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**GREENGATE - AGED CARE** 

VILLAGE GREEN **PENRITH** 

Development Application



Project Reference: 2518051 16th October 2019 Revision 03

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### **INTRODUCTION**

PLACE Design Group were engaged by Greengate to undertake the design of landscaping elements that comprise the Greengate retirement village. The site is located at 3 Reserve Street, Penrith, NSW. The landscape design will contribute to the creation of vibrant and safe outdoor environment for residents and visitors.

The development will include the following uses:

- An outdoor theatre in Zone1 for leisure, relaxation and learning
- Bocce lawn to provide opportunities to maintain and enhance physical well-being
- Calming and meditative water feature adjacent to pathways that are under the cover of shade structures
- · Herb garden with wheelchair accessibility, offering all users opportunities to grow edible
- Therapeutic, aromatic sensory planting common to Mediterranean garden
- Flexible design suitable for dementia patients
- Communal washing lines
- · Green walling & cable support systems

The materiality of the public domain builds upon that of the proposed buildings designed by Jackson Teese Architects.

The principles outlined in the CPTED Guidelines have been applied to this site ensuring the following;

- Surveillance
- Access Control
- Territorial reinforcement
- Space Management

# SITE CONTEXT PLAN



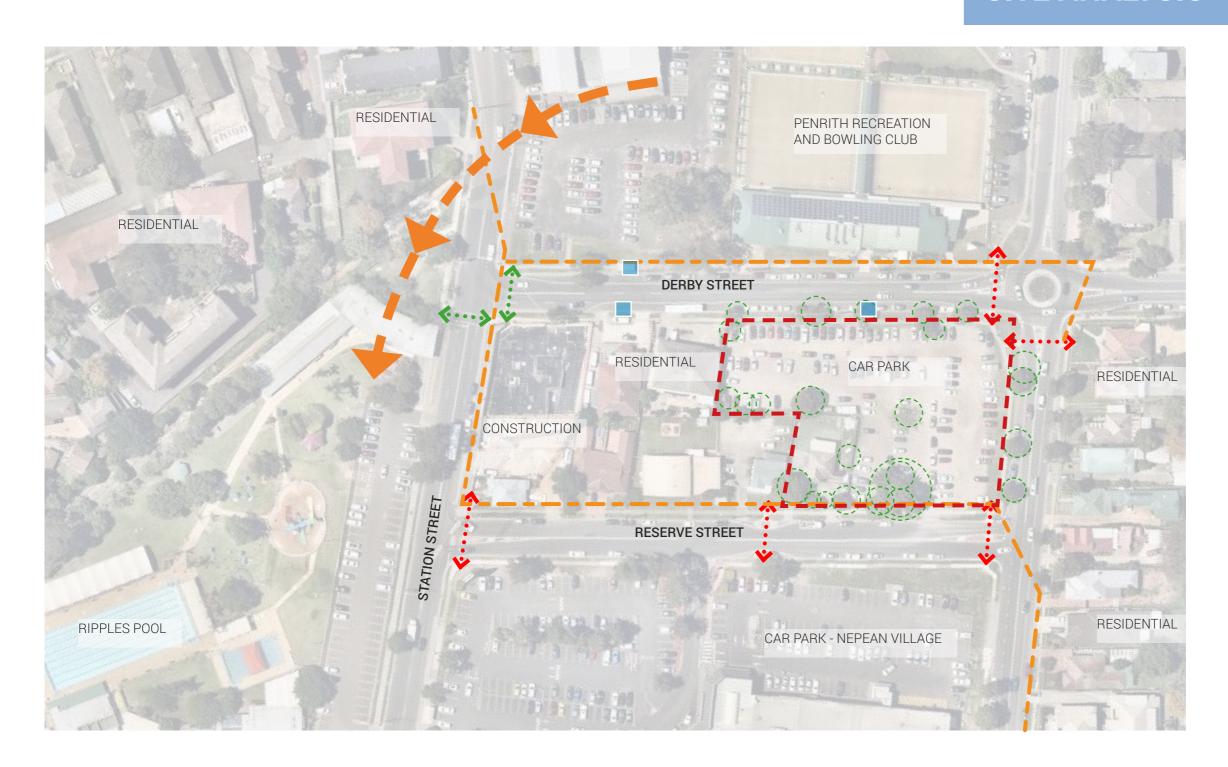


# SITE CONTEXT PERSPECTIVE



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# **SITE ANALYSIS**





Powerlines

Solar path

Existing trees

Bus stop

Pedestrian island/blister crossings

Signalised pedestrian crossing

Site boundary



### LANDSCAPE MASTERPLAN



### **LEGEND**

- Raised planters located throughout the courtyards 1m minimum height
- Open multifunction turf area
- Tensile wire structure / lightweight pergola with climbers
- Water feature/ reflection pools
- Central mediterranean courtyard with catenary lighting
- Large modern pots with specimen trees to both sides of courtyard
- Water feature/sculpture and seating area
- Art work/Sculpture
- Drying area
- Potential future thoroughfare connection
- Post box
- Architectural pots of varying sizes with specimen plants to building entry
- Existing Ficus hillii to be retained
- Landscape planter over OSD tank
- Extent of basement below

NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR ILLUSTRATED DEEP SOIL PLANTING ZONES

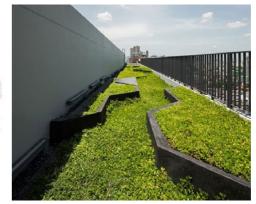


# FIRST FLOOR PLAN



### **LEGEND**

01 Landscape planting area











# **SECOND - THIRD FLOOR PLAN**



### **LEGEND**

01 Landscape planting area



# FORTH - FIFTH FLOOR PLAN



### **LEGEND**

- Outdoor paved terrace area with river pebble ballast. Refer to pg.24 for further detail.
- Landscape planting area



### **FENCE STRATEGY DIAGRAM**



### **LEGEND**



1.8m Boundary fence and gate for pedestrian access. (Black palisade)



1.5m Boundary fence and gate for pedestrian access to communal areas.

(Black palisade with hardwood timber piers)



1.2m Boundary fence and gate for pedestrian access to private units.

(Black palisade with hardwood timber piers, offset min. 1m from site boundary)



Potential fence to future thoroughfare connection



**Building entrance** 

Timber batten screen

Refer to pg.25 for additional information on fencing detail.



1.8M Black palisade boundary fence example



1.2-1.5m Black palisade fence with hardwood timber pier example



1.2-1.5m Black palisade fence with hardwood timber pier example



Vertical timber batten screen to substation and drying area



Rear fixed typical batten screen detail

### **LANDSCAPE PLAN - ZONE 1**



The design of this courtyard includes a variety of mature trees, mass planting and water in order to help create a micro-climate within the development. This in turn helps address Penrith's hot summer climate offering shading and natural cooling. Furthermore, the variety of spaces provides opportunity for both summer and winter enjoyment. With open spaces and deciduous plantings, the design allows sun to enter and warm the development during winter.

### **LEGEND**

- 01 Shallow linear water feature (differing effects)
- Integrated outdoor furniture
- Pergola structure overhead
- 'Urbanline' resin timber bridge over water
- 1m high planter wall to ensure sufficient soil volume for optimal tree growth
- Outdoor bench seat with arm and back rests
- Retractable movie screen (furniture can be rearranged / for events)
- Signage Wall (refer perspective)
- Architectural pots of varying sizes with specimen plants
- Open lawn area









5M/ 1:100@A3



# LANDSCAPE SKETCH - ZONE 1



### LANDSCAPE PLAN - ZONE 2



The design of this courtyard includes a variety of mature trees, mass planting and water in order to help create a micro-climate within the development. This in turn helps address Penrith's hot summer climate offering shading and natural cooling. Furthermore, the variety of spaces provides opportunity for both summer and winter enjoyment. With open spaces and deciduous plantings, the design allows sun to enter and warm the development during winter.

### **LEGEND**

- 01 Catenary lighting over with pendant and LED fairy lights
- Water feature/ Reflection pool framing space
- Large modern concrete pots with standard fig trees
- Outdoor dining precinct with space for long table
- 1m high planter wall to ensure sufficient soil volume for optimal tree growth with lower bench seats (including ergonomic back and arm-rests)
- Rustic pavement with smaller pots
- Sculptural water feature with beach seat adjacent
- Trellis structure with vertical wires and climbers to frame the space









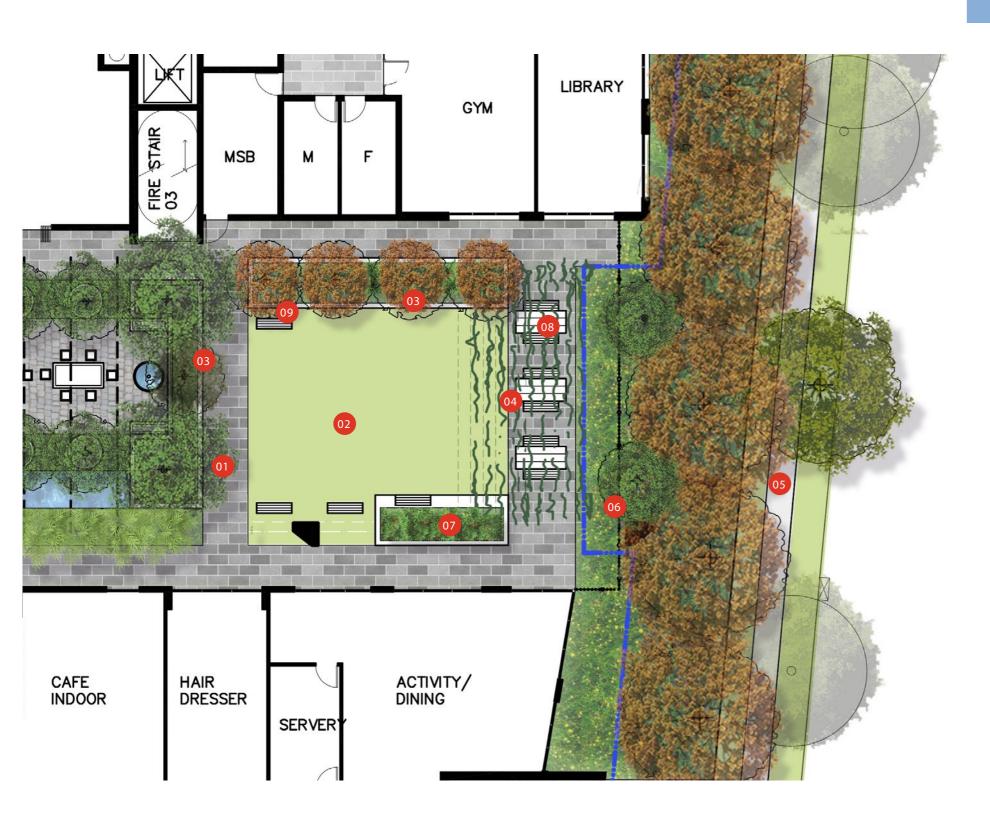
5M/ 1:100@A3



# LANDSCAPE SKETCH - ZONE 2



### **LANDSCAPE PLAN - ZONE 3**



The design of this courtyard includes a variety of mature trees, mass planting and water in order to help create a micro-climate within the development. This in turn helps address Penrith's hot summer climate offering shading and natural cooling. Furthermore, the variety of spaces provides opportunity for both summer and winter enjoyment. With open spaces and deciduous plantings, the design allows sun to enter and warm the development during winter.

### **LEGEND**

- 01 Circulation path (granite paver) with pots / planting
- Open turf area (bocce or boules)
- 1m high planter wall to ensure sufficient soil volume for optimal tree growth
- Pergola structure connected to architectural shelter
- Streetscape (outside of site boundary)
- 1.5m black palisade perimeter fence
- Wheel-chair accessible herb garden with integrated seat
- Outdoor dining tables and chairs
- Park benches with armrests + back rests









5M/ 1:100@A3



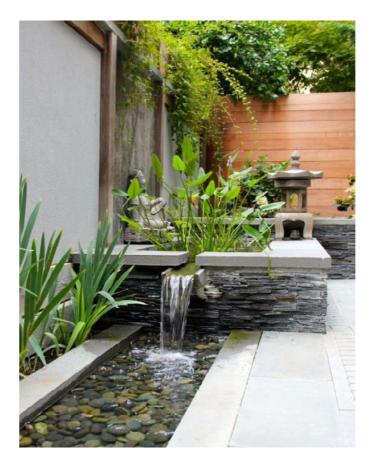
# LANDSCAPE SKETCH - ZONE 3



# PRECEDENT IMAGES



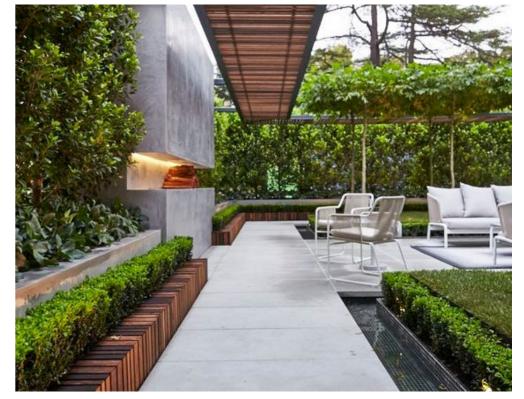




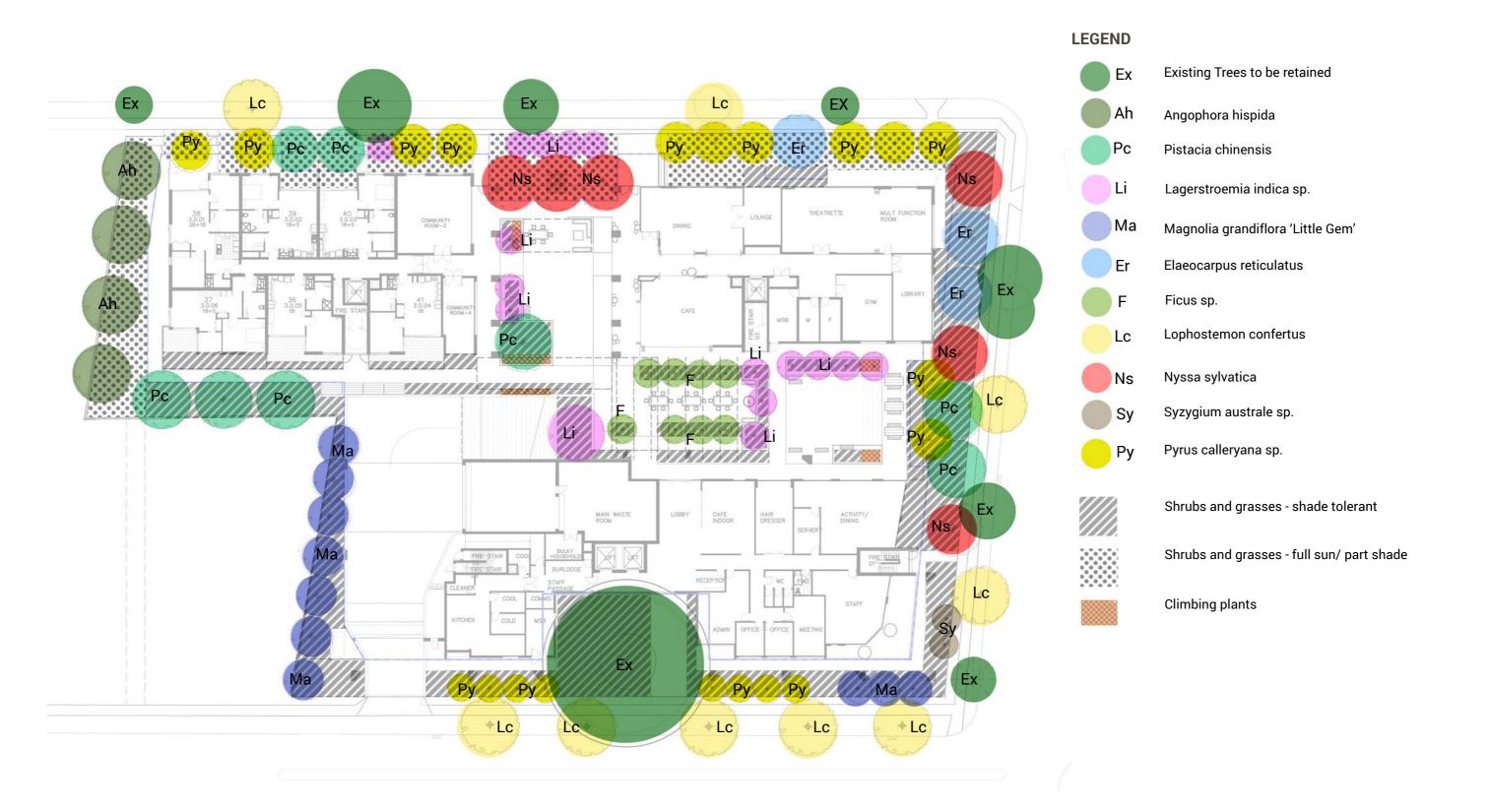








### **INDICATIVE PLANTING PLAN**



### TYPICAL PLANTING PALETTE- FULL SUN/PART SHADE

SYM

TREES

BOTANICAL NAME

Lagerstroemia indica 'Natchez'

Lagerstroemia indica 'Natchez'

Lagerstroemia indica 'Lipan'

Lagerstroemia indica 'Souix'

Angophora hispida Pistacia chinensis

Ficus sp.

COMMON NAME

Dwarf Apple

Chinese pistache

Crepe Myrtle

Crepe Myrtle

Lipan Crepe Myrtle

HEIGHT SPACING POT SIZE

As Shown

200L

200L

200L

200L

200L

15m

5m

3.5

3.5m

5m

3.5m

#### **TREES**



Lagerstroemia indica 'Lipan' (Lipan Crepe Myrtle)



Magnolia 'Little Gem' (Dwarf magnolia)



Pistacia chinesis (Chinese pistache)



Pyrus calleryana 'Chanticleer' (Ornamental Pear)

#### SHRUBS



Jasminum sambac 'Arabian Jasmine' (Arabian Jasmine)



Metrosideros 'Fiii Fire'



Murraya paniculata (Mock Orange)



Michelia figo (Port Wine Magnolia)



Rhaphiolepis delacourii Strelitzia reginae (Hybrid Indian Hawthorn)



(Bird of Paradise)

#### HEDGES



Acmena smithii (Lilly Pilly)



Acmena smithii 'Allyn Magic' (Drawf Lilly Pilly)



Euonymus 'Tom Thumb' (Euonymus Dwarf Spindle Bush)



Photinia glabra 'Rubens' (Small leaf Photinia)



Viburnum odoratissimum Westringia fruticosa (Sweet Viburnum)



'Wyngabbie Bule' (Coast Rosemary)

GROUNDCOVERS



Agapanthus 'White'



Agapanthus 'Blue'



Dietes grandiflora (Wild Iris)



Liriope muscari 'Variegata' (Turf Lily)



Trachelospermum iasminoides (Star Jasmine)

#### **TREES**



Cyathea australis (Rough Tree Fern)



Cyathea cooperi (Lacy Tree Fern)



Dicksonia antarctica (Soft Tree Fern)

### SHRUBS



Alpinia zerumbet



Asplenium australasicum (Bird's Nest Fern)



Clivia miniata (Orange Lily)



Crinum pedunculatum (Swamp Lily)



**TYPICAL PLANTING PALETTE-SHADE TOLERANT** 

SYM BOTANICAL NAME

Cyathea australis

Cyathea cooperi

Dicksonia antarctica

Elaeocarpus eumundi

Alpinia zerumbet Asplenium australasicum

Elaeocarpus reticulatus

Cordyline fruticosa rubra

Crinum pedunculatum

Doryanthes excelsa

Hedychium coronarium Indigofera australis

Macrozamia communis

Philodendron 'Xanadu'

Phormium tenax sp.

Rhapis excelsa

GRASSES & GROUND COVERS Cissus rhombifolia

Dianella caerulea

Dichondra repens

Lomandra longifolia

Viola Hederacea

Dianella tasmanica 'Tasred'

Liriope muscari "Evergreen Giant' Turf Lily

Clivia miniata

Lepidozamia peroffskyana

Cvcas revoluta

Fatsia japonica

Cordyline australis 'Red Sensation' Red Cabbage Tree

TREES & PALMS

COMMON NAME

Rough Tree Fern

Lacy Tree Fern

Soft Tree Fern

Blueberry Ash

Shell Ginger

Bird's Next Fern

Cordyline rubra

Swamp Lily

Sago palm

Gymea Lily

Japanese Fatsia

White Ginger

Austral Indigo

Burrawang

Lady Palm

Grape Ivy Kaffir Lily

Flax Lily

Flax Lilv

Kidney Grass

Matt Rush

Australian Native Violet

Pineapple Zemia

New Zealand Flax

Phildodendron 'Xanadu'

Quandong

HEIGHT SPACING POT SIZE

As Shown

As Shown

Trunk 3-4m

Trunk 1-2m

200L

200L

150mm

200mm

200mm

5L

5L

5L

5L

5L

5L

5L

5L

200mm

5L

5L

150mm

150mm

150mm

150mm

75mm Tube

150mm

150mm

150mm

25L

5m As Shown

7m As Shown

15m As Shown

4/m<sup>2</sup>

3/m²

4/m²

2/m²

4/m<sup>2</sup>

4/m²

2/m<sup>2</sup>

2/m²

3/m²

4/m²

3/m²

4/m<sup>2</sup>

4/m²

4/m²

5/m²

7m

2m

1.5m

0.5m

1.5m

1.0m

1.0m

1.0m

1.0m

1.8m

1.5m

1.5m

1.2m

1.5m

0.3m

0.6m

0.6m

0.6m

0.3m

0.7m

1.0m

0.1m

2.5m 3/m²

2.0m 2/m²

1.5m

Fatsia japonica (Japanese Fatsia)



Hedychium coronarium (White Ginger)



Lepidozamia peroffskyana (Pineapple Zamia)



Macrozamia communis



Philodendron 'Xanadu' (Philodendron Xanadu)



Rhapis excelsa (Laddy Palm)



Cissus rhombifolia (Grape Ivy)

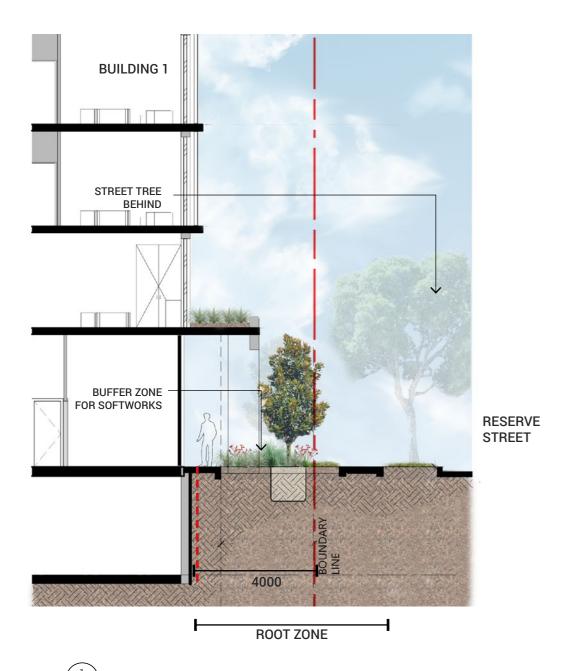


Dichondra repens (Kidney Grass)

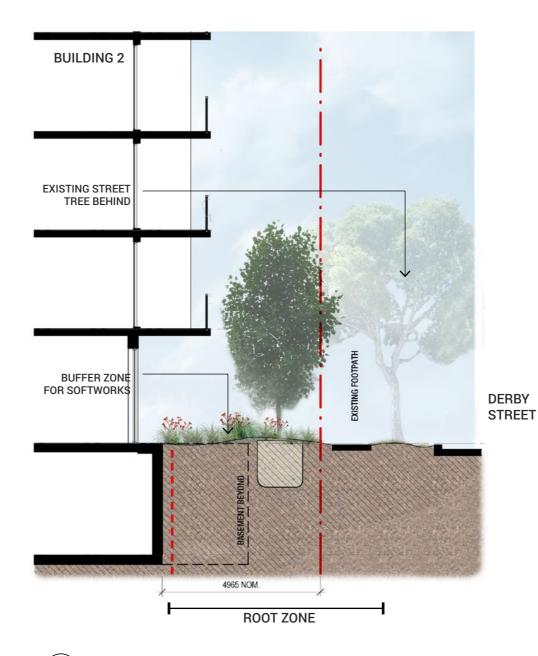


Liriope muscari "Evergreen Giant" (Turf Lily)

### **SECTIONS - TREE PLANTING IN DEEP SOIL**

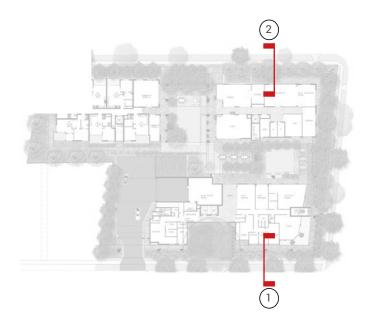


SECTION 01 - RESERVE STREET DEEP SOIL ZONE



SECTION 02 - DERBY STREET DEEP SOIL ZONE

- Minimum 2 7.16m wide planting zone from building setback to property boundary
- · Unencumbered ground plane to ensure maximum soil volume for optimal tree growth
- · Variety of planting species along street frontages including deciduous tree species to provide shade is summer and allow light to penetrate the development in winter
- Root barrier protection

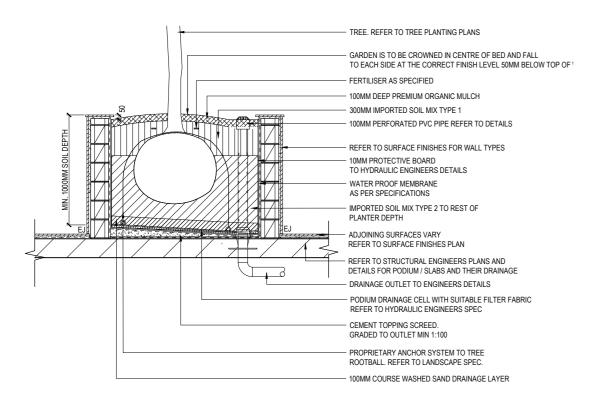


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#### GARDEN IS TO BE CROWNED IN CENTRE OF BED AND FALL TO EACH SIDE AT THE CORRECT FINISH LEVEL 50MM BELOW TOP OF WALL 100MM DEEP PREMIUM ORGANIC MULCH CONTAINERISED PLANT AS PER PLANTING SCHEDULE FERTILISER AS SPECIFIED 300MM IMPORTED SOIL MIX TYPE 1 100MM PERFORATED PVC PIPE REFER TO DETAILS 10MM PROTECTIVE BOARD TO HYDRAULIC ENGINEERS DETAILS WATER PROOF MEMBRANE AS PER ARCHITECTS SPECIFICATIONS REFER TO SURFACE FINISHES FOR WALL TYPES ADJOINING SURFACES VARY REFER TO SURFACE FINISHES PLAN REFER TO STRUCTURAL ENGINEERS PLANS AND DETAILS FOR PODIUM / SLABS AND THEIR DRAINAGE DRAINAGE OUTLIET TO ENGINEERS DETAILS PODIUM DRAINAGE CELL WITH SUITABLE FILTER FABRIC REFER TO HYDRAULIC ENGINEERS SPEC. CEMENT TOPPING SCREED MIN 20mm-MAX 50mm. GRADED TO OUTLET MIN 1:100

100MM COURSE WASHED SAND DRAINAGE LAYER

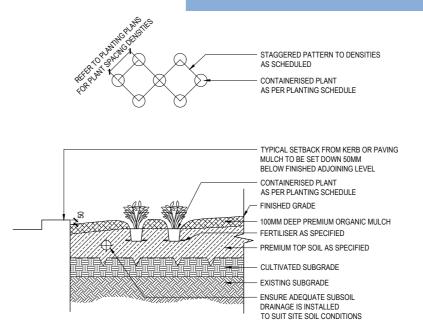
TYPICAL MASS PLANTING ON SLAB DETAIL **SCALE 1:40** 



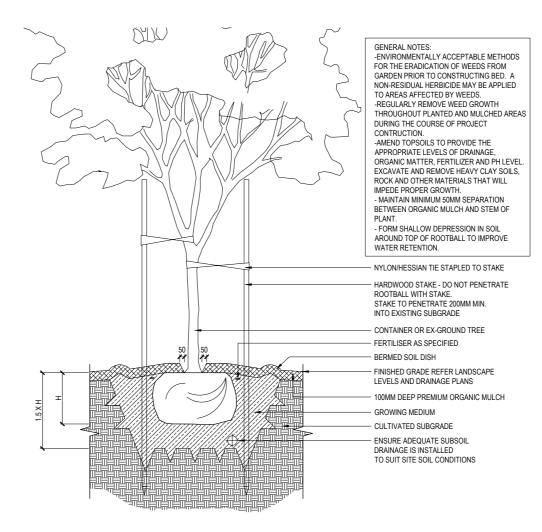
TYPICAL TREE ON SLAB DETAIL **SCALE 1:40** 

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### LANDSCAPE DETAILS

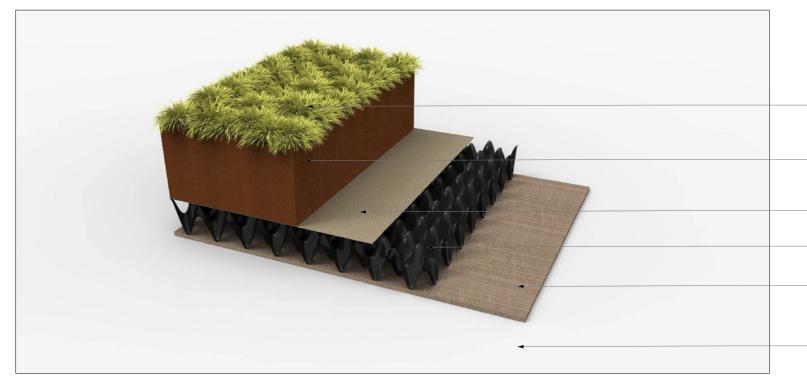


TYPICAL MASS PLANTING ON GRADE DETAIL **SCALE 1:40** 

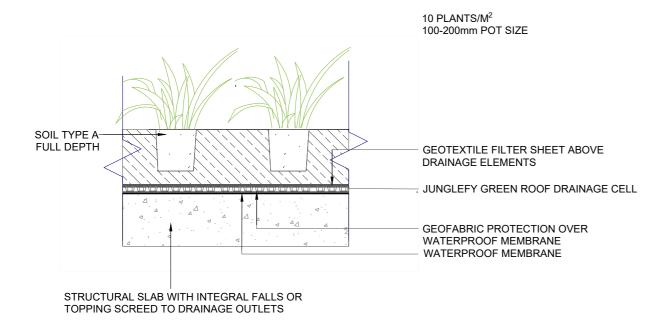


TYPICAL TREE ON GRAGE DETAIL **SCALE 1:40** 

### **ROOFTOP LANDSCAPE DETAILS**



TYPICAL ROOFTOP SOIL PROFILE AXONOMETRIC **SCALE 1:20** 



#### TYPICAL ROOFTOP SOIL PROFILE **SCALE 1:20**

\*Planting details provided by Junglefy

place design group. MASSED PLANTING - 10 PLANTS PER SQUARE METRE AS SPECIFIED BY THE DESIGNER

JUNGLEFY A-HORIZON SOIL PROFILE FROM 120-400MM. IF PROFILE GREATER THAN 400MM A JUNGLEFY B HORIZON TO REMAINDER OF DEPTH.

GEOTEXTILE FILTER SHEET TO PREVENT SOIL FROM MIXING WITH DRAINAGE SYSTEM.

JUNGLEFY GREEN ROOF DRAINAGE CELL.

GEOTEXTILE MEMBRANE PROTECTION OVER WATERPROOF MEMBRANE. NOTE: WATERPROOFING IS TO BE WARRANTIED TO 15 YEARS MINIMUM AND HAVE A ROOT INHIBITOR.

ROOF ENGINEERED TO HANDLE SATURATED GROWING MEDIA LOADS, WEIGHT OF PLANTS AND ANY LIVE LOADS FROM PEOPLE.



**BALLAST TO BUILDING 1,2 & 3** 

Material: Washed River pebble Colour: Hunter River

Size: Minimum 50mm and 80kg/m2

# 3000 - 200 x 200MM AUSTRALIAN HARDWOOD TIMBER POST AT 3000MM CENTRES SEALED AND - 50 x 8MM ALUMINUM BAR BATTENS WELDED TO 70X40MM RHS RAILS. FINISH: BLACK POWDER COATED REINFORCED CONCRETE FOOTING TO ENGINEERS DETAILS

1.2-1.5M HIGH BOUNDARY FENCE - BLACK PALISADE WITH HARDWOOD TIMBER PIERS SCALE 1:20



# **FENCE DETAIL**