale South Estate (OSE). Various proposed landscape upgrades, rehabilitation and enhancements are proposed.





**Bioretention basin** 



**Estate Streetscape** 



Creek & Riparian Zone



On site presentational landscaping



**Biodiveristy Zone** 

On site buffer planting





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### Typical Landscape Site Section

This section has been produced to graphically demonstrate the interfaces and relationship of intended landscape treatments across the subject site.



SCALE 1:150

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### Southern Boundary Landscape Section



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### Eastern Boundary Landscape Section







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### **Vegetation Typologies**



Typology 1 Streetscape

Refer to Street Tree

ballast stone base.

Masterplan. Copse detail,

Typology 2 Landscape Nodes

Prepared by:







Formalised planting to create Bioretention species in legibility and amenity. accordance with Penrith City





Typology 4 Biodiversity Zone

Various rehabilitated plant communities, refer to Biodiversity Offset Strategy



Riparian Zone

Rehabilitation of creekline included in biodiversity offsets.

Typology 5





Managed clear turf zone as stipulated by fire consultant





Presentational landscaping, softening of built form and amenity creation





📕 Grasses





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Typology 3

Basins

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Typology 8 Existing Managed Typology 9 Embankment Turf

Typology 10 Boundary Planting

Powerline easement, retain existing pastural grassses and reinstate as required by Turf to civil embankment



Screen planting to boundary







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LR-007 N 27.09.2017

				.//////			or ansmi
Typology 1	Typology 2	Typology 3	Typology 4	Typology 5	Typology 6	Typology 7	Typology 8
Streetscape	Landscape Node	Basins	Biodiversity Zone	Riparian Zone	Defendable Zone	On Lot Landscaping	Existing Managed Grasses
Refer to Street Tree Masterplan. LR-007	Indicative Plant List Trees:	Indicative Plant List Basin Planting:	Refer Biodiversity Offset Strategy by Cumberland Ecology	Refer Biodiversity Offset Strategy by Cumberland Ecology	Managed clear turf zone as stipulated by fire consultant	Indicative Plant List Trees:	
Road 1 / Estate Road: - <i>Corymbia maculata</i>	- Brachychiton acerifolius	-Carex appressa	Leology	Leology		- Cupaniopsis anacardioides	
Road 2: <i>- Eucalyptus crebra</i> Road 3:	Shrubs & Accents: -Doryanthes excelsa - Westringia fruticosa					Shrubs & Accents: -Doryanthes excelsa - Westringia fruticosa	
- Angophora subvelutina Road 4:	- Juncea sp/					Grasses:	
- Eucalyptus molucanna Road 5: <u>- Eucalyptus crebra</u>	Grasses: - Poa 'Eskdale'					- Dianella 'Breeze' - Lomandra longifolia	
Refer to Street Tree Masterplan. Copse detail, ballast stone base.	Formalised planting to create legibility and amenity.	Native grass planting in basin, potential expansion of biodiversity zone on batter.	Various rehabilitated plant communities, refer to Biodiversity Offset Strategy	Rehabilitation of creekline included in biodiversity offsets.	Managed clear turf zone as stipulated by fire consultant	Presentational landscaping, softening of built form and amenity creation	Existing pastural grass maintained under powe easement.



by Cumberland Ecology



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Embankment Turf



Typology 10

#### Boundary Planting

Indicative Plant List

Trees:

- Eucalyptus Crebra
- -Eucalyptus moluccana
- -Eucalyptus tereticornis

Shrubs & Accents: -Acmena smithii var. minor

Grasses: -Pennisetum 'Nafray'

jrasses, <sup>·</sup> powerline

Turf planting to embankment Native screening to boundary







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LR-008 N 27.09.2017

### Street Tree Master Plan

This section has been produced to graphically demonstrate the interfaces and relationship of intended landscape treatments across the subject site.



Estate Road (Road 1)

Corymbia maculata Spotted Gum 30m (h) x 8m (w)

Road 2





Angophora subvelutina Broad-leafed Apple 18m (h) x 8m (w)



Eucalyptus moluccana Grey Box



Narrow-leafed Ironbark



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### Road 7

Eucalyptus crebra Narrow-leafed Ironbark 15m (h) x 6m (w)



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### Streetscape Typical Detail



Proposed trees fl anking both side of all proposed streets. The main estate road shall consist of a 2.5m shareway for pedestrians and cyclists. Grass verge shall separate 'copse' street tree planting, based in ballast, with organic mulch underlay.



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### SCALE 1:100

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### Landscape Node 1 - Plan & Section



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### SCALE 1:75

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### Landscape Node 2 - Plan / Section



Nodes shall be strategically placed close to office administration areas, entries etc to 'cluster' activity, and provide convenience and accessibly for workers of nearby facilities. Landscapes nodes shall also be used by pedestrians and cyclists, create a sense of place and legibility across the site. The use of feature planting and pergola structures will further enhance these areas, and create a focal points for the greater estate











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SCALE 1:250

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LR-0012 27.09.2017

## Stage 1 Development

Landscape Scope of Works

The landscape works described specifi cally in this report, and subsequent design development, shall consist of Tranmission Easement -Estate Works: Streetscape works: street trees, verges, Landscape nodes, detention basins (and other civil related landscape requirements - i.e batters). These works shall be staged as per civil works. - Precinct Works (on lot works): Each lot and precinct (combining of serval lots) shall be landscaped as building forms are developed. 3D 6A **6B** ESTATE 3A 3**B** 3C ESTATE WORKS 1C 2A PRECINCT 4 PRECINCT 5 5A **PRECINCT 1** 4A 1D 2B Estate Works

- - Precinct Works

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# Stage 1 Development Works



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Landscape Plan







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Landscape Plan





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Landscape Plan



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. Landscape Plan Bioretention Refer detail 08/ELV Key Plan Basin Floor Temporary treatment: Couch spray seeding Permanent treatment: 9406 Ca 33 L L L D L PRECINCT 4 RECINC 111 11 1 1 1 5A 44 L. \_ \_ \_ For street tree planting, Refer Detail 01/ELW-501 ..... Plan B Plan A LEGEND 6 Turf Type 1 - (Refer landscape specification) Basin Matrix Planting Scope of Works -Turf Type 2 - (Refer Paving Type 1: (Refer Landscape roposed Trees andscape specification) Specification) -Massed Native Grasses (Seeding) Plan C Proposed Grasses and Groundcovers 1 Ea Plan

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Landscape Plan









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	1
Basin	Matrix Planting

LEGEND

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Common Name	Mature	Mature	Spacings	Pot Size	CPW	Quantity
	Height (m.)	Spread (m.)				
leaved Apple	25	15	As Shown	75L	+	48
roo	8	8	As Shown	200L		11
ed Gum	30	8	As Shown	75L	+	303
ige Gum	30	8	As Shown	75L	*	143
v Leaved Ironbark	15	6	As Shown	75L	*	60
Зох	20	8	As Shown	75L	*	82
Red Gum	30	8	As Shown	75L	*	148
Myrtle	8	6	As Shown	75L		2
Lillypilly	3	2	As Shown	300mm		1048
orush	2.5	2.5	As Shown	300mm		878
lohn Bottlebrush	0.8	0.8	As Shown	300mm		86
ight Grevillea	4	3	As Shown	300mm		250
าล	0.75	0.5	As Shown	300mm		498
Hawthorn	2.5	2.5	As Shown	300mm		302
Pennisetum	0.6	0.6	5/m2	150mm		31883
ur	0.5	2	5/m2	150mm		710
			-			
ck Sedge	0.5	0.5	5/m2	75mm Tube		38081
			-			

Precast unit paving with mortar joints as specified



25mm mortar bed. Waterproofing & drainage by others. - Base slab by others



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(C)





Oakdale South - MOD 4 Precinct 1 Landscape September 2017



# Lot Landscaping - Precinct 1 Landscape Plan (Not to scale) Estate Road 06 Estate Road 01 1C Estate Road ad O 2A נס Es 1D **2B** -Secondary Planting Zone - Grid of Trees in Turf Buffer / Screen Presentation / eature 'Railroad Rock Ballast' Banding Entry Planting Planting Prepared by: Client Site Image Job Number Oakdale South - MOD 4 | Landscape SITE IMAGE BRICKWORKS Goodman Landscape Architects 1.C



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### Lot Landscaping - Precinct 1

Primary Presentational Frontage - Typical Landscape Detail Plan



Trees:

Cm - Corymbia maculata

- Cupaniopsis anacardioides Ca

Road 2 Presentational Frontage - Typical Landscape Detail Plan



SECION B | SCALE 1:100



PLAN | SCALE 1:200



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Ballast bays



Native hedges

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### Lot Landscaping - Precinct 1

### Planting Palette

Botanical Name	Common Name	Mature Height (m.)	Mature Spread (m.)	Pot Size
Trees				
Angophora floribunda	Rough-barked Apple	20	8	75L
Cupaniopsis anacardioides	Tuckeroo	8	8	100L
Corymbia maculata	Spotted Gum	30	8	100L
Eucalyptus amplifolia	Cabbage Gum	30	8	75L
Eucalyptus crebra	Narrow Leaved Ironbark	15	6	25L
Eucalyptus moluccana	Grey Box	20	8	25L
Eucalyptus tereticomis	Forest Red Gum	30	8	75L
Lagerstroemia indica 'Natchez'	Crepe Myrtle	8	6	100L
Pyrus calleryana	Callery Pear	11	7	75L
Tristaniopsis laurina 'Luscious'	Water Gum	9	8	75L
Melaleuca decora	White Feather Honeymyrtle	7	3	25L
Melaleuca nodosa	Ball Honey-myrtle	4	2.5	25L
Melaleuca styphelioides	Prickly Leaved Paperbark	7	3	75L
Shrubs				
Acacia falcata	Sickle Wattle	4	2	300mm
Callistemon 'Endevour'	Bottlebrush	2.5	2.5	300mm
Kunzea ambigua	Tick Bush	2.5	2.5	300mm







Pyrus calleryana

Pyrus calleryana





Phormium tenax 'Purpurea'



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Tristaniopsis laurina 'Luscious'





Callistemon 'Endevour'



Dianella caerulea 'Breeze'





Westringia fruticosa

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