

309 KING STREET NEWCASTLE

LANDSCAPE DEVELOPMENT APPLICATION

Project Number: S18-011
Project Address: 309 KING STREET, NEWCASTLE

Revision	Issue	Date	Ву	Checked
A	FOR APPROVAL	05.04.2019	AS	TM
В	FOR APPROVAL	08.04.2019	AS	TM

OCULUS

Urban Design

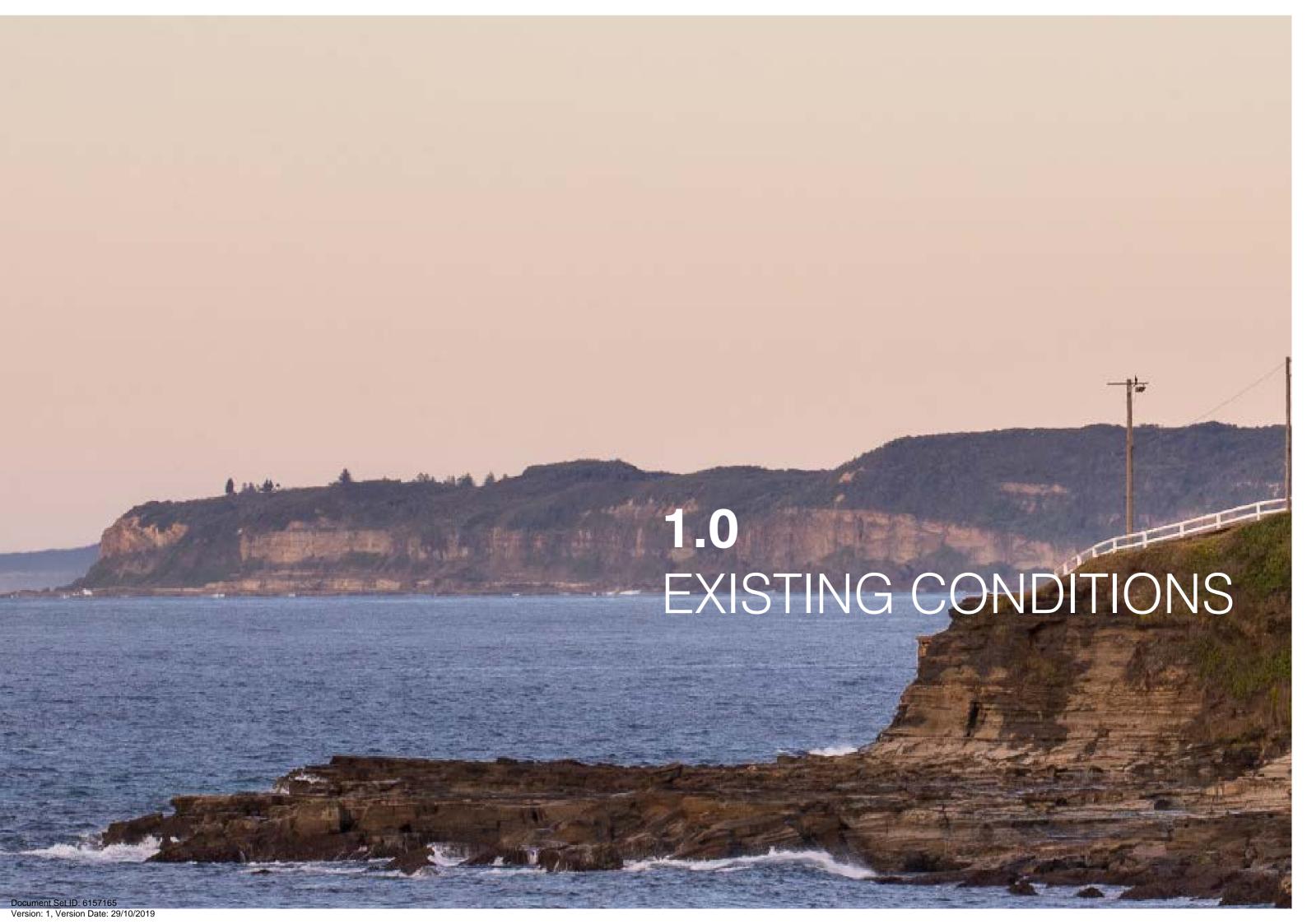
Environmental Planning

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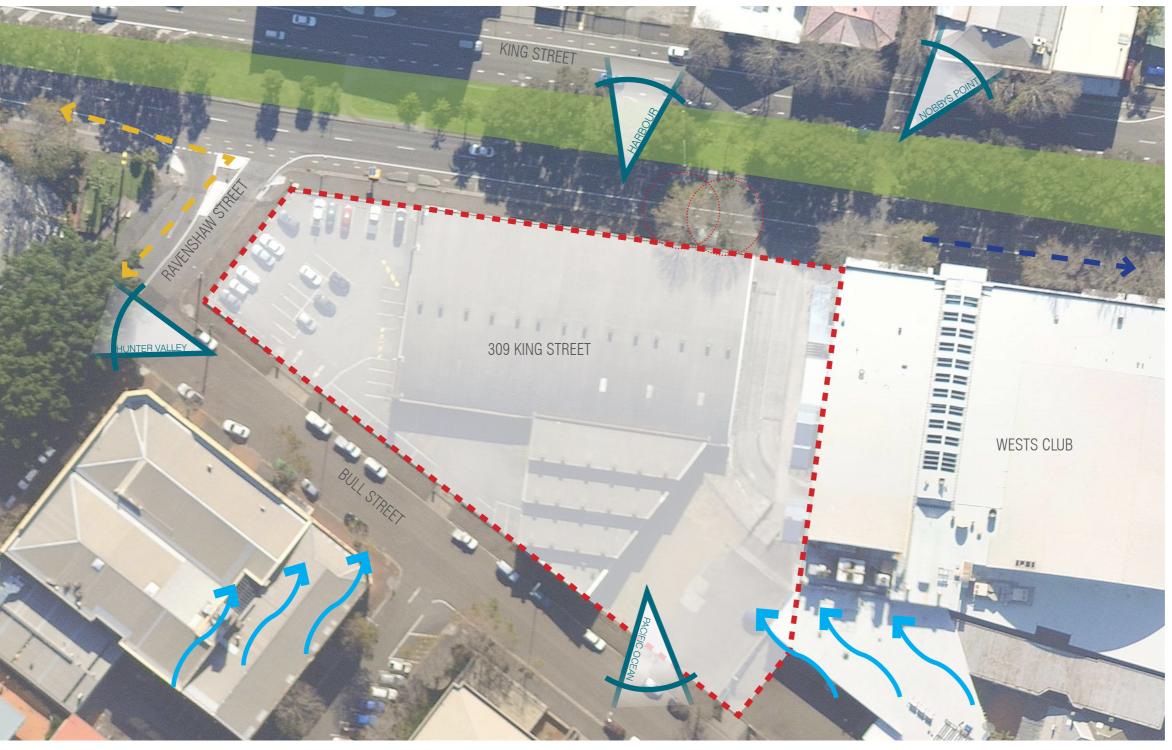
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SITE PLAN 1.1



LEGEND

Subject site





■ Connectivity to existing and future civic



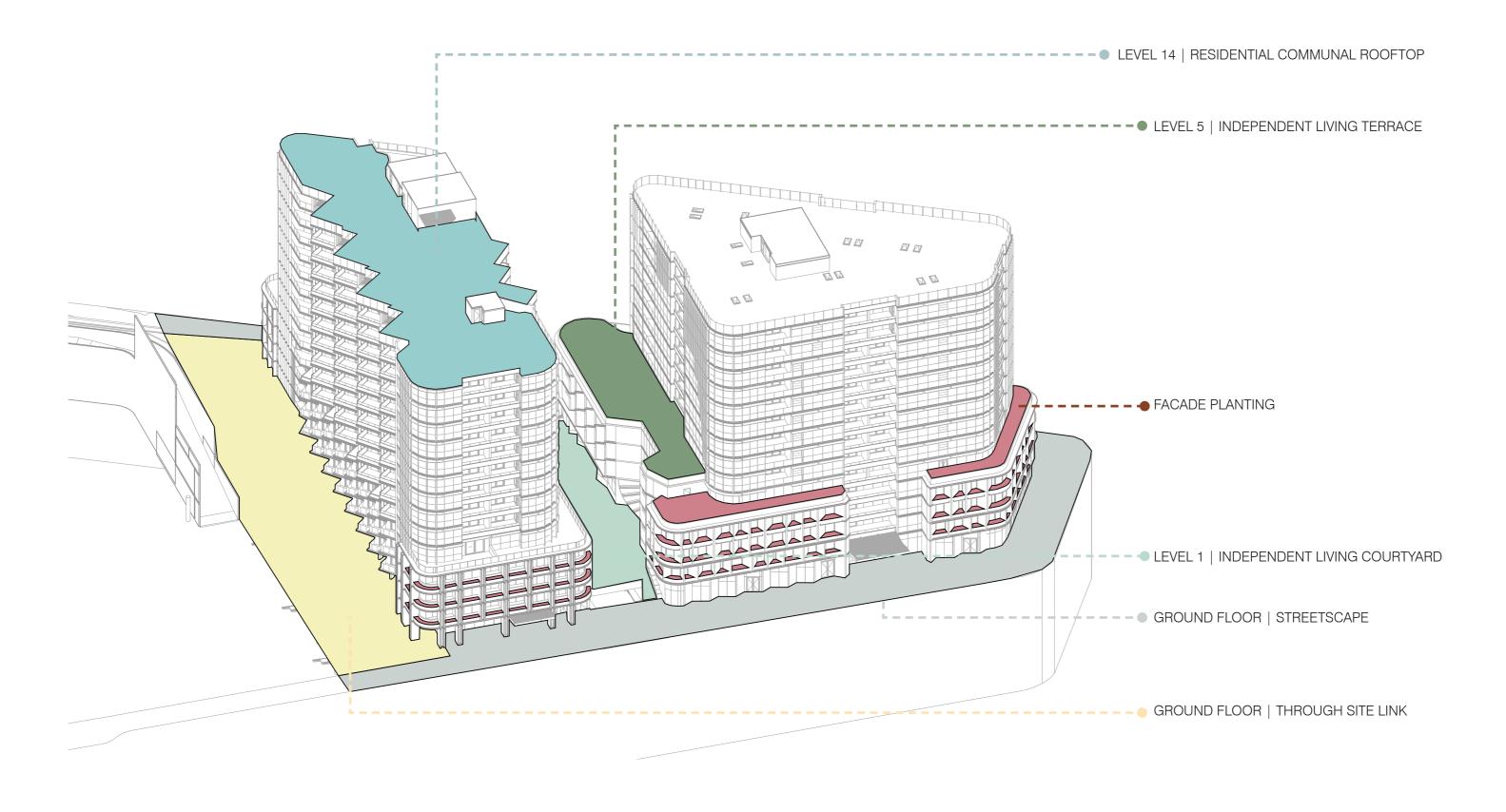








2.1 LANDSCAPE SPACES



DESIGN PRINCIPALS

- HIGH QUALITY HARDSCAPE
- SIMPLE ROBUST URBAN MATERIALS
- STREET TREES

CIVIC SPACE

 GREEN EDGES SHADE AND SHELTER

SAFETY

- PLANTED EDGES
- OPEN CIRCULATION
- SIMPLE STREET FURNITURE

PUBLIC SEATING OPPORTUNITIES

CLEAR VISUAL CONNECTIONS















STREETSCAPE

• SPACES FOR SANCTUARY

EQUATABLE ACCESS

- CONNECTION TO NATURE
- VIEWS TO THE COAST AND CITY
- SPACES FOR ENTERTAINING
- COMMUNAL GATHERING SPACES
- LUXURY

RELAXATION

PEACE AND QUIET



















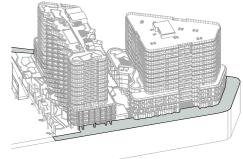
- GREEN OUTLOOK
- BIOPHILIA PRINCIPLES
- GREEN EDGES
- SIMPLE AND SAFE BALCONIES

GROUND FLOOR | GREEN SETBACK AND STREETSCAPE

GREEN SETBACK AND STREETSCAPES | PLAN



KEY PLAN



LEGEND

Streetscape paving



Granite unit paving



Decking



Lawn



Mass planting



Proposed tree planting

KEY FEATURES

Refer 2.4 Through Site Link

Refer 2.4 Independent living courtyard

King St trees Caesalpinia ferrea

Ravenshaw St trees Elaeocarpus eumundii

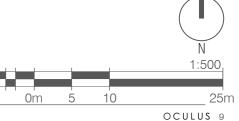
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Bull St trees Lophostemon

Low shrubs and grasses green

Existing London Plane trees

to be removed (Platanus acerifolia)



GREEN SETBACK AND STREETSCAPE | INDICATIVE PLANTING PALETTE







GROUNDCOVER





















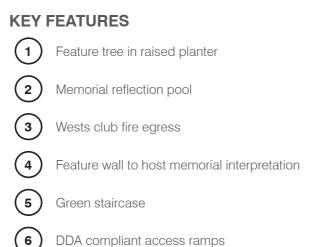


2.4 GROUND FLOOR | THROUGH SITE LINK

THROUGH SITE LINK | PLAN

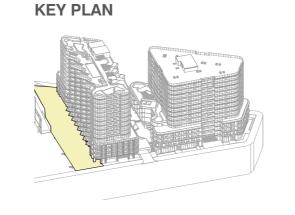


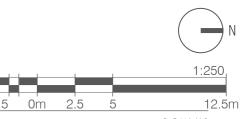
Streetscape paving Granite unit paving Decking Lawn Mass planting Water feature Proposed tree planting



Lawn picnic area interfacing cafe plaza

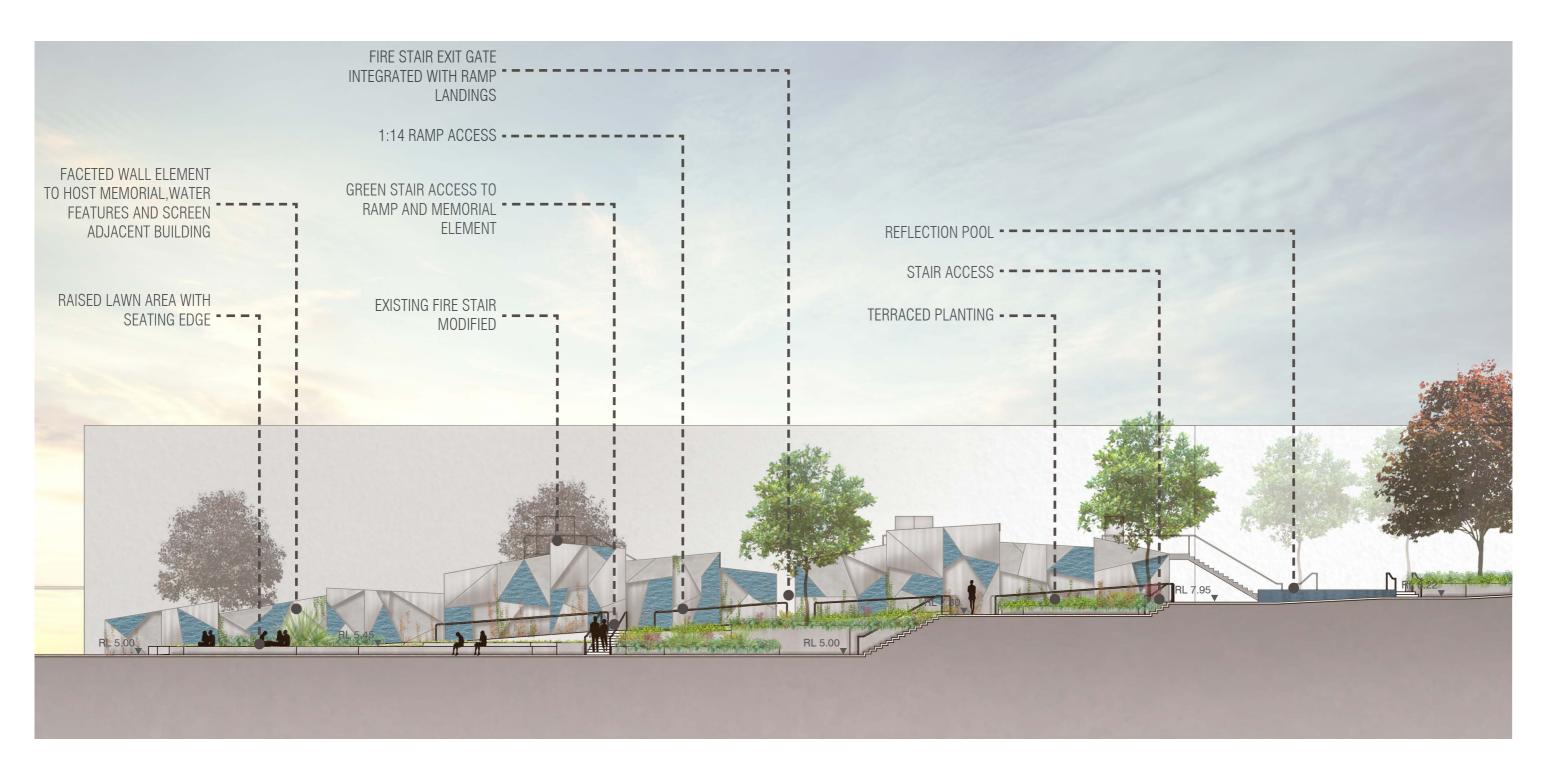
Water feature





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THROUGH SITE LINK | SECTION



THROUGH SITE LINK | INDICATIVE PLANTING PALETTE







GROUNDCOVER

















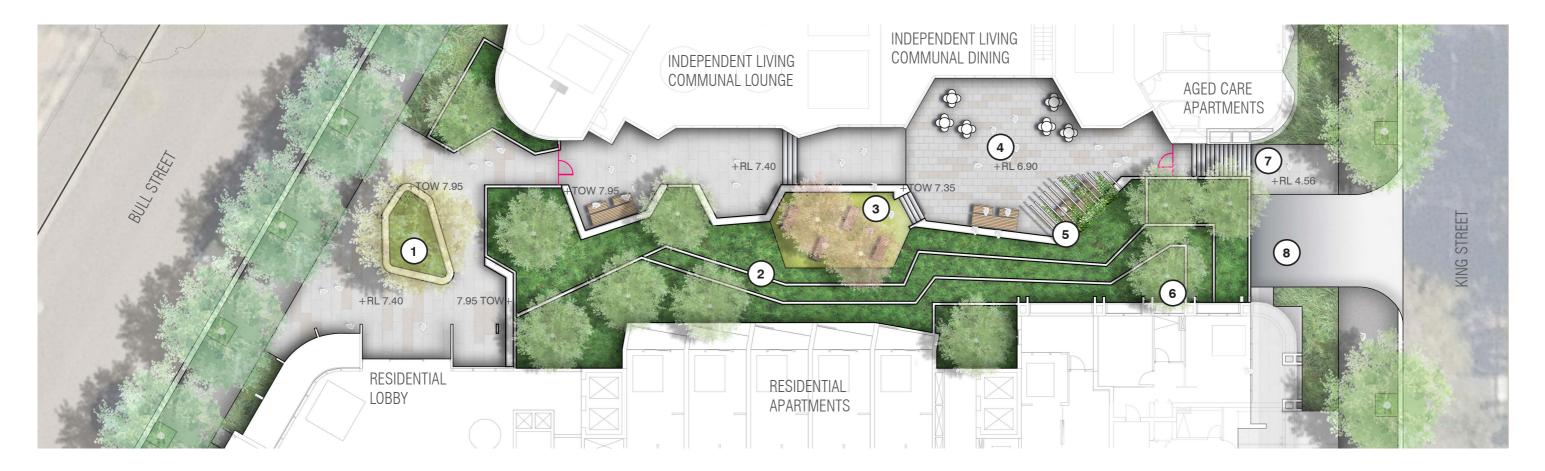






2.5 LEVEL 1 - INDEPENDENT LIVING COURTYARD

INDEPENDENT LIVING COURTYARD | PLAN



LEGEND









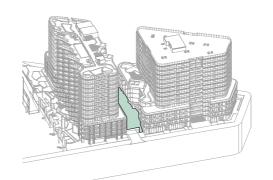
Mass planting

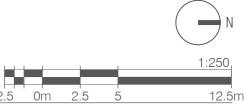


KEY FEATURES

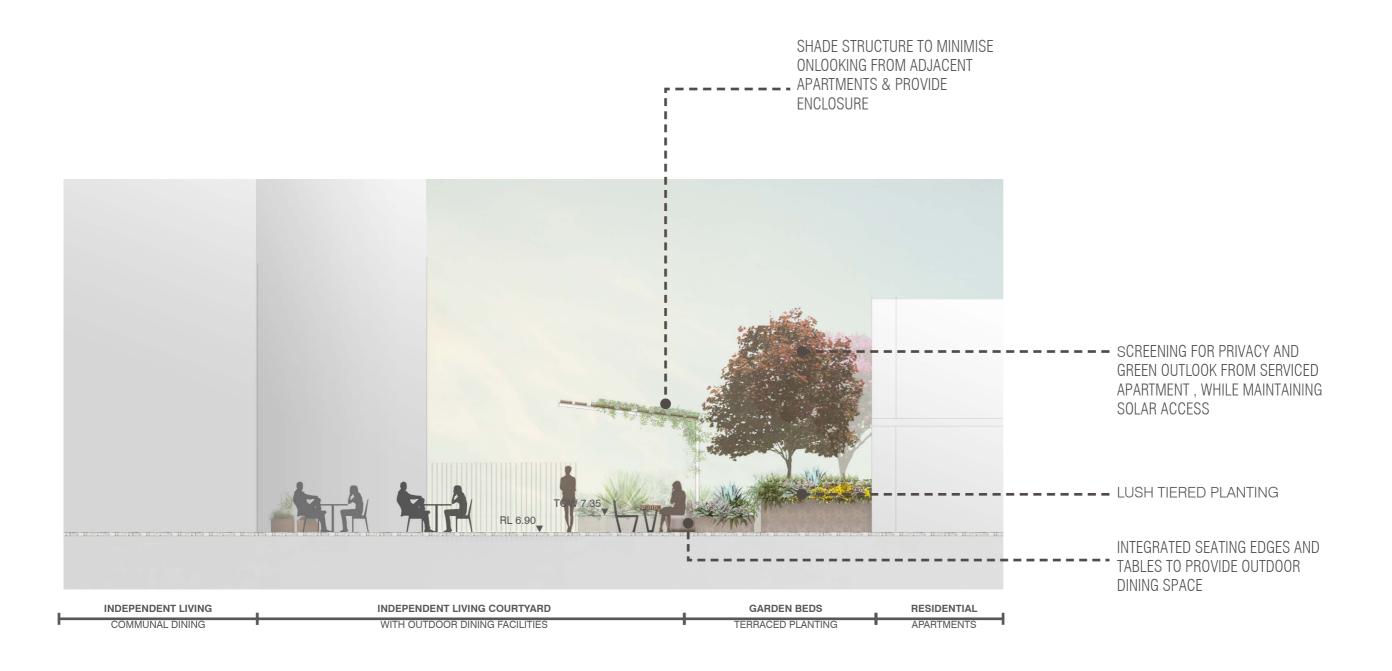
- 1 Feature tree in raised planter outside Residential Lobby
- (2) Terraced planting between Apartment balconies and paved areas
- 3 Raised lawn space with sun lounges and garden planting
- 4 Outdoor dining and gathering space
- **5** Pergola structure with picnic settings and BBQ under
- 6 800mm depth planters adjacent residential apartments for trees and lush screen planting
- 7 Stair access from King St, though lockable gate
- 8 Carpark entrance

KEY PLAN





INDEPENDENT LIVING COURTYARD | SECTIONS





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INDEPENDENT LIVING COURTYARD | INDICATIVE PLANTING PALETTE







GROUNDCOVER





















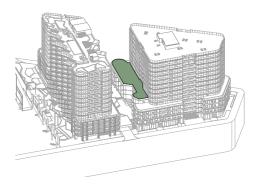


2.6 LEVEL 5 - INDEPENDENT LIVING TERRACE

INDEPENDENT LIVING TERRACE | PLAN



KEY PLAN



LEGEND

Granite unit paving

Decking

Lawn

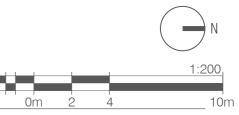
Mass planting

Plunge pool

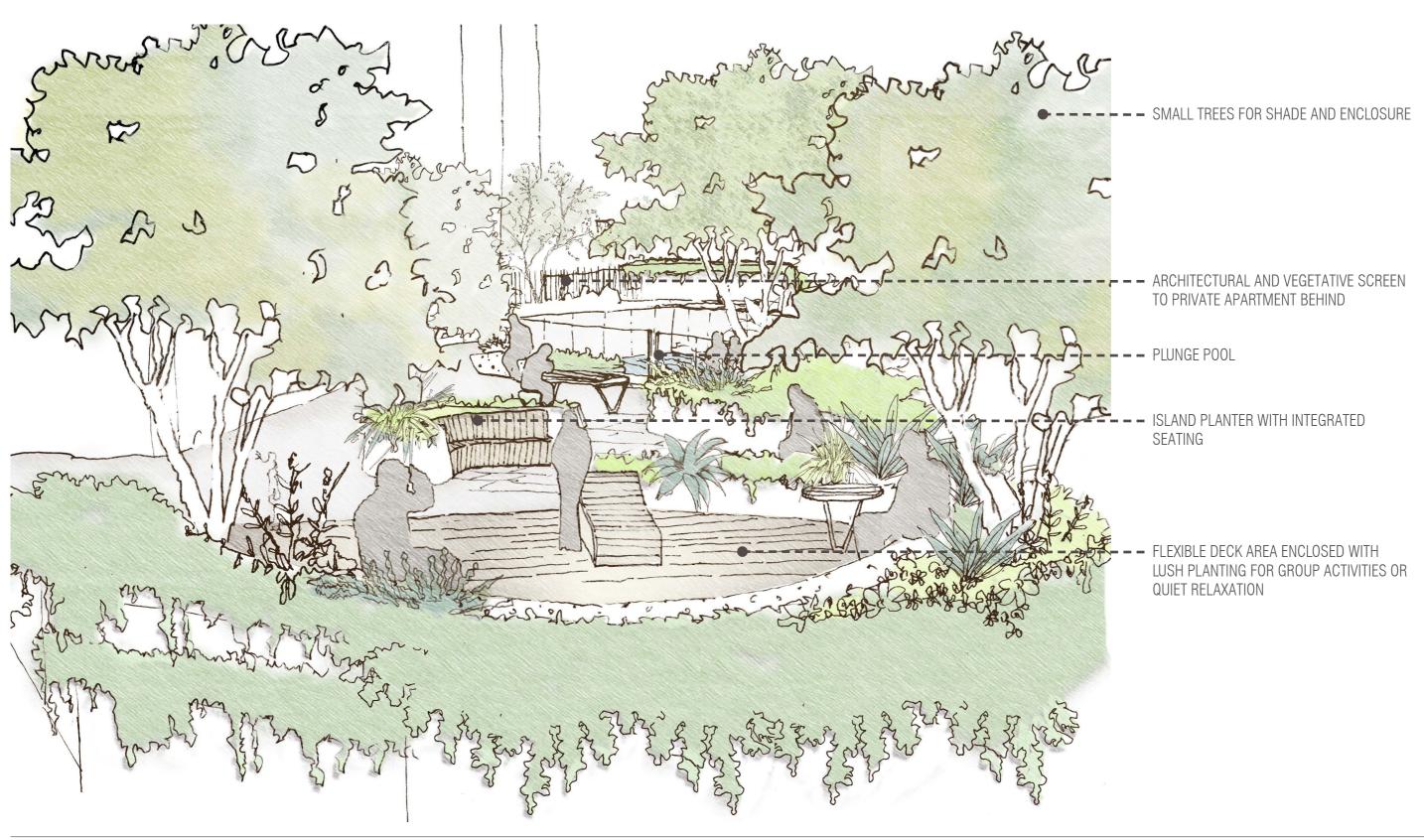
Proposed tree planting

KEY FEATURES

- Adaptable space for passive recreation or organised activities such as outdoor yoga classes
- Seating nook enclosed with lush planting.
- (3) Island planter with feature tree
- Undercover BBQ and dining area
- Fenced deck area with plunge pools and lounge seating
- Space for quiet reflection with views toward harbour
- Facade planting to edges, with cascading species to be seen from below



INDEPENDENT LIVING TERRACE | PERSPECTIVE



INDEPENDENT LIVING TERRACE | INDICATIVE PLANTING PALETTE







GROUNDCOVER

















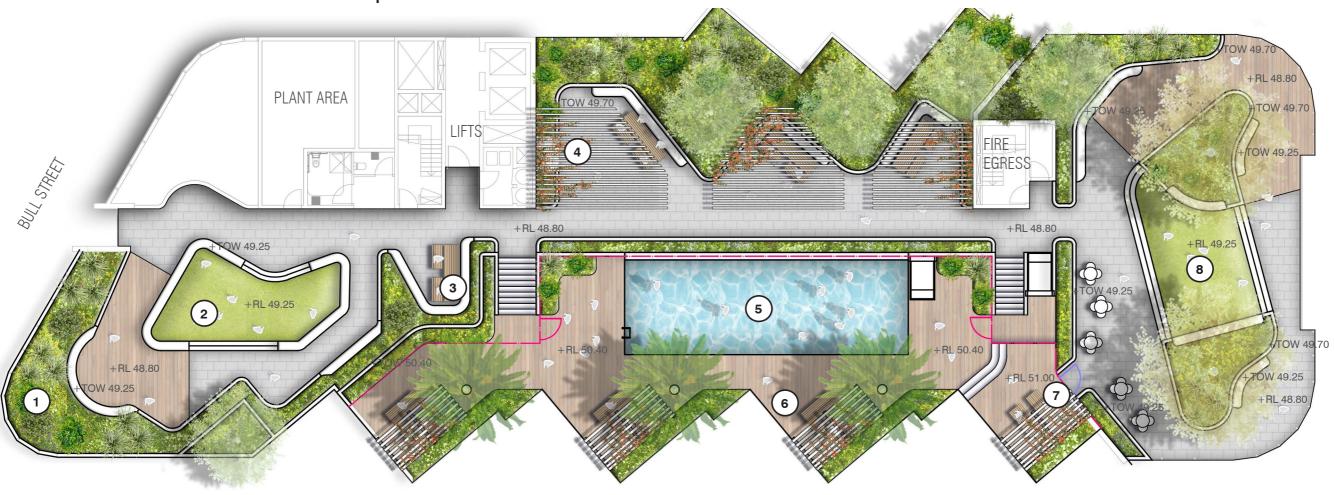






2.7 LEVEL 14 - RESIDENTIAL COMMUNAL ROOFTOP

RESIDENTIAL COMMUNAL ROOFTOP | PLAN



LEGEND

Granite unit paving

Decking

Lawn

Mass planting

Pool

Proposed tree planting

Proposed palm tree planting

KEY FEATURES

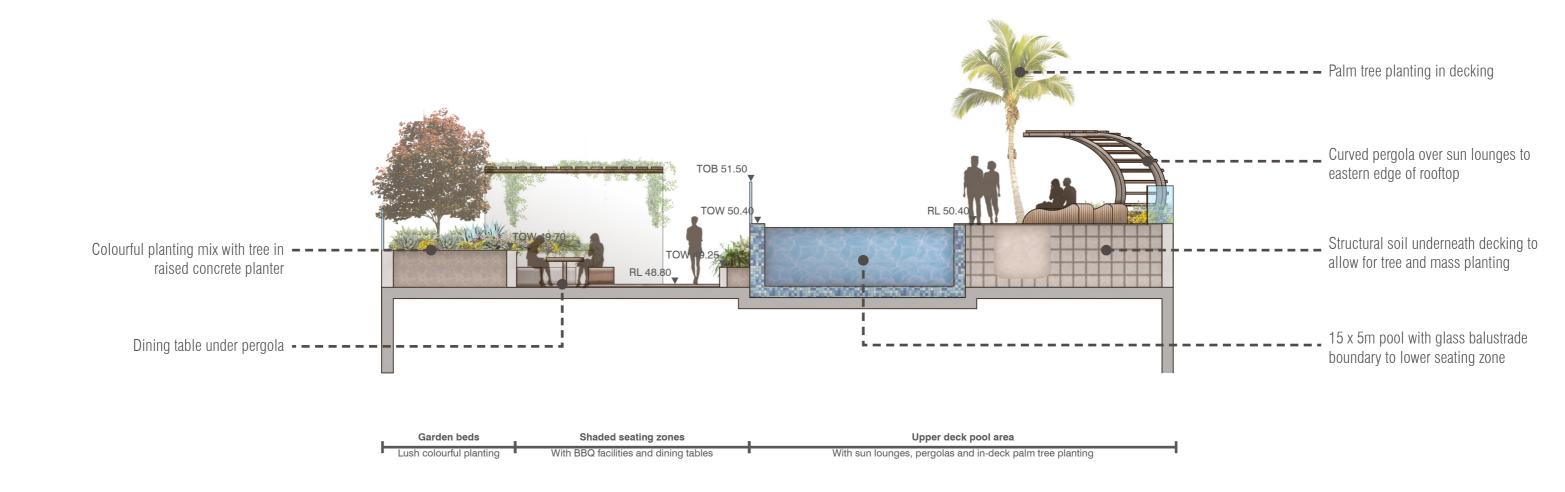
- 1 Planted edges with glass balustrade to building perimeter
- 2 Raised lawn picnic area
- 3 Sunken seating niche enclosed by terrace planting
- 4 Undercover BBQ area with picnic setting beneath pergola structures
- 5 15 x 5m swimming pool
- (6) Raised deck space with feature shelters and sun lounges under
- 7 Gate access to pool pump enclosure below raised deck space
- 8 Raised lawn picnic area

KEY PLAN



KING STREET

RESIDENTIAL COMMUNAL ROOFTOP | SECTIONS





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RESIDENTIAL COMMUNAL ROOFTOP | INDICATIVE PLANTING PALETTE







GROUNDCOVER









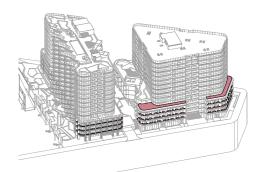






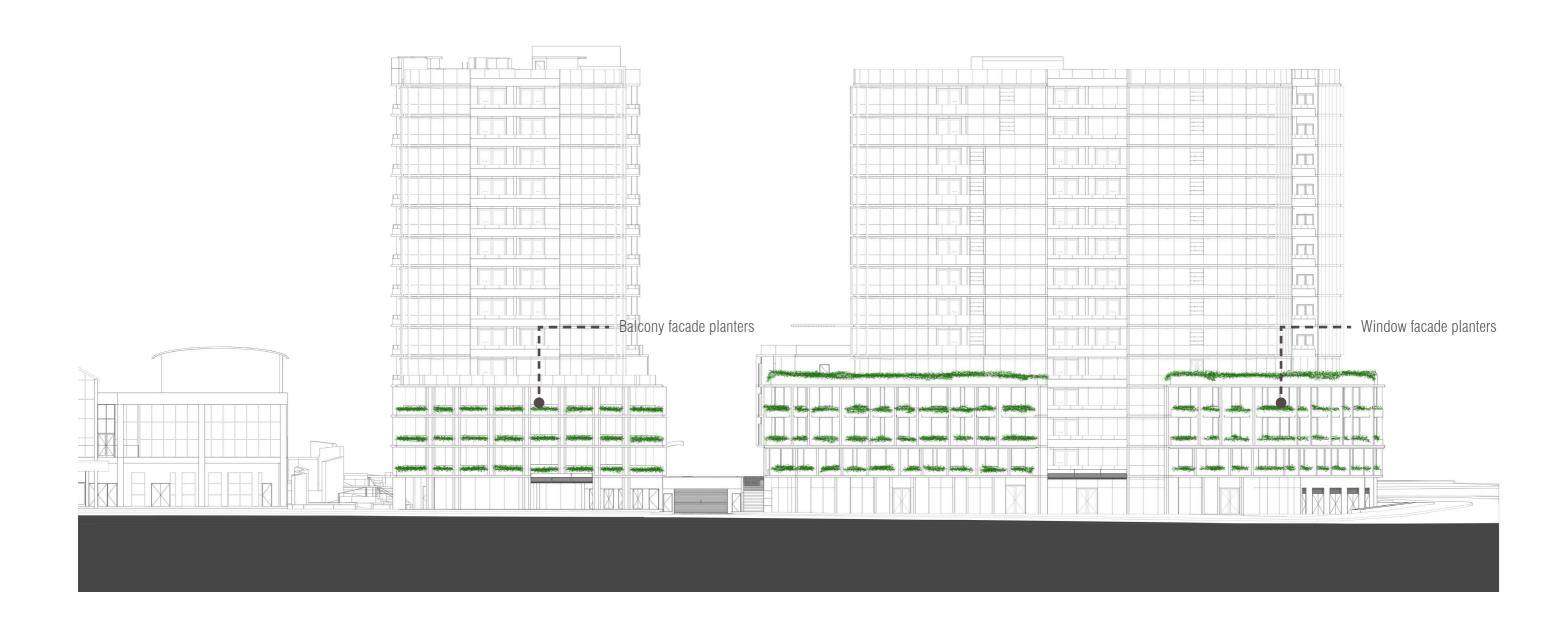


KEY PLAN



2.8 FACADE PLANTING

FACADE PLANTING | NORTH ELEVATION



FACADE PLANTING | INDICATIVE PLANTING PALETTE





















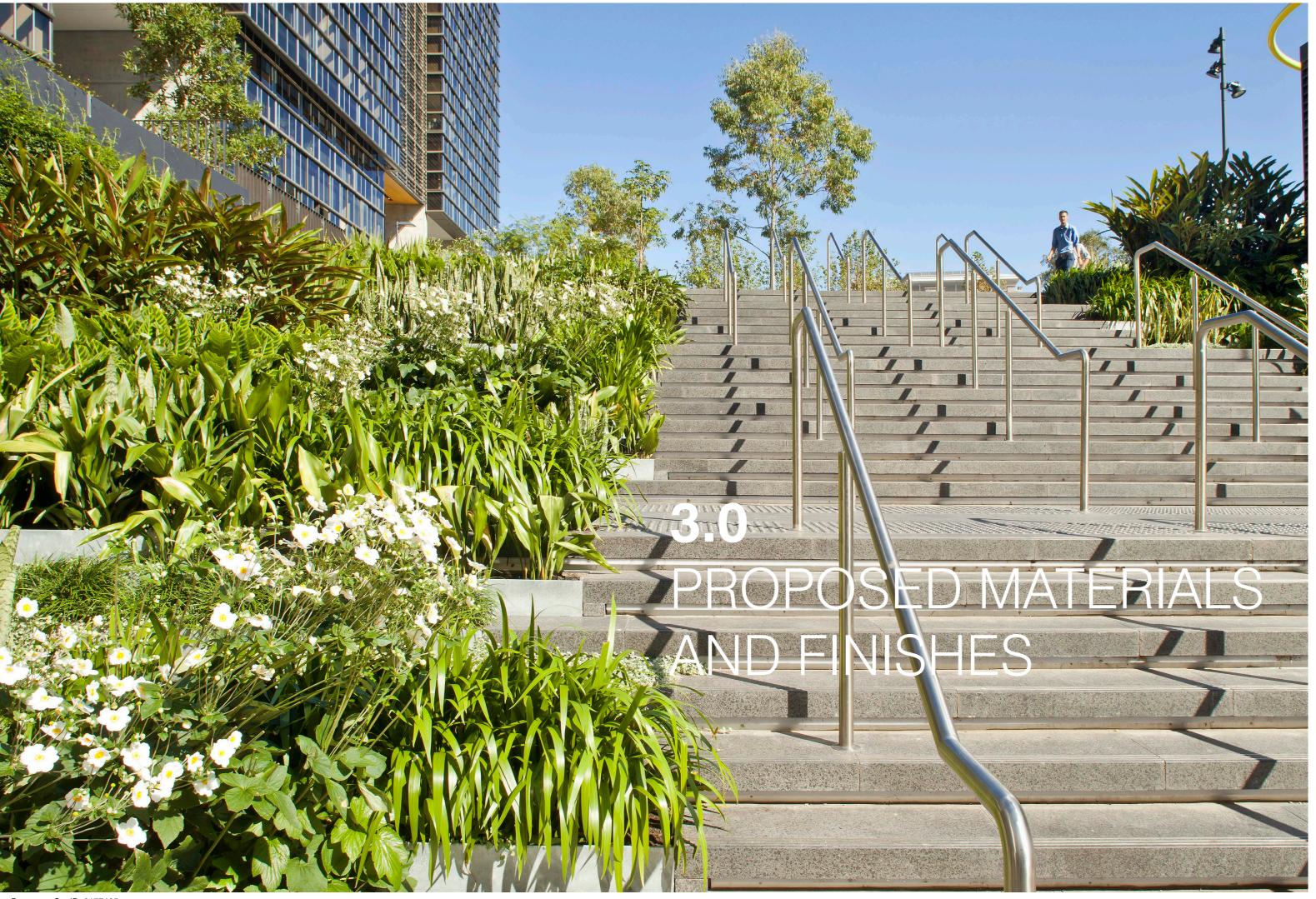










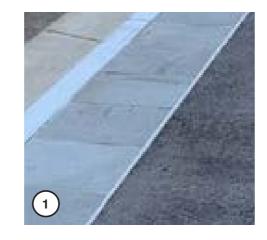


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3.1 PROPOSED MATERIALS AND FINISHES

A select number of traditional building materials (concrete, steel and timber), have been chosen for the landscape terraces to complement the architectural design to create comfortable, inhabitable spaces. These simple materials, in neutral tones, aim to create structure that will sit beneath a verdant display of greenery covering the building.

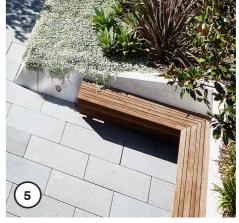
Image	Material	Description
01	Asphalt Paving	Streetscape paving in accordance with City of Newcastle Public Domain guidelines
02	Granite Unit Paving	Natural stone pavers in a variety of textures and unit sizes
03	Timber Decking	Mod-wood or similar decking product
04	Water features	Reflection pool and memorial water wall
05	Custom Seating	Concrete seating benches with natural timber inlays
06	Custom Picnic settings	Natural timber with powdercoated steel frame
07	Custom Shelters	Natural timber with powdercoated steel frame
08	Concrete planter walls	Faceted concrete walls in exposed aggregate finish
09	Lighting	Lighting to comply with AS1158.3.2 and AS4282







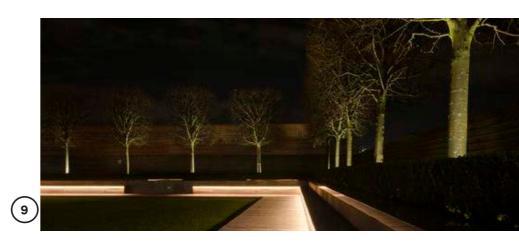












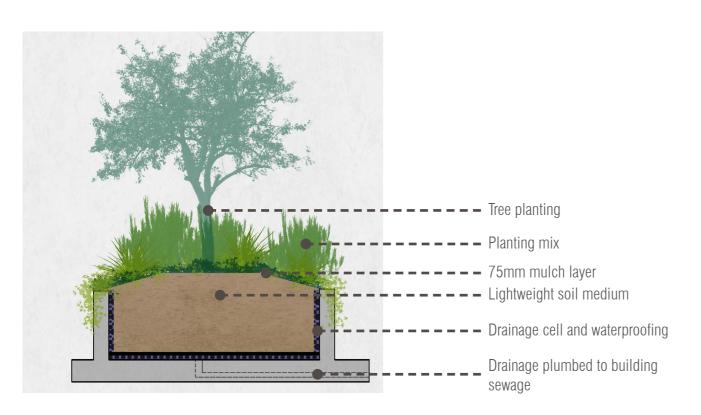


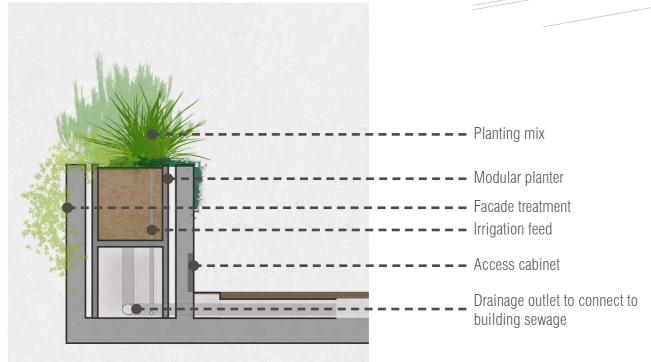
KEY PLAN



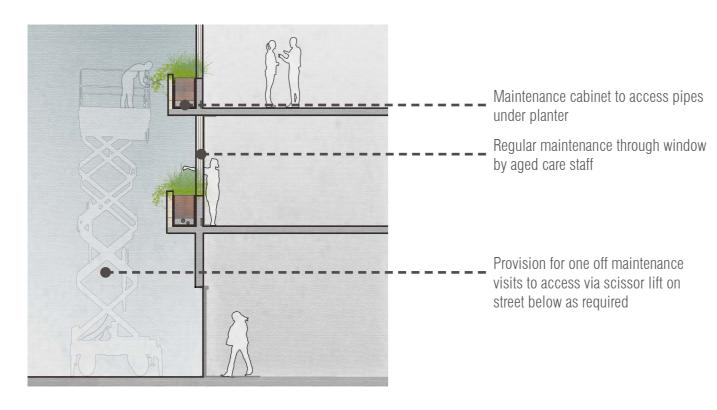
4.1 PLANTER DESIGN MAINTENANCE ACCESS CONSIDERATIONS

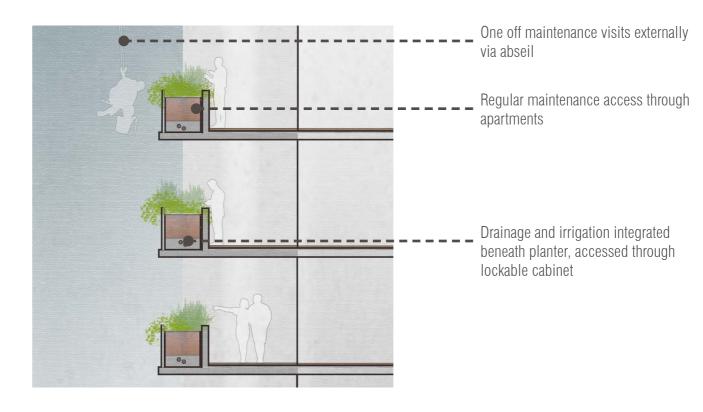
INDICATIVE FACADE PLANTER DETAILS





INDICATIVE MAINTENANCE ACCESS CONSIDERATIONS





MAINTENANCE SCHEDULE 4.2

PLANTER SYSTEMS



- Modular planters recessed into balustrade walls with maintenance access cabinets
- Connected to irrigation system in basement for optimal dosage of water and nutrients year round
- Irrigation from harvested rainwater (topped up with potable when required)
- Rainwater outlets plumbed to building drainage
- Wifi controlled irrigation system, with ability to control each facade separately
- Moisture sensors in planter boxes to ensure irrigation is applied efficiently for optimal plant growth / minimal water use
- Planting carefully selected to suit soil volume and environmental constraints



- Built in concrete planter walls on structure
- Layered, full planting arrangements
- Irrigation from basement rainwater tank (topped up with potable when required)
- Connected to automated irrigation system for optimal dosage of water and nutrients year round
- Soil depths adequate to support varying plant typologies, in accordance with Apartment Design Guidelines
- Rainwater outlets plumbed to building drainage

MAINTENANCE SCHEDULE

Façade Planters		
Low maintenance small shrubs, ground covers and cascading		
Maintenance Action	Timing	Access and monitoring considerations
Monitoring of plant health	Min. monthly inspections in person.	Close visual access, supplemented with SMS notifications from monitoring
	SMS notification system constant	system (moisture sensors, irrigation / drainage failures etc)
		Residents can also report plant deaths directly to body corperate
General pruning of plant material (including cutting back, dead	Minimum twice per year / as required	Physical access (two hands) to cut stems with secateurs
heading flowers and removal of dead plant material)		
		Removal of green waste
Replacement of dead plants with new plant stock	As required for sporadic plant failure	Physical access (two hands) to install plants
	General life expectancy of plants minum 10 years.	Transport plant stock and potting media to planters
		Removal of green waste
Hand weeding	Min. monthly during establihment then min. once	Physical access (two hands) to cut stems with secateurs
	per season as required	
		Removal of green waste
Pest and disease control	Ongoing	Access for application of treatment (i.e. spray gun)
		Implementation of IPM system for healthy habitat
	per season as required	
		Removal of infected material and transportation of green waste off site
Maintenance of mulch matt	Monitor and upkeep monthly	Access to surface of planter
	Replacement only required if soil and planting	Transportation of new mulch matt for replacements
	replaced	Removal of spent fabric off site
Maintenance of irrigation infrastructure	Min. monthly inspections in person.	Access to irrigation lines located under surface of mulch matt
-	SMS notification system constant	
Maintenance of drainage infrastructure	Min. monthly inspections in person.	Access to outlet under planter box (via surface inspection pit)
	SMS notification system constant	
		Transport tools (i.e. handheld drain snake)
		Removal of debris and transportation of waste off site
Removal of litter	Monitor and upkeep monthly	Access to void between building and planter
		Removal of debris and transportation of waste off site
Replacement of soil media	Monitor and top up monthly if required	Remove full volume of planter media
	Full soil replacement every 10-15 years	Transport in new soil planter media

neplacement of soil media	- " " " Tequired	Terrove full volume of planter media
	Full soil replacement every 10-15 years	Transport in new soil planter media
Terrace Planters		
Small trees, large flowering shrubs, grasses and groundcovers		
Maintenance Action	Access considerations	Access considerations
Monitoring of plant health	Min. monthly inspections in person.	Visual access
	SMS notification system constant	
Formative / hazard pruning of trees	Minimum twice per year / as required	Physical access (two hands) to cut stems with secateurs
		Removal of woody green waste (heavy / bulky)
Hedging and cutting back of shrubs	Minimum twice per year / as required	Physical access (two hands) to cut stems with secateurs
		Removal of green waste (bulky)
General pruning of plant material (including cutting back, dead	Minimum twice per year / as required	Physical access (two hands) to cut stems with secateurs
heading flowers and removal of dead plant material)		
		Removal of green waste
Replacement of dead plants with new plant stock	As required for sporadic plant failure	Physical access (two hands) to install plants
	General life expectancy of plants minum 10 years.	Transport plant stock and potting media to planters
		Removal of green waste
Replacement of dead or damaged trees	As required for sporadic plant failure	Mobile Crane, parked on street below (suitable for up to 200L replacement
		stock)
	General life expectancy of trees 30+ years.	Removable of soil to accommodate new tree planting
		Removal of green waste
Hand weeding	Min. monthly during establihment then min. once	Physical access (two hands) to cut stems with secateurs
-	per season as required	
		Removal of green waste
Pest and disease control	Ongoing	Access for application of treatment (i.e. spray gun)
	Min. monthly during establihment then min. once	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	per season as required	
		Removal of infected material and transportation of green waste off site
Maintenance of mulch	Monitor and upkeep monthly	Access to surface of planter
	Replacement only required if soil and planting	Transportation of new mulch matt for replacements
	replaced	
	ļ ·	Removal of spent fabric off site
Maintenance of irrigation infrastructure	Min. monthly inspections in person.	Access to irrigation lines located under surface of mulch matt
0	SMS notification system constant	
Maintenance of drainage infrastructure	Min. monthly inspections in person.	Access to outlet under planter box (via inspection pit)
	SMS notification system constant	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Transport tools (i.e. handheld drain snake)
		Removal of debris and transportation of waste off site
Removal of litter	Monitor and upkeep monthly	Access to void between building and planter
	and opinion in the second in t	Removal of debris and transportation of waste off site
Replacement of soil media	Monitor and top up monthly if required	Remove full volume of planter media
neplacement of 3011 media	Full soil replacement every 10-15 years	Transport in new soil planter media (for amelioration, top up or full replacement
	an son reprocessing to 15 years	if required)
		in required)

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