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Approved	Nick Ison	
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Contents

- 1.1 INTRODUCTION AND SITE CONTEXT
- 1.2 SITE ANALYSIS AND OPPORTUNITIES
- 1.3 SITE PHOTOS
- 1.4 DESIGN PRINCIPLES
- 1.5 MASTER PLAN
- 1.6 TREE MASTER PLAN
- 1.7 DETAIL PLAN 01
- L.8 DETAIL PLAN 02
- 1.9 SECTION A
- 1.10 SECTION B
- 1.11 SECTION C
- 1.12 ELEVATION
- 1.13 INDICATIVE PLANTING SCHEDULE
- 1.14 TYPICAL LANDSCAPE DETAIL
- 1.15 TYPICAL LANDSCAPE MAINTENANCI

CADDENS STAGE 8 & 9 LANDSCAPE DEVELOPMENT APPLICATION

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1.1 Introduction and **Site Context**

Legacy Property have acquired the site at 89-115 O'Connell Street, Caddens (corner O'Connell Street and O'Connell Lane). This parcel of land forms the final undeveloped holding of the Caddens Hill development. Stages 8 and 9 propose to construct 121 residential lots and 1 residue lot.

The landscape strategy for the precinct seeks to integrate green initiatives and a sustainable approach. The precinct will enhance biodiversity and ecological integrity of the development by providing a bio-retention basin and dense vegetation of native grasses, shrubs and trees.



LEGEND



Extent of Works (Stage 8 & 9)

Caddens Development (Other Stages) Caddens Development

Werrington Creek

1.2 Site Analysis and Opportunities

The development site is bound by O'Connell Street to the north, providing excellent connections to the Caddens Corner Shopping Mall and the Western Sydney University campus. To the west of the site is O'Connell Lane, flanked by strands of remnant River-flat Eucalypt Forest and Cumberland Plain Woodland. To the south and east of the proposed development site is the Caddens staged residential development. The development site slopes east to west, falling approximately 19m m from the high point of 65.00 in the east down to 46.00 in the north west corner. The proposed development structure provides opportunities to celebrate views of the world heritage Blue Mountains to the west.

The structure and layout of the development offers opportunities for precinct-wide activation (through careful consideration of key connections to the surrounding retail, education and high quality open spaces including the Caddens Hilltop Park to the east, and the Cardinal Path (recreational path) to the west.

The north-western corner of the development is the proposed location for a landscaped basin. This corner provides significant opportunities for high quality landscape embellishments with tree and shrub planting and landscape materials. This space has the potential to offer a green/blue gateway to the site at this prominent intersection between Western Sydney University and the Caddens Corner Shopping Mall.

LEGEND

- 01 Proposed Basin
 02 Proposed Lot Subdivision
 Existing Properties
- 03 Existing Properties
- Image Markers
- Existing Pedestrian Route
- Proposed Pedestrian Route (Green Link)
- Werrington Creek
- River-flat Eucalypt Forest and Cumberland
 Plain Woodland
- Basin



1.3 Site Photos



A. Elevated views to West



E. Cardinal Path (South)

(Image labels shown in plan on page 5)



B. Site looking East from O'Connell Lane



F. Cardinal Path (East)



C. Vegetation Apart of Werrington Creek



G. Cardinal Path (East 2)



D. Facing Site from WSU Entrance



H. Entrance to WSU

1.4 Design Principles

The following set of design principles have been prepared to ensure the development area responds to local needs and local context to support the growth of a sustainability community into the future.



Housing Diversity

Provide a variety of lot sizes, dwelling types and sizes to respond to the natural topography and cater for a wide range of housing needs



Create A Blue/Green **Gateway At The Corner**

Provide a naturalised, landscape-led design response to the basin (corner of O'Connell Street and O'Connell Lane) by creating a tiered landscape with high quality walling and planting, with seating areas and paths that provide additional passive recreation opportunities





Provide A Well Connected Development

Create accessible, precinct-wide active connections (walking and cycling) through the development of a 'green link' that connects residential lots to public open space and adjacent community facilities



Landscape Materials

Create a palette of hard landscaping materials (coloured concrete and timber) to soften any retaining elements, respond to the local character and improve sense of way finding





Celebrate Views

Create vantage points for sitting and resting at the high levels that respond to key view lines



Solar Access

Consider tree species and strategic placement of deciduous trees that provide cooling in summer and solar gain during winter





Feature Native Planting

Introduce a predominantly native street tree and shrub planting palette (particularly at key locations along O'Connell Street and O'Connell Lane) that provide a sense of arrival, reinforce local character and increase the ecological value of the area



Mitigate Urban Heat

Provide larger shade trees along key routes and connections that will increase canopy cover and improve thermal comfort by reducing urban



1.5 Master Plan



LEGEND

– – Site Boundary

01 OSD Turf Basin

02 Rain Garden

Mass Planting (Low Shrubs and Grasses)

04 Lots

05 Street Tree Planting

06 Shared Path (2.5m Wide)

07 Elevated Viewing Platform With Seating

08 Retaining Walls - Feature Blocks or Similar

Dense Screening Planting

10 Maintenance Access Path

1.6 Tree Masterplan



1.7 Detail Plan 01

O'CONNELL STREET +47.50 +46.60 01 O'CONNELL LANE +52.50 20 | 25m/ 1:500@A3

LEGEND

– – Site Boundary

01 OSD Turf Basin

02 Rain Garden

Mass Planting (Low Shrubs and Grasses)

04 Lots

05 Street Tree Planting

O6 Shared Path (2.5m Wide)

07 Elevated Viewing Platform With Seating

08 Retaining Walls - Feature Blocks or Similar

Dense Screening Planting

Maintenance Access Path

11 Informal Access Path

1.8 Detail Plan 02



LEGEND

– – Site Boundary

01 Mass Planting (Low Shrubs and Grasses)

02 Lots

Street Tree Planting

04 Shared Path (2.5m Wide)

05 Bench

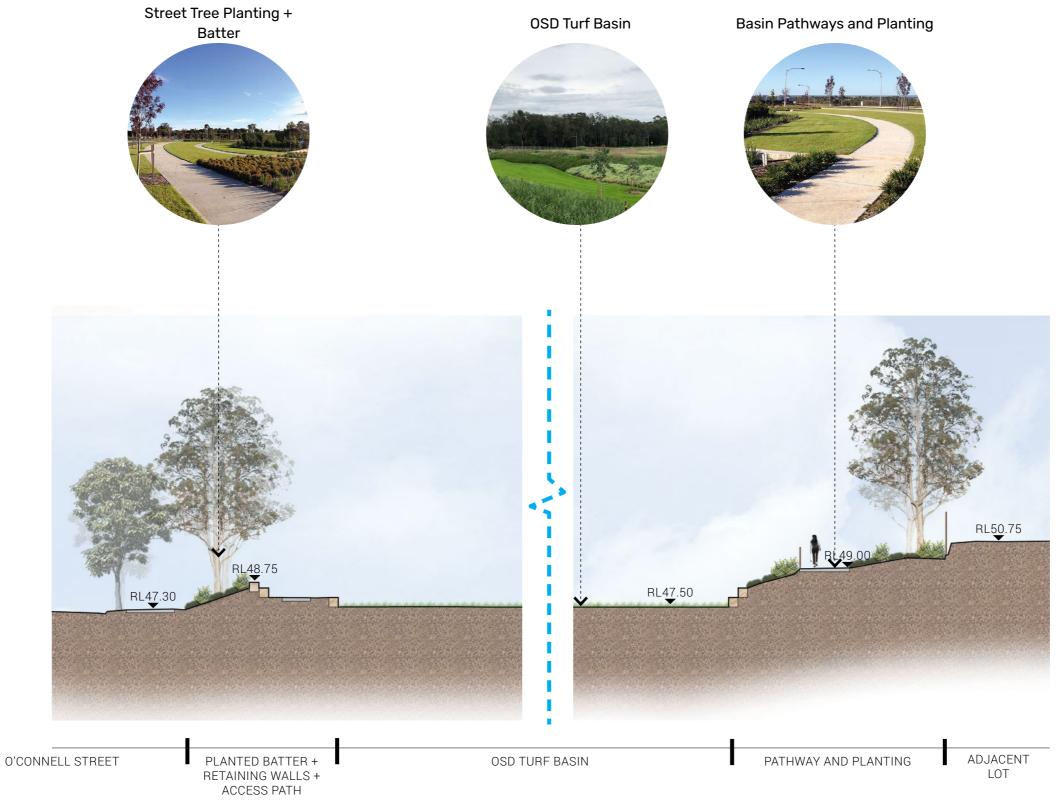
06 Cycle Barriers

1.9 Section A





1.10 Section B

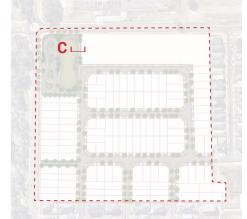




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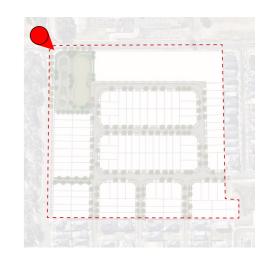
1.11 Section C





5m/ 1:50@A3

1.12 Elevation





0 1.5 3 4.5 6 7.5m/1:75@A3

1.13 Indicative Planting Schedule

Botanical Name	Common Name	Mature Height	Spread	Pot Size	Spacing/m2
STREET TREES					
Cupaniopsis anacardioides	Tuckeroo	8-15	5	100L	As shown
Elaeocarpus eumundi	Eumundi Quandong	10	4	100L	As shown
Lagerstroemia indica 'Natchez'	Crepe Myrtle	7	4	100L	As shown
Lagerstroemia indica 'Biloxi'	Crepe Myrtle (Pink)	8	4	100L	As shown
Lophostemon confertus	Queensland Brush Box	15	10	100L	As shown
Tristaniopsis laurina 'Luscious'	Water Gum	10	4	100L	As shown
Waterhousia floribunda 'Green Avenue'	Weeping Lily Pilly	8	5	100L	As shown
TREES					
Corymbia ficifolia	Flowering Gum	10 - 15	5	100L	As shown
Eucalyptus punctata	-	10 - 25	7	100L	As shown
Eucalyptus tereticornis	Grey gum	20 - 50	10	100L	As shown
	Forest red gum	20 - 30	10	TOOL	AS SHOWIT
SHRUBS	D (E)	0.63.0		000	1.6
Callistemon 'Better John'	Dwarf Bottlebrush	0.6-1.2	60-90	200mm	4-6
Doryanthes excelsa	Gymea lily	1 (6m spike)	1	200mm	As shown
Callistemon 'Slim' Slim Bottlebrush	Slim Bottlebrush	3	0.7	200mm	4-6
Melaleuca 'Claret Tops'	Honey Myrtle	1	0.6	200mm	4-6
Westringia 'Wynyabbie Gem'	Coastal Rosemary	1	1.5-2	200mm	4-6
Westringia 'Zena'	Coastal Rosemary	0.6-0.9	0.9	200mm	4-6
GRASSES AND GROUNDCOVERS					
Dianella revoluta 'Little Rev'	Native Flax	1	2.5	150mm	4-6
Dianella 'Little Jess'	Flax lily	1	2.5	150mm	4-6
Dichondra repens	Kidney weed	0.1	5	150mm	4-6
Liriope muscari 'Evergreen Giant'	Evergreen Giant Lily Turf	0.5	0.5	150mm	4-6
Lomandra longifolia	Spiny Mat-rush	1.2	0.8	150mm	4-6
Lomandra multiflora ssp. multiflora	Many-flowered Mat-rush	0.9	0.5	150mm	4-6
Lomandra tanika	Tanika	0.5	0.6	150mm	4-6
Oplismenus aemulus	Basket grass	1.5	0.5	150mm	4-6
Themeda australis	Kangaroo grass	1.5	0.5	150mm	4-6
Viola hederaceae	Native Violet	0.3	0.6	150mm	4-6
SEDGES AND RUSHES					
 Ficinia nodosa	Knobby Club Rush	1.2	0.5	150mm	6-9
Juncus flavidus	Mat Rush	1	0.5	150mm	6-9
Juncus usitatus	Mat Rush	1	0.5	150mm	6-9
Carex appressa	Sedge	1	0.5	150mm	6-9
Lepironia articulata	Grey rush	2	1	150mm	6-9
Lomandra 'Shara'	Lomandra Shara	0.5	0.5	150mm	6-9
Lomandra 'Katie Belles'	Lomandra Katie Belles	1.5	1.5	150mm	6-9
Pennisetum 'Nafray'	Swamp Foxtail Grass	0.6	0.6	150mm	6-9
Poa eskdale	Poa	0.6	0.5	150mm	6-9
TURF	ı⁻∪a	0.0	0.0	13011111	0-9
Kikuyu Grass	Pennisetum clandestinum				

















Elaeocarpus eumundi

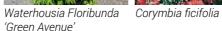
Lagerstroemia indica 'Biloxi'

Lagerstroemia indica 'Natchez'

confertus

'Luscious'











Eucalyptus tereticornis











Melaleuca 'Claret Tops'











Dianella 'Little Jess'













Lomandra longifolia

Lomandra multiflora

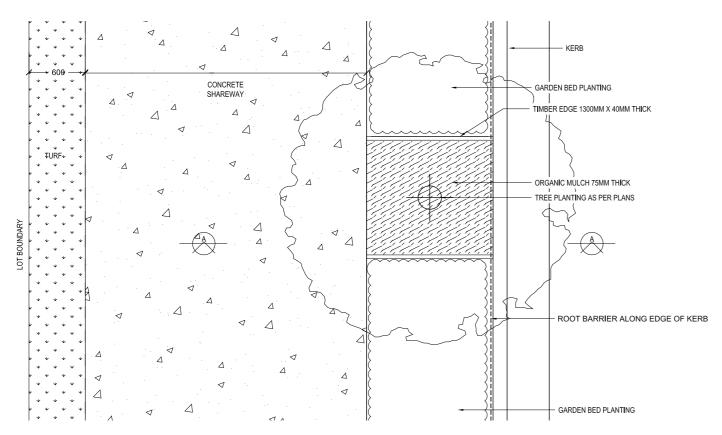


Lomandra tanika

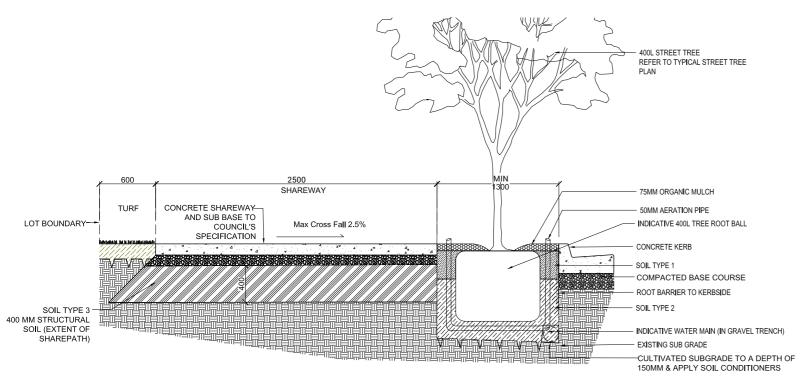




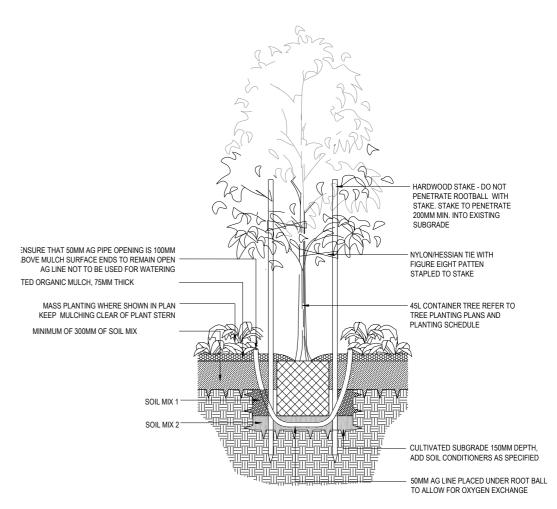
1.14 Landscape Details



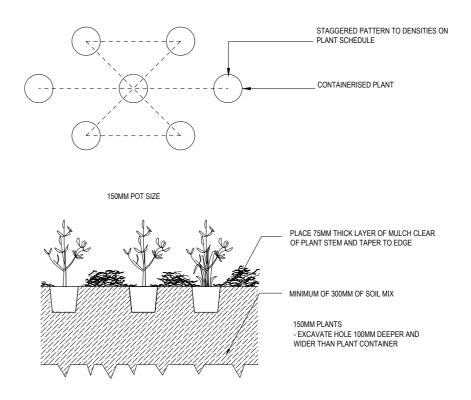
DETAIL 01 - TYPICAL TREE PLANING IN VERGE 1:40 @A3



DETAIL 01 - SECTION CUT



DETAIL 02: TREE PLANTING ON GRADE 1:40@A3



DETAIL 03: MASS PLANTING DETAIL 1:40@A3

1.15 Typical Landscape Maintenance

PLACE Design Group Pty Ltd PROPOSED MAINTENANCE SCHEDULE

Client: Legacy Property

Project Name: Stage 8-9 Caddens

Precinct Name: All streetscape zones, open spaces

Works Description: Maintenance of Soft Landscape areas

Maintenance Period: 12 Months from Practical Completion

SOFTSCAPE AREAS:

TASK DESCRIPTION:	FREQUENCY: 0-6 Months	FREQUENCY: 6 - 12 Months	
Trees			
Visual inspection of all trees	Fortnightly in summer/Monthly in Winter	Monthly in summer/Once in Winter	
Manually inspect water levels to trees	Fortnightly in summer/Monthly in Winter	Monthly in summer/Once in Winter	
Inspect damage to trees	Fortnightly in summer/Monthly in Winter	Monthly in summer/Once in Winter	
Replace any taping to trees	Fortnightly in summer/Monthly in Winter	Monthly in summer/Once in Winter	
Prune dead or damaged branches	Fortnightly in summer/Monthly in Winter	Monthly in summer/Once in Winter	
Check for and report pests & diseases	Fortnightly	Monthly	
Replace failed or damaged trees	Fortnightly/As required	Monthly/As required	
Spray in accordance with manufacturers recommendations	As required	As required	
Adjust &/or replace stakes & ties where necessary	As required	As required	
Turf			
Mow all turf areas to maintain height between 25-35mm	Weekly in Summer/Monthly in Winter	Fortnightly in Summer/Every 2 Months in Winte	
Trim edges of all turf areas	Weekly in Summer/Monthly in Winter	Fortnightly in Summer/Every 2 Months in Winte	
Remove clippings from site	Weekly in Summer/Monthly in Winter	Fortnightly in Summer/Every 2 Months in Winter	
Remove litter & debris from turf areas	Weekly in Summer/Monthly in Winter	Fortnightly in Summer/Every 2 Months in Winter	
Check for and report pests & diseases	Fortnightly	Monthly	
Spray in accordance with manufacturers recommendations	As required	As required	
Monitor and apply fertiliser to turf areas	6 month intervals - Autumn/Spring	Yearly - Spring	
Mulch			
Remove litter & debris from mulch areas	Fortnightly	Monthly	
Remove weed growth in mulch areas	Fortnightly	Monthly	
Top up mulch levels	Annually	Annually	
Plants			
Check for and report pests & diseases	Fortnightly	Monthly	
Spray in accordance with manufacturers recommendations	Fortnightly	Monthly	
Prune damaged or dead branches	Fortnightly	Monthly	
Remove weed growth in plant areas	Fortnightly	Monthly	
Replace failed or damaged plants	Fortnightly/As required	Monthly/As required	
Adjust &/or replace stakes & ties where necessary	Fortnightly/As required	Monthly/As required	
General Watering to all street trees			
Irrigation by water cart or hosecock as required to maintain plant vigor & health	Weekly first 6 months/Fortnightly there after dependent on rainfall conditions	Monthly dependent on rainfall conditions	
Urgent works			
Report any theft, damage or vandalism	Weekly	As required	

CADDENS STAGE 8 & 9 LANDSCAPE DEVELOPMENT APPLICATION