

# Moorebank Precinct West Stage 2 Proposal Response to Submissions

## Appendix B: Landscape design statement and plans



**SIMTA**

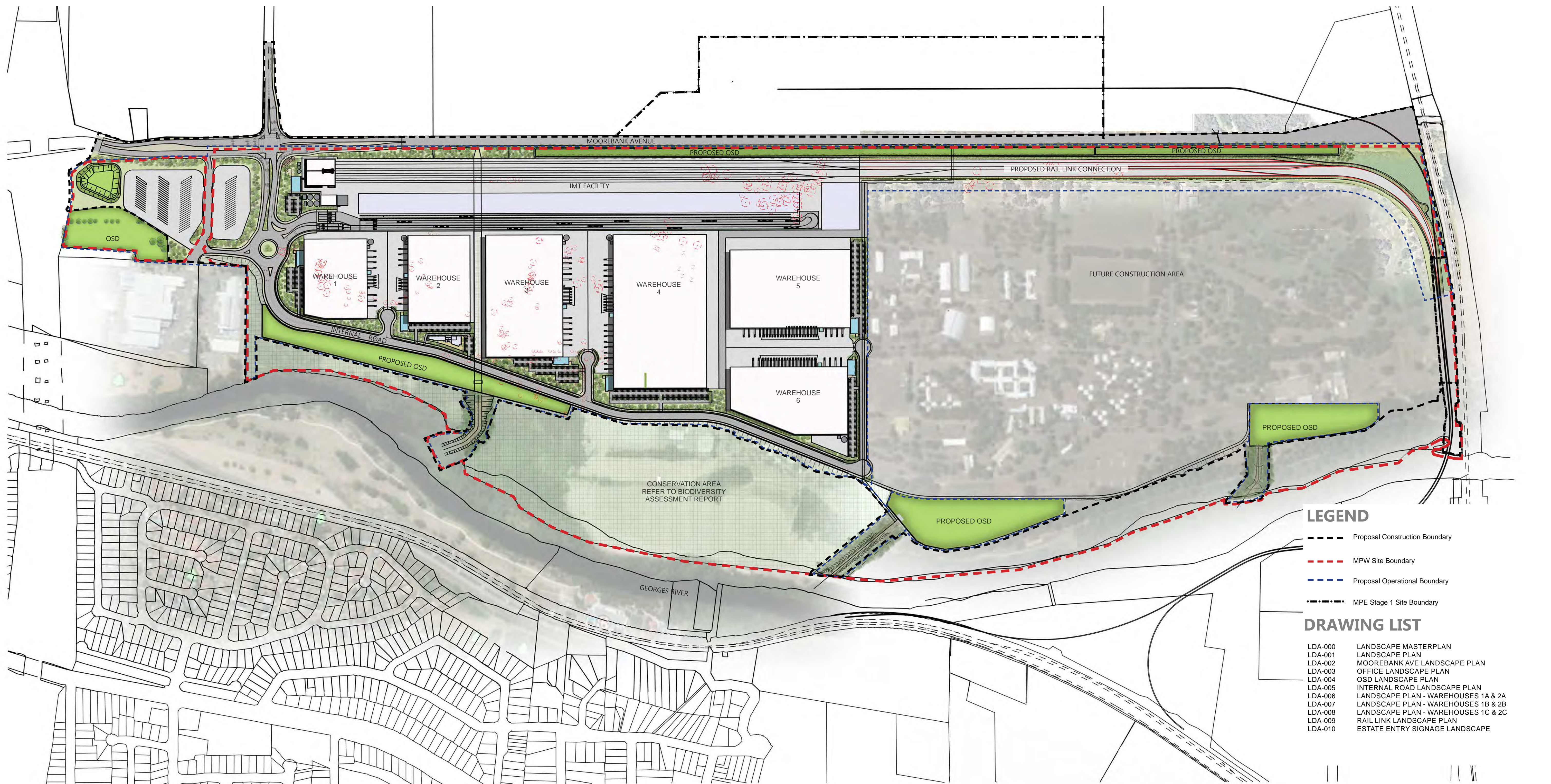
SYDNEY INTERMODAL TERMINAL ALLIANCE

Part 4, Division 4.1, State Significant  
Development



# MOOREBANK PRECINCT WEST STAGE 2

## LANDSCAPE PLAN



- LEGEND**
- Proposal Construction Boundary
  - MPW Site Boundary
  - Proposal Operational Boundary
  - MPE Stage 1 Site Boundary

- DRAWING LIST**
- |         |                                     |
|---------|-------------------------------------|
| LDA-000 | LANDSCAPE MASTERPLAN                |
| LDA-001 | LANDSCAPE PLAN                      |
| LDA-002 | MOOREBANK AVE LANDSCAPE PLAN        |
| LDA-003 | OFFICE LANDSCAPE PLAN               |
| LDA-004 | OSD LANDSCAPE PLAN                  |
| LDA-005 | INTERNAL ROAD LANDSCAPE PLAN        |
| LDA-006 | LANDSCAPE PLAN - WAREHOUSES 1A & 2A |
| LDA-007 | LANDSCAPE PLAN - WAREHOUSES 1B & 2B |
| LDA-008 | LANDSCAPE PLAN - WAREHOUSES 1C & 2C |
| LDA-009 | RAIL LINK LANDSCAPE PLAN            |
| LDA-010 | ESTATE ENTRY SIGNAGE LANDSCAPE      |

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Architect

**REIDCAMPBELL**

Project Manager

**TACTICAL GROUP**

Issue	Date	Description	Drawn	Checked
A	3.8.16	FOR DEVELOPMENT APPLICATION	BH	RL
B	29.5.17	FOR DEVELOPMENT APPLICATION	BH	RL

Landscape Architect

**groundink.**

landscape architecture · design · visuals

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Project

**MOOREBANK PRECINCT WEST STAGE 2**

Project Address

Moorebank Avenue, Moorebank, NSW

Date	Revision	Job Number	Drawing Number
29.05.2017	B	20150728	LDA-000
Scale			North
1:4000 @ A1 (1:8000 @ A3)			
0 20 40 60 80 100m			
Drawing Name			
LANDSCAPE MASTERPLAN			





JOINS TO DRAWING LDA-009

## LEGEND

- Proposed Canopy Tree Planting (refer to Plant Schedules on relevant plans)
- Proposal Construction Boundary
- MPE Stage 1 Site Boundary
- MPW Site Boundary
- Proposal Operational Boundary
- Proposed Landscape Area
- Conservation Area (refer to Biodiversity Assessment Report)
- Proposed Noise Wall to Engineer's Details
- Indicative Truck Parking
- SSFL / Main South Train Line
- Existing Trees to be Removed
- Existing Trees to be Retained

## LANDSCAPE DESIGN STATEMENT

The Moorebank Precinct West Stage 2 Proposal involves the development of an intermodal terminal facility including warehouses and distribution facilities, stormwater, landscaping, servicing and associated works west of Moorebank Avenue. The Proposal also includes a Rail link connection. The Proposal interfaces with a vegetation conservation area.

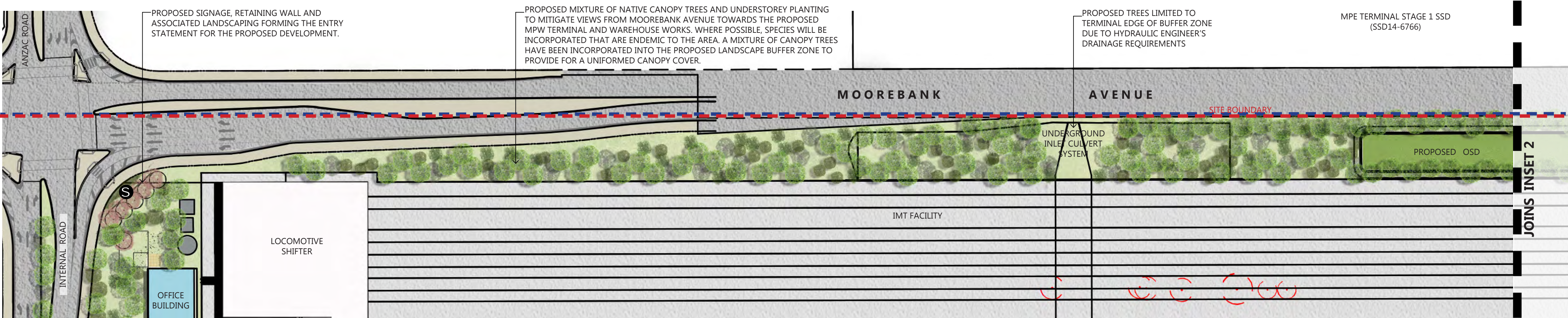
- The focus of the proposed landscape works includes:
- The integration of the Moorebank Avenue frontage,
  - Landscape works associated with internal roads,
  - Landscape works associated with proposed warehouses,
  - Landscape works interface with the vegetation conservation areas.

Given that the site is bounded to the south with existing vegetation communities, the landscape design serves to integrate the development with the surrounding environment by using tree, shrub and groundcover species that are local to the area to create habitat opportunities and links to the surrounding context. The proposed tree planting has been designed with the intent of creating a uniform canopy cover throughout the area. Proposed plant species have been selected for their site-suitability with many species selected from Liverpool City Council's recommended plant list.

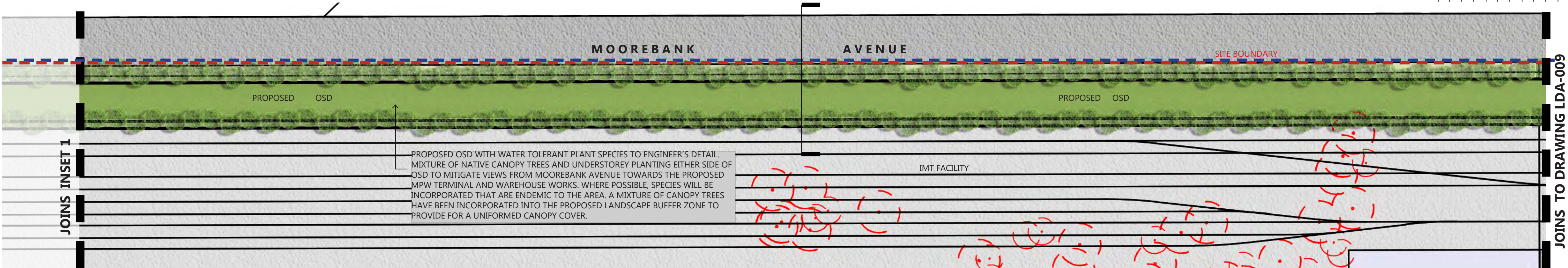
The positioning of the built forms has maximised planting opportunities along the western side of the site. Large trees planted within this area will serve to minimise visual impacts from the surrounding urban landscape.

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			A	3.8.16	FOR DEVELOPMENT APPLICATION	BH	RL				
			B	29.5.17	FOR DEVELOPMENT APPLICATION	BH	RL				

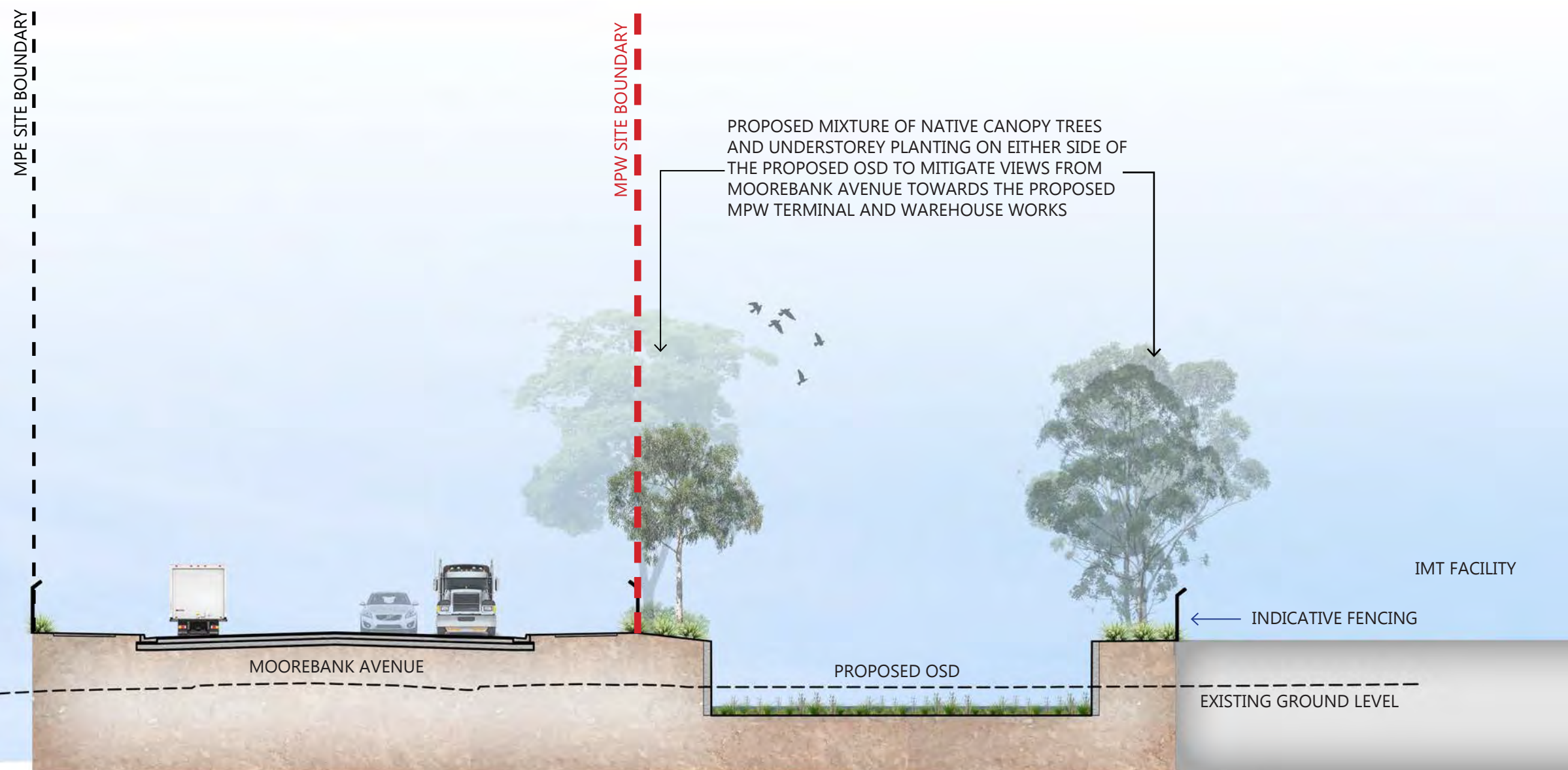




MOOREBANK AVENUE LANDSCAPE PLAN - INSET 1



MOOREBANK AVENUE LANDSCAPE PLAN - INSET 2



MOOREBANK AVENUE OSD LANDSCAPE SECTION

SCALE: 1:200 @ A1 (1:400 @ A3)

## INDICATIVE PLANT SCHEDULE

BOTANICAL NAME	COMMON NAME	NATIVE	MATURE HEIGHT	INSTALL SIZE
<strong>Trees</strong>				
<i>Acmena smithii</i>	Lilly-pilly	✓	12m	100L
<i>Allocasuarina littoralis</i>	Black She-Oak	✓	10m	100L
<i>Angophora bakeri</i>	Narrow-leaved Apple	✓	10m	100L
<i>Angophora floribunda</i>	Rough-barked Apple	✓	20m	100L
<i>Angophora subvelutina</i>	Broad-leaved Apple	✓	20m	100L
<i>Casuarina glauca</i>	Swamp Oak, Swamp She-oak	✓	18m	100L
<i>Corymbia eximia</i>	Yellow Bloodwood	✓	16m	100L
<i>Corymbia maculata</i>	Spotted Gum	✓	20-25m	100L
<i>Eucalyptus amplifolia</i>	Cabbage Gum	✓	20-25m	100L
<i>Eucalyptus crebra</i>	Narrow-leaved Ironbark	✓	15m	100L
<i>Eucalyptus fibrosa</i>	Red Ironbark	✓	20-25m	100L
<i>Eucalyptus longifolia</i>	Woollybutt	✓	20-25m	100L
<i>Eucalyptus moluccana</i>	Grey Box	✓	20m	100L
<i>Eucalyptus parramattensis</i>	Parramatta Red Gum	✓	8m	45L
<i>Eucalyptus punctata</i>	Grey Gum	✓	10-25m	100L
<i>Eucalyptus racemosa</i>	Snappy Gum, Scribbly Gum	✓	15m	100L
<i>Eucalyptus sclerophylla</i>	Hard-leaved Scribbly Gum	✓	15-20m	100L
<i>Eucalyptus sideroxylon</i>	Mugha, Red Ironbark	✓	25m	100L
<i>Eucalyptus tereticornis</i>	Forest Red Gum	✓	20-25m	100L
<i>Melaleuca decora</i>	White Cloud Tree	✓	6-10m	45L
<i>Melaleuca linariifolia</i>	Flax-leaved Paperbark	✓	10m	45L
<strong>Shrubs</strong>				
<i>Acacia brownii</i>	Golden Prickly Moses	✓	1m	200mm
<i>Acacia decurrens</i>	Black Wattle	✓	10-15m	200mm
<i>Acacia falcata</i>	Sickle Wattle	✓	4m	200mm
<i>Acacia floribunda</i>	White Sally	✓	4m	200mm
<i>Acacia paramattensis</i>	Parramatta Green Wattle	✓	10m	200mm
<i>Bossiaea heterophylla</i>	Variable Bossiaea	✓	1m	200mm
<i>Bossiaea scolopendria</i>	Bossiaea	✓	1m	200mm
<i>Breynia oblongifolia</i>	Coffee Bush	✓	3m	200mm
<i>Bursaria spinosa</i>	Boxthorn	✓	5-10m	200mm
<i>Callistemon citrinus</i>	Scarlet Bottlebrush	✓	4m	200mm
<i>Callistemon linearis</i>	Narrow-leaved Bottlebrush	✓	3m	200mm
<i>Callistemon salignus</i>	White Bottlebrush, Pink-tips	✓	9m	200mm

BOTANICAL NAME	COMMON NAME	NATIVE	MATURE HEIGHT	INSTALL SIZE
<i>Daviesia ulicifolia</i>	Gorse Bitter-pea	✓	2m	200mm
<i>Dillwynia parvifolia</i>	Small Dillwynia	✓	0.3-1m	200mm
<i>Hakea dactyloides</i>	Finger Hakea	✓	4m	200mm
<i>Hakea salicifolia</i>	Willow Hakea	✓	5m	200mm
<i>Hakea sericea</i>	Needlebush, Silky Hakea	✓	3m	200mm
<i>Hakea teretifolia</i>	Needlebush, Dagger Hakea	✓	2m	200mm
<i>Kunzea ambigua</i>	Tick-bush	✓	2.5m	200mm
<i>Leptospermum polygalifolium</i>	Tantoon	✓	0.5-3m	200mm
<i>Leptospermum trinervium</i>	Slender Tea-tree	✓	4m	200mm
<i>Melaleuca armillaris</i>	Bracelet Honey-myrtle	✓	5m	200mm
<i>Melaleuca erubescens</i>	Rosy Honey-myrtle	✓	2m	200mm
<i>Melaleuca nodosa</i>	Ball Honey-myrtle	✓	4m	200mm
<i>Melaleuca thymifolia</i>	Thyme Honey-myrtle	✓	0.8m	200mm
<i>Notelaea longifolia</i>	Mock-olive	✓	9m	200mm
<i>Philotheca salsolifolia</i>	Philotheca	✓	1m	200mm
<i>Pittosporum undulatum</i>	Pittosporum	✓	10m	200mm
<i>Pultenaea retusa</i>	Notched Bush-pea	✓	2.5m	200mm
<i>Pultenaea tuberculata</i>	Wreath Bush Pea	✓	1m	200mm
<i>Pultenaea villosa</i>	Hairy Bush-pea	✓	1.5m	200mm
<strong>Groundcovers</strong>				
<i>Austrodanthonia fulva</i>	Wallaby Grass	✓	0.7m	150mm
<i>Billardiera scandens</i>	Hairy Apple Berry	✓	0.5m	150mm
<i>Dampiera stricta</i>	Blue Dampiera	✓	0.5m	150mm
<i>Dianella caerulea</i>	Blue Flax-lily	✓	0.6m	150mm
<i>Dianella revoluta</i>	Blue Flax-lily	✓	0.8m	150mm
<i>Dichondra repens</i>	Kidney-weed	✓	0.3m	150mm
<i>Hardenbergia violacea</i>	False Sarsaparilla	✓	Creepers	150mm
<i>Imperata cylindrica</i>	Blady Grass	✓	1.2m	150mm
<i>Lomandra longifolia</i>	Spiny-headed Mat-rush	✓	0.7m	150mm
<i>Microlaena stipoides</i>	Weeping Grass	✓	0.7m	150mm
<i>Themeda australis</i>	Kangaroo Grass	✓	0.8m	150mm

## KEY PLAN



## LEGEND

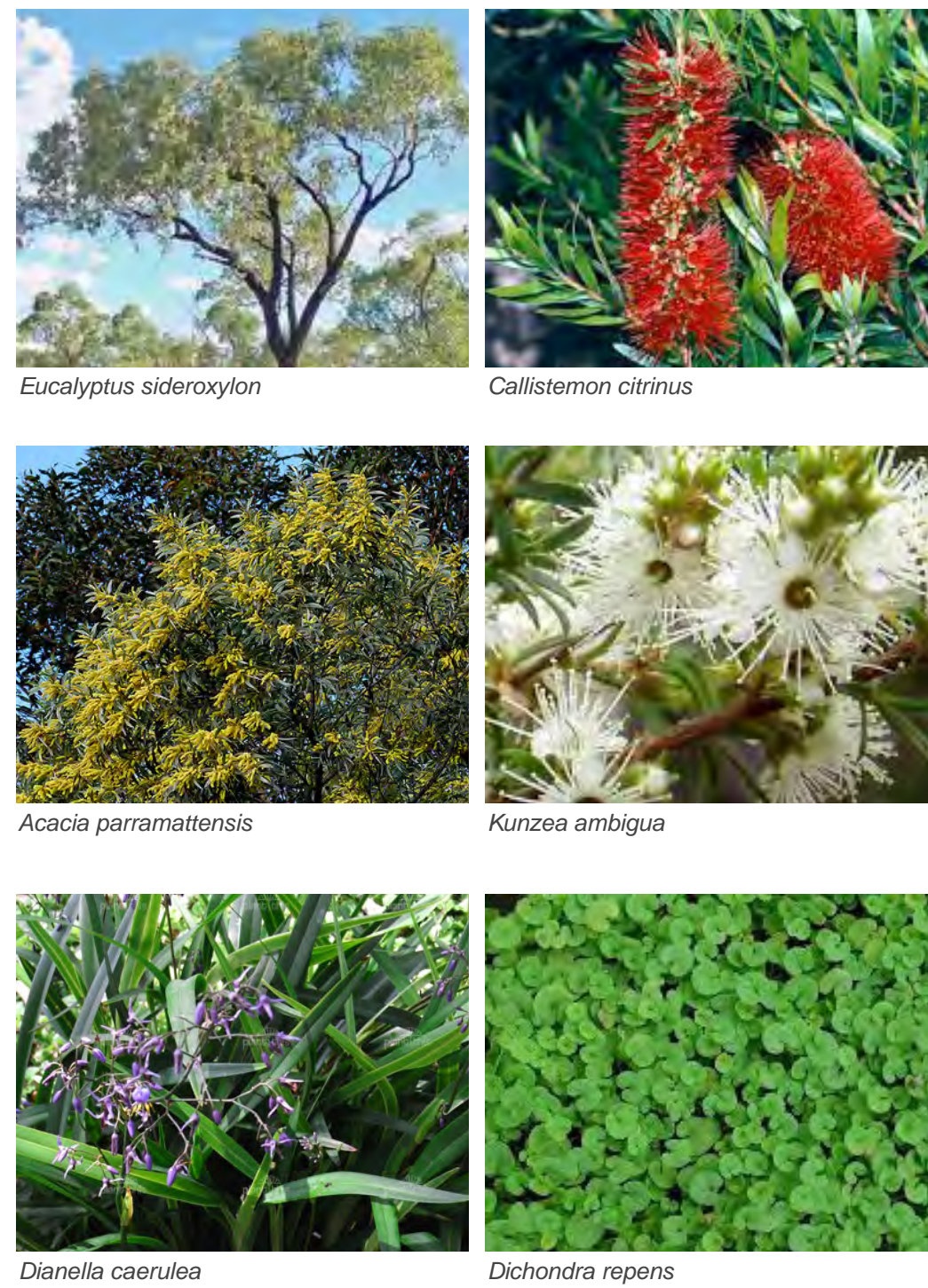
- Proposed Canopy Tree Planting (refer to Plant Schedules on relevant plans)
- MPE Stage 1 Site Boundary
- MPW Site Boundary
- Proposal Operational Boundary
- Proposed Landscape Area
- Proposed Site Signage refer to Architectural Drawing 115123\_A\_SSD\_5000
- Existing Trees to be Removed


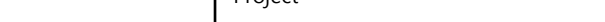
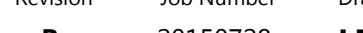
## DESIGN STATEMENT

Planting along the western side of Moorebank Avenue serves to provide significant screening for the proposal. Plants, with a variety of tree and shrub heights will modulate views with a rich variety of forms, colours and textures. A diversity of species will enhance existing habitat values for the area.

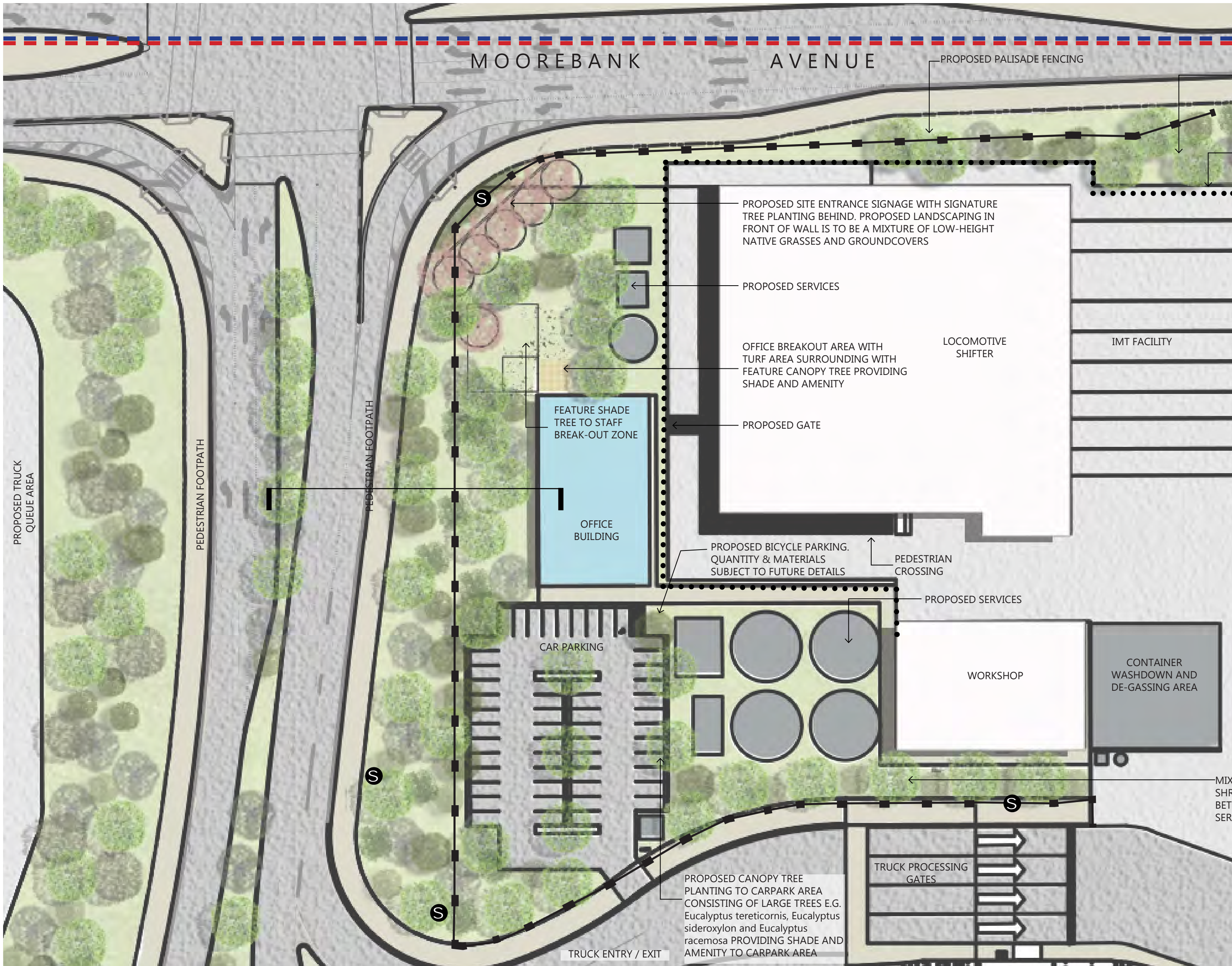
Proposed plant species have been selected for their site-suitability with many species selected from Liverpool City Council's recommended plant list.

## PLANT IMAGES



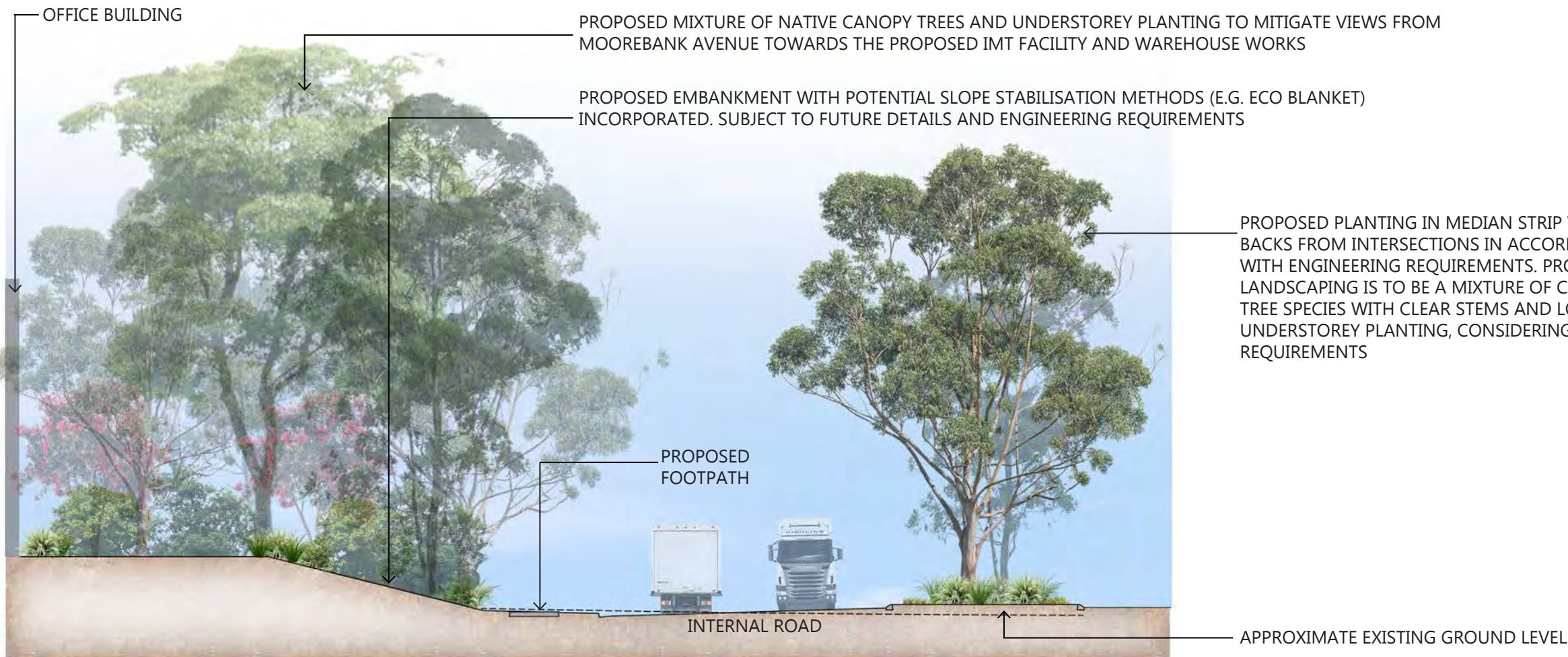
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			A	3.8.16	FOR DEVELOPMENT APPLICATION	BH	RL			29.05.2017	B	20150728	LDA-002
			B	29.5.17	FOR DEVELOPMENT APPLICATION	BH	RL			Scale 1:1000 @ A1 (1:2000 @ A3) 0 5 10 20 30 40 50m North			
							Drawing Name MOOREBANK AVENUE LANDSCAPE PLAN						





OFFICE LANDSCAPE PLAN

SCALE: 1:1000 @ A1 (1:2000 @ A3)



OFFICE LANDSCAPE SECTION

SCALE: 1:200 @ A1 (1:400 @ A3)

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Architect

Project Manager

Issue	Date	Description	Drawn	Checked
A	3.8.16	FOR DEVELOPMENT APPLICATION	BH	RL
B	29.5.17	FOR DEVELOPMENT APPLICATION	BH	RL

Landscape Architect

landscape architecture · design · visuals

ABN 55 163 025 45 ACN 163 025 456

Suite 201, 75 Archer St, Chatswood NSW 2067

Ph (02) 9411 3279 www.groundink.com.au

Project

MOOREBANK PRECINCT WEST STAGE 2

Project Address

Moorebank Avenue, Moorebank, NSW

Date	Revision	Job Number	Drawing Number
29.05.2017	B	20150728	LDA-003
Scale			
1:1000 @ A1 (1:2000 @ A3)			
0 5 10 20 30 40 50m			
Drawing Name			
OFFICE LANDSCAPE PLAN			

KEY PLAN



LEGEND

- Proposed Canopy Tree Planting (refer to Plant Schedules on relevant plans)
- MPW Site Boundary
- Proposed Landscape Area
- Proposed security fence line
- Proposed palisade fence line
- Proposed feature tree
- Proposed Site Signage refer to Architectural Drawing 115123\_A\_SSD\_5000
- Existing Trees to be Removed

DESIGN STATEMENT

The corner of Moorebank Avenue and the new Internal Road will accommodate an administration building. The intent of the landscaping is to integrate the built works of the Proposal with the greater landscape character of the Moorebank area and neighbouring sites.

The landscape for the main entrance aims to provide an easily-orientated pathway for visitors and workers of the site. Vehicular, pedestrian and bicycle entry are all integrated into one cohesive entry for the site. Proposed signage will use geometries and forms that strongly relate to rail transport. Signage will incorporate a natural looking material which has a strong association with bushland landscapes. Planting will provide significant screening from the roadway to the built structures of the site. It will use a range of local species that have been selected for their unique forms, colours and textures. Proposed plant species have been selected for their site-suitability with many species selected from Liverpool City Council's recommended plant list.

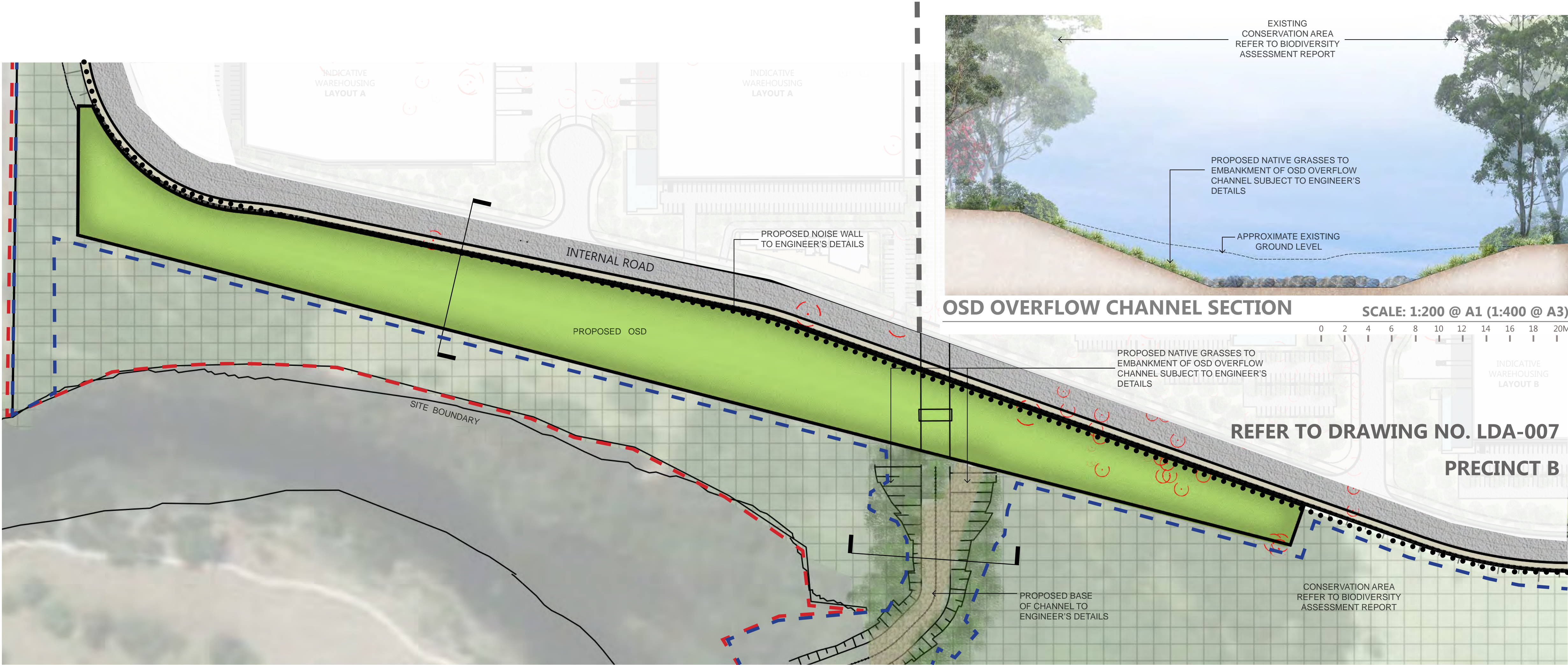
PLANT IMAGES



INDICATIVE PLANT SCHEDULE

BOTANICAL NAME	COMMON NAME	NATIVE	EXPECTED MATURE HEIGHT	INSTALL SIZE
Trees				
Allocasuarina littoralis	Black She-Oak	✓	10m	100L
Eucalyptus racemosa	Snappy Gum, Scribbly Gum	✓	15m	100L
Eucalyptus sideroxylon	Mugga, Red Ironbark	✓	20-25m	100L
Eucalyptus tereticornis	Forest Red Gum	✓	20-25m	100L
Melaleuca decora	White Cloud Tree	✓	6-10m	45L
Melaleuca linariifolia	Flax-leaved Paperbark	✓	10m	45L
Shrubs				
Acacia brownii	Golden Prickly Moses	✓	1m	200mm
Acacia parramattensis	Parramatta Green Wattle	✓	10m	200mm
Callistemon citrinus	Scarlet Bottlebrush	✓	4m	200mm
Callistemon linearis	Narrow-leaved Bottlebrush	✓	3m	200mm
Callistemon salignus	White Bottlebrush, Pink-tips	✓	9m	200mm
Kunzea ambigua	Tick-bush	✓	2.5m	200mm
Melaleuca nodosa	Ball Honey-myrtle	✓	4m	200mm
Pittosporum undulatum	Pittosporum	✓	10m	200mm
Groundcovers				
Austrodanthonia fulva	Wallaby Grass	✓	0.7m	150mm
Dianella caerulea	Blue Flax-lily	✓	0.6m	150mm
Dianella revoluta	Blue Flax-lily, Spreading Flax-lily	✓	0.8m	150mm
Dichondra repens	Kidney-weed, Mercury Bay Weed	✓	0.3m	150mm
Hardenbergia violacea	False Sarsaparilla	✓	Creeper	150mm
Lomandra longifolia	Spiny-headed Mat-rush	✓	0.7m	150mm
Microlaena stipoides	Weeping Grass, Meadow Rice-grass	✓	0.7m	150mm
Themeda australis	Kangaroo Grass	✓	0.8m	150mm





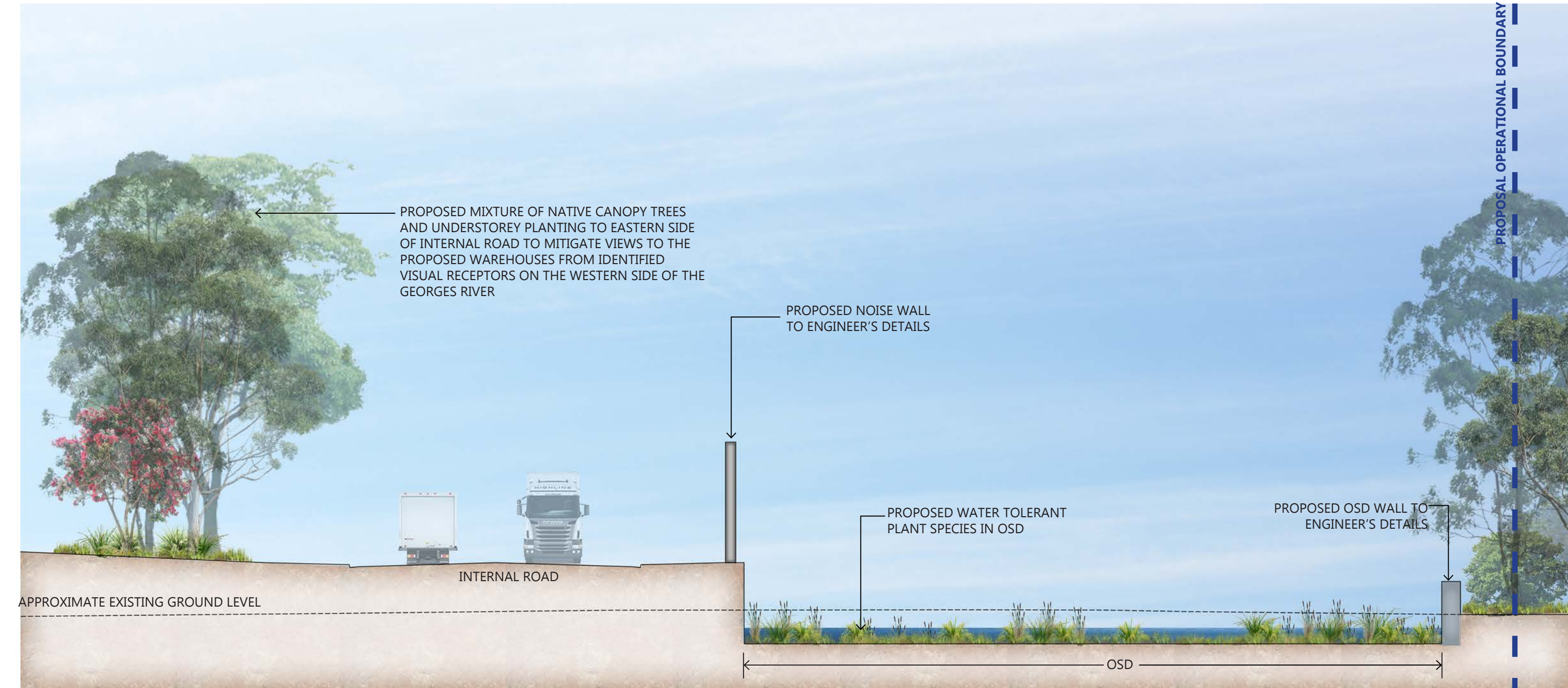
- LEGEND**
- Proposed Canopy Tree Planting (refer to Plant Schedules on relevant plans)
  - MPW Site Boundary
  - Proposal Operational Boundary
  - Conservation Area (refer to Biodiversity Assessment Report)
  - Proposed Noise Wall (refer to engineer's details)
  - Existing Trees to be Removed

### DESIGN STATEMENT

Planting within the conservation area is restricted to areas disturbed during the construction of the OSD overflow channel illustrated on this drawing.

Planting within the overflow channel is limited to the embankments as shown in the indicative section on this drawing. The proposed plant selections are local species which will integrate the infrastructure with the existing landscape. The selected species are also appropriate for the fluctuating hydrology of the channel. This will create biological connections in the landscape.

Proposed plant species have been selected for their site-suitability with many species selected from Liverpool City Council's recommended plant list.



### INDICATIVE PLANT SCHEDULE

BOTANICAL NAME	COMMON NAME	NATIVE	EXPECTED MATURE HEIGHT	INSTALL SIZE
<b>Groundcovers</b>				
<i>Baumea articulata</i>	Jointed Twig-rush	✓	1-2m	150mm
<i>Bolboschoenus fluvialis</i>	Club-rush	✓	1m	150mm
<i>Carex appressa</i>	Tall Sedge	✓	0.8m	150mm
<i>Carex breviculmis</i>	Short-Stem Sedge	✓	0.4m	150mm
<i>Dampiera stricta</i>	Blue Dampiera	✓	0.3m	150mm
<i>Dichondra repens</i>	Kidney-weed, Mercury Bay Weed	✓	0.3m	150mm
<i>Gahnia clarkii</i>	Tall Saw-sedge	✓	1.5m	150mm
<i>Goodenia hederacea</i>	Ivy Goodenia	✓	0.5m	150mm
<i>Hemarthra uncinata</i>	Mat Grass	✓	1m	150mm
<i>Isolepis inundata</i>	Water Club-rush	✓	0.5m	150mm
<i>Juncus continuus</i>	Rush	✓	1m	150mm
<i>Juncus prismatocarpus</i>	Branching Rush	✓	0.6m	150mm
<i>Juncus usitatus</i>	Common Rush	✓	1m	150mm
<i>Laxmannia gracilis</i>	Slender Wire Lily	✓	0.2m	150mm
<i>Leptocarpus tenax</i>	Slender Twine Rush	✓	0.4m	150mm
<i>Lepyradia scariosa</i>	Scale Rush	✓	0.9m	150mm
<i>Microlaena stipoides</i>	Weeping Grass, Meadow Rice-grass	✓	0.7	150mm
<i>Philydrum lanuginosum</i>	Woolly Waterlily, Frogmouth	✓	2m	150mm
<i>Schoenus apogon</i>	Fluke Bag-rush, Common Bag-rush	✓	0.2m	150mm

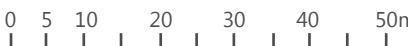
### PLANT IMAGES







**SCALE: 1:1000 @ A1 (1:2000 @ A3)**



**S** Proposed Site Signage refer to Architectural Drawing  
115123\_A\_SSD\_5000

 Existing Trees to be Removed

Areas of existing vegetation within the conservation area are, where possible, retained. In areas that are clear of vegetation, embankments are created linking the new levels of the internal road to the conservation area.

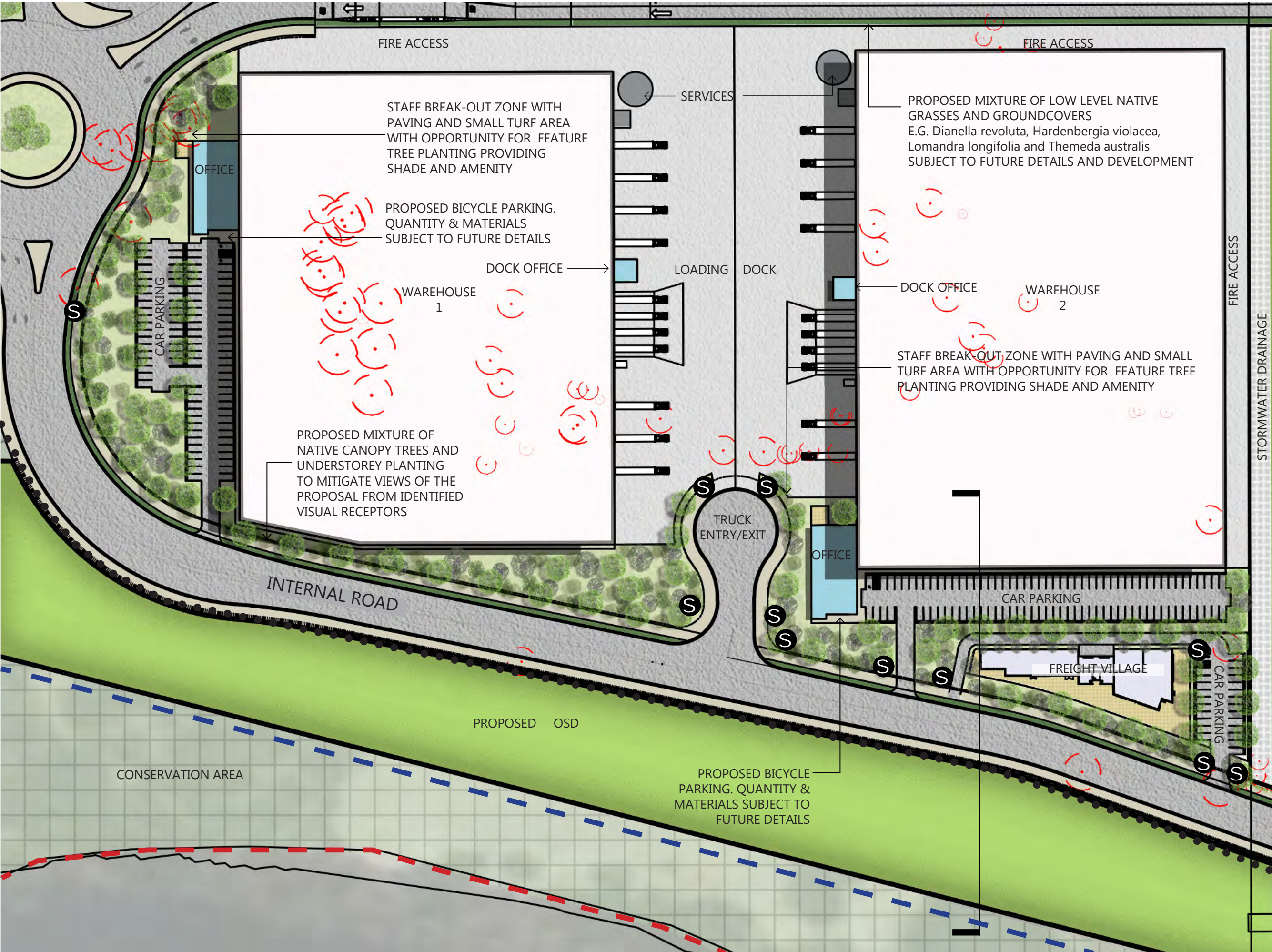
Embankments are to be planted with species that are found within the conservation area. This serves to enhance the habitat of the conservation area with species common to vegetation found within the area.

Proposed plant species have been selected for their site-suitability with many species selected from Liverpool City Council's recommended plant list.

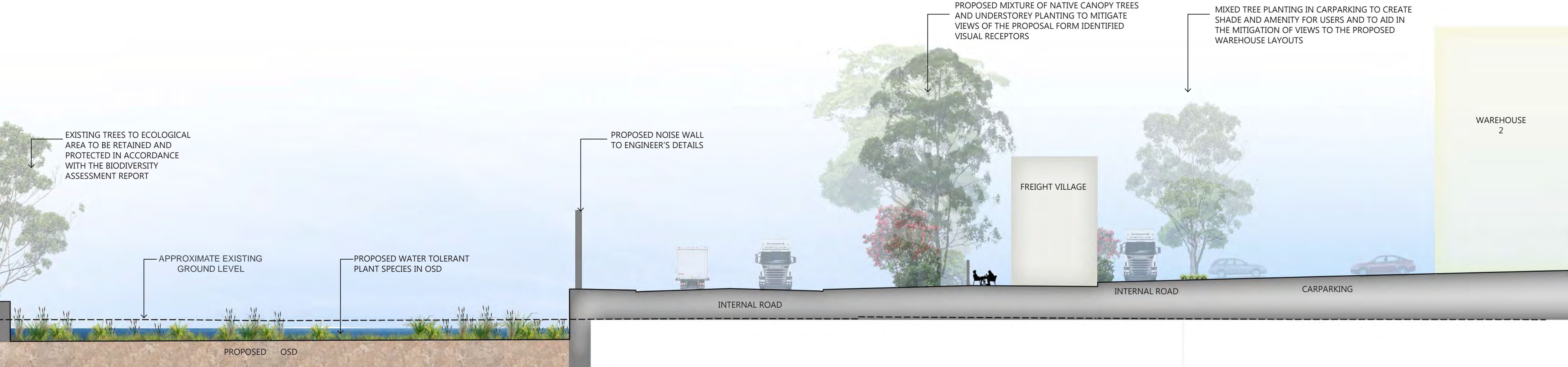


BOTANICAL NAME	COMMON NAME	NATIVE	EXPECTED MATURE HEIGHT	INSTALL SIZE
<b>Trees</b>				
<i>Corymbia maculata</i>	Spotted Gum	✓	20-25m	100L
<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	✓	20-25m	100L
<i>Eucalyptus tereticornis</i>	Forest Red Gum	✓	20-25m	100L
<i>Melaleuca decora</i>	White Cloud Tree	✓	6-10m	45L
<i>Melaleuca linariifolia</i>	Flax-leaved Paperbark	✓	10m	45L
<b>Shrubs</b>				
<i>Callistemon citrinus</i>	Scarlet Bottlebrush	✓	4m	200mm
<i>Callistemon salignus</i>	White Bottlebrush, Pink-tips	✓	9m	200mm
<i>Pittosporum undulatum</i>	Pittosporum	✓	10m	200mm
<b>Groundcovers</b>				
<i>Dianella caerulea</i>	Blue Flax-lily	✓	0.6m	150mm
<i>Dichondra repens</i>	Kidney-weed, Mercury Bay Weed	✓	0.3m	150mm
<i>Lomandra longifolia</i>	Spiny-headed Mat-rush	✓	0.7m	150mm





PRECINCT A LANDSCAPE PLAN



PRECINCT A LANDSCAPE SECTION

INDICATIVE PLANT SCHEDULE

BOTANICAL NAME	COMMON NAME	NATIVE	EXPECTED MATURE HEIGHT	INSTALL SIZE
<b>Trees</b>				
<i>Acmena smithii</i>	Lilly-pilly	✓	12m	100L
<i>Angophora bakeri</i>	Narrow-leaved Apple	✓	10m	100L
<i>Angophora floribunda</i>	Rough-barked Apple	✓	20m	100L
<i>Angophora subvelutina</i>	Broad-leaved Apple	✓	20m	100L
<i>Corymbia maculata</i>	Spotted Gum	✓	20-25m	100L
<i>Eucalyptus racemosa</i>	Snappy Gum, Scribbly Gum	✓	15m	100L
<i>Melaleuca decora</i>	White Cloud Tree	✓	6-10m	45L
<i>Melaleuca linariifolia</i>	Flax-leaved Paperbark	✓	10m	45L
<b>Shrubs</b>				
<i>Acacia decurrens</i>	Black Wattle	✓	10-15m	200mm
<i>Acacia falcata</i>	Sickle Wattle	✓	4m	200mm
<i>Acacia parramattensis</i>	Parramatta Green Wattle	✓	10m	200mm
<i>Bossiaea heterophylla</i>	Variable Bossiaea	✓	1m	200mm
<i>Callistemon citrinus</i>	Scarlet Bottlebrush	✓	4m	200mm
<i>Callistemon linearis</i>	Narrow-leaved Bottlebrush	✓	3m	200mm
<i>Callistemon salignus</i>	White Bottlebrush, Pink-tips	✓	9m	200mm
<i>Daviesia ulicifolia</i>	Gorse Bitter-pea	✓	2m	200mm
<i>Kunzea ambigua</i>	Tick-bush	✓	2.5m	200mm
<i>Leptospermum polygalifolium</i>	Tantoon	✓	0.5-3m	200mm
<i>Leptospermum trinervium</i>	Slender Tea-tree	✓	4m	200mm
<i>Melaleuca armillaris</i>	Bracelet Honey-myrtle	✓	5m	200mm
<i>Melaleuca nodosa</i>	Ball Honey-myrtle	✓	4m	200mm
<i>Melaleuca thymifolia</i>	Thyme Honey-myrtle	✓	0.8m	200mm
<i>Philotheca salsolifolia</i>	Philotheca	✓	1m	200mm
<i>Pittosporum undulatum</i>	Pittosporum	✓	10m	200mm
<b>Groundcovers</b>				
<i>Dianella caerulea</i>	Blue Flax-lily	✓	0.6m	150mm
<i>Dianella revoluta</i>	Blue Flax-lily, Spreading Flax-lily	✓	0.8m	150mm
<i>Dichondra repens</i>	Kidney-weed, Mercury Bay Weed	✓	0.3m	150mm
<i>Hardenbergia violacea</i>	False Sarsaparilla	✓	Creeping	150mm
<i>Imperata cylindrica</i>	Blady Grass	✓	1.2m	150mm
<i>Lomandra longifolia</i>	Spiny-headed Mat-rush	✓	0.7m	150mm
<i>Microlaena stipoides</i>	Weeping Grass, Meadow Rice-grass	✓	0.7m	150mm
<i>Themeda australis</i>	Kangaroo Grass	✓	0.8m	150mm

KEY PLAN



LEGEND

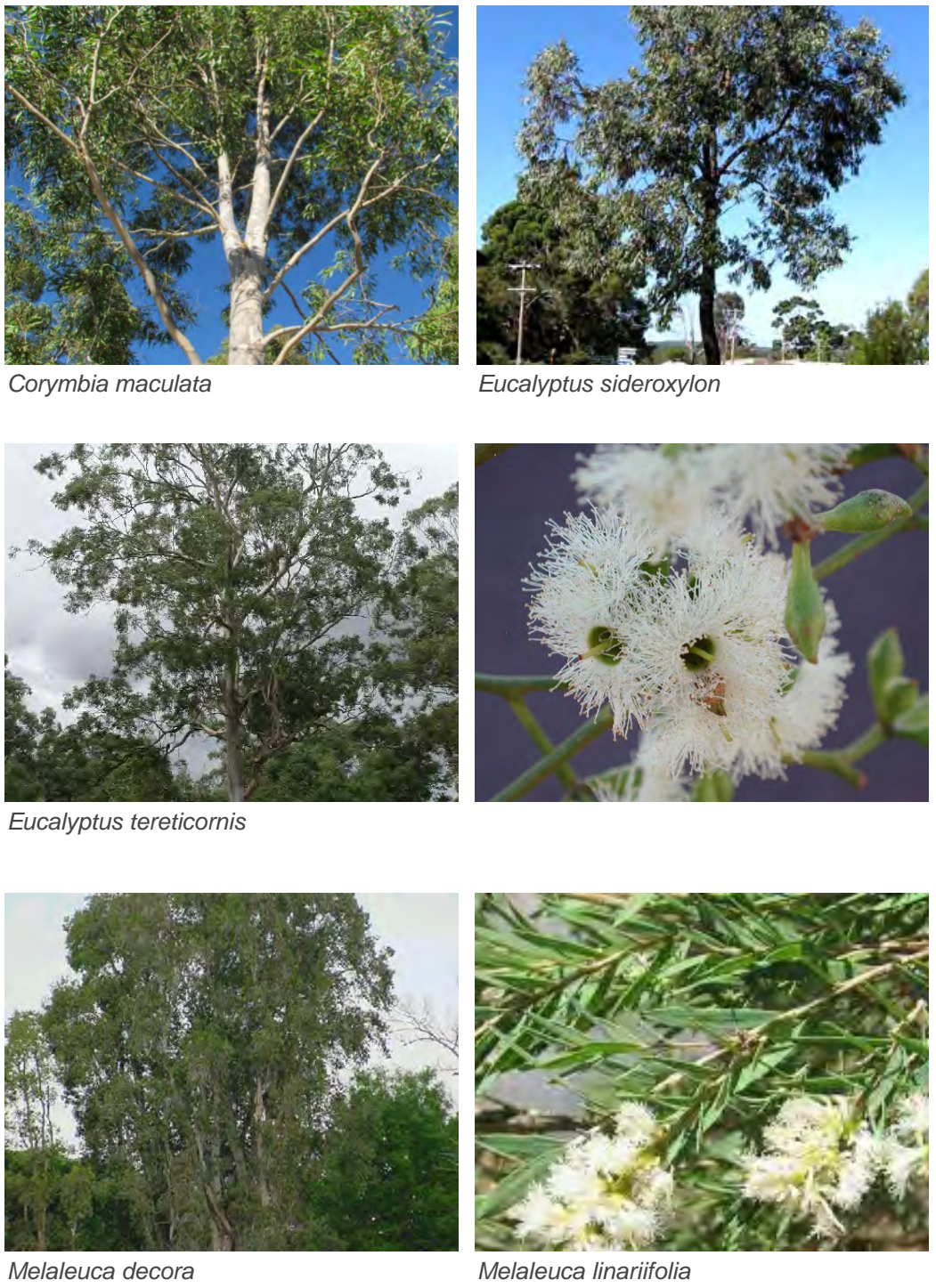
- Proposed Canopy Tree Planting (refer to Plant Schedules on relevant plans)
- MPW Site Boundary
- Proposal Operational Boundary
- Proposed Landscape Area
- Conservation Area (refer to Biodiversity Assessment Report)
- Proposed Noise Wall (refer to engineer's details)
- Indicative Truck Parking
- Proposed Site Signage refer to Architectural Drawing 115123\_A\_SSD\_5000
- Existing Trees to be Removed

DESIGN STATEMENT

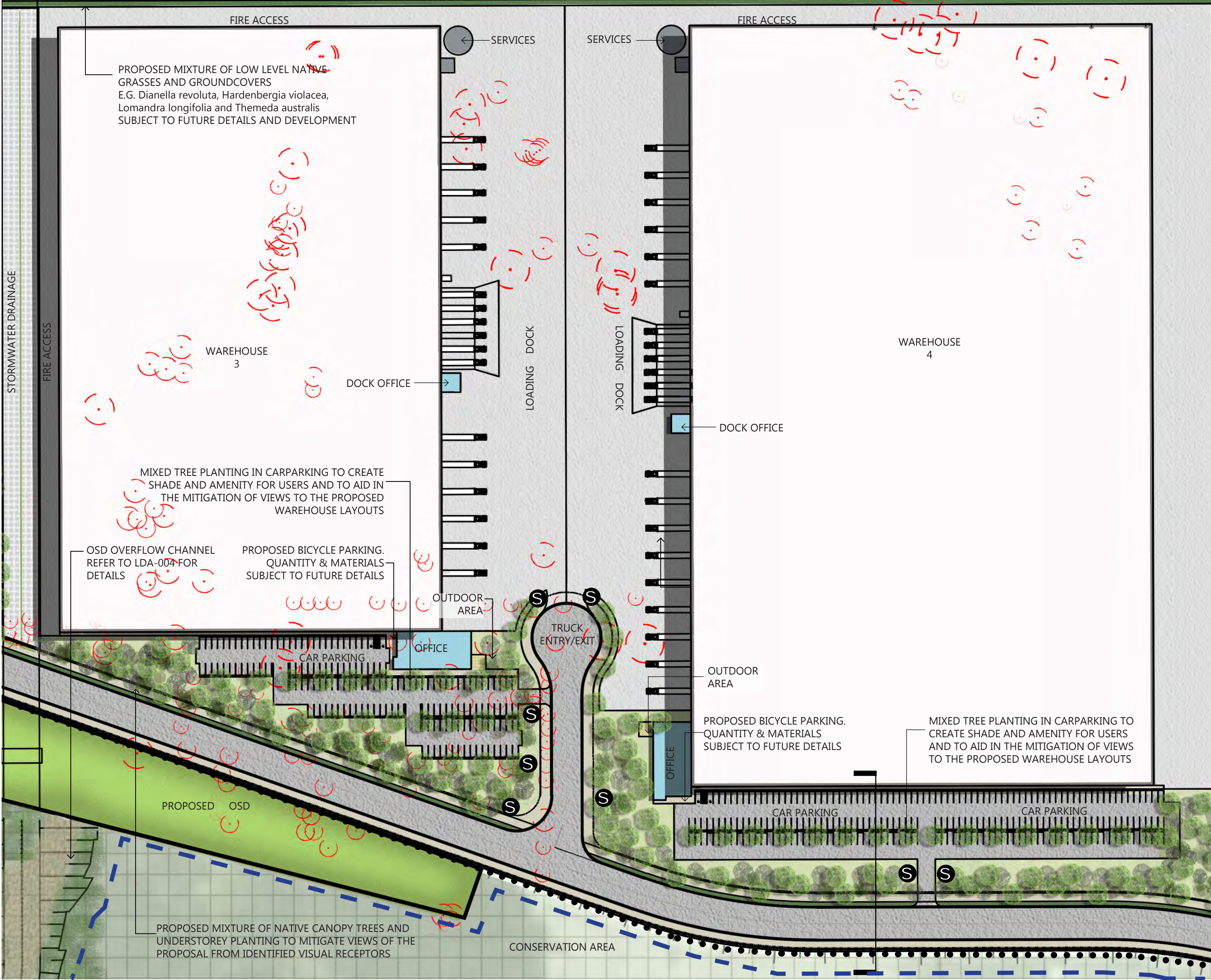
The warehouses have been located to provide opportunities for landscaping and screen planting along the western edges of the facade, responding to visual receptors to the west of the development. This arrangement allows for maximum planting along the western side of the internal road. This strategy provides opportunities for screening built forms from the surrounding urban context. The proposed carparking areas include a mixture of large canopy trees providing shade and amenity to the hard-stand area and reducing the heat island effect in these zones.

A variety of tree forms - both small and large - are proposed to create a hierarchy in the proposed landscape works.

PLANT IMAGES

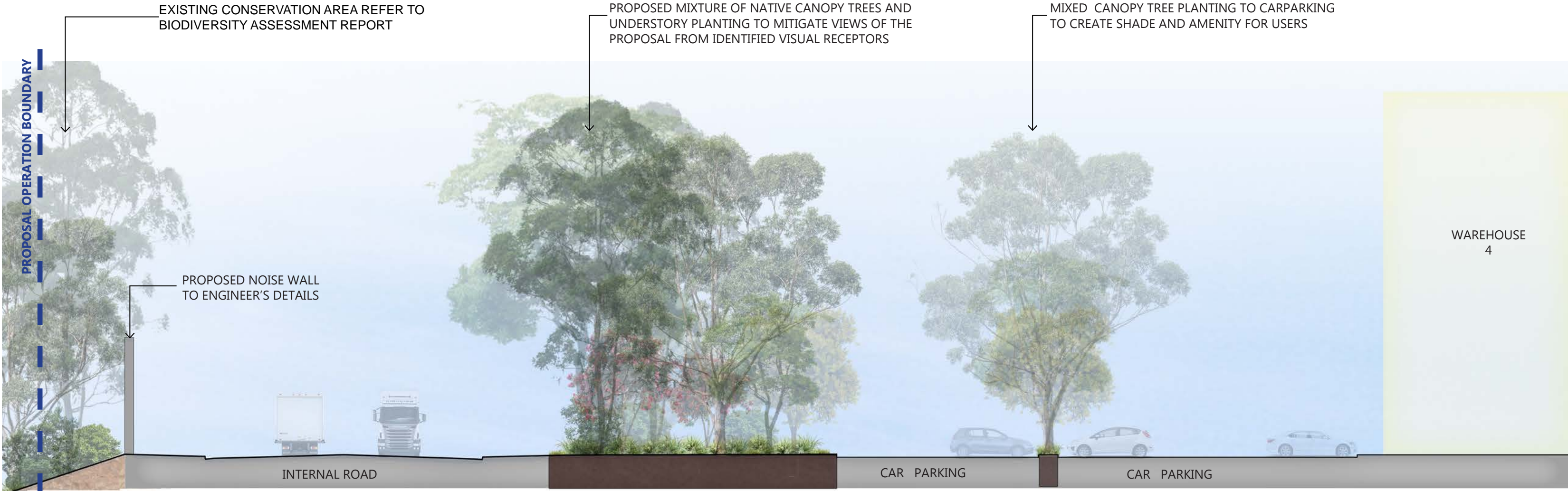






Precinct B Landscape Plan

Scale: 1:1000 @ A1 (1:2000 @ A3)



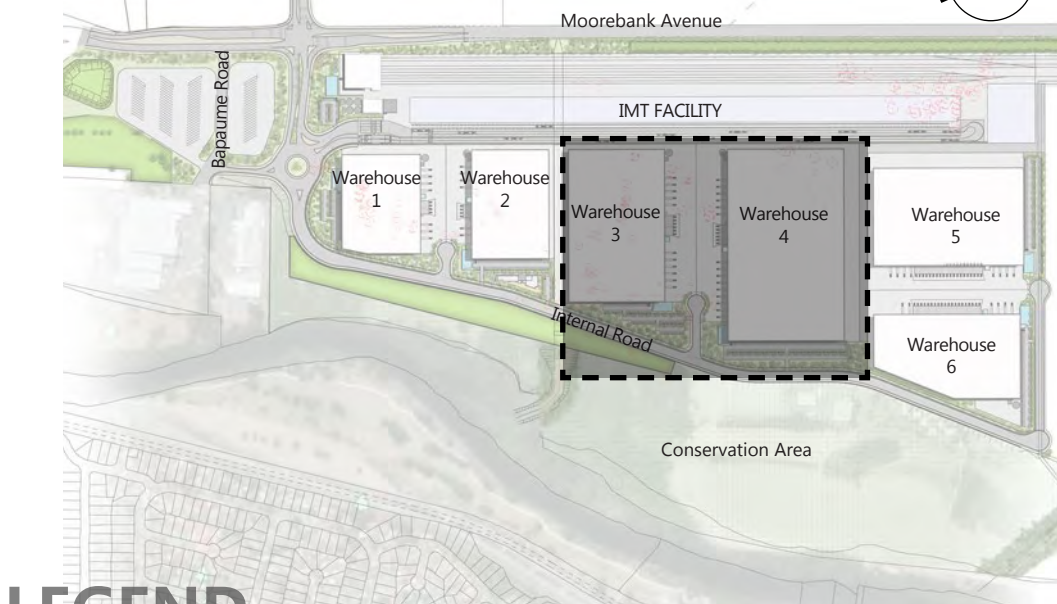
Precinct B Landscape Section

Scale: 1:200 @ A1 (1:400 @ A3)

Indicative Plant Schedule

Botanical Name	Common Name	Native	Expected Mature Height	Install Size
Trees				
Acmena smithii	Lilly-pilly	✓	12m	100L
Angaphora bakeri	Narrow-leaved Apple	✓	10m	100L
Angaphora floribunda	Rough-barked Apple	✓	20m	100L
Angaphora subvelutina	Broad-leaved Apple	✓	20m	100L
Corymbia maculata	Spotted Gum	✓	20-25m	100L
Eucalyptus racemosa	Snappy Gum, Scribbly Gum	✓	15m	100L
Melaleuca decora	White Cloud Tree	✓	6-10m	45L
Melaleuca linariifolia	Flax-leaved Paperbark	✓	10m	45L
Shrubs				
Acacia decurrens	Black Wattle	✓	10-15m	200mm
Acacia falcata	Sickle Wattle	✓	4m	200mm
Acacia parramattensis	Parramatta Green Wattle	✓	10m	200mm
Bossiaea heterophylla	Variable Bossiaea	✓	1m	200mm
Callistemon citrinus	Scarlet Bottlebrush	✓	4m	200mm
Callistemon linearis	Narrow-leaved Bottlebrush	✓	3m	200mm
Callistemon salignus	White Bottlebrush, Pink-tips	✓	9m	200mm
Daviesia ulicifolia	Gorse Bitter-pea	✓	2m	200mm
Kunzea ambigua	Tick-bush	✓	2.5m	200mm
Leptospermum polygalifolium	Tantoon	✓	0.5-3m	200mm
Leptospermum trinervium	Slender Tea-tree	✓	4m	200mm
Melaleuca armillaris	Bracelet Honey-myrtle	✓	5m	200mm
Melaleuca nodosa	Ball Honey-myrtle	✓	4m	200mm
Melaleuca thymifolia	Thyme Honey-myrtle	✓	0.8m	200mm
Philotheca salsolifolia	Philotheca	✓	1m	200mm
Pittosporum undulatum	Pittosporum	✓	10m	200mm
Groundcovers				
Dianella caerulea	Blue Flax-lily	✓	0.6m	150mm
Dianella revoluta	Blue Flax-lily, Spreading Flax-lily	✓	0.8m	150mm
Dichondra repens	Kidney-weed, Mercury Bay Weed	✓	0.3m	150mm
Hardenbergia violacea	False Sarsaparilla	✓	Creeper	150mm
Imperata cylindrica	Blady Grass	✓	1.2m	150mm
Lomandra longifolia	Spiny-headed Mat-rush	✓	0.7m	150mm
Microlaena stipoides	Weeping Grass, Meadow Rice-grass	✓	0.7m	150mm
Themeda australis	Kangaroo Grass	✓	0.8m	150mm

Key Plan



Legend

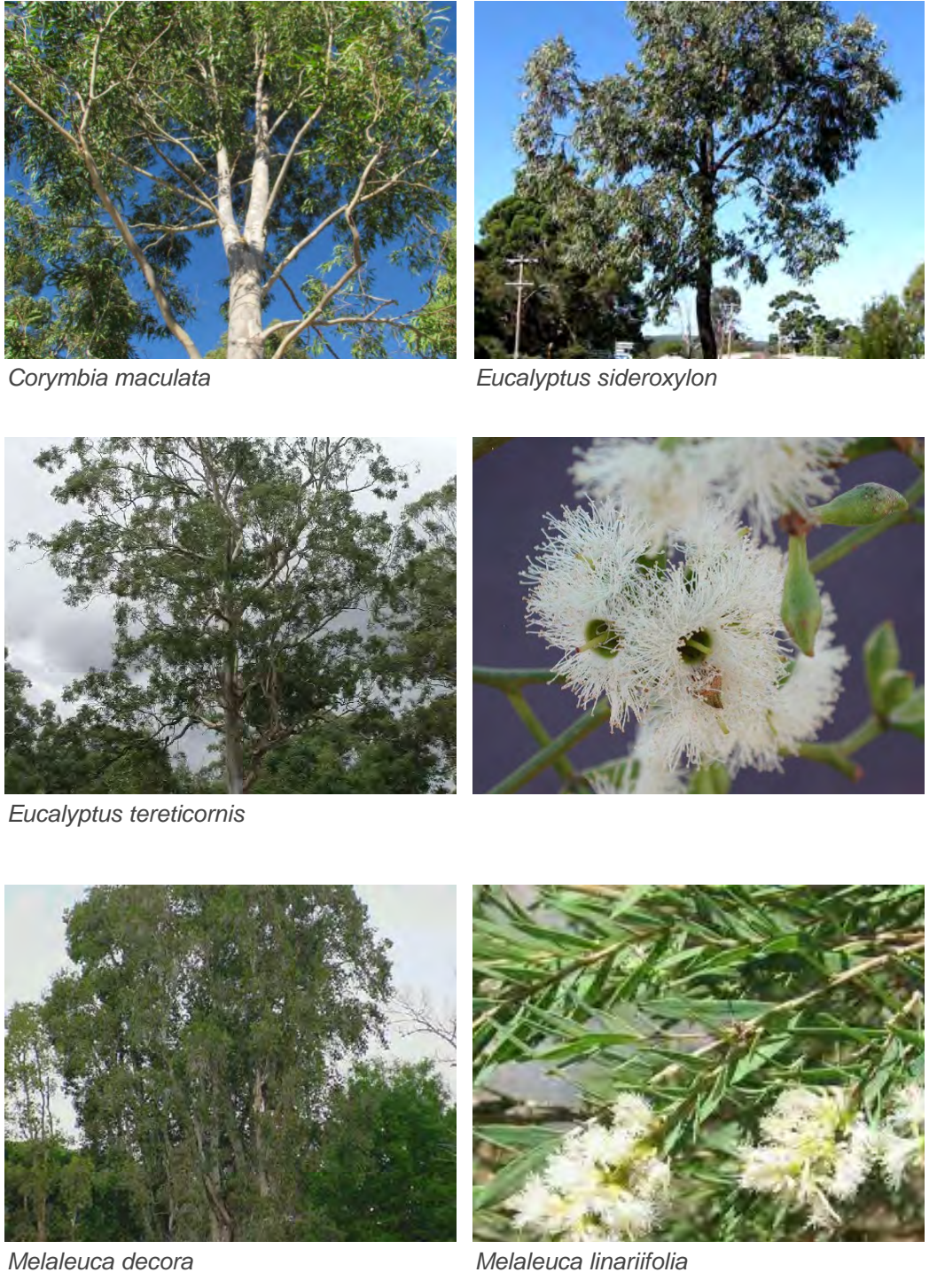
- Proposed Canopy Tree Planting (refer to Plant Schedules on relevant plans)
- MPW Site Boundary
- Proposal Operational Boundary
- Proposed Landscape Area
- Conservation Area (refer to Biodiversity Assessment Report)
- Proposed Noise Wall (refer to engineer's details)
- Indicative Truck Parking
- Proposed Site Signage refer to Architectural Drawing 115123\_A\_SSD\_5000
- Existing Trees to be Removed

Design Statement

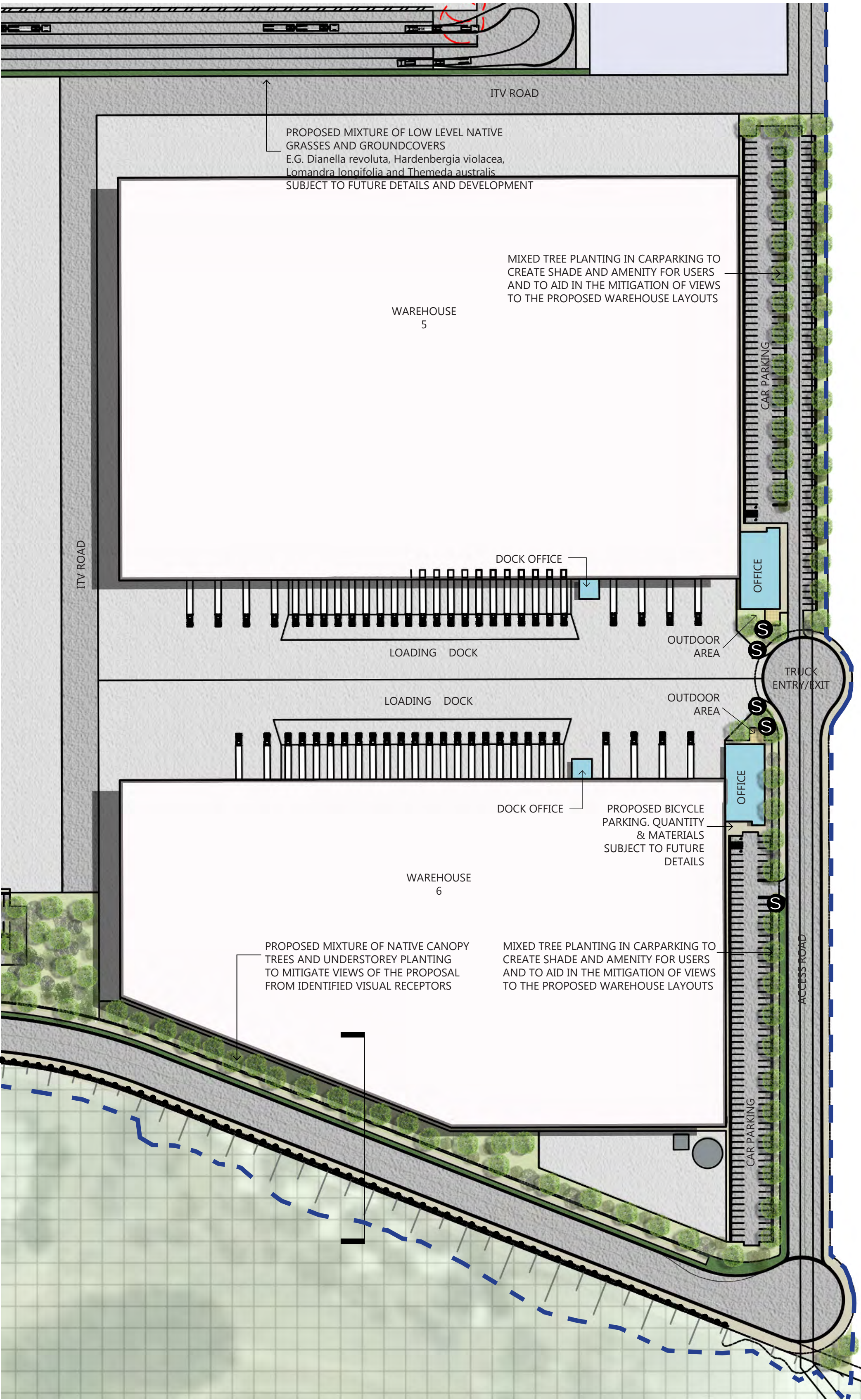
The warehouses have been located to provide opportunities for landscaping and screen planting along the western edges of the facade, responding to visual receptors to the west of the development. This arrangement allows for maximum planting along the western side of the internal road. This strategy provides opportunities for screening built forms from the surrounding urban context. The proposed carparking areas include a mixture of large canopy trees providing shade and amenity to the hard-stand area and reducing the heat island effect in these zones.

A variety of tree forms - both small and large - are proposed to create a hierarchy in the proposed landscape works.

Plant Images







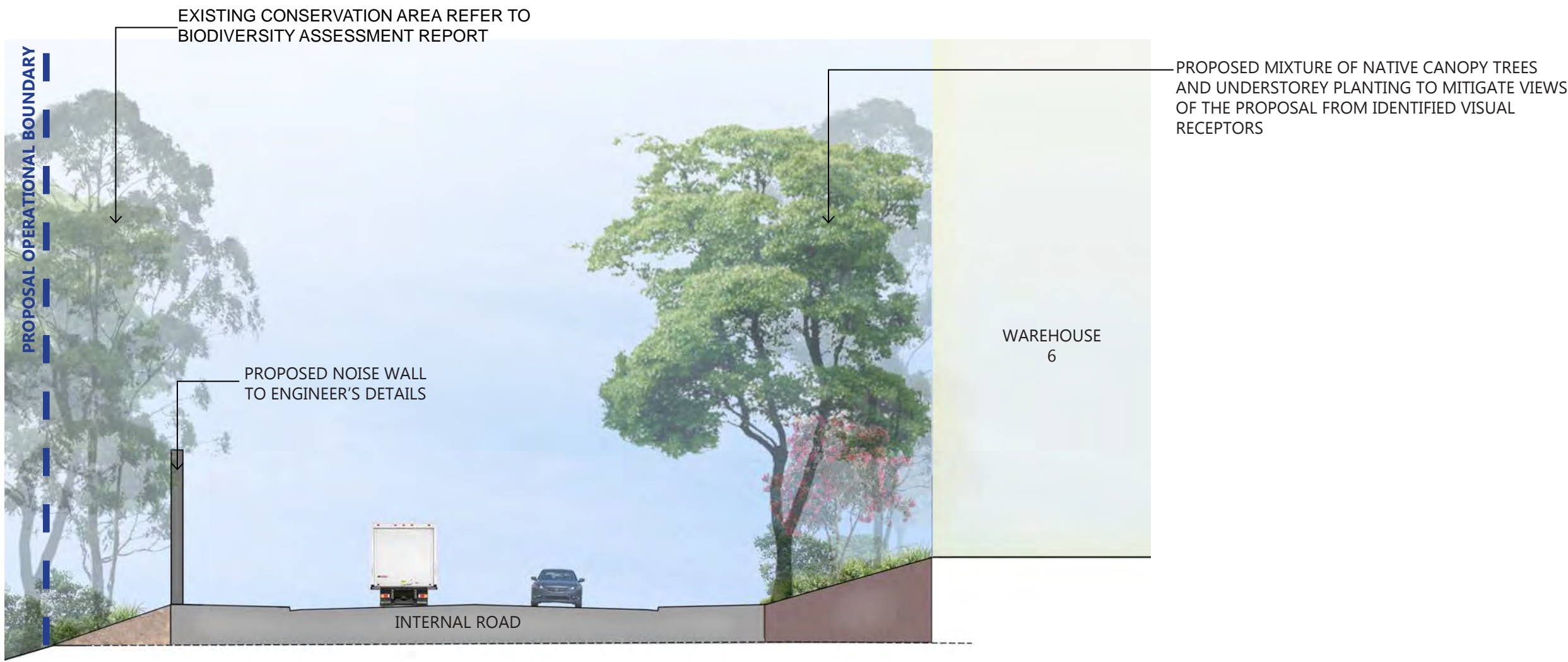
PRECINCT C LANDSCAPE PLAN

SCALE: 1:1000 @ A1 (1:2000 @ A3)



INDICATIVE PLANT SCHEDULE

BOTANICAL NAME	COMMON NAME	NATIVE	EXPECTED MATURE HEIGHT	INSTALL SIZE
<strong>Trees</strong>				
<i>Acmena smithii</i>	Lilly-pilly	✓	12m	100L
<i>Angophora bakeri</i>	Narrow-leaved Apple	✓	10m	100L
<i>Angophora floribunda</i>	Rough-barked Apple	✓	20m	100L
<i>Angophora subvelutina</i>	Broad-leaved Apple	✓	20m	100L
<i>Corymbia maculata</i>	Spotted Gum	✓	20-25m	100L
<i>Eucalyptus racemosa</i>	Snappy Gum, Scribbly Gum	✓	15m	100L
<i>Melaleuca decora</i>	White Cloud Tree	✓	6-10m	45L
<i>Melaleuca linariifolia</i>	Flax-leaved Paperbark	✓	10m	45L
<strong>Shrubs</strong>				
<i>Acacia decurrens</i>	Black Wattle	✓	10-15m	200mm
<i>Acacia falcata</i>	Sickle Wattle	✓	4m	200mm
<i>Acacia parramattensis</i>	Parramatta Green Wattle	✓	10m	200mm
<i>Bassiaea heterophylla</i>	Variable Bassiaea	✓	1m	200mm
<i>Callistemon citrinus</i>	Scarlet Bottlebrush	✓	4m	200mm
<i>Callistemon linearis</i>	Narrow-leaved Bottlebrush	✓	3m	200mm
<i>Callistemon salignus</i>	White Bottlebrush, Pink-tips	✓	9m	200mm
<i>Daviesia ulicifolia</i>	Gorse Bitter-pea	✓	2m	200mm
<i>Kunzea ambigua</i>	Tick-bush	✓	2.5m	200mm
<i>Leptospermum polygalifolium</i>	Tantoon	✓	0.5-3m	200mm
<i>Leptospermum trinervium</i>	Slender Tea-tree	✓	4m	200mm
<i>Melaleuca armillaris</i>	Bracelet Honey-myrtle	✓	5m	200mm
<i>Melaleuca nodosa</i>	Ball Honey-myrtle	✓	4m	200mm
<i>Melaleuca thymifolia</i>	Thyme Honey-myrtle	✓	0.8m	200mm
<i>Philotheca subulifolia</i>	Philotheca	✓	1m	200mm
<i>Pittosporum undulatum</i>	Pittosporum	✓	10m	200mm
<strong>Groundcovers</strong>				
<i>Dianella caerulea</i>	Blue Flax-lily	✓	0.6m	150mm
<i>Dianella revoluta</i>	Blue Flax-lily, Spreading Flax-lily	✓	0.8m	150mm
<i>Dichandra repens</i>	Kidney-weed, Mercury Bay Weed	✓	0.3m	150mm
<i>Hardenbergia violacea</i>	False Sarsaparilla	✓	Creeper	150mm
<i>Imperata cylindrica</i>	Blady Grass	✓	1.2m	150mm
<i>Lomandra longifolia</i>	Spiny-headed Mat-rush	✓	0.7m	150mm
<i>Microlaena stipoides</i>	Weeping Grass, Meadow Rice-grass	✓	0.7m	150mm
<i>Themeda australis</i>	Kangaroo Grass	✓	0.8m	150mm

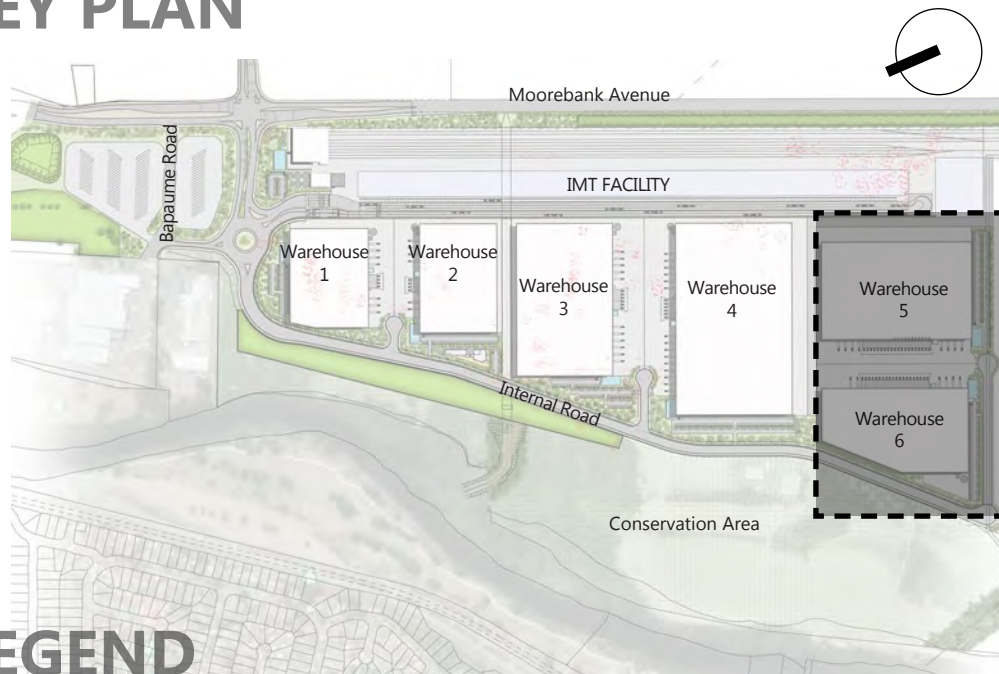


PRECINCT C LANDSCAPE SECTION

SCALE: 1:200 @ A1 (1:400 @ A3)



KEY PLAN



LEGEND

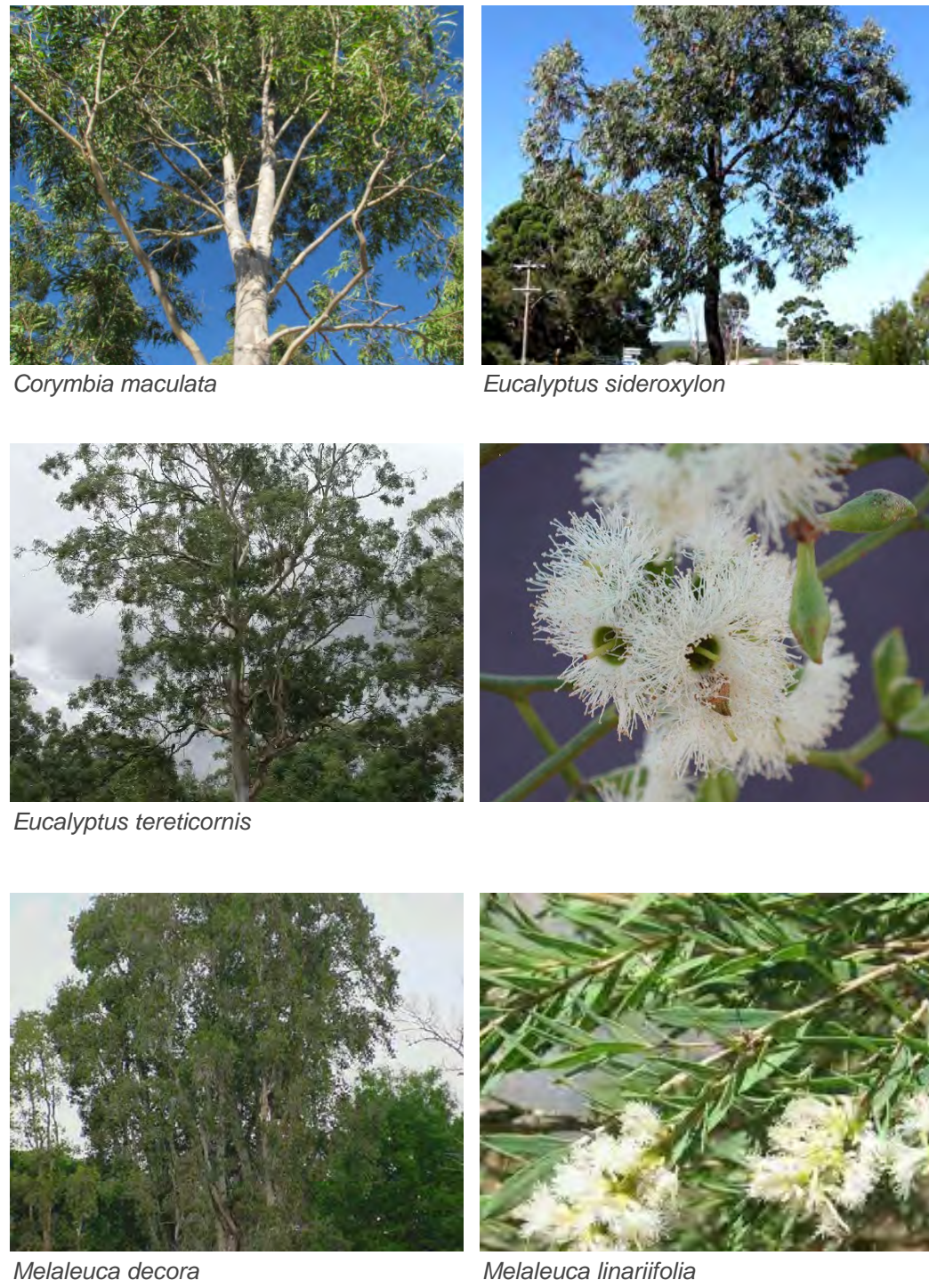
- Proposed Canopy Tree Planting (refer to Plant Schedules on relevant plans)
- MPW Site Boundary
- Proposal Operational Boundary
- Proposed Landscape Area
- Conservation Area (refer to Biodiversity Assessment Report)
- Proposed Noise Wall (refer to engineer's details)
- Indicative Truck Parking
- Proposed Site Signage refer to Architectural Drawing 115123\_A\_SSD\_5000
- Existing Trees to be Removed

DESIGN STATEMENT

The warehouses have been located to provide opportunities for landscaping and screen planting along the western edges of the facade, responding to visual receptors to the west of the development. This arrangement allows for maximum planting along the western side of the internal road. This strategy provides opportunities for screening built forms from the surrounding urban context. The proposed carparking areas include a mixture of large canopy trees providing shade and amenity to the hard-stand area and reducing the heat island effect in these zones.

A variety of tree forms - both small and large - are proposed to create a hierarchy in the proposed landscape works.

PLANT IMAGES














## INDICATIVE PLANT SCHEDULE

BOTANICAL NAME	COMMON NAME	NATIVE	MATURE HEIGHT	INSTALL SIZE
<b>Groundcovers</b>				
<i>Austrodranthonia fulva</i>	Wallaby Grass	✓	0.7m	150mm
<i>Billardiera scandens</i>	Hairy Apple Berry	✓	0.5m	150mm
<i>Dampiera stricta</i>	Blue Dampiera	✓	0.5m	150mm
<i>Dianella caerulea</i>	Blue Flax-lily	✓	0.6m	150mm
<i>Dianella revoluta</i>	Blue Flax-lily	✓	0.8m	150mm
<i>Dichondra repens</i>	Kidney-weed	✓	0.3m	150mm
<i>Hardenbergia violacea</i>	False Sarsaparilla	✓	Creepier	150mm
<i>Imperata cylindrica</i>	Blady Grass	✓	1.2m	150mm
<i>Lomandra longifolia</i>	Spiny-headed Mat-rush	✓	0.7m	150mm
<i>Microlaena stipoides</i>	Weeping Grass	✓	0.7m	150mm
<i>Themeda australis</i>	Kangaroo Grass	✓	0.8m	150mm

## LEGEND

-  MPW Site Boundary
-  Proposal Operational Boundary
-  Proposed Rail Line
-  Existing Rail Line
-  Proposed Landscape Area
-  Extent of Embankment
-  Existing Trees to be Removed




## DESIGN STATEMENT

The landscaping of the proposed rail link connection to the IMT Facility consists of a variety of low-level native grasses and groundcovers. This approach aims to integrate the proposed development into the broader environment by using local species to enhance local habitat values. The planting style is to be informal which will serve to enhance the natural characteristics of the landscape. Where reasonable and feasible plants will be propagated with seeds collected within the local area. This will reinforce the genetic integrity of the region.

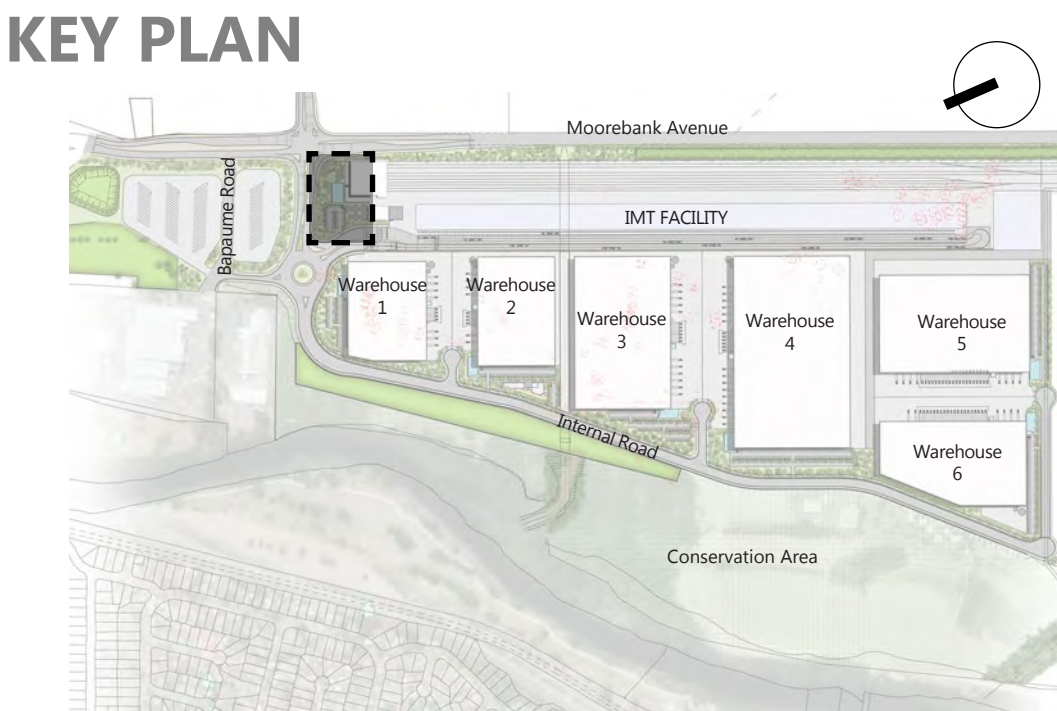
Proposed plant species have been selected for their site-suitability with many species selected from Liverpool City Council's recommended plant list.

## DESIGN IMAGES



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			Issue	Date	Description	Drawn	Checked																						
			A	3.8.16	FOR DEVELOPMENT APPLICATION	BH	RL																						
B	29.5.17	FOR DEVELOPMENT APPLICATION	BH	RL																									
Date	Revision	Job Number	Drawing Number																										
29.05.2017	B	20150728	<b>LDA-009</b>																										



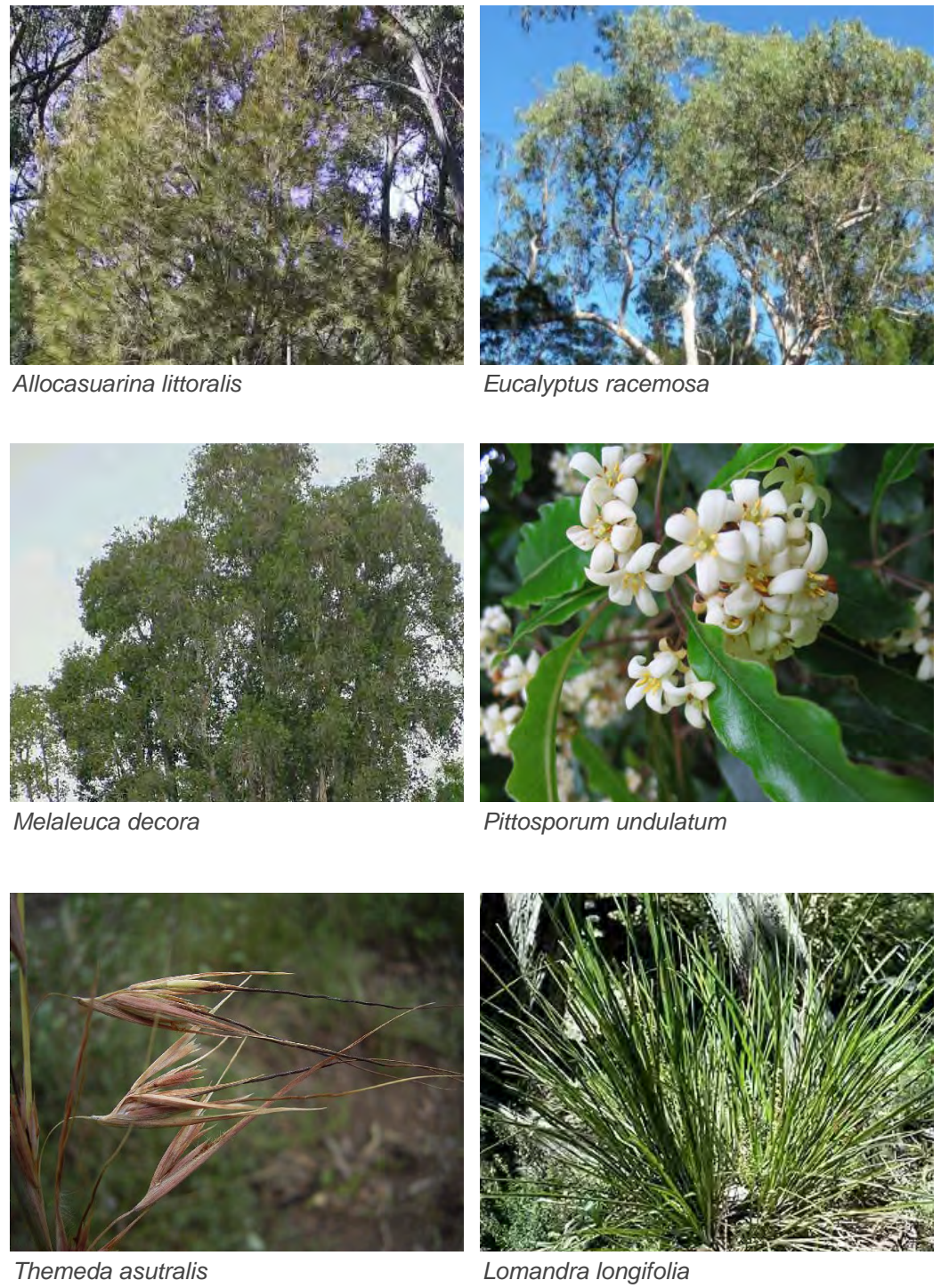


DESIGN STATEMENT

The corner of Moorebank Avenue and the new Internal Road will accommodate an administration building. The intent of the landscaping is to integrate the built works of the proposal with the greater landscape character of the Moorebank area and neighbouring sites.

The landscape for the main entrance aims to provide an easily-orientated pathway for visitors and workers of the site. Vehicular, pedestrian and bicycle entry are all integrated into one cohesive entry for the site. Proposed signage will use geometries and forms that strongly relate to rail transport. Signage will incorporate a natural looking material which has a strong association with bushland landscapes. Planting will provide significant screening from the roadway to the built structures of the site. It will use a range of local species that have been selected for their unique forms, colours and textures. Proposed plant species have been selected for their site-suitability with many species selected from Liverpool City Council's recommended plant list.

PLANT IMAGES



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			A	3.8.16	FOR DEVELOPMENT APPLICATION	BH	RL			29.05.2017	B	20150728	LDA-010
			B	29.5.17	FOR DEVELOPMENT APPLICATION	BH	RL			Scale 1:50 @ A1 (1:100 @ A3) 0 0.5 1 1.5 2 2.5 3 Drawing Name <b>ESTATE ENTRY SIGNAGE LANDSCAPE</b>			
										North			