

Oakdale South - MOD 4 Landscape August 2017



Prepared by:

SITE IMAGE Landscape Architects

TABLE OF CONTENTS

DWG NO. **DRAWING TITLE**

LANDSCAPE REPORT LR-003 Landscape Concept Master Plan LR-004 Landscape Site Section LR-005 Southern Boundary Landscape Section LR-006 Eastern Boundary Landscape Section LR-007 Vegetation Typologies LR-008 Indicative Species List and reference table LR-009 Street Tree Master Plan LR-010 Streetscape Typical Detail LR-011 Landscape Node 1 – Plan LR-012 Landscape Node 2 – Plan / Section LR-013 Stage 1 Development - Landscape Scope of Works ESTATE LANDSCAPE WORKS ELW-001 Estate Landscape Works - Scope of Works Plan ELW-002 Estate Landscape Works - Plan ELW-003 Estate Landscape Works - Plan ELW-004 Estate Landscape Works - Plan ELW-005 Estate Landscape Works - Plan ELW-006 Estate Landscape Works - Plan ELW-007 Estate Landscape Works - Plan ELW-008 Estate Landscape Works - Plan ELW-009 Estate Landscape Works - Plan ELW-010 Estate Landscape Works - Typical Landscape Details ELW-011 Estate Landscape Works - Typical Landscape Details LANDSCAPE PRECINCT 1 LP1-001 Precinct 1 – Landscape Plan LP1-002 Precinct 1 – Presentational Frontage Plan LP1-003 Precinct 1 – Presentational Frontage Plan LP1-004 Precinct 1- Planting Palette

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.

BRICKWORKS Goodmar



SITE IMAGE

Landscape Architects

Oakdale South - MOD 4 | Landscape



Goodman SS15-3057 Drawing Number Issue Date

LR-002 10.08.2017

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





Prepared by:

SITE IMAGE Landscape Architects

Oakdale South - MOD 4 | Landscape

Client



Typical Landscape Site Section

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



BRICKWORKS



Goodmar

SITE IMAGE Og



Goodman SS15-3057 Drawing Number Issue Date LR-004 K 10.08.2017

Southern Boundary Landscape Section



BRICKWORKS Goodman



SITE IMAGE Landscape Architects



SS15-3057

Issue Date

LR-005 10.08.2017

Eastern Boundary Landscape Section







SITE IMAGE Landscape Architects

Oakdale South - MOD 4 | Landscape







Site Image Job Number

Goodman SS15-3057 Drawing Numbe Issue Date LR-006 K 10.08.2017

Vegetation Typologies



Typology 1 Streetscape

Refer to Street Tree

ballast stone base.

Masterplan. Copse detail,

Typology 2 Landscape Nodes

legibility and amenity.





Basins Formalised planting to create

Various rehabilitated plant Bioretention species in accordance with Penrith City communities, refer to AECOM Council WSUD Guidelines. documentation.

Typology 4 Biodiversity Zone Typology 5 Riparian Zone

Rehabilitation of creekline included in biodiversity offsets.



Managed clear turf zone as stipulated by fire consultant





Typology 8 Existing Managed 📕 Grasses

Powerline easement, retain existing pastural grassses and reinstate as required by civil works









Typology 3









softening of built form and



BRICKWORKS

Goodmar



Prepared by:

SITE IMAGE Landscape Architects

Oakdale South - MOD 4 | Landscape

Typology 9 Embankment Turf



Screen planting to boundary

Turf to civil embankment







Site Image Job Number

Goodman SS15-3057 Drawing Number Issue Date

LR-007 Κ 10.08.2017

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	Indicative Plant List	Refer AECOM VMP	Refer AECOM VMP	Managed clear turf zone as stipulated by fire consultant	Indicative Plant List	
	Trees:	Basin Matrix Planting:				Trees:	
Road 1 / Estate Road:	- Brachychiton acerifolius	-Imperata cylindrica				- Cupaniopsis anacardioides	
- Corymbia maculata	-	-Ficinia nodosa					
Road 2:	Shrubs & Accents:	-Juncus usitatus				Shrubs & Accents:	
- Eucalyptus crebra	-Doryanthes excelsa	-Poa siebreinan				-Doryanthes excelsa	
Road 3:	- Westringia fruticosa	-Themeda australis				- Westringia fruticosa	
- Angophora subvelutina	- Juncea sp/	-Dianella caerulea					
Road 4:		Carex appressa				Grasses:	
- Eucalyptus molucanna	Grasses:					- Dianella 'Breeze'	
Road 5:	- Poa 'Eskdale'					- Lomandra longifolia	
<u>- Eucalyptus crebra</u>							

Refer to Street Tree Masterplan. Copse detail, ballast stone base.

legibility and amenity.

Formalised planting to create Mixed native grass planting in Various rehabilitated plant

biodiversity zone on batter. documentation.

Rehabilitation of creekline basin, potential expansion of communities, refer to AECOM included in biodiversity offsets.

Managed clear turf zone as stipulated by fire consultant

Presentational landscaping, softening of built form and amenity creation

Existing pastural grasses, maintained under powerline easement.





Prepared by:

SITE IMAGE Landscape Architects Oakdale South - MOD 4 | Landscape







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'

Turf planting to embankment Native screening to boundary







SS15-3057

Goodman Drawing Number Issue Date

LR-008 K 10.08.2017

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)



icalyptus crebra Narrow-leafed Ironbark 5m (h) x 6m (w)



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



Eucalyptus moluccana Grey Box



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

Road 6

BRICKWORKS

Goodmar



SITE IMAGE Landscape Architects

Oakdale South - MOD 4 | Landscape





Road 7

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



Site Image Job Number

Goodman SS15-3057 Drawing Numbe Issue Date

LR-009 K 10.08.2017

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.



BRICKWORKS Goodma





SITE IMAGE Landscape Architects

Oakdale South - MOD 4 | Landscape





SCALE 1:100

Site Image Job Number

Goodman SS15-3057 Drawing Number Issue Date LR-0010 K 10.08.2017

Landscape Node 1 - Plan & Section



Prepared by:

Goodman

BRICKWORKS



SITE IMAGE Landscape Architects

Oakdale South - MOD 4 | Landscape

Client

SCALE 1:75

Goodman SS15-3057 Drawing Numbe Issue Date

LR-0011 10.08.2017

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











BRICKWORKS Goodmar



Oakdale South - MOD 4 | Landscape

Client

SCALE 1:250

Site Image Job Number

Goodma SS15-3057 Issue Date

LR-0012 10.08.2017

Stage 1 Development

Landscape Scope of Works

The landscape works described specifi cally in this report, and subsequent design development, shall consist of -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.



Precinct Works

BRICKWORKS Goodmar



SITE IMAGE

Oakdale South - MOD 4 | Landscape



Goodman SS15-3057 Drawing Numbe Issue Date

LR-0013 10.08.2017



Oakdale South - MOD 4 Estate Landscape Works August 2017



Prepared by:

SITE IMAGE Landscape Architects

Stage 1 Development Works



BRICKWORKS

Goodman



Oakdale South - MOD 4 | Landscape

Client Site Im

Site Image Job Number

Goodman SS15-3057 Drawing Numbe Issue Date ELW - 001 K 10.08.2017

Landscape Plan





Prepared by:

SITE IMAGE Landscape Architects

Oakdale South - MOD 4 | Landscape



Goodman SS15-3057 Drawing Number Issue Date

ELW - 002 К 10.08.2017

Landscape Plan



BRICKWORKS Goodman

Prepared by: SITE IMAGE Landscape Architects

Oakdale South - MOD 4 | Landscape



Basin Matr

Paving Tyr (Refer Lan Specificatio

Groundcovers

Client Site Image Job Number

Goodman SS15-3057

Drawing Number Issue Date

ELW - 003 K 10.08.2017

Landscape Plan



Prepared by:





SITE IMAGE Landscape Architects

Oakdale South - MOD 4 | Landscape

Client Site Image Job Number

Goodman SS15-3057 Drawing Number Issue Date

ELW - 004 K 10.08.2017

Landscape Plan



Prepared by:

BRICKWORKS Goodman



SITE IMAGE Landscape Architects

Oakdale South - MOD 4 | Landscape

Client Site Image Job Number

Goodman SS15-3057 Drawing Number Issue Date

ELW - 005 K 10.08.2017

Landscape Architects



Date

10.08.2017

Landscape Plan







SITE IMAGE Landscape Architects





LEGEN

Scope of Works

	• • • •
1	•••••

Turf Type 1 - (Refer landscape specification)



Basin Matr

SS15-3057

Issue Date

ELW - 007 K 10.08.2017



BRICKWORKS

Goodmar

Prepared by:

Oakdale South - MOD 4 | Landscape SITE IMAGE Landscape Architects

Client





Site Image Job Number

Goodman SS15-3057 Drawing Number Issue Date

ELW - 008 K 10.08.2017







BRICKWORKS





Oakdale South - MOD 4 | Landscape



• . • . • .









Prepared by:

SITE IMAGE Landscape Architects

Oakdale South - MOD 4 | Landscape

Client

Common Name	Mature	Mature	Spacings	Pot Size	CPW	Quantity
	Height (m.)	Spread (m.)				
Broad-leaved Apple	25	15	As Shown	75L	+	48
Tuckeroo	8	8	As Shown	200L		11
Spotted Gum	15	7	As Shown	75L	+	303
Cabbage Gum	30	8	As Shown	75L	*	143
Narrow Leaved Ironbark	15	6	As Shown	75L	*	60
Grey Box	20	8	As Shown	75L	*	82
Forest Red Gum	30	8	As Shown	75L	*	148
Crepe Myrtle	8	6	As Shown	75L		2
Dwarf Lillypilly	3	2	As Shown	300mm		1048
Bottlebrush	2.5	2.5	As Shown	300mm		878
Little John Bottlebrush	0.8	0.8	As Shown	300mm		86
Moonlight Grevillea	4	3	As Shown	300mm		250
Nandina	0.75	0.5	As Shown	300mm		498
Indian Hawthorn	2.5	2.5	As Shown	300mm		302
Nafray Pennisetum	0.6	0.6	5/m2	150mm		31883
Tricolour	0.5	2	5/m2	150mm		710
Flax Leafed Paperbark	10	4	As Shown	75L		24
Prickly Leaved Paperbark	10	3	As Shown	75L		24
Blady Grass	1	1	8/m2	75mm Tube		8251
Knobby Club Rush	1	1	8/m2	75mm Tube		8251
Common Rush	1	0.5	8/m2	75mm Tube		8251
Matrush	0.7	1	8/m2	75mm Tube		8251
Grey Tussock Grass	0.4	0.3	8/m2	75mm Tube		8251
Kangaroo Grass	1.5	0.5	8/m2	75mm Tube		8251
Blue Flax-lily	1	1	8/m2	75mm Tube		8251
Tussock Sedge	0.5	0.5	8/m2	75mm Tube		8251

Precast unit paving with mortar joints as specified



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



Goodman SS15-3057 Drawing Number Issue Date

ELW - 010 K 10.08.2017







Oakdale South - MOD 4 Precinct 1 Landscape

August 2017



SITE IMAGE Landscape Architects

Lot Landscaping - Precinct 1

Landscape Plan (Not to scale)





Road 2 Presentational Frontage - Typical Landscape Detail Plan



SECION B | SCALE 1:100



PLAN | SCALE 1:200



Prepared by:

(C)

SITE IMAGE Landscape Architects

Oakdale South - MOD 4 | Landscape





Ballast bays



Native hedges

Goodman SS15-3057 Drawing Number Issue Date

LP1 -003 K 10.08.2017

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	15	8	75L
Corymbia maculata	Spotted Gum	15	7	75L
Eucalyptus amplifolia	Cabbage Gum	25	8	75L
Eucalyptus crebra	Narrow Leaved Ironbark	15	6	25L
Eucalyptus moluccana	Grey Box	20	8	25L
Eucalyptus tereticomis	Forest Red Gum	30	10	75L
Pyrus calleryana	Callery Pear	11	7	75L
<i>Tristaniopsis laurina</i> '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	3	3	300mm
Kunzea ambigua	Tick Bush	2.5	2.5	300mm
Pittosporum 'Miss Muffet'	Dwarf Pittosporum	1	1.5	300mm
Viburnum odoratissimum	Sweet Viburnum	5	3.5	300mm
Westringia glabra	Violet Westringia	1	1	300mm
Accent Species				
Phormium tenax 'Evening Glow'	NZ Flax Lily	1.5	2	300mm
Phormium tenax 'Purpurea'	Purple NZ Flax	1.5	1	300mm
Groundcovers and Grasses				
<i>Dianella caerulea 'Breeze'</i>	Blue Flax Lily	0.4	0.4	150mm
Hardenbergia violacea	Happy Wanderer Native Sarsparilla	2.5	2.5	150mm
Hibbertia scandens	Snake Vine	0.2	2	150mm
Lomandra longifolia	Mat Rush	1	0.6	150mm
Lomandra longifolia 'Tanika'	Matt Rush Grass	O.7	0.6	150mm
Myoporum parvifolium	Creeping Boobialla	0.2	1.5	150mm
Pennisetum 'Nafray'	Nafray	0.8	0.5	150mm
Poa labillardieri	Tussock Grass	0.8	0.5	150mm
Themeda australis	Kangaroo Grass	0.8	0.3	150mm







BRICKWORKS





Prepared by:

SITE IMAGE Landscape Architects

Oakdale South - MOD 4 | Landscape











Callistemon 'Endevour'



Dianella caerulea 'Breeze'





Westringia fruticosa

Client Site Image Job Number

Goodman SS15-3057 Drawing Numbe Issue Date

LP1 -004 K 10.08.2017