

## Moorebank Precinct West Stage 2 Proposal Response to Submissions

Appendix B: Landscape design statement and plans

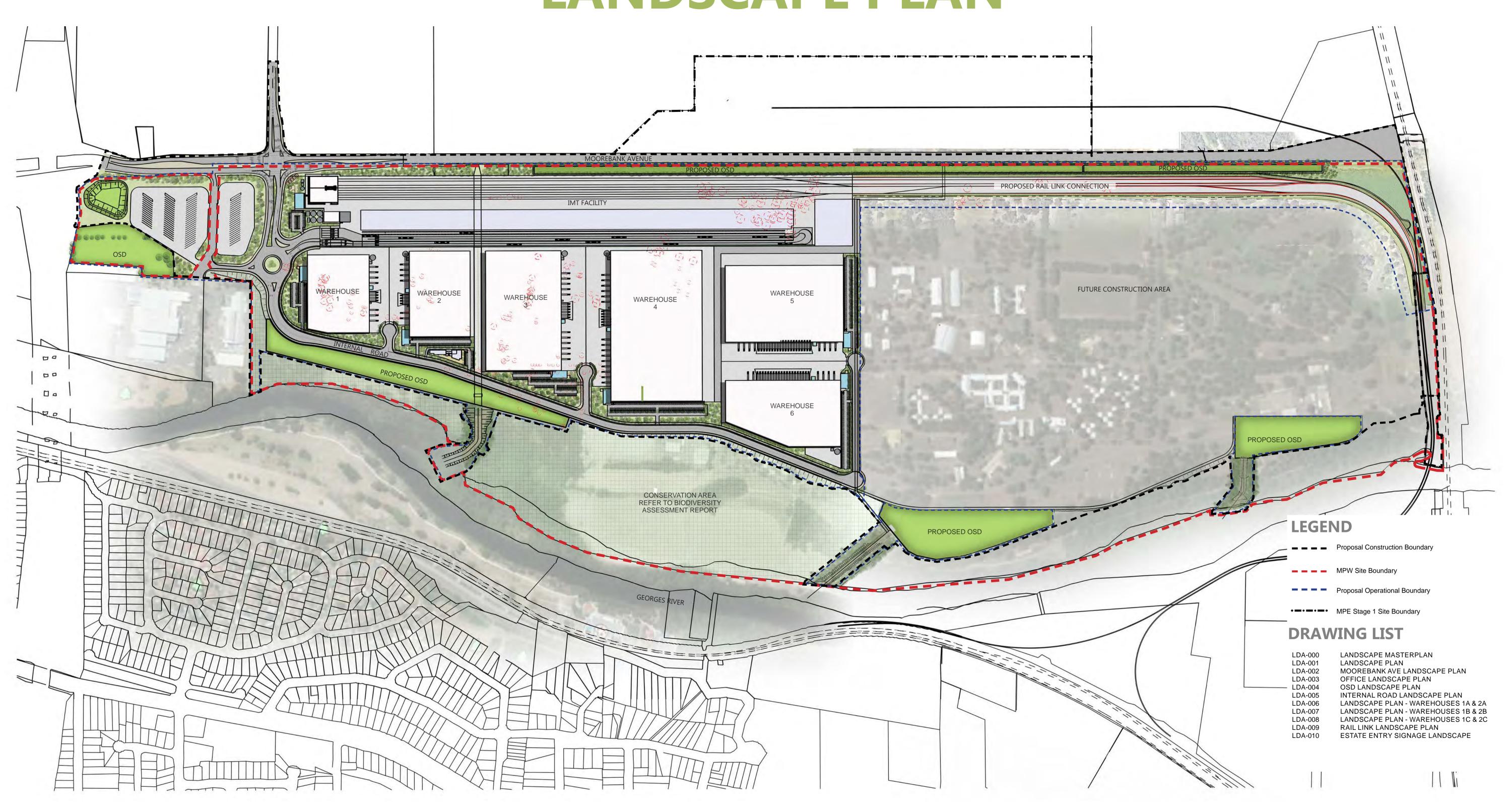


**SIMTA** 

SYDNEY INTERMODAL TERMINAL ALLIANCE

Part 4, Division 4.1, State Significant Development

# MOOREBANK PRECINCT WEST STAGE 2 LANDSCAPE PLAN



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REIDCAMPBELL TACTICAL

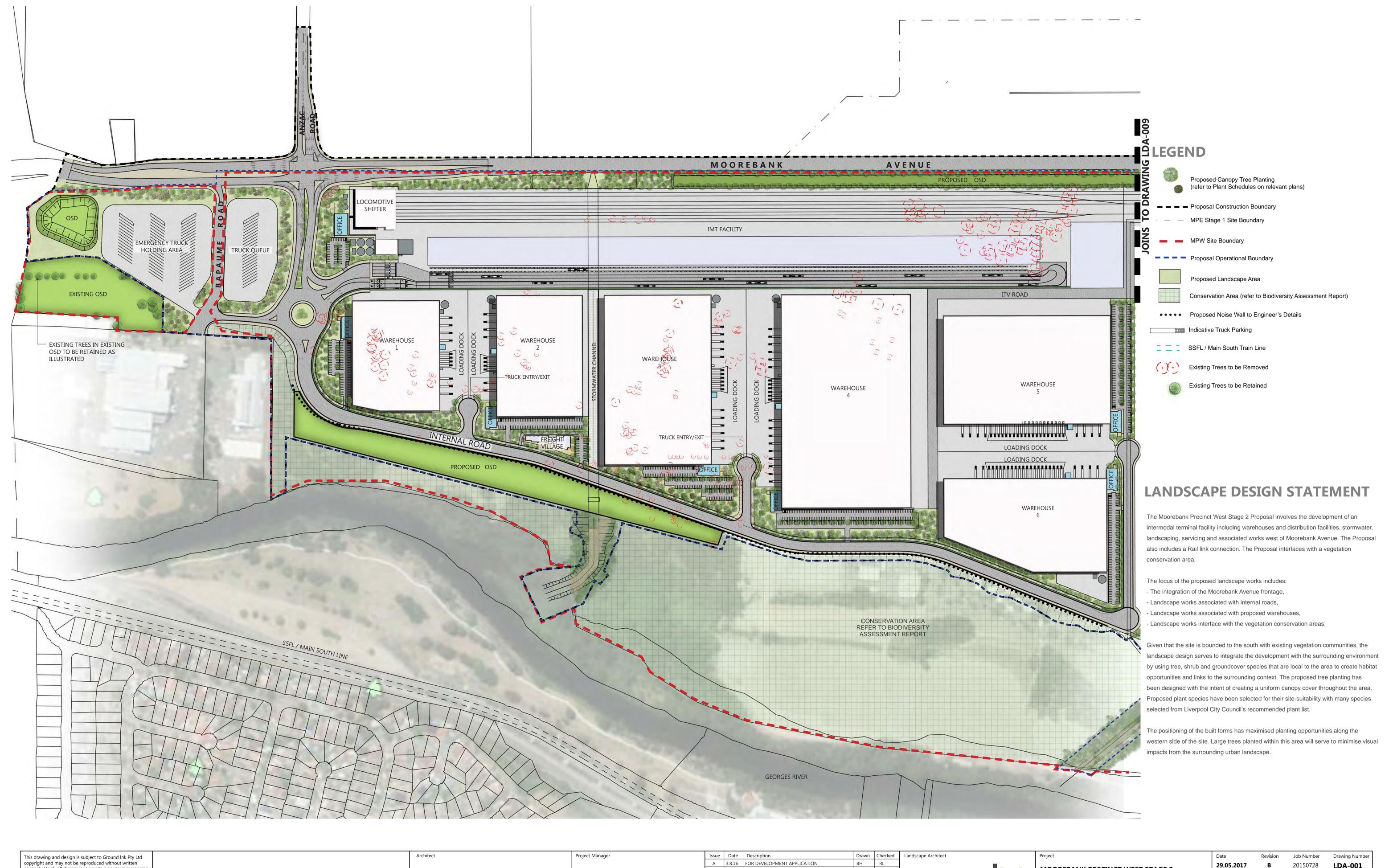
Project Manager

Landscape Architect Issue Date Description Drawn Checked A 3.8.16 FOR DEVELOPMENT APPLICATION B 29.5.17 FOR DEVELOPMENT APPLICATION 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

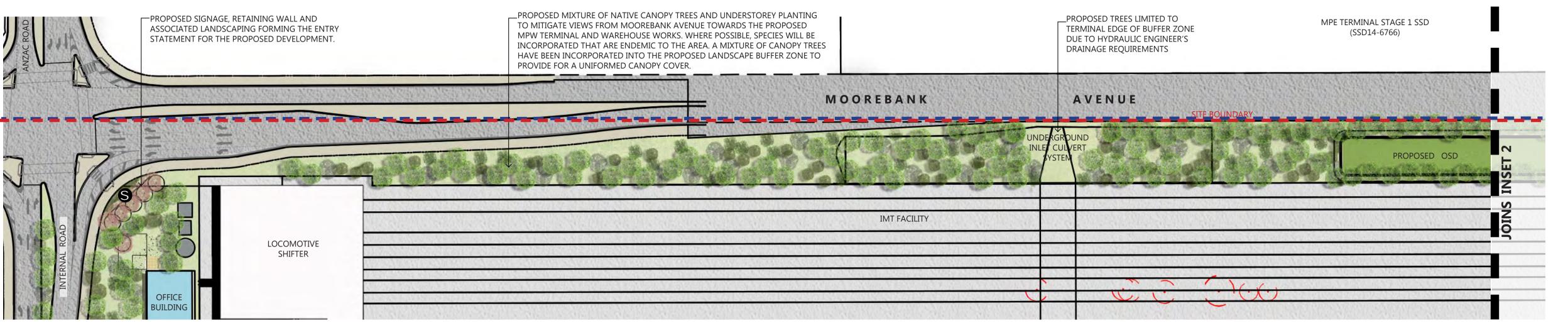
**MOOREBANK PRECINCT WEST STAGE 2** 

Moorebank Avenue, Moorebank, NSW

Job Number Drawing Number 29.05.2017 20150728 **LDA-000** 1:4000 @ A1 (1:8000 @ A3) 0 20 40 60 80 100m LANDSCAPE MASTERPLAN

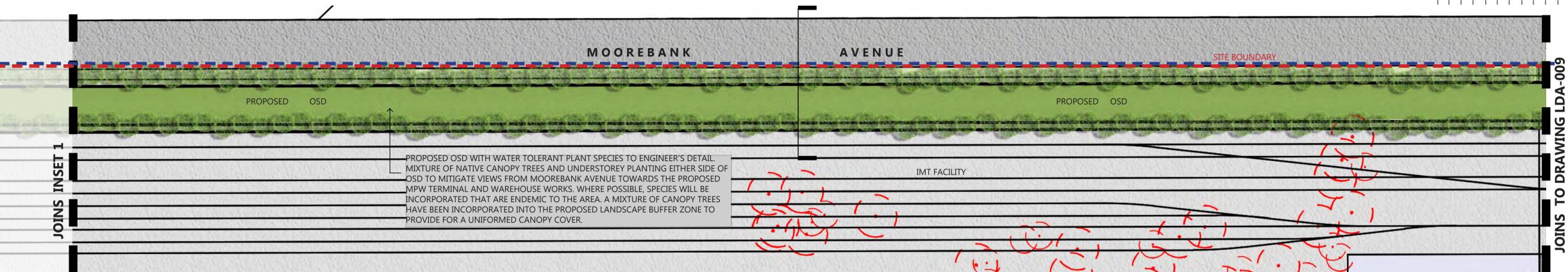


BH RL BH RL 29.05.2017 20150728 В LDA-001 **MOOREBANK PRECINCT WEST STAGE 2** consent. Verify all dimensions on site prior to commencing B 29.5.17 FOR DEVELOPMENT APPLICATION work. Report all discrepancies to the project manager, prior to construction. Figured dimensions to be taken in preference to scaled drawings. Drawings made to larger scales and those particulars of the work shall take precedence over drawings made to smaller scale and those REIDCAMPBELL TACTICAL 1:2500 @ A1 (1:5000 @ A3) 0 10 20 50 ABN 55 163 025 45 ACN 163 025 456 for general purposes. All work is to conform to relevant Drawing Name Suite 201, 75 Archer St, Chatswood NSW 2067 Australian standards and other codes as applicable, together Moorebank Avenue, Moorebank, NSW LANDSCAPE PLAN with other authorities' requirements and regulations. Ph (02) 9411 3279 www.groundink.com.au



**MOOREBANK AVENUE LANDSCAPE PLAN - INSET 1** 

SCALE: 1:1000 @ A1 (1:2000 @ A3) 0 5 10 20 30 40 50m



**MOOREBANK AVENUE LANDSCAPE PLAN - INSET 2** 

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

#### 0 5 10 20 30 40 50m I I I I I I I I I I

# **KEY PLAN** INSET 1 **LEGEND**



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.

# PROPOSED MIXTURE OF NATIVE CANOPY TREES AND UNDERSTOREY PLANTING ON EITHER SIDE OF THE PROPOSED OSD TO MITIGATE VIEWS FROM \_ MOOREBANK AVENUE TOWARDS THE PROPOSED MPW TERMINAL AND WAREHOUSE WORKS IMT FACILITY INDICATIVE FENCING MOOREBANK AVENUE PROPOSED OSD \_\_\_\_\_\_ .\_\_\_\_\_\_ EXISTING GROUND LEVEL

#### **MOOREBANK AVENUE OSD LANDSCAPE SECTION**

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consent. Verify all dimensions on site prior to commencing

work. Report all discrepancies to the project manager,

prior to construction. Figured dimensions to be taken

for general purposes. All work is to conform to relevant Australian standards and other codes as applicable, together

with other authorities' requirements and regulations.

in preference to scaled drawings. Drawings made to larger scales and those particulars of the work shall take precedence over drawings made to smaller scale and those

SCALE: 1:200 @ A1 (1:400 @ A3) 0 2 4 6 8 10 12 14 16 18 20M | | | | | | | | | | | | | |

#### **INDICATIVE PLANT SCHEDULE**

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

Issue Date Description

A 3.8.16 FOR DEVELOPMENT APPLICATION

B 29.5.17 FOR DEVELOPMENT APPLICATION

ВН

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

#### **PLANT IMAGES**





Conservation Area



Acacia parramattensis Kunzea ambigua





Dianella caerulea

Dichondra repens

REIDCAMPBELL TACTICAL

Architect

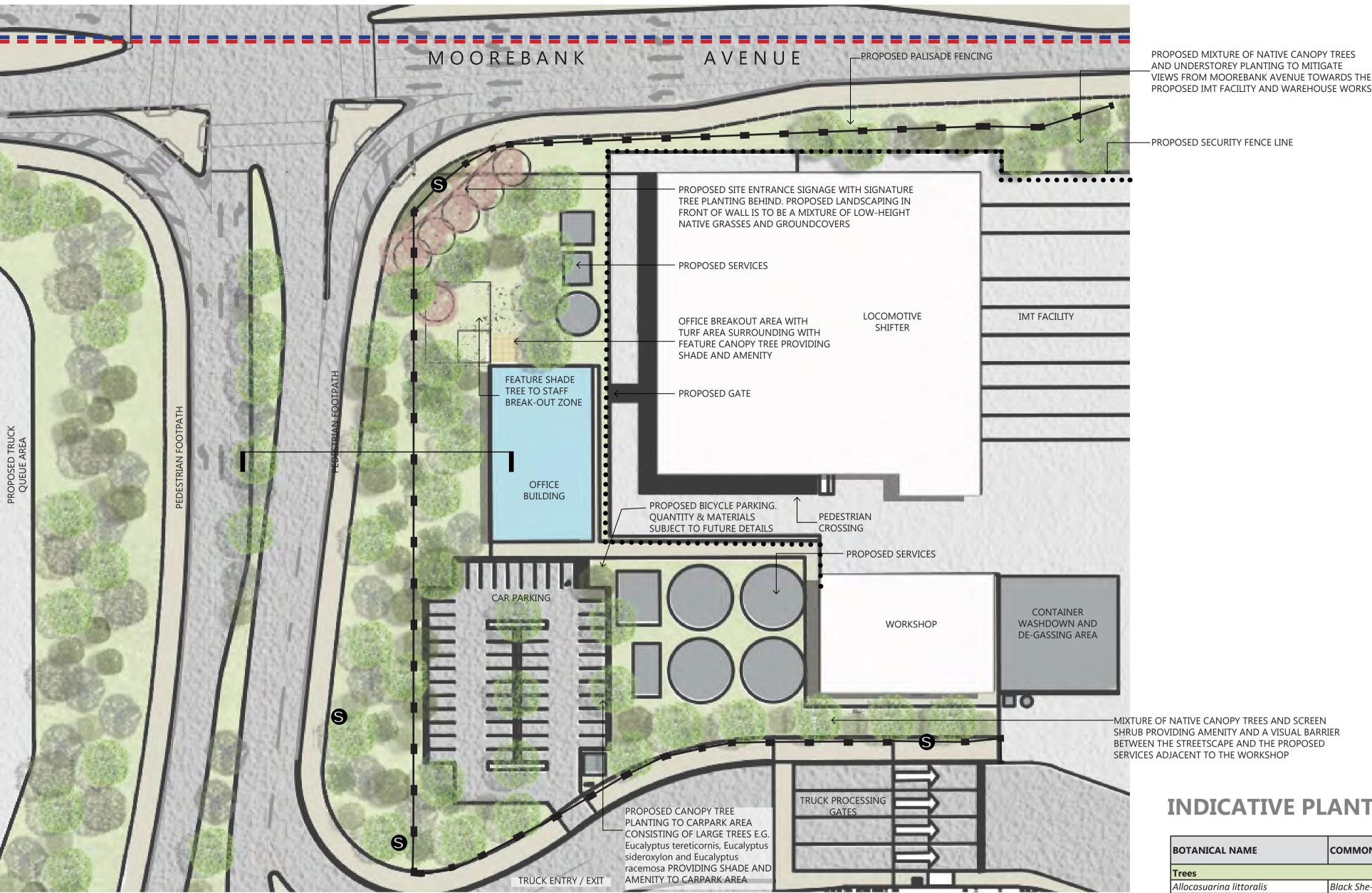
Project Manager

Drawn Checked Landscape Architect 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

**MOOREBANK PRECINCT WEST STAGE 2** 

Moorebank Avenue, Moorebank, NSW

Job Number Drawing Number 29.05.2017 20150728 LDA-002 В 1:1000 @ A1 (1:2000 @ A3) MOOREBANK AVENUE LANDSCAPE PLAN



INDICATIVE PLANT SCHEDULE

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

# **KEY PLAN**



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



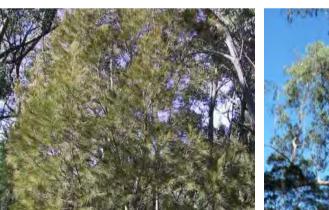
Existing Trees to be Removed

#### **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**



Allocasuarina littoralis



Melaleuca decora



Themeda asutralis

Lomandra longifolia

#### **OFFICE LANDSCAPE SECTION**

**OFFICE LANDSCAPE PLAN** 

- OFFICE BUILDING

SCALE: 1:200 @ A1 (1:400 @ A3) 0 2 4 6 8 10 12 14 16 18 20M | | | | | | | | | | | | | |

FOOTPATH

INTERNAL ROAD

PROPOSED MIXTURE OF NATIVE CANOPY TREES AND UNDERSTOREY PLANTING TO MITIGATE VIEWS FROM

MOOREBANK AVENUE TOWARDS THE PROPOSED IMT FACILITY AND WAREHOUSE WORKS

INCORPORATED. SUBJECT TO FUTURE DETAILS AND ENGINEERING REQUIREMENTS

PROPOSED EMBANKMENT WITH POTENTIAL SLOPE STABILISATION METHODS (E.G. ECO BLANKET)

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Australian standards and other codes as applicable, together

with other authorities' requirements and regulations.

REIDCAMPBELL TACTICAL

Architect

APPROXIMATE EXISTING GROUND LEVEL

PROPOSED PLANTING IN MEDIAN STRIP WITH SET-BACKS FROM INTERSECTIONS IN ACCORDANCE WITH ENGINEERING REQUIREMENTS. PROPOSED LANDSCAPING IS TO BE A MIXTURE OF CANOPY TREE SPECIES WITH CLEAR STEMS AND LOW LEVEL UNDERSTOREY PLANTING, CONSIDERING CPTED

REQUIREMENTS

Issue Date Description

A 3.8.16 FOR DEVELOPMENT APPLICATION

B 29.5.17 FOR DEVELOPMENT APPLICATION

Project Manager

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

0 5 10 20 30 40 50m

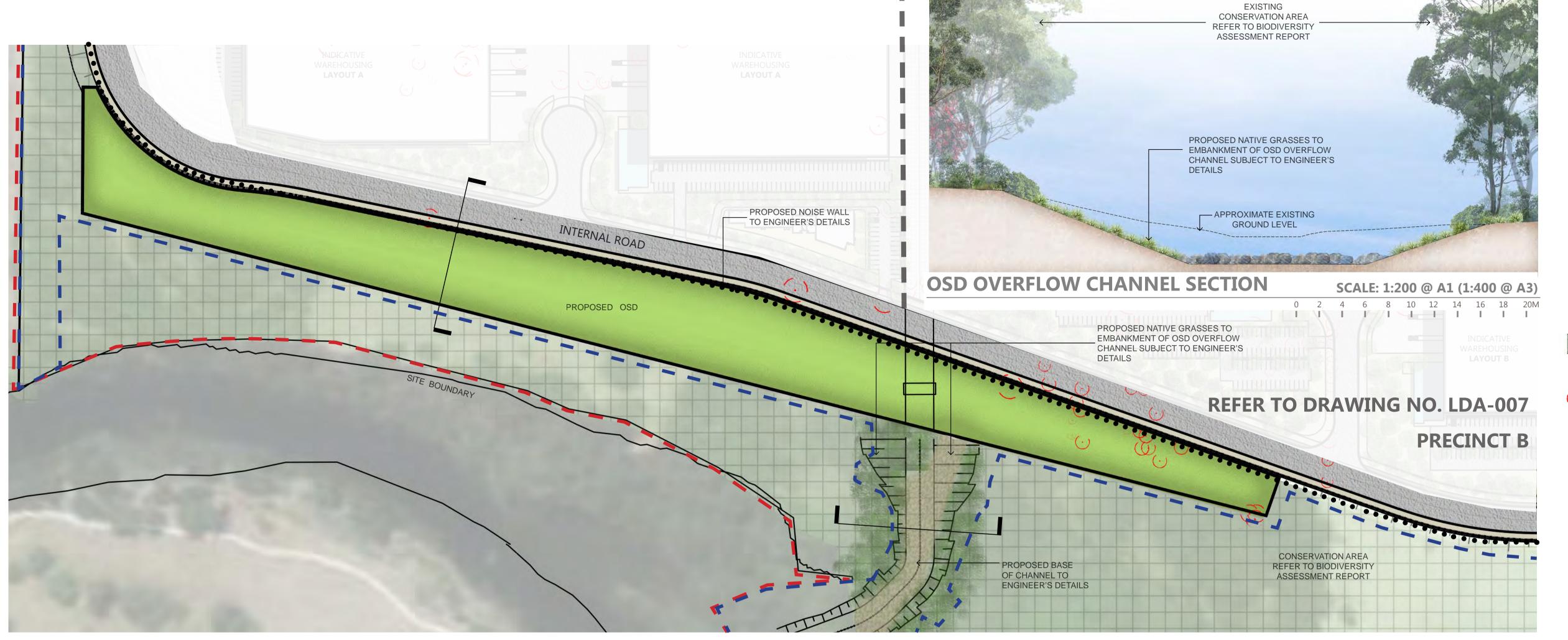
Drawn Checked Landscape Architect BH RL ABN 55 163 025 45 ACN 163 025 456 Suite 201, 75 Archer St, Chatswood NSW 2067

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

MOOREBANK PRECINCT WEST STAGE 2

Moorebank Avenue, Moorebank, NSW

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



**OSD LANDSCAPE PLAN** SCALE: 1:1000 @ A1 (1:2000 @ A3)

# PROPOSED MIXTURE OF NATIVE CANOPY TREES AND UNDERSTOREY PLANTING TO EASTERN SIDE OF INTERNAL ROAD TO MITIGATE VIEWS TO THE PROPOSED WAREHOUSES FROM IDENTIFIED VISUAL RECEPTORS ON THE WESTERN SIDE OF THE **GEORGES RIVER** PROPOSED NOISE WALL TO ENGINEER'S DETAILS PROPOSED OSD WALL TO \_ PROPOSED WATER TOLERANT PLANT SPECIES IN OSD INTERNAL ROAD APPROXIMATE EXISTING GROUND LEVEL

### **INDICATIVE PLANT SCHEDULE**

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

#### **KEY PLAN**



#### **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.

#### **PLANT IMAGES**





Dampiera stricta



Isolepis inundata



Juncus usitatus

Gahnia clarkei

Microlaena stipoides

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**OSD LANDSCAPE TYPICAL SECTION** 

REIDCAMPBELL TACTICAL

Architect

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

0 2 4 6 8 10 12 14 16 18 20M | | | | | | | | | | | | | |

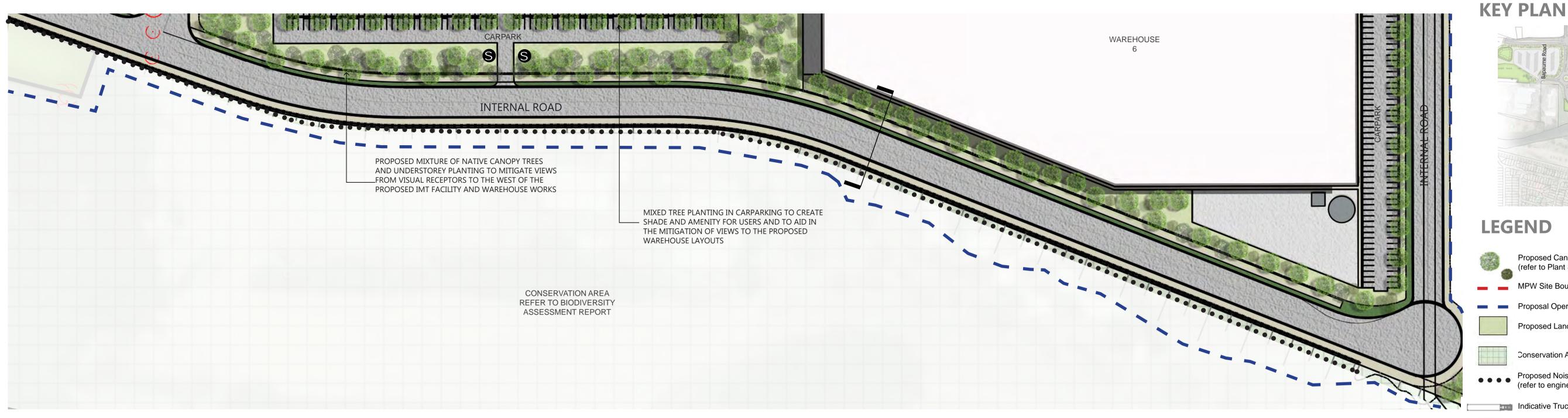
Project Manager

Issue	Date	Description	Drawn	Checked	Landscape Architect
Α	3.8.16	FOR DEVELOPMENT APPLICATION	ВН	RL	
В	29.5.17	FOR DEVELOPMENT APPLICATION	ВН	RL	aralind:l
					groundink.
					landscape architecture · design visuals
					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

**MOOREBANK PRECINCT WEST STAGE 2** 

Project Address Moorebank Avenue, Moorebank, NSW

Job Number Drawing Number 29.05.2017 20150728 В LDA-004 1:1000 @ A1 (1:2000 @ A3) Drawing Name **OSD LANDSCAPE PLAN** 



INTERNAL ROAD LANDSCAPE PLAN SCALE: 1:1000 @ A1 (1:2000 @ A3)

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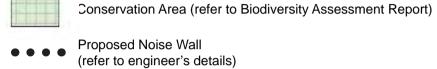


#### **LEGEND**

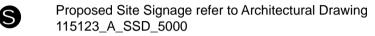


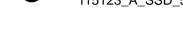






Indicative Truck Parking







**DESIGN STATEMENT** 

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.

#### **PLANT IMAGES**





Callistemon salignus

Corymbia maculata Eucalyptus tereticornis





Dianella caerulea

## **INDICATIVE PLANT SCHEDULE**

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

INTERNAL ROAD LANDSCAPE SECTION

INTERNAL ROAD

**EXISTING CONSERVATION AREA REFER TO** 

PROPOSED NOISE WALL TO ENGINEER'S DETAILS

BIODIVERSITY ASSESSMENT REPORT

SCALE: 1:200 @ A1 (1:400 @ A3) 0 2 4 6 8 10 12 14 16 18 20M | | | | | | | | | | | | | |

Architect

— APPROXIMATE EXISTING **GROUND LEVEL** 

PROPOSED MIXTURE OF NATIVE CANOPY TREES

FROM VISUAL RECEPTORS TO THE WEST OF THE

AND UNDERSTOREY PLANTING TO MITIGATE VIEWS

PROPOSED IMT FACILITY AND WAREHOUSE WORKS

WAREHOUSE 6

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REIDCAMPBELL TACTICAL

Project Manager

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

**MOOREBANK PRECINCT WEST STAGE 2** 

Moorebank Avenue, Moorebank, NSW

Job Number Drawing Number 29.05.2017 20150728 LDA-005 В 1:1000 @ A1 (1:2000 @ A3) 0 5 10 20 30 40 50m INTERNAL ROAD LANDSCAPE PLAN

#### FIRE ACCESS FIRE ACCESS - SERVICE PROPOSED MIXTURE OF LOW LEVEL NATIVE STAFF BREAK-OUT ZONE WITH GRASSES AND GROUNDCOVERS PAVING AND SMALL TURF AREA E.G. Dianella revoluta, Hardenbergia violacea, WITH OPPORTUNITY FOR FEATURE Lomandra longifolia and Themeda australis TREE PLANTING PROVIDING SUBJECT TO FUTURE DETAILS AND DEVELOPMENT SHADE AND AMENITY PROPOSED BICYCLE PARKING. QUANTITY & MATERIALS - SUBJECT TO FUTURE DETAILS DOCK OFFICE LOADING DOCK OFFICE WAREHOUSE **WAREHOUSE** STAFF BREAK OUT, ZONE WITH PAVING AND SMALL TURF AREA WITH OPPORTUNITY FOR FEATURE TREE PLANTING PROVIDING SHADE AND AMENITY PROPOSED MIXTURE OF NATIVE CANOPY TREES AND UNDERSTOREY PLANTING TO MITIGATE VIEWS OF THE PROPOSAL FROM IDENTIFIED VISUAL RECEPTORS TRUCK **ENTRY/EXIT** PROPOSED OSD CONSERVATION AREA PROPOSED BICYCLE -PARKING. QUANTITY & MATERIALS SUBJECT TO

#### PRECINCT A LANDSCAPE PLAN

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



#### PRECINCT A LANDSCAPE SECTION

Issue Date Description

REIDCAMPBELL TACTICAL

Architect

Project Manager

Drawn Checked Landscape Architect A 3.8.16 FOR DEVELOPMENT APPLICATION B 29.5.17 FOR DEVELOPMENT APPLICATION ВН Suite 201, 75 Archer St, Chatswood NSW 2067 Ph (02) 9411 3279 www.groundink.com.au

**INDICATIVE PLANT SCHEDULE** 

COMMON NAME

Narrow-leaved Apple

Rough-barked Apple

Broad-leaved Apple

Snappy Gum, Scribbly Gum

Parramatta Green Wattle

Narrow-leaved Bottlebrush

White Bottlebrush, Pink-tips

Spotted Gum

White Cloud Tree

Black Wattle

Sickle Wattle

Variable Bossiaea

Scarlet Bottlebrush

Gorse Bitter-pea

Slender Tea-tree

Ball Honey-myrtle

Bracelet Honey-myrtle

Thyme Honey-myrtle

Blue Flax-lily, Spreading Flax-lily

Kidney-weed, Mercury Bay Weed

Weeping Grass, Meadow Rice-grass

Tick-bush

Tantoon

Philotheca

Pittosporum

Blue Flax-lily

Blady Grass

Kangaroo Grass

False Sarsaparilla

Spiny-headed Mat-rush

Flax-leaved Paperbark

Lilly-pilly

**BOTANICAL NAME** 

Acmena smithii

Angophora bakeri

Angophora floribunda Angophora subvelutina

Corymbia maculata

Eucalyptus racemosa

Melaleuca linariifolia

Acacia parramattensis

Bossiaea heterophylla

Callistemon citrinus

Callistemon linearis

Callistemon salignus

Melaleuca armillaris

Melaleuca thymifolia

Philotheca salsolifolia

Pittosporum undulatum

Melaleuca nodosa

Groundcovers

Dianella caerulea

Dichondra repens

Dianella revoluta

Hardenbergia violacea

Imperata cylindrica

Lomandra longifolia

Microlaena stipoides

Themeda australis

Leptospermum polygalifolium

Leptospermum trinervium

Daviesia ulicifolia

Kunzea ambigua

Melaleuca decora

Acacia decurrens

Acacia falcata

Shrubs

NATIVE

 $\checkmark$ 

 $\checkmark$ 

MATURE HEIGHT

10m

20m

20m

20-25m

15m

6-10m

10m

10-15m

4m

10m

1m

9m

2m

2.5m

0.5-3m

4m

5m

4m

0.8m

1m

10m

0.6m

0.8m

0.3m

Creeper

1.2m

0.7m

0.7m

0.8m

**INSTALL SIZE** 

100L

100L

100L

100L

100L

100L

45L

45L

200mm

150mm

150mm

150mm

150mm

150mm

150mm

150mm

150mm

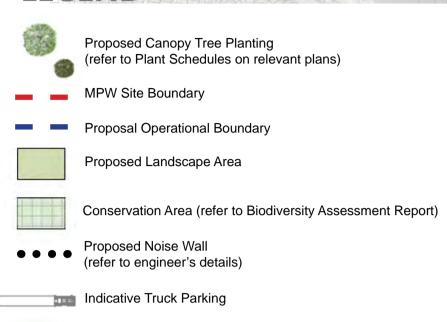
## **MOOREBANK PRECINCT WEST STAGE 2**

Moorebank Avenue, Moorebank, NSW

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

0 2 4 6 8 10 12 14 16 18 20M | | | | | | | | | | | | | |





Proposed Site Signage refer to Architectural Drawing

Existing Trees to be Removed

115123\_A\_SSD\_5000

#### **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**







Eucalyptus tereticornis

Melaleuca decora







Job Number Drawing Number 29.05.2017 20150728 LDA-006 В 1:1000 @ A1 (1:2000 @ A3) 0 5 10 20 30 40 50m

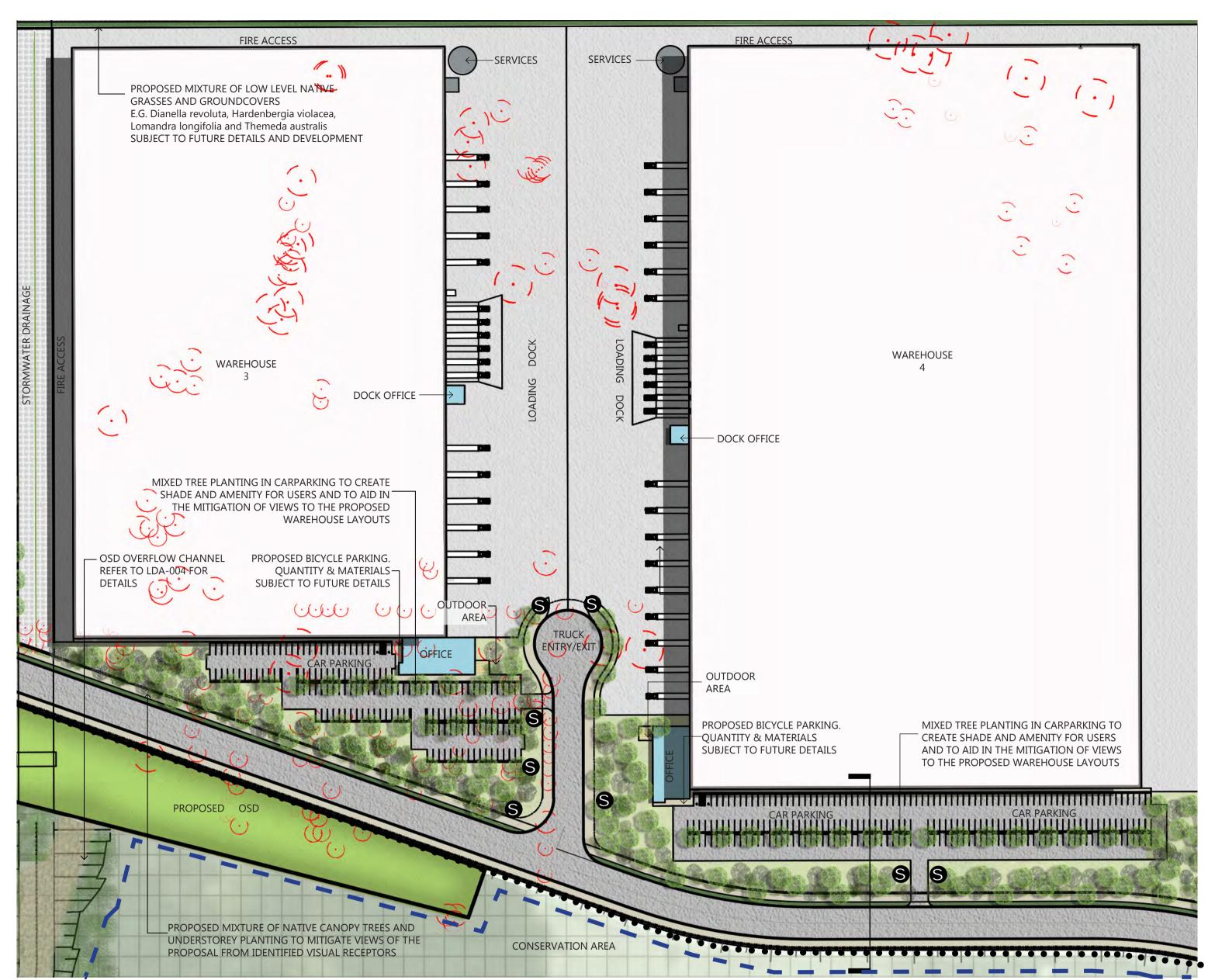
Australian standards and other codes as applicable, together

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### PRECINCT B LANDSCAPE PLAN

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

MIXED CANOPY TREE PLANTING TO CARPARKING EXISTING CONSERVATION AREA REFER TO PROPOSED MIXTURE OF NATIVE CANOPY TREES AND TO CREATE SHADE AND AMENITY FOR USERS BIODIVERSITY ASSESSMENT REPORT UNDERSTORY PLANTING TO MITIGATE VIEWS OF THE PROPOSAL FROM IDENTIFIED VISUAL RECEPTORS WAREHOUSE PROPOSED NOISE WALL TO ENGINEER'S DETAILS CAR PARKING INTERNAL ROAD CAR PARKING

Architect

#### PRECINCT B LANDSCAPE SECTION

SCALE: 1:200 @ A1 (1:400 @ A3) 0 2 4 6 8 10 12 14 16 18 20M | | | | | | | | | | | | | | | |

# -- REIDCAMPBELL

TACTICAL	

Project Manager

Date	Description	Drawn	Checked	Landscape Architect
8.16	FOR DEVELOPMENT APPLICATION	ВН	RL	
9.5.17	FOR DEVELOPMENT APPLICATION	ВН	RL	OIKOIIIO d'Il.
				groundink.
				gi odi idilik.
				landscape architecture - design visuals
				ABN 55 163 025 45 ACN 163 025 456
				Suite 201, 75 Archer St, Chatswood NSW 2067

**INDICATIVE PLANT SCHEDULE** 

Lilly-pilly

COMMON NAME

Narrow-leaved Apple

Rough-barked Apple

Snappy Gum, Scribbly Gum

Broad-leaved Apple

Spotted Gum

White Cloud Tree

Black Wattle

Sickle Wattle

Variable Bossiaea

Gorse Bitter-pea

Slender Tea-tree

Ball Honey-myrtle

Bracelet Honey-myrtle

Thyme Honey-myrtle

Blue Flax-lily, Spreading Flax-lily

Kidney-weed, Mercury Bay Weed

Weeping Grass, Meadow Rice-grass

Tick-bush

Philotheca

Pittosporum

Blue Flax-lily

Bladv Grass

False Sarsaparilla

Kangaroo Grass

Spiny-headed Mat-rush

Scarlet Bottlebrush

Flax-leaved Paperbark

Parramatta Green Wattle

Narrow-leaved Bottlebrush

White Bottlebrush, Pink-tips

**BOTANICAL NAME** 

Acmena smithii

Angophora bakeri

Angophora floribunda

Angophora subvelutina

Corymbia maculata

Melaleuca decora

Acacia decurrens

Acacia falcata

Shrubs

Eucalyptus racemosa

Melaleuca linariifolia

Acacia parramattensis

Bossiaea heterophylla

Callistemon citrinus

Callistemon linearis

Daviesia ulicifolia

Kunzea ambigua

Melaleuca nodosa

Groundcovers

Dianella caerulea

Dianella revoluta

Dichondra repens

Hardenbergia violacea

Imperata cylindrica

omandra longifolia.

Microlaena stipoides

Themeda australis

Melaleuca thymifolia

Philotheca salsolifolia

Pittosporum undulatum

Callistemon salignus

Leptospermum polygalifolium

Leptospermum trinervium Melaleuca armillaris

NATIVE MATURE HEIGHT

 $\checkmark$ 

 $\checkmark$ 

10m

20m

20m

20-25m

15m

6-10m

10m

10-15m

4m

10m

1m

4m

9m

2m

2.5m

0.5-3m

5m

4m

0.8m

1m

10m

0.6m

0.8m

0.3m

Creeper

1.2m

0.7m

0.7m

0.8m

**INSTALL SIZE** 

100L

100L

100L

100L

100L

100L

45L

45L

200mm

150mm

150mm

150mm

150mm

150mm

150mm

150mm

150mm

## **MOOREBANK PRECINCT WEST STAGE 2**

**Project Address** Moorebank Avenue, Moorebank, NSW

## **KEY PLAN**



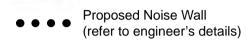
Proposed Canopy Tree Planting (refer to Plant Schedules on relevant plans)

MPW Site Boundary

Proposal Operational Boundary



Conservation Area (refer to Biodiversity Assessment Report)







Proposed 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**









Eucalyptus tereticornis

Melaleuca decora



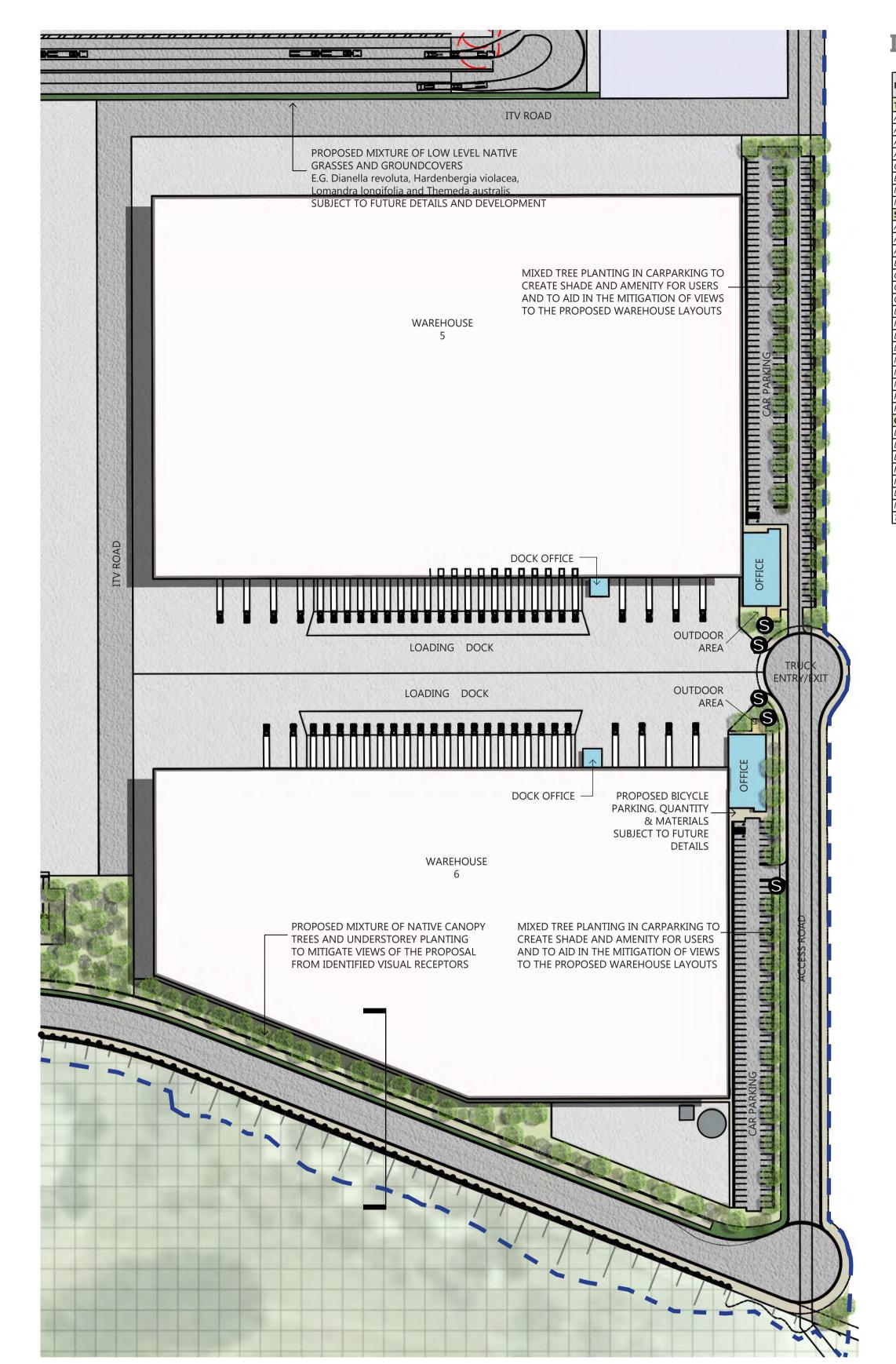
Melaleuca linariifolia

Job Number Drawing Number 29.05.2017 20150728 LDA-007 В 1:1000 @ A1 (1:2000 @ A3) 0 5 10 20 30 40 50m LANDSCAPE PLAN - WAREHOUSES 1B & 2B

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with other authorities' requirements and regulations.

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



#### **INDICATIVE PLANT SCHEDULE**

BOTANICAL NAME	COMMON NAME	NATIVE	EXPECTED MATURE HEIGHT	INSTALL SIZE
Trees	•			
Acmena smithii	Lilly-pilly	✓	12m	100L
Angophora bakeri	Narrow-leaved Apple	✓	10m	100L
Angophora floribunda	Rough-barked Apple	✓	20m	100L
Angophora 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



PROPOSED MIXTURE OF NATIVE CANOPY TREES AND UNDERSTOREY PLANTING TO MITIGATE VIEWS OF THE PROPOSAL FROM IDENTIFIED VISUAL RECEPTORS

## PRECINCT C LANDSCAPE SECTION

SCALE: 1:200 @ A1 (1:400 @ A3) 0 2 4 6 8 10 12 14 16 18 20M | | | | | | | | | | | | | |

# **KEY PLAN** Moorebank Avenue IMT FACILITY 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

#### **DESIGN STATEMENT**

Existing Trees to be Removed

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.

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

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

#### **PLANT IMAGES**







Eucalyptus tereticornis



Melaleuca decora



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PRECINCT C LANDSCAPE PLAN

REIDCAMPBELL TACTICAL

0 5 10 20 30 40 50m I I I I I I I I I I

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

Architect

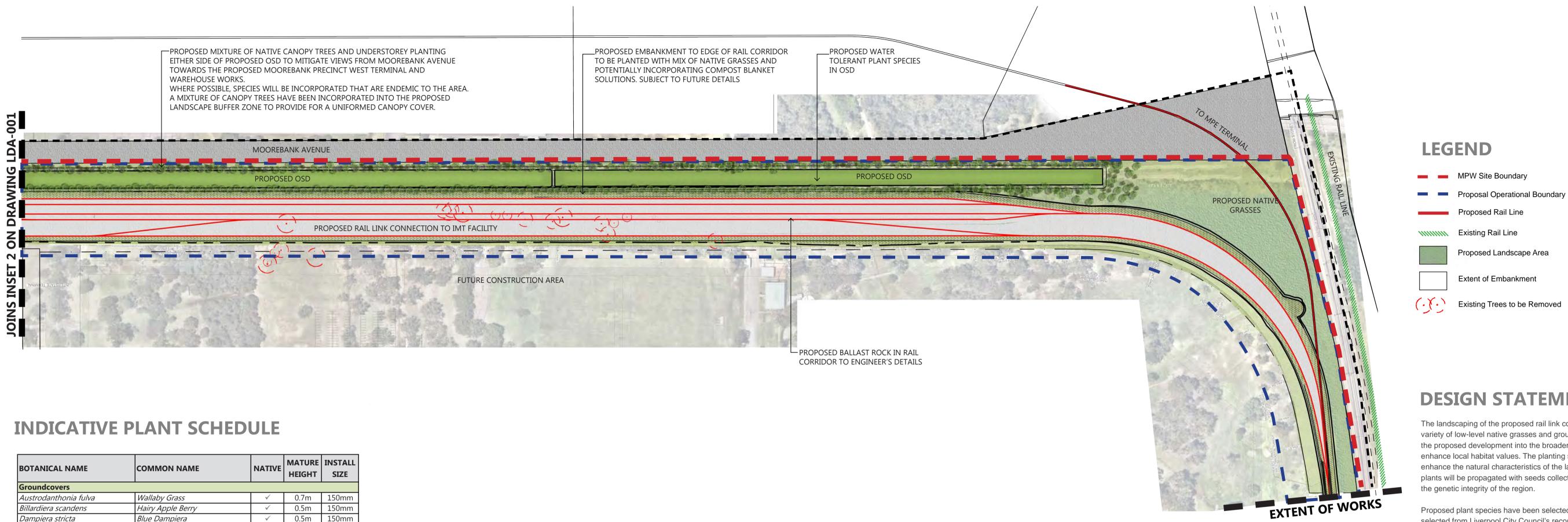
Project Manager

Issue Date Description Drawn Checked Landscape Architect A 3.8.16 FOR DEVELOPMENT APPLICATION B 29.5.17 FOR DEVELOPMENT APPLICATION BH RL Suite 201, 75 Archer St, Chatswood NSW 2067 Ph (02) 9411 3279 www.groundink.com.au

**MOOREBANK PRECINCT WEST STAGE 2** 

Moorebank Avenue, Moorebank, NSW

Job Number Drawing Number 29.05.2017 20150728 LDA-008 В 1:1000 @ A1 (1:2000 @ A3) 0 5 10 20 30 40 50m LANDSCAPE PLAN - WAREHOUSES 1C& 2C



#### **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**





Native Grasses against Ballast Dampiera stricta





Austrodanthonia fulva

Hardenbergia violacea

Job Number

Drawing Number

LDA-009

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with other authorities' requirements and regulations.

Billardiera scandens

Dampiera stricta

Dianella caerulea

Dianella revoluta

Dichondra repens

Hardenbergia violacea

Imperata cylindrica

Lomandra longifolia

Microlaena stipoides

Hairy Apple Berry

0.5m 150mm

0.3m 150mm

1.2m 150mm

0.6m

✓ 0.8m 150mm

✓ Creeper 150mm

✓ 0.7m 150mm

✓ 0.7m 150mm ✓ 0.8m 150mm

Blue Dampiera

Blue Flax-lily

Blue Flax-lily

Blady Grass

Weeping Grass

Kidney-weed

False Sarsaparilla

Spiny-headed Mat-rush

REIDCAMPBELL TACTICAL

Architect

Project Manager

Issue	Date	Description	Drawn	Checked	Landscape Architect
Α	3.8.16	FOR DEVELOPMENT APPLICATION	ВН	RL	
В	29.5.17	FOR DEVELOPMENT APPLICATION	ВН	RL	alkalladil.
					groundink.
					gi odi idilik.
					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

**MOOREBANK PRECINCT WEST STAGE 2** 

29.05.2017 20150728 В 1:2000 @ A1 (1:4000 @ A3) 0 5 10 20 30 40 50m Drawing Name

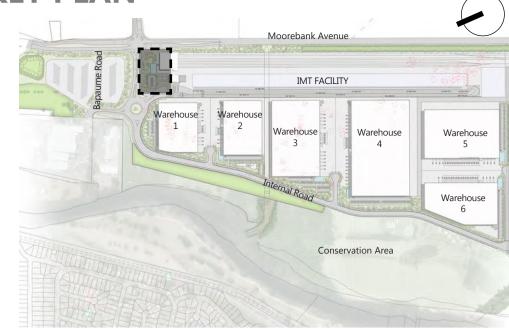
RAIL LINK LANDSCAPE PLAN

Project Address

Moorebank Avenue, Moorebank, NSW



#### **KEY PLAN**

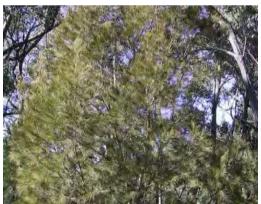


#### **DESIGN STATEMENT**

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**





Allocasuarina littoralis





Melaleuca decora

Pittosporum undulatum





Themeda asutralis

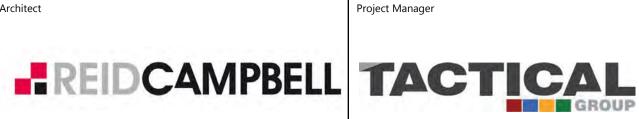
Lomandra longifolia

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Australian standards and other codes as applicable, together with other authorities' requirements and regulations.



Architect



	Issue	Date	Description	Drawn	Checked	Landscape Architect
	Α	3.8.16	FOR DEVELOPMENT APPLICATION	ВН	RL	
	В	29.5.17	FOR DEVELOPMENT APPLICATION	ВН	RL	ALKALIA ALL
						groundink
						landscape architecture · design visu
Р						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 Address Moorebank Avenue, Moorebank, NSW

