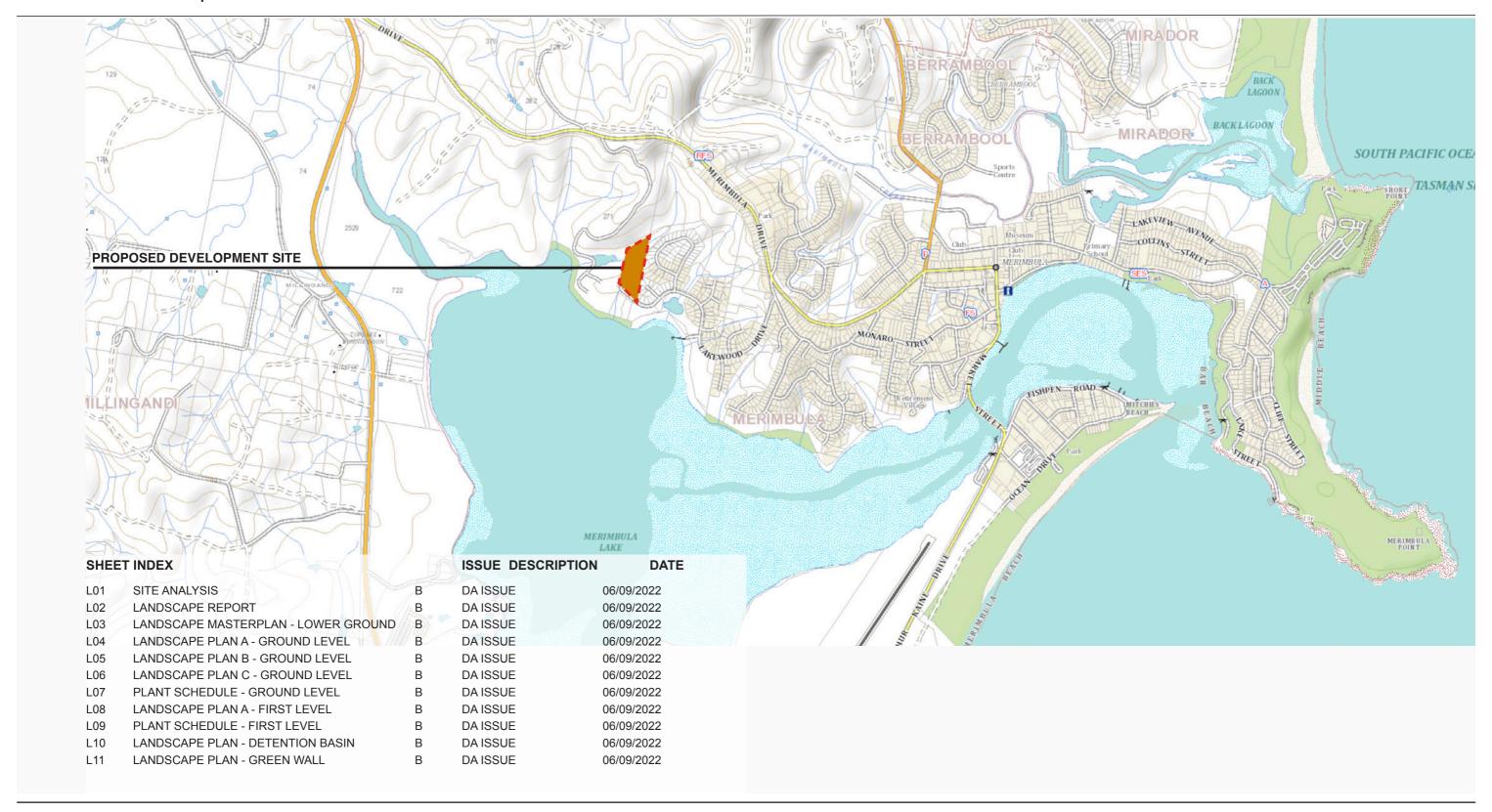
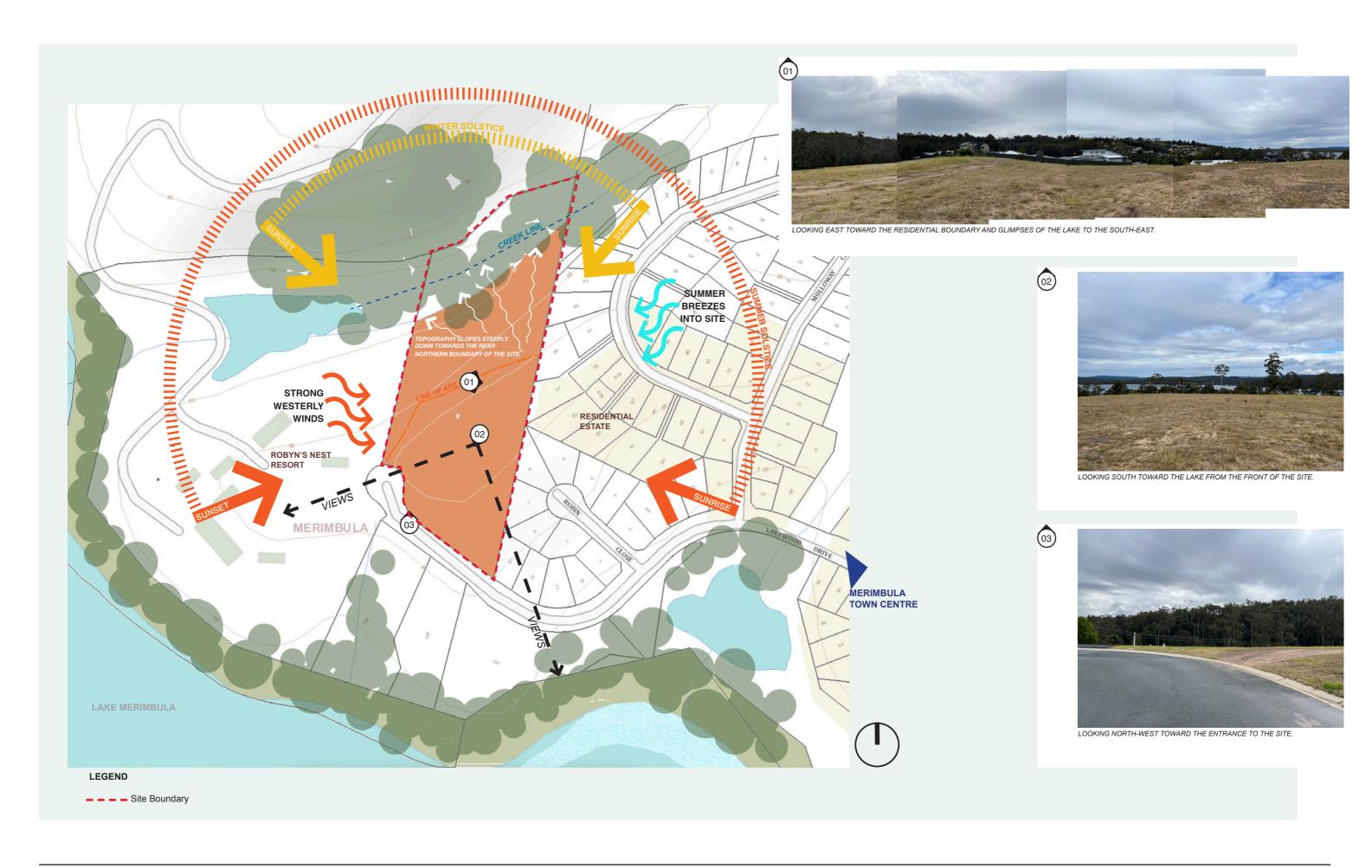
# Lot 3 Lakewood Drive, MERIMBULA

Lot 602 / DP1277714

# Development Application Landscape Documentation





DATE:

### LOT 3 LAKEWOOD DRIVE, MERIMBULA

LOT 602/ DP1277714

LAND ZONING: C2 ENVIRONMENTAL CONSERVATION LAND ZONING: R3 MEDIUM DENSITY RESIDENTIAL LAND ZONING: C3 ENVIRONMENTAL MANAGEMENT

### **PROPOSAL**

The project proposes to develop a Senior's Living development. The landscape documentation attached is in support of the Development Application. The landscape proposal comprises of deep soil planting and planters on the ground level and planting areas on level one.

### THE SITE

The project site ('the site'), consists of an irregular shaped lot, which is accessed by Lakewood Drive in Merimbula. Topographically the site falls from the highest point on it's southern boundary and falls very steeply on the rear third portion, down to a creekline which runs along the northern boundary. The majority of the existing vegetation is situated through this northern riparian portion, and is proposed to be retained. An Asset Protection Zone has been established for the 140m from the northern boundary (Refer Bush Fire Report for details). The site affords expansive views to the south towards the lake. Robyn's Nest Resort adjoins the site to the west and residential dwellings adjoin the site to the east. Screening along these boundaries will need to considered in the landscape approach for this project.

### PROPOSED LANDSCAPE APPROACH

Proposed landscape areas include planting on the ground plane (which will include deep soil planting) and also on Level One. These areas provide the opportunity to provide vegetation which will assist in visually softening the bulk and scale of the development and improve the greening outcome for the development.

The existing site characteristics have been considered to form a proposal which aims to create an attractive, functional and aesthetically pleasing landscape. The following general principles include:

- Utilise a planting palette of proven performing plants; chosen for being suited to the local climatic conditions. The proposed species are hardy, whilst also easily managed and maintained.
- Incorporate a diverse planting palette that utilises several species for each application, to ensure seasonal variation and allow for a consistent level of amenity in the instance one species under-performs.
- The combination of species have been chosen for their bold and interesting texture, form and colour; which provide a high quality amenity for the residents.
- Provide sufficient soil depths within the constraints of the site to ensure a healthy, productive and verdant landscape.
- Provision of screen planting, particularly on the boundaries adjoining existing residential properties, to assist in visually reducing the bulk and scale of the development.
- · Be robust, suited to the available aspect, work with ambient wind and light levels and minimise maintenance and water use.
- Proposed landscaping around the development site is to achieve the principles listed in Appendix 4 of Planning for Bush Fire Protection 2019.

### PLANTING SPECIFICATION

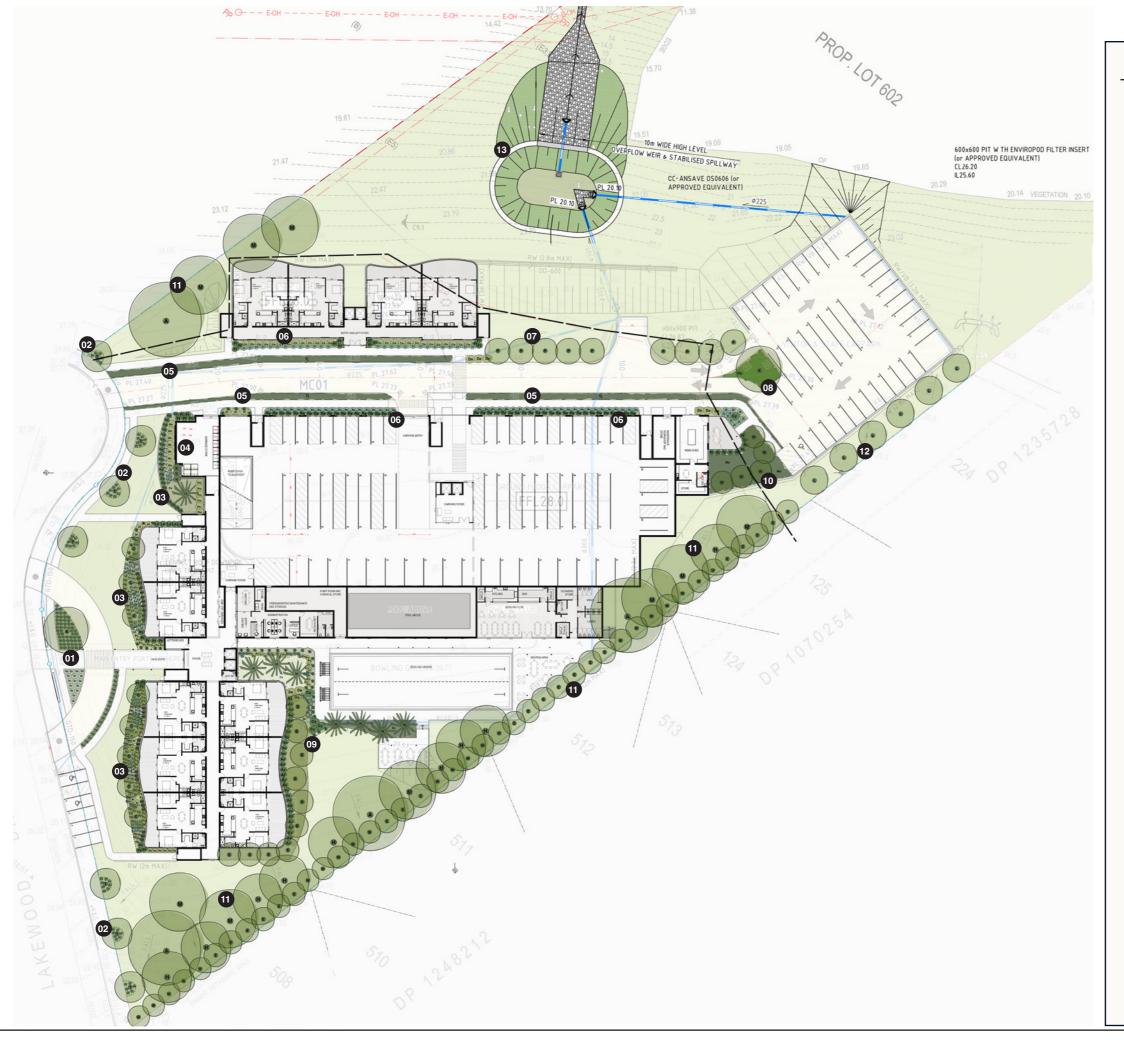
- Planter areas around the perimeter of the buildings on the Ground Floor and also on the upper Level One area shall have a minimum soil depth of 0.8m to support the growth of the plant species selected.
- Soil is to be a quality garden soil mix.
- Supply and install 75mm of hardwood horticultural grade mulch to the planting bed area, set down 25mm from the top of the planter edge.
- Plants shall be vigorous, well established, of good form consistent with the species or variety, not soft of forced and free of disease and insect pests. Roots shall be large, healthy root systems with no evidence of having been restricted on growth or damaged. Root system shall be well balanced in relation to the size of the plant.

### MAINTENANCE

This proposal attempts to provide verdant planted areas with the need to ensure that these plantings have longevity within a low-maintenance environment. For this reason the landscape approach seeks to use a robust palette of proven performing plants chosen for being suited to the local climatic conditions, tolerant of low water conditions and ambient light levels.

Ongoing maintenance schedule:

- 1. All landscape areas to be hand watered once a week during summer and every three weeks during winter.
- 2. Remove any dead, broken or spent parts of plants.
- 3. Regular fertilising of all raised planter areas to achieve a healthy and vigorous growth. Organic slow release fertiliser to be used in all raised planters.
- 4. Check for infestations and plant diseases.
- 5. Check surface drain inlets in landscaped areas for plant debris.
- 6. Spill over plants in all perimeter planters will need to be strategically maintained.



### **LEGEND**

### ----

PROPERTY BOUNDARY LINE



PROPOSED PLANTING Refer Planting Schedule

PROPERTY ASSET PROTECTION ZONE

LARGE SPECIMEN TREE (refer Plant Schedule)

proposed as a focal point, with mass planting beneath.

TREES to line the front boundary. *Tristaniopsis* 'Luscious' with *Dianella sp.* mass planted beneath.

MASS PLANTED front garden beds to be a mix of suitable trees and shrubs, which will provide year round

GREEN WALL to be mass planted with a suitable selection of species suited to the local climatic conditions and vertical application. Wall to soften the building frontage.

GROUND COVERS to be mass planted along driveway entrance. Refer Plant Schedule.

66 ENTRANCE GARDENS to be soften the driveway entrance. Refer Plant Schedule.

SCREEN TREES (Illawarra Plum) to line the northwestern drive and provide a screen to the detention

LARGE SPECIMEN TREE with mass planting to provide amenity to the car park area.

NORTHERN PLANTING bed to be mass planted with a mix of screen trees and palms, chosen for their interesting form and visual diversity. Mass planting beneath of hardy, low maintenance species.

SCREEN PLANTING to the northern planting bed, including Waterhousea sp.

PROPOSED BUFFER PLANTING along the residential boundaries, a mix of natives at varying sizes and forms to be staggered to simulate a natural setting aimed at visually screening the building.

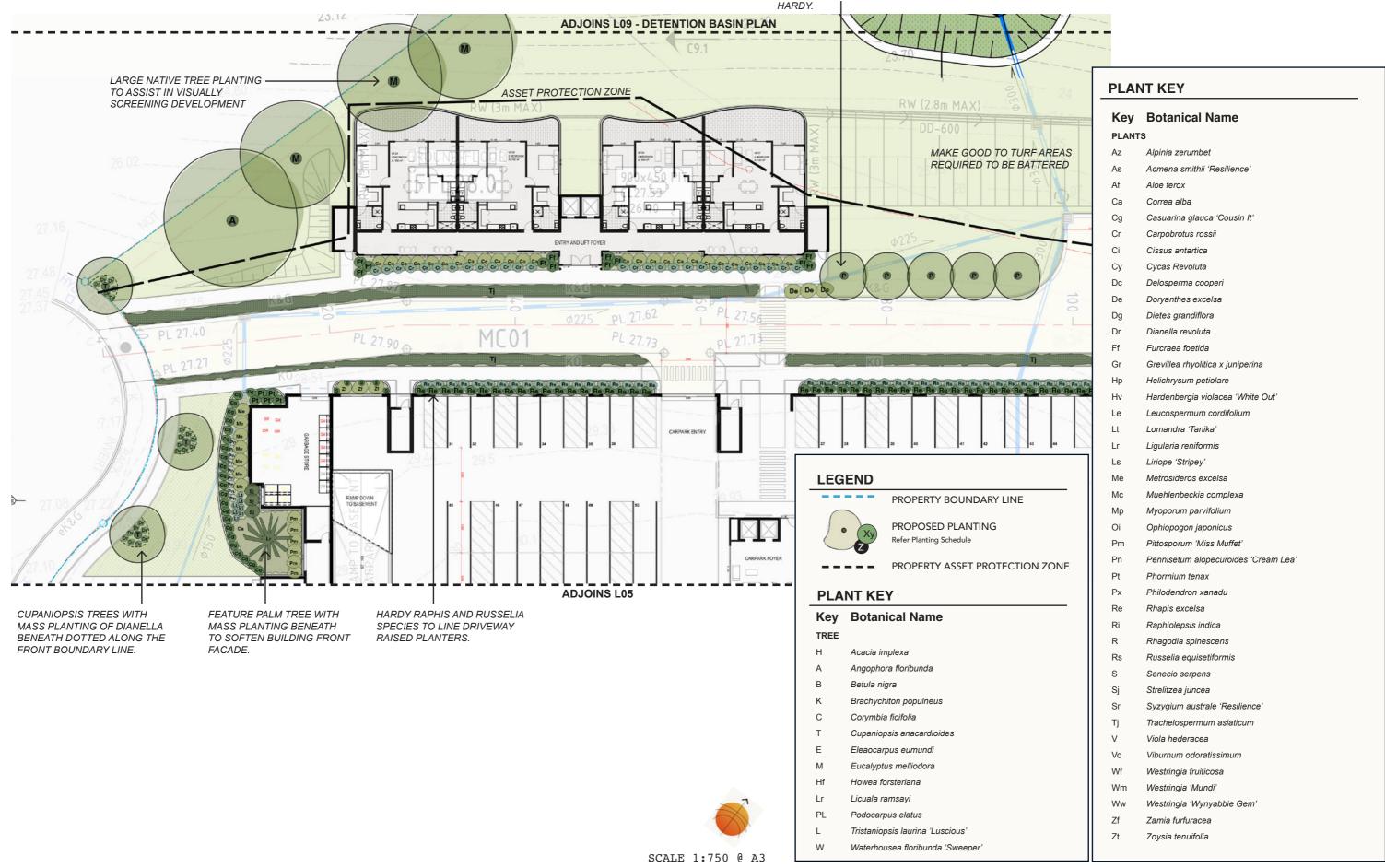
CAR PARK tree planting to be suitably spaced to ensure a discontinuous gap between the canopies within the APZ.

DETENTION BASIN to be planted with suitable plant species.



SCALE 1:1500 @ A3

PODOCARPUS TREES AS A VISUAL SCREEN CHOSEN FOR BEING FAST GROWING AND

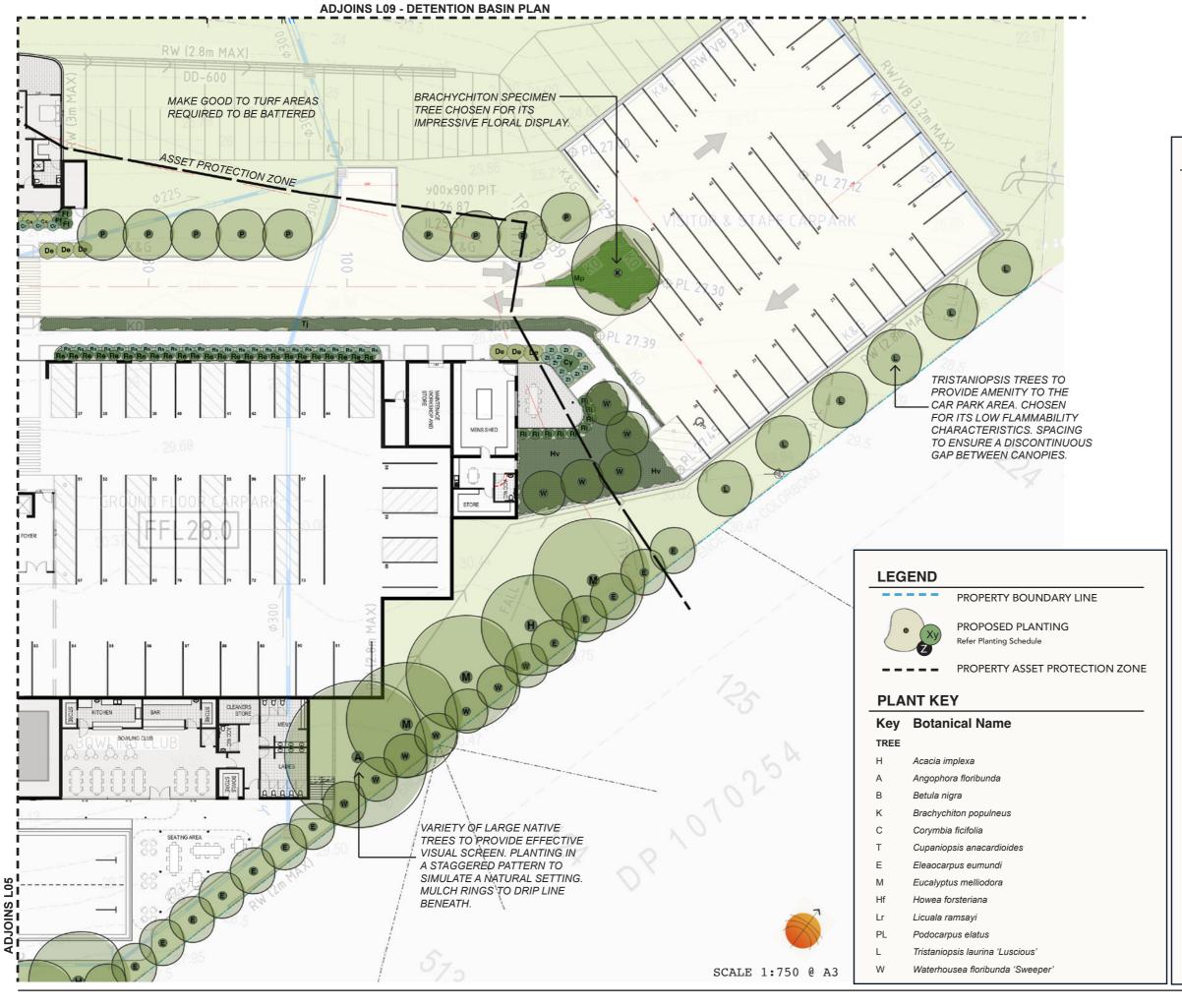


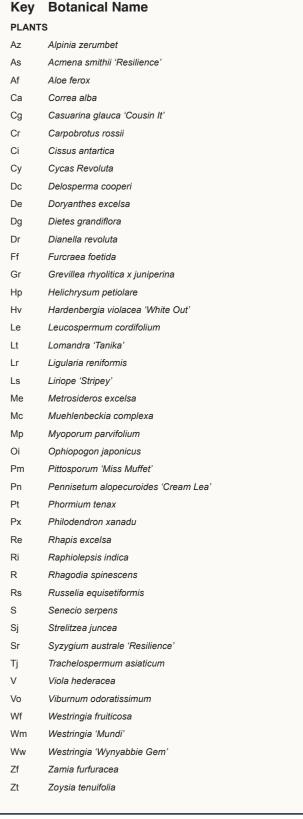




**PLANT KEY** 

ADJOINS L04

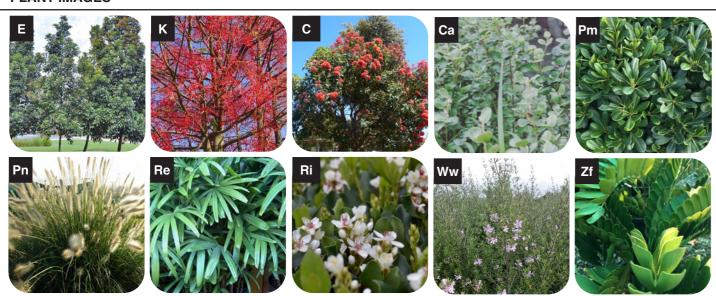




**PLANT KEY** 

Key	<b>Botanical Name</b>	Common Name	Pot Size	Mature Height	Mature Width
TREE			0.20	. ioigin	***************************************
Н	Acacia implexa	Hickory Wattle	45L	10m	6m
Α	Angophora floribunda	Rough barked Apple	45L	15m	10m
В	Betula nigra	Birch	45L	10m	6m
K	Brachychiton populneus	Kurrajong	45L	20m	8m
С	Corymbia ficifolia	Dwarf Flowering Gum	45L	6m	3m
Т	Cupaniopsis anacardioides	Tuckeroo	45L	8m	5m
E	Eleaocarpus eumundi	Quandong Tree	45L	7m	2m
M	Eucalyptus melliodora	Yellow Box	45L	15m	10m
Hf	Howea forsteriana	Kentia Palm	45L	15m	4m
Lr	Licuala ramsayi	Australian Fan Palm	45L	15m	5m
PL	Podocarpus elatus	Illawarra Plum Tree	45L	12m	7m
L	Tristaniopsis laurina 'Luscious'	Luscious	45L	12m	5m
W	Waterhousea floribunda 'Sweeper'	Sweeper	45L	8m	5m

### PLANT IMAGES



Key	Botanical Name	Common Name	Pot Size	Mature Height	Mature Width
PLAN	ITS		0.20		
Az	Alpinia zerumbet	Green Shell Ginger	140mm	2.5m	1.2m
As	Acmena smithii 'Resilience'	Resilience	140mm	2.0m	1.5m
Af	Aloe ferox	Aloe	140mm	2.0m	2.0m
Ca	Correa alba	White Correa	140mm	1.5m	1.5m
Cg	Casuarina glauca 'Cousin It'	Cousin It	140mm	0.1m	1.0m
Cr	Carpobrotus rossii	Pigface	140mm	0.1m	1.0m
Ci	Cissus antartica	Kangaroo Vine	140mm	0.2m	1.0m
Су	Cycas Revoluta	Sago Palm	140mm	2.0m	2.0m
Dc	Delosperma cooperi	Ice Plant	140mm	0.1m	0.6m
De	Doryanthes excelsa	Gymea Lily	140mm	1.5m	1.5m
Dg	Dietes grandiflora	Wild Iris	140mm	1.2m	1.2m
Dr	Dianella revoluta	Flax Lily	140mm	0.8m	0.8m
Ff	Furcraea foetida	Mauritius Hemp	140mm	2.0m	2.0m
Gr	Grevillea rhyolitica x juniperina	Cherry Cluster	140mm	0.3m	1.0m
Нр	Helichrysum petiolare	Licorice Plant	140mm	0.5m	1.5m
Hv	Hardenbergia violacea 'White Out'	False Sarsparilla	140mm	0.4m	2.0m
Le	Leucospermum cordifolium	Pin-cushion	140mm	1.5m	1.5m
Lt	Lomandra 'Tanika'	Tanika	140mm	0.8m	0.8m
Lr	Ligularia reniformis	Tractor Plant	140mm	0.7m	0.7m
Ls	Liriope 'Stripey'	Stripey White	140mm	0.5m	0.5m
Me	Metrosideros excelsa	Dwarf NZ Christmas Bush	140mm	2.0m	1.0m
Mc	Muehlenbeckia complexa	Maidenhair Vine	140mm	0.2m	2.0m
Мр	Myoporum parvifolium	Creeping Boobialla	140mm	0.2m	1.0m
Oi	Ophiopogon japonicus	Giant Mondo Grass	140mm	0.2m	0.2m
Pm	Pittosporum 'Miss Muffet'	Miss Muffet	140mm	1.2m	1.2m
Pn	Pennisetum alopecuroides 'Cream Lea'	Fountain Grass	140mm	0.7m	0.7m
Pt	Phormium tenax	New Zealand Flax	140mm	1.5m	1.5m
Px	Philodendron xanadu	Xanadu	140mm	0.9m	0.9m
Re	Rhapis excelsa	Lady Pam	140mm	1.5m	1.5m
Ri	Raphiolepsis indica	Indian Hawthorn	140mm	2-4m	1.5m
R	Rhagodia spinescens	Saltbush	140mm	0.5m	1.0m
Rs	Russelia equisetiformis	Fountain Plant	140mm	1.2m	1.2m
S	Senecio serpens	Blue Chalksticks	140mm	0.2m	1.0m
Sj	Strelitzea juncea	Rush Leaf Bird of Paradise	140mm	1.2m	1.0m
Sr	Syzygium australe 'Resilience'	Lily Pily	140mm	3-5m	2m
Tj	Trachelospermum asiaticum	Asiatic Jasmine	140mm	0.2m	1.0m
V	Viola hederacea	Native Violet	140mm	0.1m	0.5m
Vo	Viburnum odoratissimum	Sweet Viburnum	140mm	4.0m	2.0m
Wf	Westringia fruiticosa	Coastal Rosemary	140mm	2.5m	1.5m
Wm	Westringia 'Mundi'	Mundi	140mm	0.4m	0.1m
Ww	Westringia 'Wynyabbie Gem'	Coastal Rosemary	140mm	2m	2m
Zf	Zamia furfuracea	Cardboard Palm	140mm	1.0m	1.0m
Zt	Zoysia tenuifolia	Velvet Grass	140mm	0.1m	0.4m

ISSUE:







PROPOSED PLANTING Refer Planting Schedule

### **PLANT KEY**

### **Key Botanical Name TREES**

Banksia integrifolia

Howea forsteriana

## **PLANT KEY**

## **Key Botanical Name PLANTS**

Aloe 'Bush Baby Yellow'

Aptenia cordifolia

Aspidistra elatior

Aloe 'Ferox'

Alpinia zerumbet Αz

Br Alcantarea imperialis rubra

Casuarina 'Cousin It' Сс

Cg Carpobrotus 'aussie rambler

Cd Cordyline australis

Crassula ovata 'max cook'

### **PLANT KEY**

### **Key Botanical Name**

### **PLANTS**

Су Cycas Revoluta

Dianella caerulea

De Doryanthes excelsa

Et Euphorbia tirucalli

Ff Furcraea foetida

Helichrysum petiolare Kb Kalanchoe hildebrandtii 'Silver Spoons'

Lt Lomandra 'Lime Tuff' Mc Muehlenbeckia complexa

Ophiopogon japonicus

### **PLANT KEY**

### **Key Botanical Name**

Pandorea jasminoides

Pittosporum 'Miss Muffet'

Pennisetum alopecuroides 'Cream Lea'

Philodendron xanadu

Senecio crassissimus

Strelitzea juncea

Trachelospermum asiaticum

Zoysia tenuifolia

Viola hederacea Zt



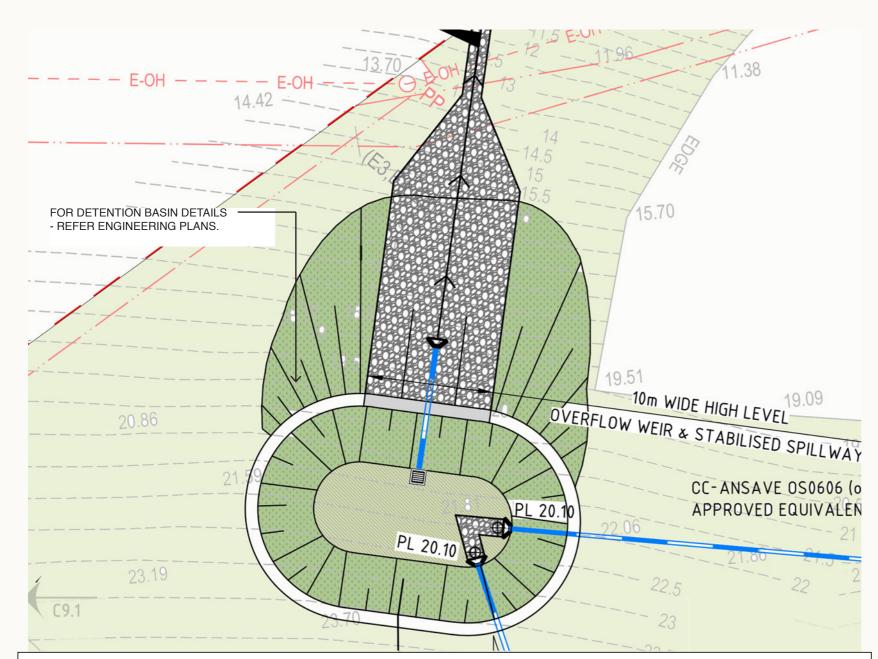
SCALE 1:600 @ A3

PLANT SCHEDULE PLANT IMAGES

Key	Botanical Name	Common Name	Pot Size	Mature Height	Mature Width
TREE					
В	Banksia integrifolia	Coast Banksia	45L	6m	3m
Hf	Howea forsteriana	Kentia Palm	45L	15m	4m
PLAN	ITS				
Ab	Aloe 'Bush Baby Yellow'	Bush Bay Yellow	140mm	0.4m	0.4m
Ac	Aptenia cordifolia	Desert Rose	140mm	0.1m	1.0m
Ae	Aspidistra elatior	Cast Iron Plant	140mm	1.2m	1.5m
Af	Aloe 'Ferox'	Bitter Aloe	140mm	1.0m	1.0m
Az	Alpinia zerumbet	Green Shell Ginger	140mm	2.5m	1.2m
Br	Alcantarea imperialis rubra	Giant Bromeliad	140mm	1.5m	1.5m
Сс	Casuarina 'Cousin It'	Cousin It	140mm	0.2m	1.0m
Cg	Carpobrotus 'aussie rambler '	Aussie Rambler	140mm	0.3m	1.0m
Cd	Cordyline australis	Cabbage Tree	140mm	2.4m	1.5m
Cm	Crassula ovata 'max cook'	Max Cook	140mm	0.5m	0.5m
Су	Cycas Revoluta	Sago Palm	140mm	2.0m	2.0m
Dc	Dianella caerulea	Blue Flax Lily	140mm	0.6m	0.6m
De	Doryanthes excelsa	Gymea Lily	140mm	20m	2.0m
Et	Euphorbia tirucalli	Firesticks	140mm	2-3m	1.0m
Ff	Furcraea foetida	Mauritius Hemp	140mm	2.0m	2.0m
Нр	Helichrysum petiolare	Licorice Plant	140mm	0.3m	1.0m
Kb	Kalanchoe hildebrandtii 'Silver Spoons'	Silver Spoons	140mm	1.0m	1.0m
Lt	Lomandra 'Lime Tuff'	Lime Matt Grass	140mm	0.5m	0.5m
Мс	Muehlenbeckia complexa	Maidenhair Vine	140mm	0.3m	1.0m
Oi	Ophiopogon japonicus	Giant Mondo Grass	140mm	0.2m	0.2m
Pj	Pandorea jasminoides	Pandorea	140mm	0.3m	1.0m
Pm	Pittosporum 'Miss Muffet'	Miss Muffet	140mm	1.2m	1.2m
Pn	Pennisetum alopecuroides 'Cream Lea'	Fountain Grass	140mm	0.7m	0.7m
Px	Philodendron xanadu	Xanadu	140mm	0.7m	0.7m
Sc	Senecio crassissimus	Vertical Leaf Senecio	140mm	0.7m	0.5m
Sj	Strelitzea juncea	Rush Leaf Bird of Paradise	140mm	1.2m	1.0m
Та	Trachelospermum asiaticum	Asiatic Jasmine	140mm	0.2m	1.0m
V	Viola hederacea	Native Violet	140mm	0.1m	0.5m
Zt	Zoysia tenuifolia	Velvet Grass	140mm	0.1m	0.4m



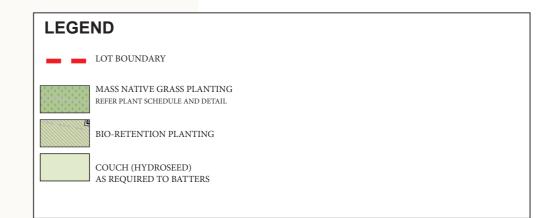




### NATIVE PLANTING SPECIFICATION

TUBESTOCK IS THE PREFERRED METHOD OF RE-VEGETATION, CARRIED OUT USING HAND TREE PLANTING TOOLS WITH THE FOLLOWING METHOD:

- 1. RAKE AWAY AREA TO EXPOSE SOIL;
- 2. DIG HOLE AT LEAST TWICE SIZE OF POT;
- 3. DISTURB THE SURROUNDING SUBSTRATE (UP TO 100MM) TO AVOID 'CLEAN' SIDES AND BASE OF HOLE;
- 4. WHERE REQUIRED ADD A SLOW RELEASE FERTILISER AND WETTING AGENT TO THE BASE OF THE HOLE. COVER WITH EXISTING SOIL TO ENSURE THE PLANT ROOTS DO NOT COME IN DIRECT CONTACT WITH THE FERTILISER AND WETTING AGENT:
- 5. PLACE THE PLANT IN THE HOLE SLIGHTLY BELOW SOIL LEVEL AND BACK-FILL THE HOLE;
- 6. REPLACE MULCH AND MAINTAIN SPACE AROUND TRUNK SO IT IS KEPT CLEAR OF MULCH:
- 7. ERECT 'GROW TUBE' AROUND EACH PLANT. REMOVE 'GROW TUBES' WHEN THE PLANTS ARE 1.5 TIMES THE HEIGHT OF THE 'GROW TUBE'
- 8. WOODEN STAKES IDEALLY SHOULD BE PLACED NEXT TO ALL TREE AND LARGE SHRUB SPECIES, TO PREVENT INCIDENTAL DAMAGE TO PLANTS DURING MAINTENANCE ACTIVITIES. TREE GUARDS SHOULD BE PLACED OVER THE NEWLY PLANTED SEEDLINGS TO PROVIDE PROTECTION FROM GRAZING ANIMALS DURING THE PLANT ESTABLISHMENT PERIOD.
- 9. WATER PLANTS THOROUGHLY WITHING 1 HOUR OF PLANTING.
- 10. SPRING IS THE PREFERRED TIME FOR PLANTING TO ALLOW FOR STRONG ESTABLISHMENT OF THE ROOT STRUCTURE AND PROMOTE GOOD PLANT GROWTH.



BIO-RETENTION	I PLANTING SCHED	ULE
DOTANICAL NAME	COMMON NAME	DOT

BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT
Baumea articulata	Jointed Twig Rush	Tube	2.5m
Baumea rubiginosa	Twig Rush	Tube	2.5m
Fimbristylis dichotoma	Common Fringe Sedge	Tube	1.0m
Lepironia articulata	Grey Sedge	Tube	2.0m

SPECIFICATION: DENSITY PLANTING OF 4 PLANTS PER M2 MIX OF THE ABOVE SPECIES PLANT IN SPECIES GROUPS OF 3-5.

### **NATIVE GRASS - PLANTING SCHEDULE**

REFER SPECIFICATION FOR PLANTING DETAILS

BOTANICAL NAME	COMMON NAME	POT SIZE
Austrodanthonia fulva	Wallaby Grass	Tubestock
Dichelachne micranthe	Plum Grass	Tubestock
Echinopogon caespitosus	Hedgehog Grass	Tubestock
Poa labillardieri	Tussock Grass	Tubestock
Themeda australis	Kangaroo Grass	Tubestock

SPECIFICATION: DENSITY PLANTING OF 6 PLANTS PER M2 MIX OF THE ABOVE SPECIES. PLANT IN SPECIES GROUPS OF 3-5.





### PLANT LAYOUT

# Ab Lc Wm Ad Lc Lt Nd Nd Ab Px Lc Ad Ab

### LANDSCAPE APPROACH

- 1. PLANTING SYSTEM SUBJECT TO DETAILED DESIGN FYTO GREEN OR EQUIVALENT.
- 2. SPECIES CHOSEN FOR THEIR SUITABILITY TO THIS APPLICATION AND THE LOCAL CLIMATIC CONDITIONS.
- 3. A MIX OF SPECIES HAS BEEN CHOSEN IN THE INSTANCE ONE UNDER PERFORMS.

### **PLANT SCHEDULE**

	Key	Botanical Name	Common Name	Mature Height	Mature Width		
PLANTS							
	Ab	Aloe 'Bush Baby Yellow'	Bush Baby Yellow	0.4m	0.4m		
	Ad	Alternantha dentata 'Little Ruby'	Little Ruby	0.4m	0.6m		
	Lm	Liriope muscari	Isabella	0.5m	0.5m		
	Lc	Lomandra hystrix 'Cascade	Cascade	0.6m	0.6m		
	Lt	Lomandra 'Tanika'	Tanika	0.7m	0.7m		
	Px	Philodendron xanadu	Xanadu	0.7m	0.7m		
	Мр	Myoporum parvifolium 'Yareena'	Yareena	0.2m	1.0m		
	Nd	Nandina domestica 'Blush'	Sacred Bamboo	0.7m	0.7m		
	Pq	Parthenocissus quinquefolia	Virginia Creeper	0.2m	1.0m		
	Wm	Westringia fruiticosa 'Mundi'	Coastal Rosemary	0.5m	0.7m		

### **PLANT IMAGES**



PROJECT NO.

GSP210320 - DA