

project
GLENDALE SHOPPING CENTRE UPGRADE
LANDSCAPE DESIGN REPORT

Issue date: 10/06/15

prepared for
STOCKLAND
Level 25, 133 Castlereagh St
Sydney NSW 2000



prepared by
SYM STUDIO



GLENDALE

Shopping Centre Upgrade

{LAKE MACQUARIE}

*"Some of my fondest
childhood memories
are of fishing on
Lake Macquarie...
I recommend that
you re-discover
simple pleasures
with your children
and take a rowing
boat out on the lake
and throw in a line"*
{unknown}

*With some prawns
(for the fish) and
a picnic (for you)
you will have a
wonderful day that
you and your
children will
remember for years.*
{Maxie, Heathcote}

*"I remember how
excited my sister and
I used to be when we
caught flathead
and whiting from
our boat and once
we even caught a
rather large crab"*
{unknown}

What's your
favourite
fishing story?

Glendale Shopping Centre

Landscape Development Application Package

DOCUMENT LOG

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SITE LOCATION MAPS

REGIONAL MAP



LOCAL MAP



ROUNABOUT & ENTRY PLANTING (Total Area = 300m2)

Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	SPACING
SHRUBS				
Alp zer	Alpinia zerumbet	Shell Ginger	300mm	2/m2
Vib odo	Viburnum odoratissimum	Sweet Viburnum	300mm	1/m2
GROUNDCOVERS				
Dia cae	Dianella caerulea var. products	Blue Flax Lily	V/cell	3p/m2
Fac nod	Facinia nodosa	Knobby Club Rush	V/cell	5p/m2
Jun con	Juniperus conferta	Shore Juniper	140mm	2/m2

PARKING ISLAND PLANTING (Total Area = 2985m2)

Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	SPACING
SHRUBS				
Alp zer	Alpinia zerumbet	Shell Ginger	200mm	2p/m2
Dor yan	Doryanthes excelsa	Gymea Lily	300mm	2p/m2
Gre ser	Grevillea sericea	Pink Spider Flower	200mm	1p/m2
Vib odo	Viburnum odoratissimum	Sweet Viburnum	300mm	1p/m2
Wes fru	Westringia fruticosa 'Smokey'	Smokey Coast Rosemary	200mm	2p/m2
GROUNDCOVERS				
Jun con	Juniperus conferta	Shore Juniper	140mm	2p/m2

PEDESTRIAN 'MEETING POINT' PLANTING (Total Area = 205m2)

Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	SPACING
SHRUBS				
Alp zer	Alpinia zerumbet	Shell Ginger	300mm	2p/m2
Gre ser	Grevillea sericea	Pink Spider Flower	200mm	1p/m2
Mac com	Macrozamia communis	Burrawang Cycad	400mm	1p/3m2
GROUNDCOVERS				
Ble car	Blechnum cartilagineum	Gristle Fern	200mm	5p/m2
Gar rad	Gardenia radicans	Prostrate Gardenia	200mm	5p/m2
Hib mos	Hibiscus moscheutos spp.	Dwarf Hibiscus	200mm	2p/m2
LIR mus	Liriope muscari 'Evergreen Giant'	Evergreen Giant	200mm	4p/m2

RAISED PLANTER BOXES 'DINING' (Total Area = 185m2)

Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	SPACING
SHRUBS				
Syz aus	Syzygium australe 'Tiny Trev'	Dwarf Lilly Pilly	300mm	2p/m2
Rha ind	Rhaphiolepis indica 'Oriental Pearl'	Indian Hawthorn	300mm	3p/m2
GROUNDCOVERS				
Aju rep	Ajuga reptans	Blue Bugle	140mm	8p/m2
Fac nod	Facinia nodosa	Knobby Club Rush	tubestock	5p/m2
Gar rad	Gardenia radicans	Prostrate Gardenia	140mm	5p/m2
Jun sab	Juniperus sabina	Savin Juniper	140mm	2p/m2

TREE PIT PLANTING (Total Area = 123m2)

Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	SPACING
GROUNDCOVERS				
Fac nod	Facinia nodosa	Knobby Club Rush	tubestock	5p/m2
Jun con	Juniperus conferta	Shore Juniper	140mm	2p/m2
Myo par	Myoporum parvifolium	Creeping Boobialla	140mm	3p/m2

OPEN SPACE PLANTING (Total Area = 450m2)

Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	SPACING
SHRUBS				
Pen alo	Pennisetum alopecuroides 'Nafray'	Swamp Foxtail	V/cell	3p/m2
Wes fru	Westringia fruticosa 'Smokey'	Smokey Coast Rosemary	140mm	2p/m2
GROUNDCOVERS				
Dia cae	Dianella caerulea var. profensa	Blue Flax Lily	V/cell	3p/m2
Fac nod	Facinia nodosa	Knobby Club Rush	V/cell	5p/m2
Myo par	Myoporum parvifolium	Creeping Boobialla	V/cell	3p/m2
Tra jas	Trachelospermum jasminoides	Star Jasmine	tubestock	1p/m2

REVEGETATION PLANTING (Total Area = 3455m2)

Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	SPACING
SHRUBS				
Aca lon	Acacia longifolia	Golden Wattle	forest tube	2p/5m2
Not lon	Notelaea longifolia forma longifolia	Mock Olive	forest tube	2p/5m2
Bre obl	Breynia oblongifolia	Coffee Bush	forest tube	2p/5m2
GROUNDCOVERS				
Dia cae	Dianella caerulea var. profensa	Blue Flax Lily	V/cell	3p/m2
Hib sca	Hibbertia scandens	Golden Guinea Flower	140mm	2p/5m2
Lom lon	Lomandra longifolia	Mat Rush	V/cell	5p/m2
Myo par	Myoporum parvifolium	Creeping Boobialla	forest tube	3p/m2

STREET TREES

Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	QTY
TREES				
	Backhousia citriodora	Lemon Scented Myrtle	100Lt	24
	Buckinghamia celsissima	Ivory Curl Tree	100Lt	29
	Elaeocarpus reticulatus	Blueberry Ash	45Lt	15
	Ficus lyrata	Fiddle Leaf Fig	75Lt	10
	Fraxinus griffithii	Flowering Ash	400Lt	6
	Liriodendron tulipifera fastigiata	Tulip Tree	200Lt	16
	Livistona australis	Cabbage Palm	400Lt	6
	Prunus cerasifera 'Nigra'	Black Plum	75L	5
	Pyrus calleryana 'Bradford'	Callery Pear	200Lt	31
	Tristaniaopsis laurina	Water Gum	100L	101
	Waterhousia floribunda	Weeping Lilly Pilly	75L	59

REPLACEMENT/REVEGETATION TREES

Abb.	BOTANICAL NAME	COMMON NAME	POT SIZE	QTY
REVEGETATION PLANTING (along South-Western Boundary) Total Area = 3455m2				
Acm smi	Acmena smithii	Lilly Pilly	25Lt	1p/30m2
Ban ser	Banksia serrata	Serrated Banksia	forest tube	1p/30m2
Ang cos	Angophora costata	Smooth-barked Apple	25Lt	54
Cor cit	Corymbia gummifera	Red Bloodwood	25Lt	54
Cor mac	Corymbia maculata	Spotted Gum	25Lt	54
REPLACEMENT PLANTING (along South-Western Boundary)				
Ang cos	Angophora costata	Smooth-barked Apple	25Lt	TBC refer Tree Replacement Strategy DA-L01
Cor mac	Corymbia maculata	Spotted Gum	25Lt	" "
ELA ret	Elaeocarpus reticulatus		75L	" "
POD ela	Podocarpus elatus		75L	" "
TREES (in Stockland Drive Extension only) Total Area = 1350m2				
Cer gum	Ceratopetalum gummiferum	NSW Christmas Bush	25Lt	1p/30m2
Hym fla	Hymenosporum flavum	Native Frangipanni	5Lt	1p/30m2

NOTE: SPACING SHOWN FOR SHRUBS AND GROUNDCOVER REFLECT A MINIMUM DENSITY. FINAL QUANTITIES REQUIRED FOR CONSTRUCTION CERTIFICATE PLANTING PLAN.

Plant Schedules



GLENDALE SHOPPING CENTRE
387 Lake Road
Glendale NSW

Planting Schedule



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Project: STK13Glendale
Client: Stockland
Stage: Development Application
Prepared By: CG/MCG
Issue: Council Review
Date: 10th June 2015

SK - 01

EXISTING SITE



Existing Aerial Photograph



Panorama - Core Parking Area (west)



Panorama - Existing Stormwater Detention Basin from carpark

Panorama - Existing Stormwater Detention Basin (east opposite cinema)



Existing Site - View looking south from Kmart

Existing Site - Core Area Carpark (Trees)

Existing Site - Core Area Carpark (Water Ponding)



Existing Site - Street Furniture 1

Existing Site - Street Furniture 2

Existing Site - Carpark Detention (south)



Existing Site - Viburnum odoratissimum

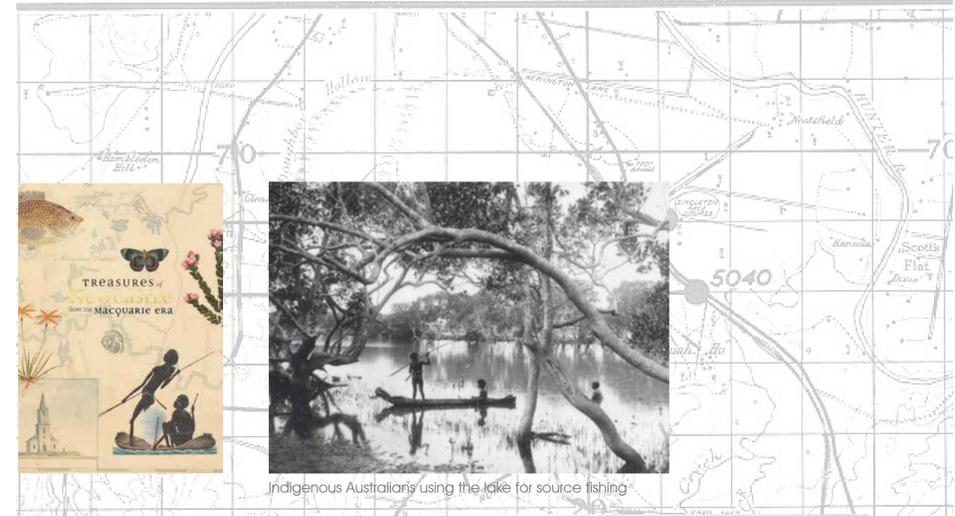
Existing Site - Viburnum tinus

Existing Site - Photinia robusta

HISTORIC INTERPRETATION

- Glendale Shopping Centre located near "The Crossroads" intersection has long been a natural junction for people travelling north-south and east-west of Lake Macquarie.
- Historically Glendale Shopping Centre was conceived as a north american style strip mall where car convenience dictated the layout of buildings and was dominated by parking and vehicular accessways.
- Glendale has become a very popular regional shopping centre which has undergone expansion since its inception in 1994.
- The current proposal to rearrange the vast area of carparking to accommodate new specialty stores, creates a great opportunity to create a meaningful streetscape and outdoor experience which serves to reinvigorate the shopping centre and reinforces the tradition that Glendale is a preferred meeting point of convenience, with a strong

GLENDALE, N.S.W. Diagram - Glendale 1952



Indigenous Australians using the lake for source fishing



The Crossroads 'Central Water Trough' Date: unknown

Lake Macquarie from Rocky Point looking east towards Pulbah Island and to the left Swansea, circa: 1955



Cleaning and washing the fish catch always attracts a crowd - Ken Harrison and David Micallef at Mannering Park Coop Wharf, circa: 1995



Aerial View of The Crossroads, Date: 1971



Emphasise emotional connection to Lake Macquarie



Lake Macquarie



Precedence Image - Green Screen

Precedence Image - Timber Portals

Precedence Image - Carpark Arbor



Precedence Image - Arbor

Precedence Image - Fishing Pole Sculpture

Precedence Image - Foodcourt Water Microclimate



Precedence Image - Raised Rest Platform

Precedence Image - Fish Species Etching

Precedence Image - Storytelling Sculpture



Precedence Image - Meeting Point.s

Existing Site - Street Furniture 2

Stockland Forster - Interactive Sculpture



Precedence Images - Sculptural Artwork

Precedence Image - 'Bookend' Plaza

Precedence Image - Streetscape

SITE CONTEXT

- A lifestyle choice
- Lake Macquarie (Awaba)
- Meaning; plain or calm surface
- Long-standing fishing history
- Coastal salt water lake
- Sand banks, rocks, boats & jetties
- Seasonal variety of fish

A PROCESS

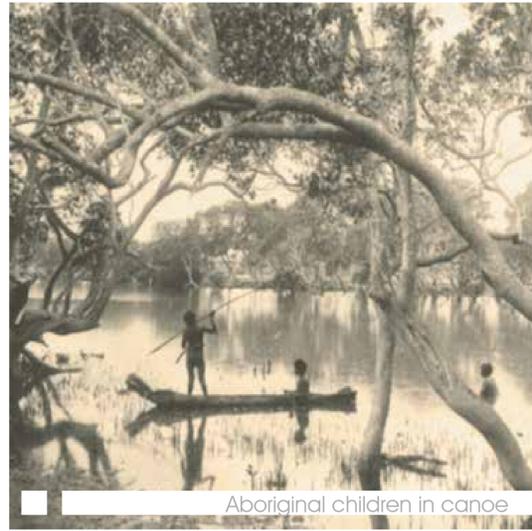
- Early rise, calm waters
- Prepare the gear and tackle
- Select the right location
- Set the hook and cast the line
- Wait, watch, hope, contemplate
- Ripples on the water's surface
- The exciting nibble

THE STORY

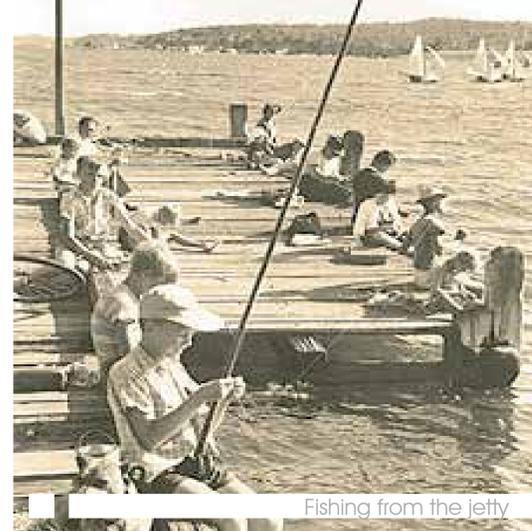
- Thrill of the catch
- Reeling it in
- Sizing it up
- Telling the tale
- Sharing the technique
- Generation to generation



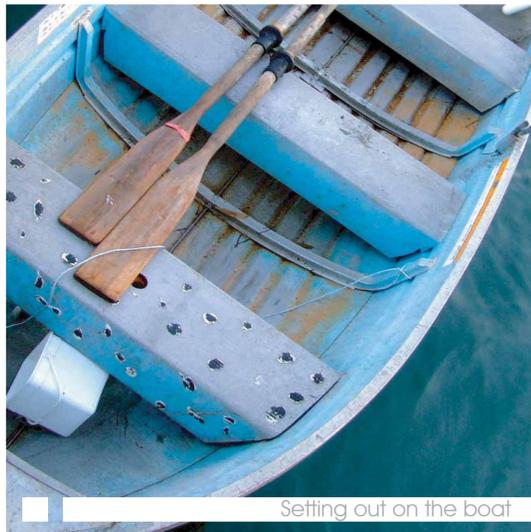
Children fishing



Aboriginal children in canoe



Fishing from the jetty



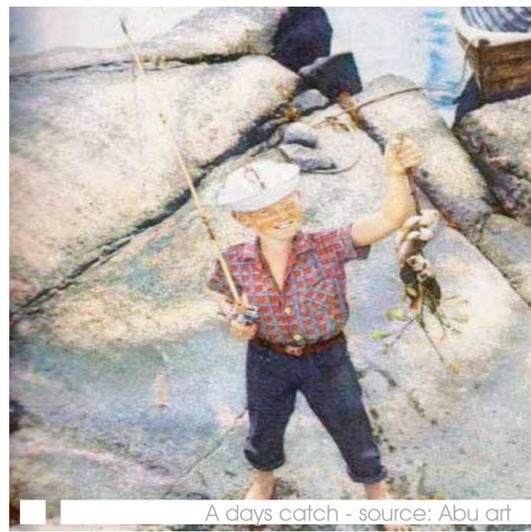
Setting out on the boat



Fishing tackle box



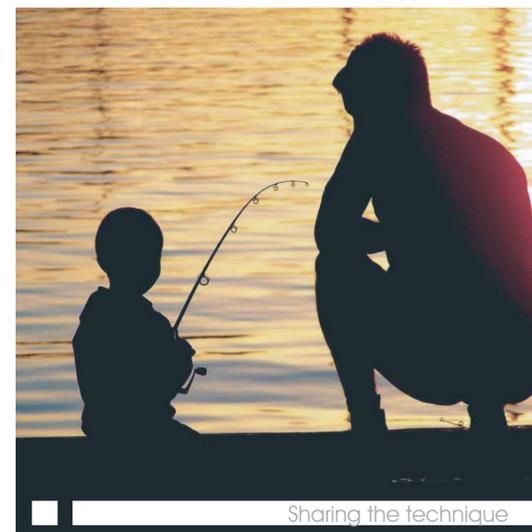
Waiting for a bite



A days catch - source: Abu art



Telling the story



Sharing the technique

STILL LAKE

The lake so still!
with reflected sleeping blue hills...
a cloud
floats in the heart of the lake
small circle of fine lines on the water
is it the whisper of a breeze?
or the listening fish?
{Poem by Yu Ouyang}

REFLECTION

"We used a cord type of line.
You had to buy it.
It wasn't like today's fishing line.
We used old car bolts and
things like that for sinkers.
And we'd get the corks off
wine bottles to use as our floats."
{Joyce Hampton, Darling River}

PASSING KNOWLEDGE

"This workshop teaches...
fishing and water safety;
conservation of fish habitats;
cleaning your catch;
knot tying; line rigging and
baiting; casting techniques
and retrieval of fish;
rules and regulations;
and Aboriginal culture."
{George Mannah, NSW DPI Fisheries}



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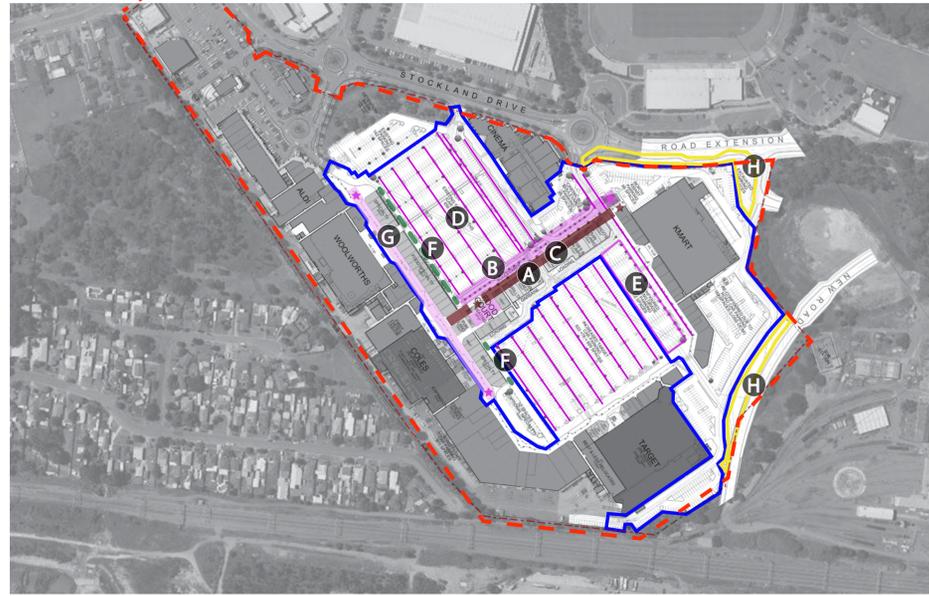
Place Making Strategy



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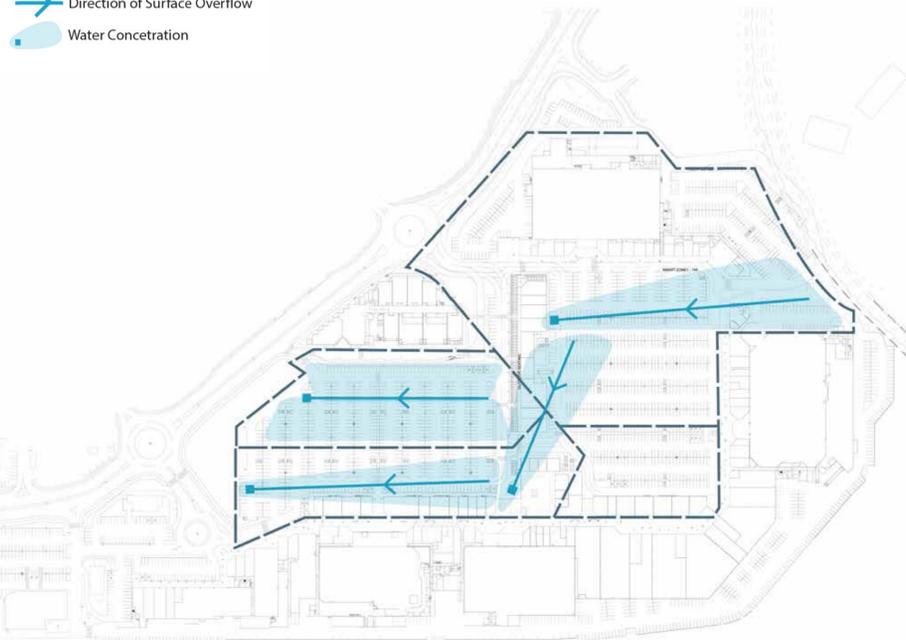
Project: STK13Glendale
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- A. Key Area - Pedestrian Spine (Outdoor Dining)
- B. Key Area - Streetscape Character (Vehicular Spine /Short Term Vehicular Dropoff)
- C. Key Area - Playground
- D. Key Component - Carpark Planting Enhancement Program
- E. Key Component - Activate Kmart Streetscape Character (Soften Hardpaved Surface)
- F. Key Component - Greenwall/Community Art Expression (Integrated Lifestyle Signage)
- G. Supplemental Area - Establish Place Making Strategy /Define Attraction
- H. Supplemental Area - Associated w/ Additional Council Roads



A Analysis - Landscape Design Strategy
N.t.s.

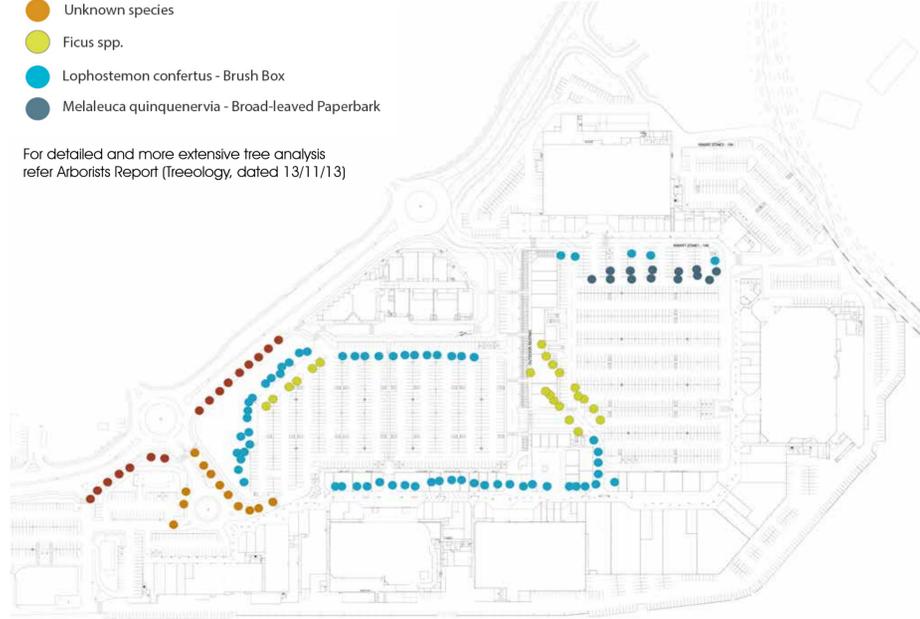
- LEGEND:
- Catchment area
 - Direction of Surface Overflow
 - Water Concentration



B Analysis - Hydrology (Existing)
N.t.s.

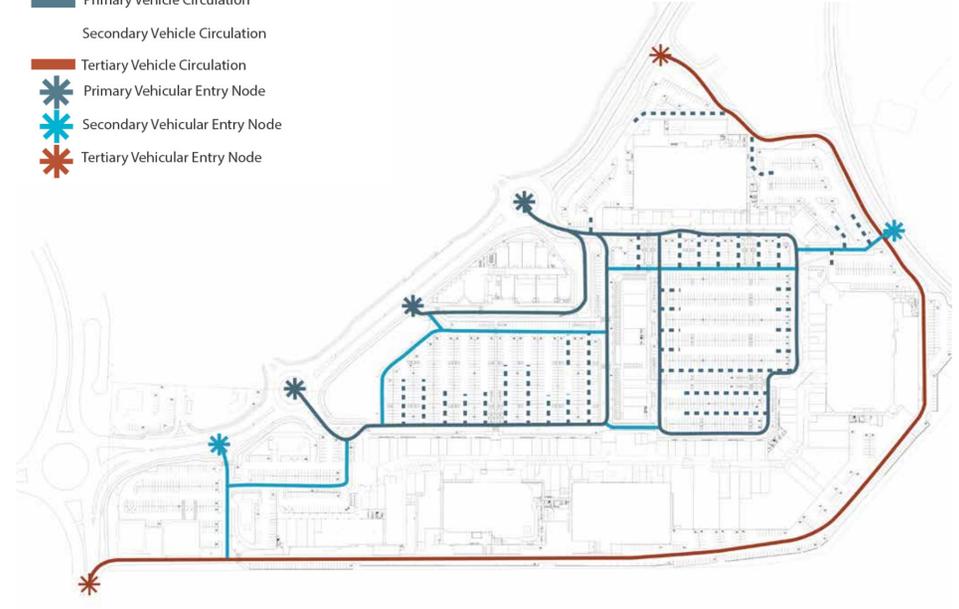
- LEGEND:
- Liquidambar styraciflua - Sweet-gum
 - Unknown species
 - Ficus spp.
 - Lophostemon confertus - Brush Box
 - Melaleuca quinquenervia - Broad-leaved Paperbark

For detailed and more extensive tree analysis refer Arborists Report (treeology, dated 13/11/13)



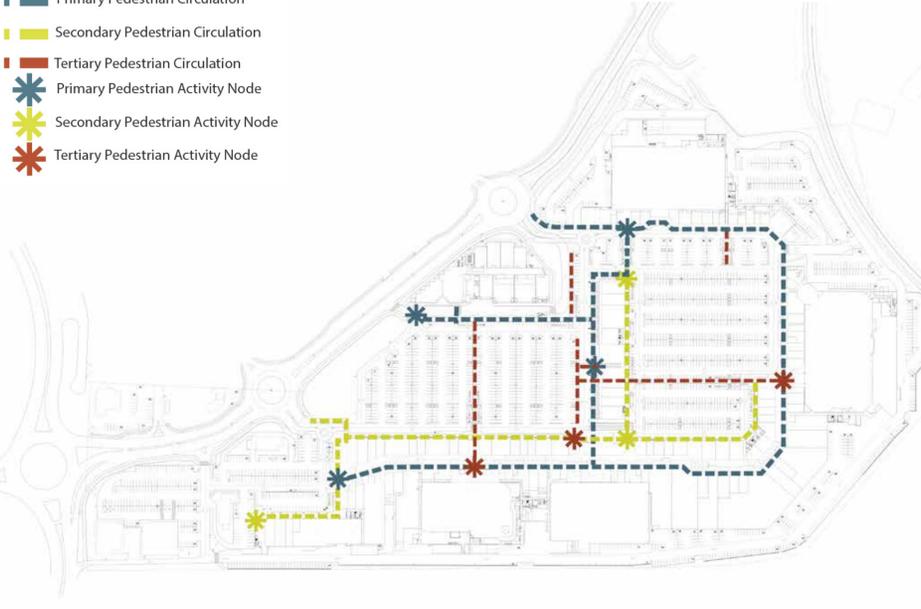
C Analysis - Tree Species (Existing)
N.t.s.

- LEGEND:
- Primary Vehicle Circulation
 - Secondary Vehicle Circulation
 - Tertiary Vehicle Circulation
 - Primary Vehicular Entry Node
 - Secondary Vehicular Entry Node
 - Tertiary Vehicular Entry Node



D Analysis - Vehicular Circulation (Proposed)
N.t.s.

- LEGEND:
- Primary Pedestrian Circulation
 - Secondary Pedestrian Circulation
 - Tertiary Pedestrian Circulation
 - Primary Pedestrian Activity Node
 - Secondary Pedestrian Activity Node
 - Tertiary Pedestrian Activity Node



E Analysis - Pedestrian Circulation (Proposed)
N.t.s.



F Concept - Storytelling Nodes (Proposed)
N.t.s.

Landscape Legend

- 1 Existing Stockland Funland
- 2 New updated Streetscape Spine
- 3 New Primary Pedestrian Connection
- 4 New Primary Pedestrian Boulevard Axis
- 5 Integrated 'Green Screen' & Lifestyle Signage
- 6 New Tertiary Pedestrian Access Point
- 7 Upgraded Secondary Pedestrian Meeting Point (west)
- 8 Upgraded Pedestrian Meeting Point (east)
- 9 Existing Pedestrian Access Spine
- 10 Retain Existing Trees
- 11 Selective Carpark Canopy Tree Replacement
- 12 Upgraded Open Space Lawn 'Safer by Design'
- 13 Existing Tree Removal (refer arborist report)

Tree & Materials Legend

- Planting (Existing)
 - Planting (Proposed)
 - Revegetation Planting
 - Hardscape (Existing)
 - Hardscape (Proposed)
 - Dining Areas
- | | |
|-----------------------------|------------------------------------|
| Backhousia citriodora | Buckinghamia celsissima |
| Prunus nigra | Liriodendron tulipifera fastigiata |
| Pyrus calleryana 'Bradford' | Elaeocarpus reticulatus |
| Tristanopsis laurina | Livistona australis |
| Waterhouisia floribunda | Existing Trees to be retained |
| Fraxinus griffithii | Native Revegetation Planting |
| Ficus lyrata | |

Refer Arboricultural Impact Report (Treeology, 20.03.15)

Tree Calculations	
No. of existing trees	265
No. of existing trees to be retained	58
No. of proposed trees	278
No. of new trees in hardscape area (requiring tree vaults)	233

Tree Removal Strategy:
 1. Existing trees are predominantly canopy trees as representative in Arboricultural Impact Report (Treeology, 20/03/15).
 2. Tree removal will be determined by arborist on an individual tree basis at time of construction certificate.

Tree Replacement Strategy:
 1. Where tree removal is required for mature (>20years), replacement trees will be installed at a ratio of 2:1.
 2. Where tree removal is required for mature (<20years), replacement trees will be installed at a ratio of 1:3.

The rationale for determining species type is based on providing a more effective vegetation screen than currently exists. This will be achieved using a combination of mid-storey rainforest species and canopy species. This approach will utilise foliage from ground level to the underside of the existing/replacement tree canopy.

(For species refer Planting Schedule 'Replacement Trees' DA-SK-01.)



1 Overall Upgrade Area
 1:2000@A1



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Landscape Masterplan - Overall



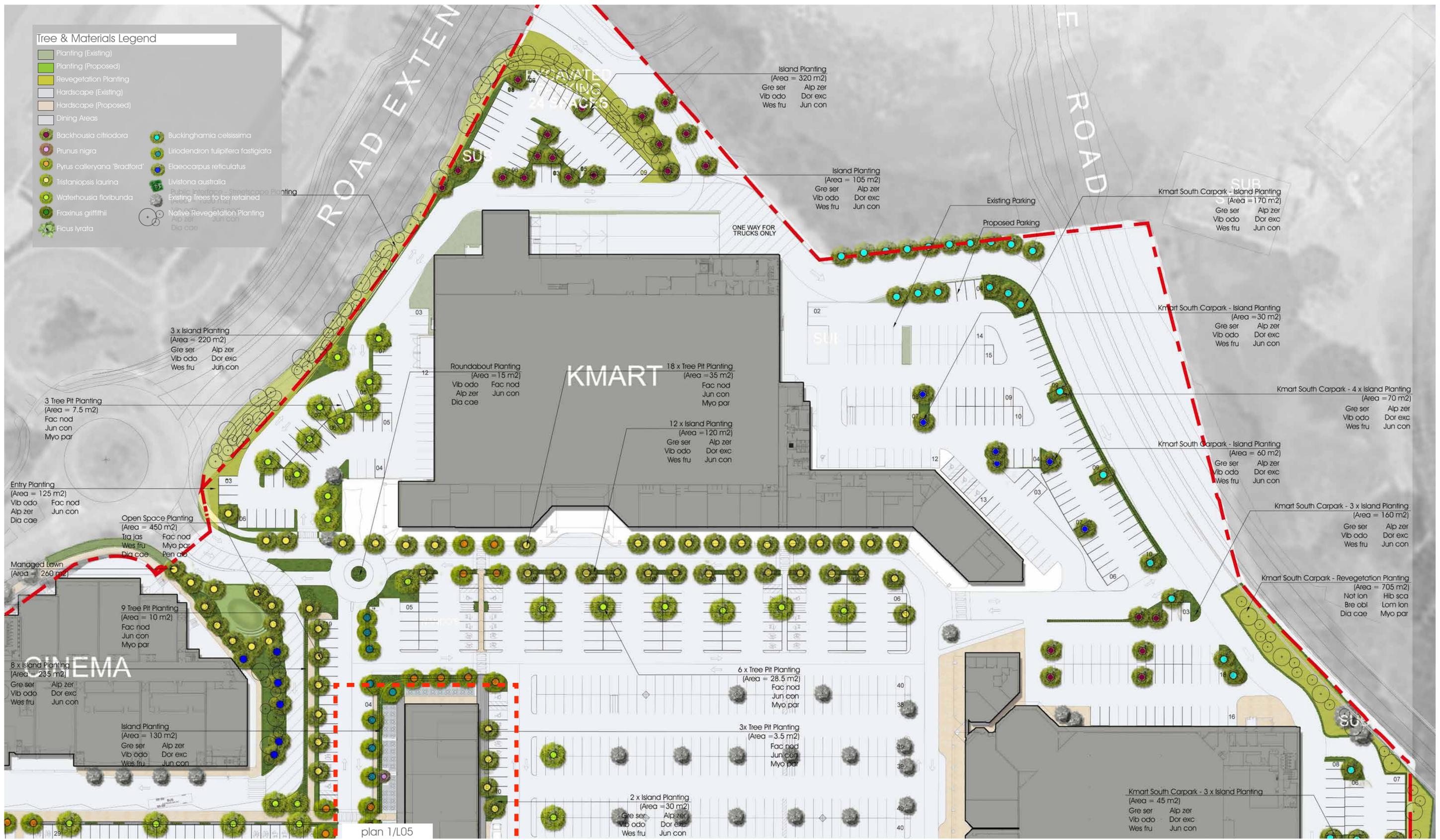
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DA- L01

Tree & Materials Legend

- Planting (Existing)
 - Planting (Proposed)
 - Revegetation Planting
 - Hardscape (Existing)
 - Hardscape (Proposed)
 - Dining Areas
-
- Backhousia citrifodora
 - Buckinghamia celsissima
 - Prunus nigra
 - Liiodendron tulipifera fastigiata
 - Pyrus calleryana 'Bradford'
 - Elaeocarpus reticulatus
 - Tristaniopsis laurina
 - Livistona australia
 - Existing Trees to be retained
 - Native Revegetation Planting
 - Fraxinus griffithii
 - Ficus lyrata
 - Dia cae



1 Core Upgrade Area - Plan 1
1:1000@A1



1 Core Upgrade Area - Plan 2
1:1000@A1



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Landscape Masterplan - Core Area Plan
Sheet 2 of 3



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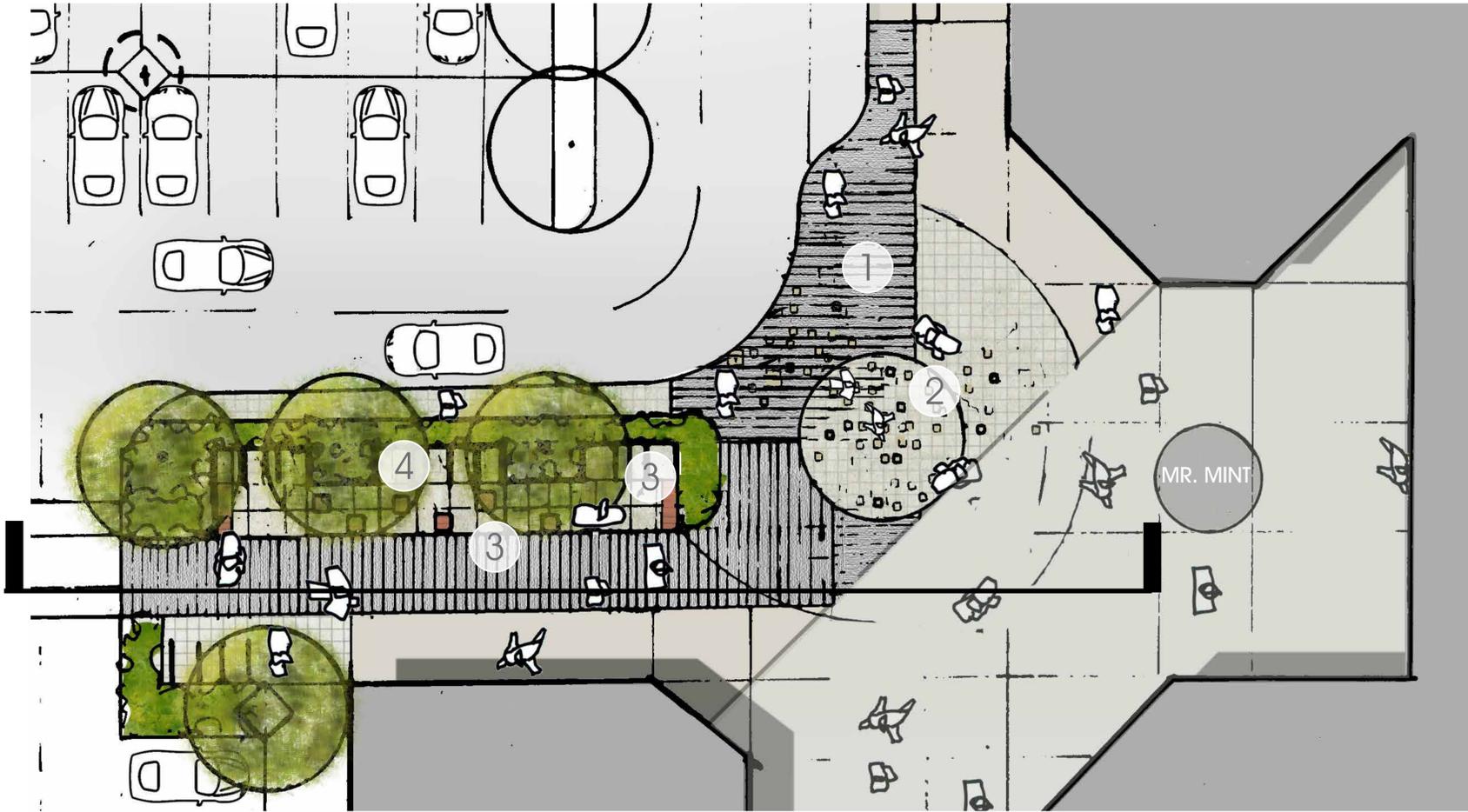
DA- L03

Tree & Materials Legend

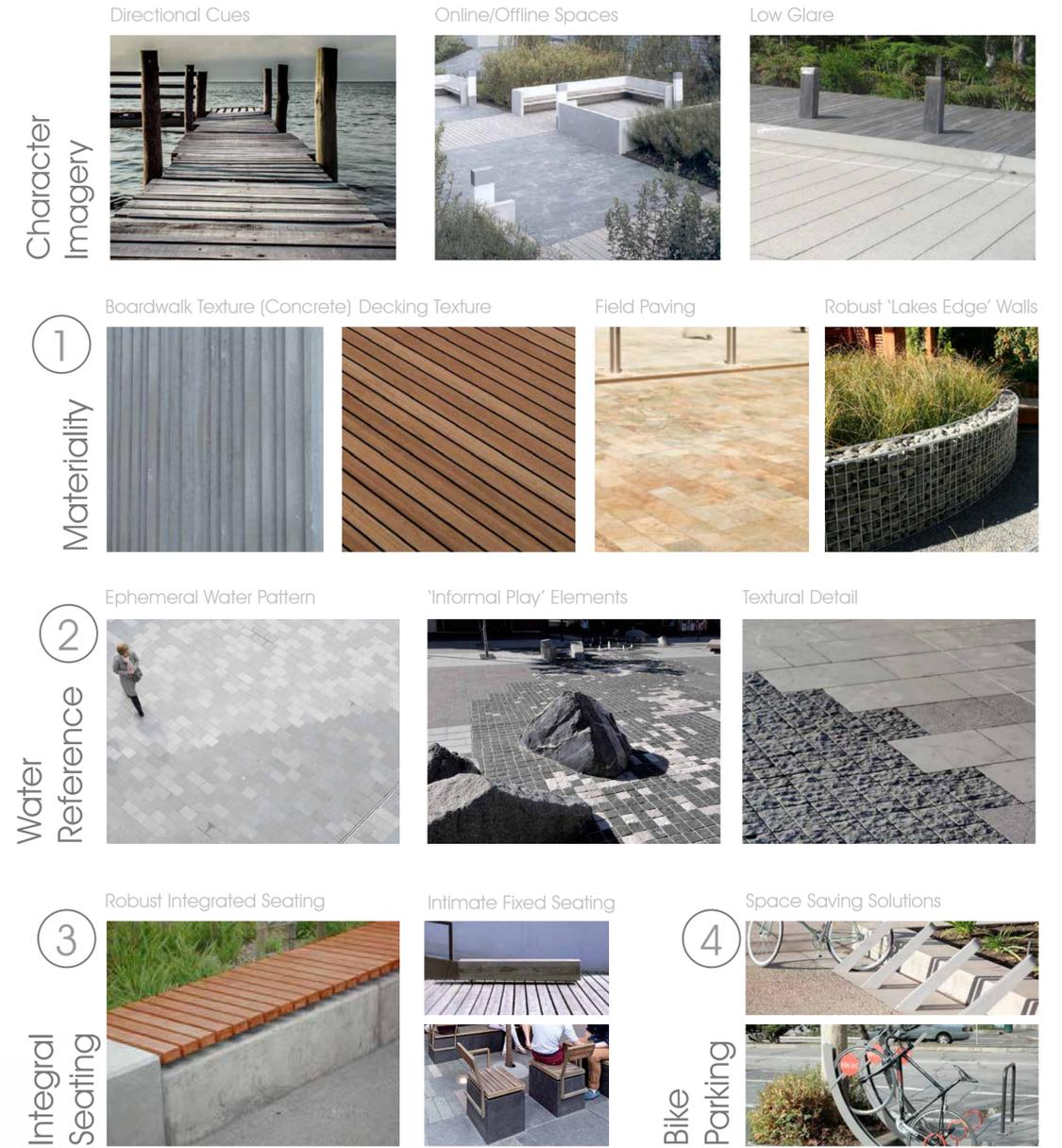
- Planting (Existing)
 - Planting (Proposed)
 - Revegetation Planting
 - Hardscape (Existing)
 - Hardscape (Proposed)
 - Dining Areas
-
- Backhousia citrifodora
 - Prunus nigra
 - Pyrus calleryana 'Bradford'
 - Tristaniopsis laurina
 - Waterhousia floribunda
 - Fraxinus griffithii
 - Ficus lyrata
 - Buckinghamia celsissima
 - Liriodendron tulipifera fastigiata
 - Elaeocarpus reticulatus
 - Livistona australis
 - Existing Trees to be retained
 - Native Revegetation Planting



1 Core Upgrade Area - Plan 3
1:1000@A1



1 Detail Plan - Pedestrian Meeting Point, Eastern
1:100@A1



2 Elevation - Pedestrian Meeting Point, Eastern
NTS



1 Detail Plan - Shareway
1:100@A1



Character Imagery

- Directional Cues:
- Online/Offline Spaces:
- Low Glare:

1 Materiality

- Concrete (Boardwalk) Decking Texture:
- Field Paving:

2 Raised Planters

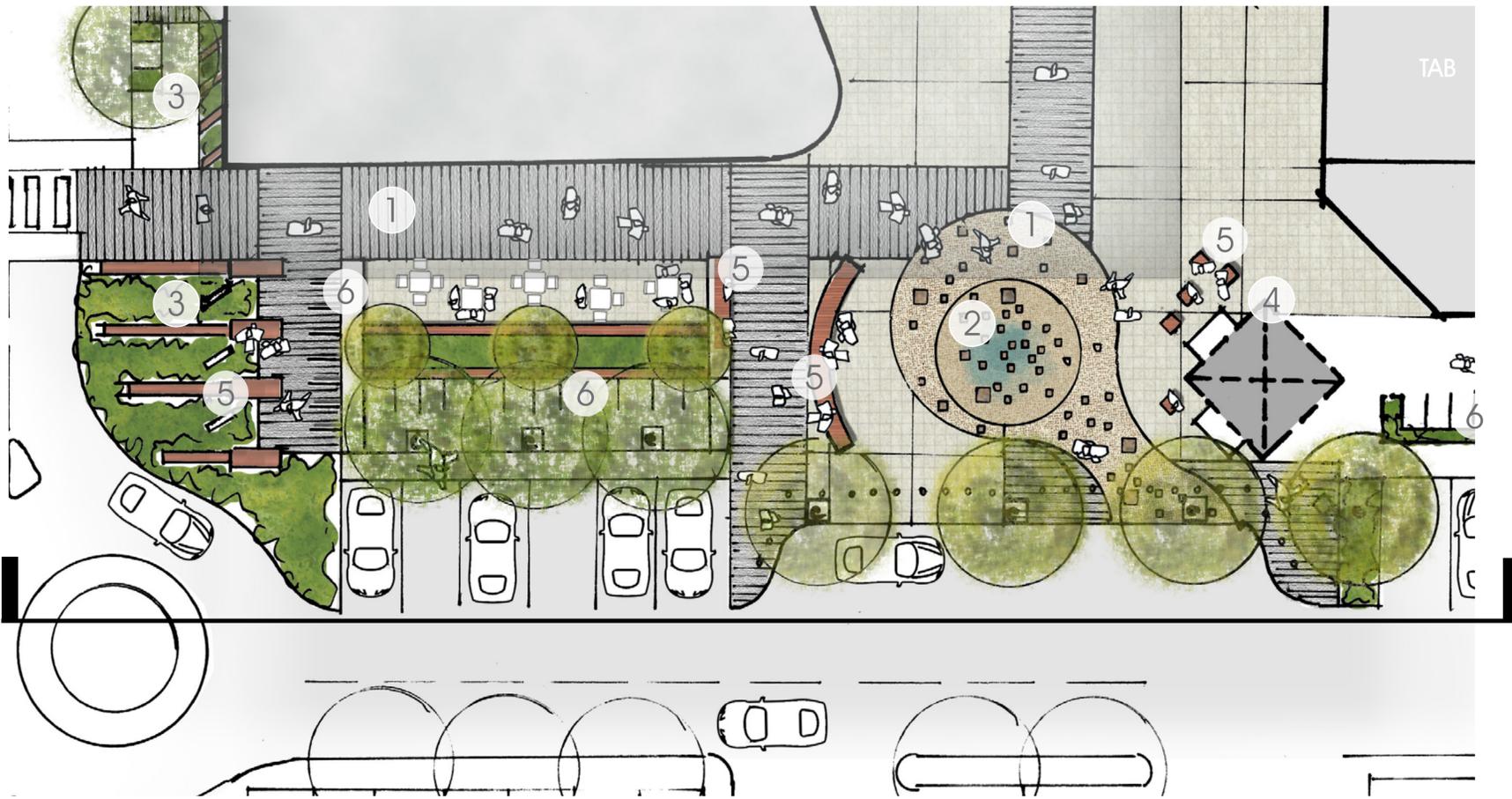
- Raised Planters:
- Robust 'Lakes Edge' Walls:

3 Integral Seating

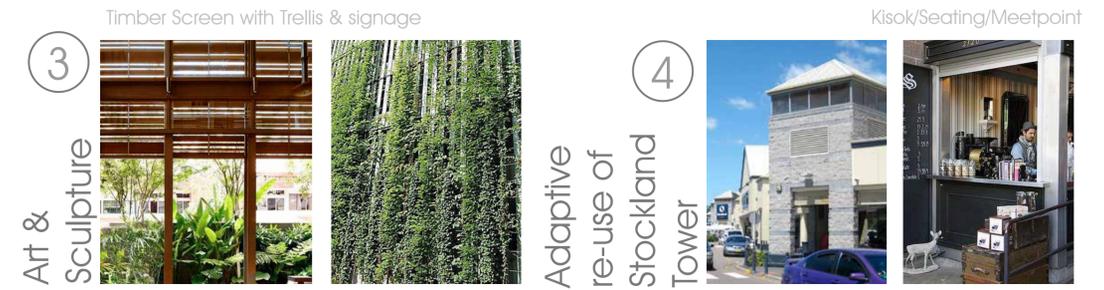
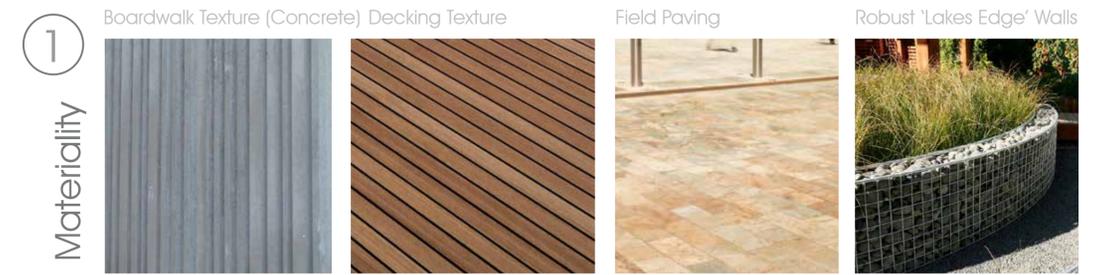
- 24 hour 8-80 Demographic:
- Robust Integrated Seating:
- Intimate Fixed Seating:



2 Elevation - Shareway
NTS



1 Detail Plan - Pedestrian Meeting Point, Western
1:100@A1



2 Elevation - Pedestrian Meeting Point, Western
NTS



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Detail Landscape Design - Western Meeting Point
Sheet 3 of 3



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DA-L07