

#### Moorebank Precinct East Stage 2 Proposal Response to Submissions

Appendix B2: Revised Landscape Design Statement and Plans



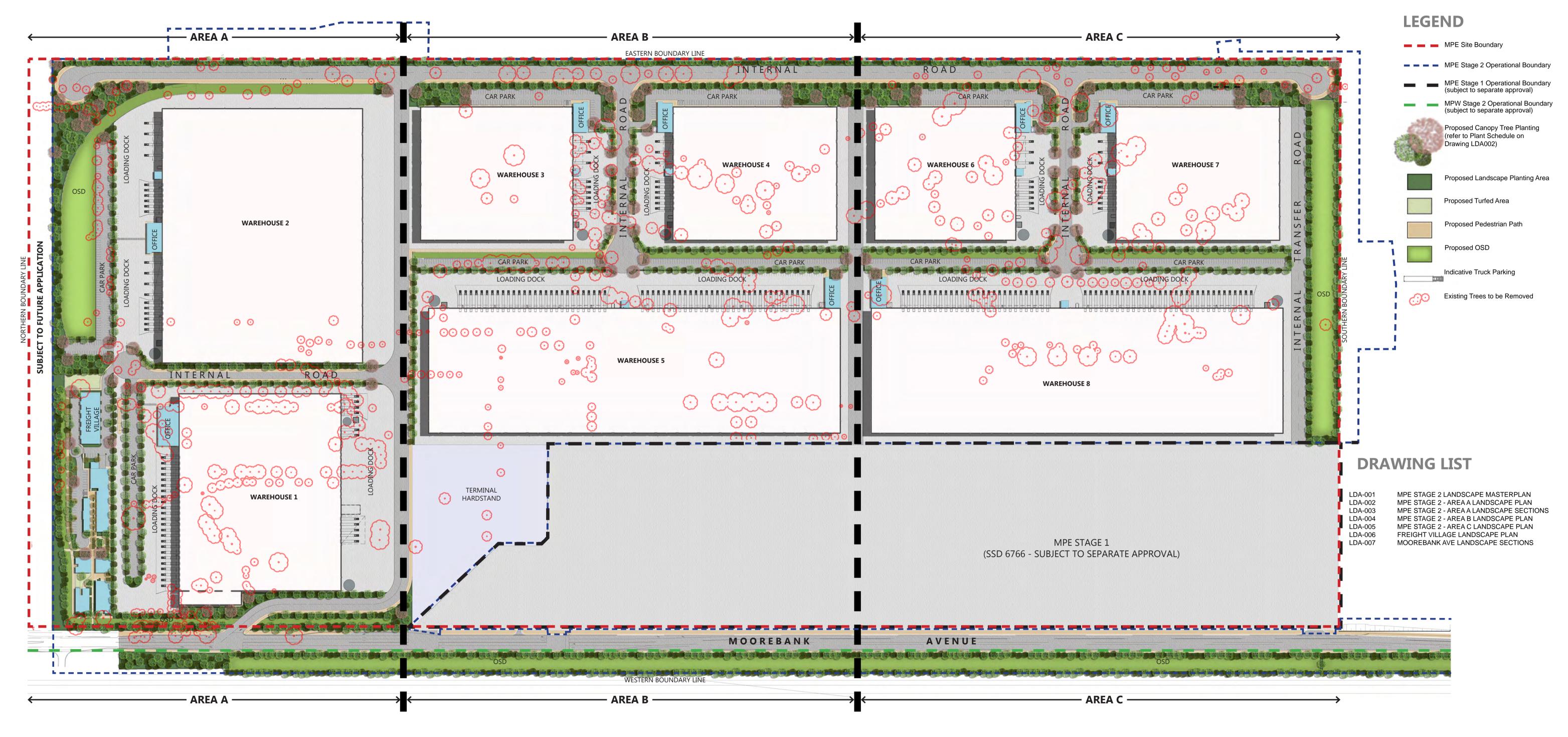
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SYDNEY INTERMODAL TERMINAL ALLIANCE

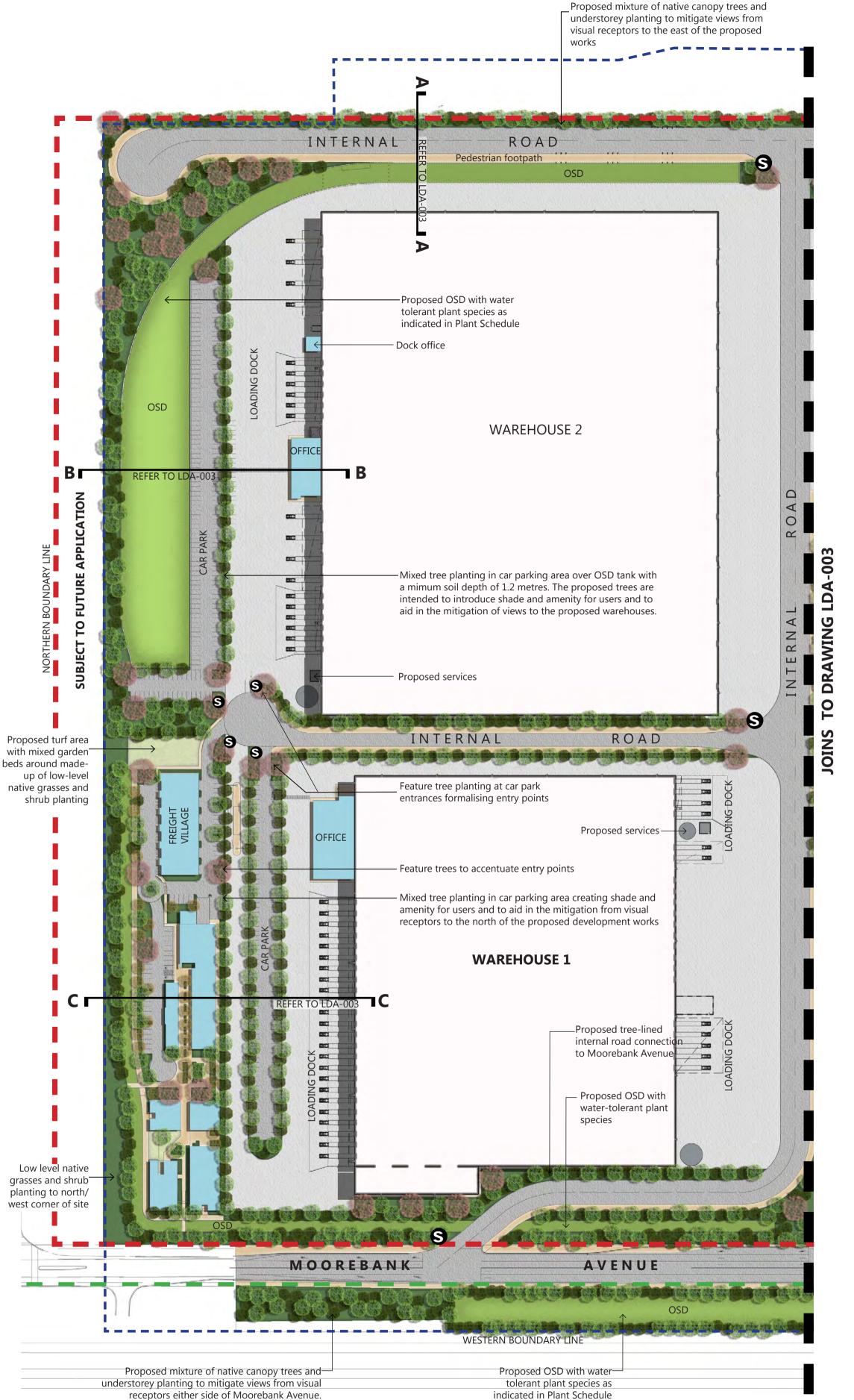
Part 4, Division 4.1, State Significant Development

# MOOREBANK PRECINCT EAST STAGE 2

## LANDSCAPE PLAN



This drawing and design is subject to Ground Ink Pty Ltd	Engineer	Architect	Project Manager	Issue Date Description	Drawn Checked	Landscape Architect	Project	Date	Revision Job Numbe	er Drawing Number
copyright and may not be reproduced without written consent. Verify all dimensions on site prior to commencing				A 7.11.16 DA DRAWINGS B 22.6.17 DA DRAWINGS	BH RL BH RL	anno mo alt	MOOREBANK PRECINCT EAST STAGE 2	22.06.2017	<b>B</b> 20151210	
work. Report all discrepancies to the project manager, prior to construction. Figured dimensions to be taken in preference to scaled drawings. Drawings made to	Pesign & Consultancy for natural and built assets	REIDCAMPBELL	TACTICAL			groundink.		Scale 1:2000 @ A1 (1:400	00 @ A3) 60 80 100m	North
precedence over drawings made to smaller scale and those for general purposes. All work is to conform to relevant	built assets		GROUP			ABN 55 163 025 45 ACN 163 025 456	Project Address	I I I I I I Drawing Name	1 1 1 1	
Australian standards and other codes as applicable, together with other authorities' requirements and regulations.						Suite 201, 75 Archer St, Chatswood NSW 2067 Ph (02) 9411 3279 www.groundink.com.au	Moorebank Avenue, Moorebank, NSW	MPE STAGE 2	2 - LANDSCAPE M	<b>IASTERPLAN</b>



#### PROPOSED 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

#### **OSD 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

#### FREIGHT VILLAGE PROPOSED 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	dra 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

#### **PLANT IMAGES**



Eucalyptus sideroxylon



Callistemon citrinus



Acacia parramattensis



Kunzea ambigua



Dianella caerulea



Themeda asutralis



Dichondra repens



Lomandra longifolia

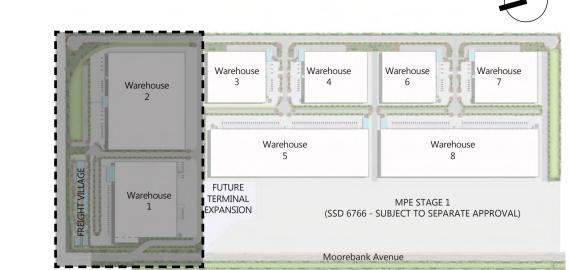


Juncus usitatus



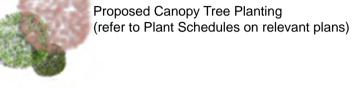
Pittosporum undulatum

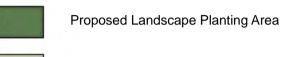
#### **KEY PLAN**



#### LEGEND

MPE Site Boundary ■ ■ ■ MPE Stage 2 Operational Boundary MPW Stage 2 Operational Boundary (subject to separate approval)



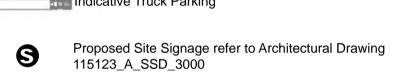


Proposed Turfed Area



Proposed OSD







#### **DESIGN STATEMENT**

The purpose of the landscape scheme is to re-introduce a mixture of site-suitable plant species as selected from Liverpool City Council's recommended plant list which aim to enhance and create habitat opportunities and links to the surrounding vegetation communities. The proposed tree planting has been designed with the intent of creating a uniform canopy cover throughout the area to provide shade and amenity to the site, thus mitigating the heat island effect. The positioning of the built forms has maximised planting opportunities. Large trees planted within this area will serve to minimise visual impacts from the surrounding urban landscape.

Planting within the onsite detention channels proposes plant selections which are local species that 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.

A mix of large native canopy trees has been applied to the Proposal which provides opportunities for shade throughout car parking areas and pedestrian pathways. This has been designed with a variety of tree forms - both small and large - to create a hierarchy in the proposed landscape works.

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 and intends to create an avenue style planting scheme along internal roads. Feature tree planting is used throughout the site to highlight entrances and other transitional points.

The landscape for the proposed freight village aims to provide an easily-orientated pathway network for visitors and workers of the site. Planting will incorporate a range of local species that have been selected for their unique forms, colours and textures that aim to provide screening whilst also accenting walkways and open space areas which are incorporated into the village.

The landscaping to the South West corner of the Proposal, on the Western side of Moorebank Ave 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.

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ARCADIS Design & Consultance for natural and built assets



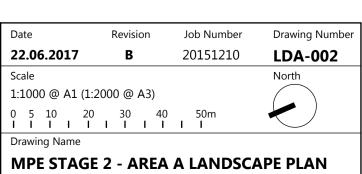


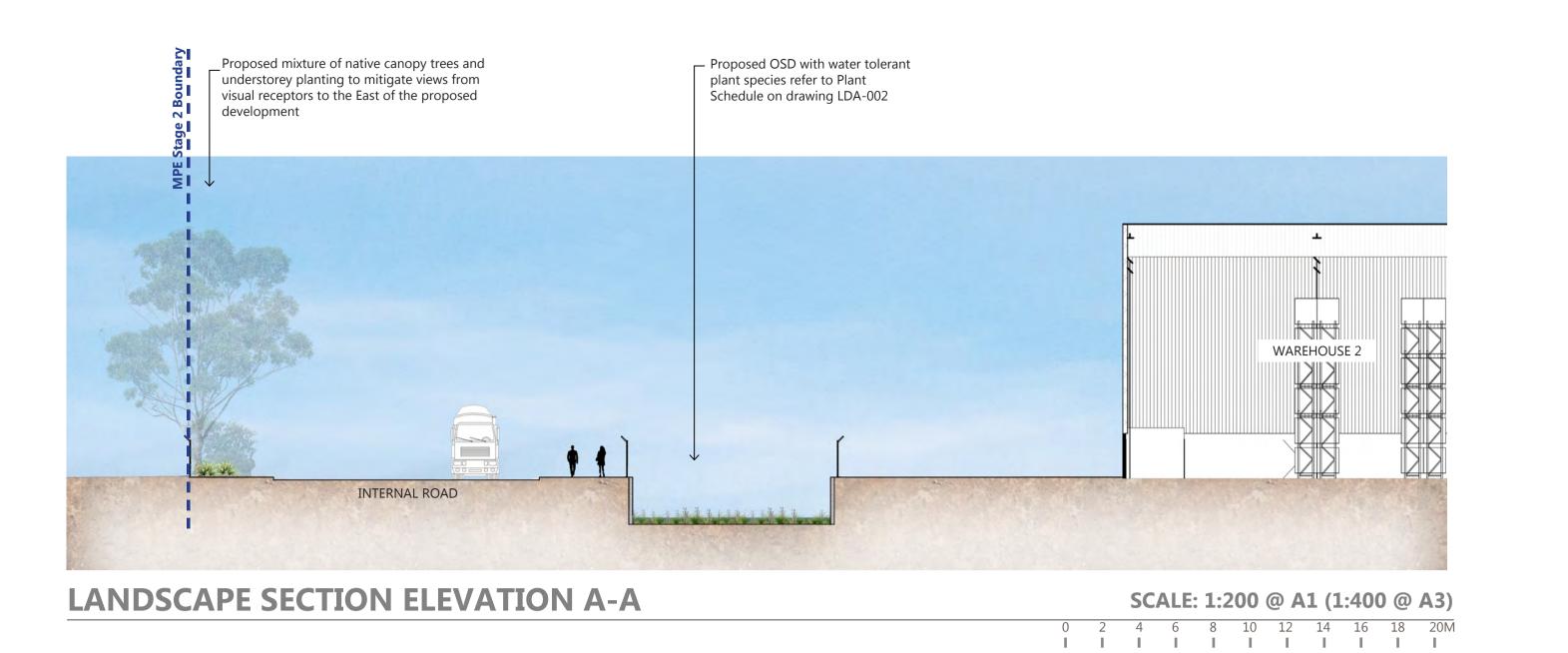
Project Manager

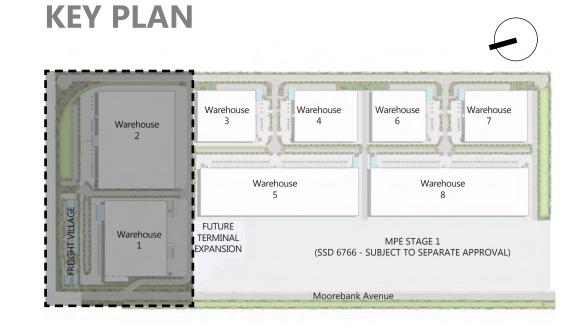
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				groundink
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				ABN 55 163 025 45 ACN 163 025 456
				Suite 201, 75 Archer St, Chatswood NSW 2067
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**MOOREBANK PRECINCT EAST STAGE 2** 

Project Address Moorebank Avenue, Moorebank, NSW







#### **LEGEND**

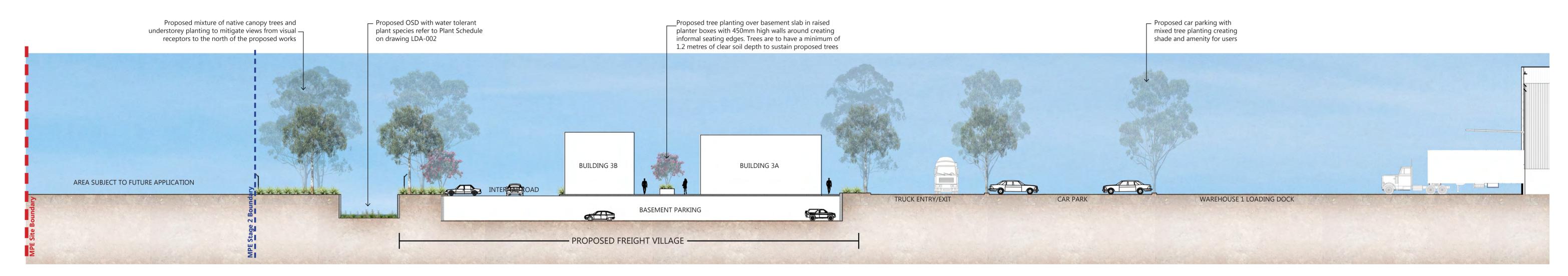
MPE Site Boundary

**— — — MPE Stage 2 Operational Boundary** 



LANDSCAPE SECTION ELEVATION B-B

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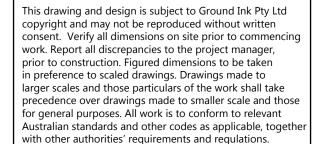


Issue Date Description

#### LANDSCAPE SECTION ELEVATION C-C

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Architect



Project Manager

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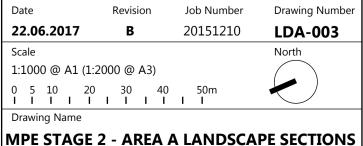
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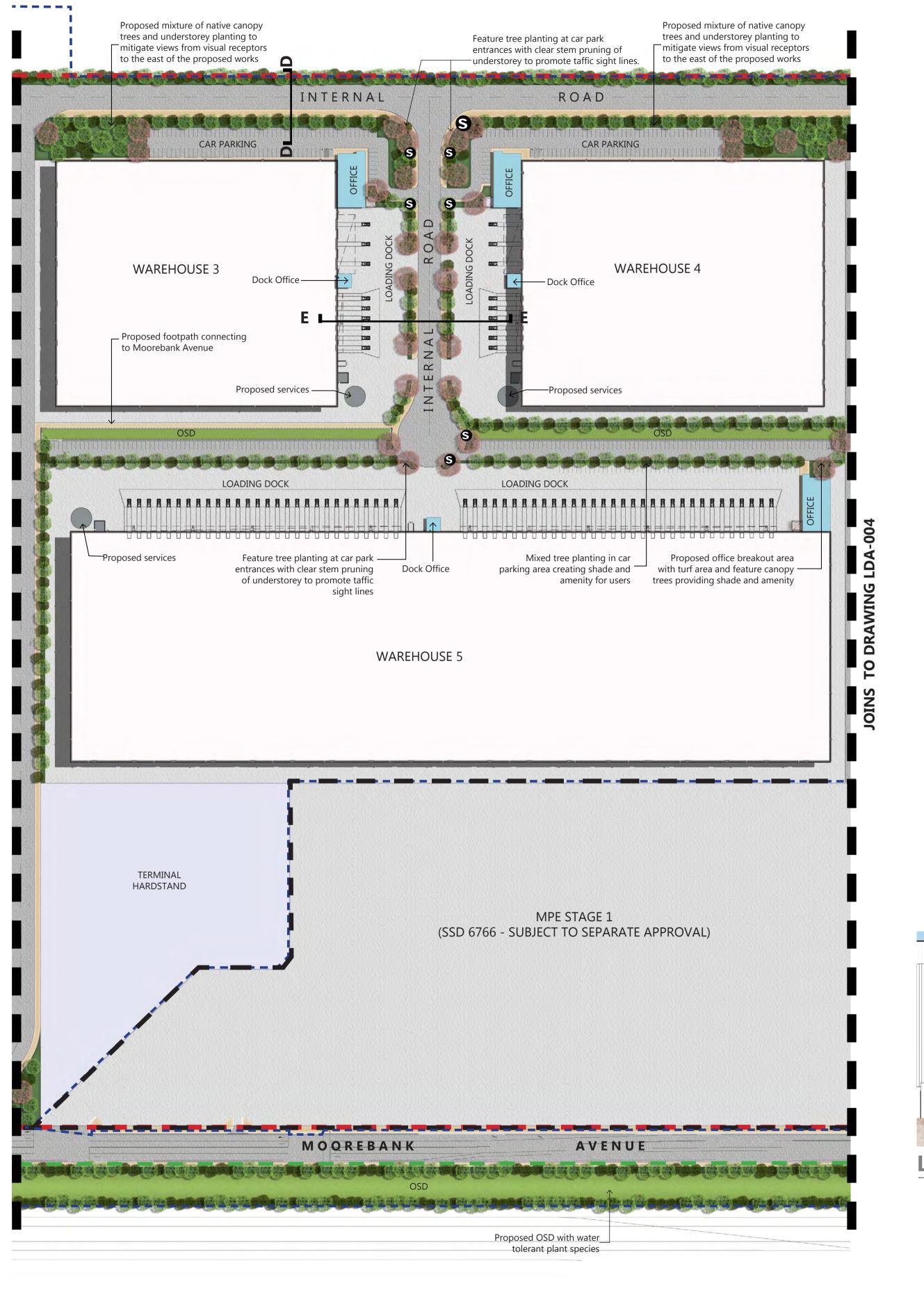
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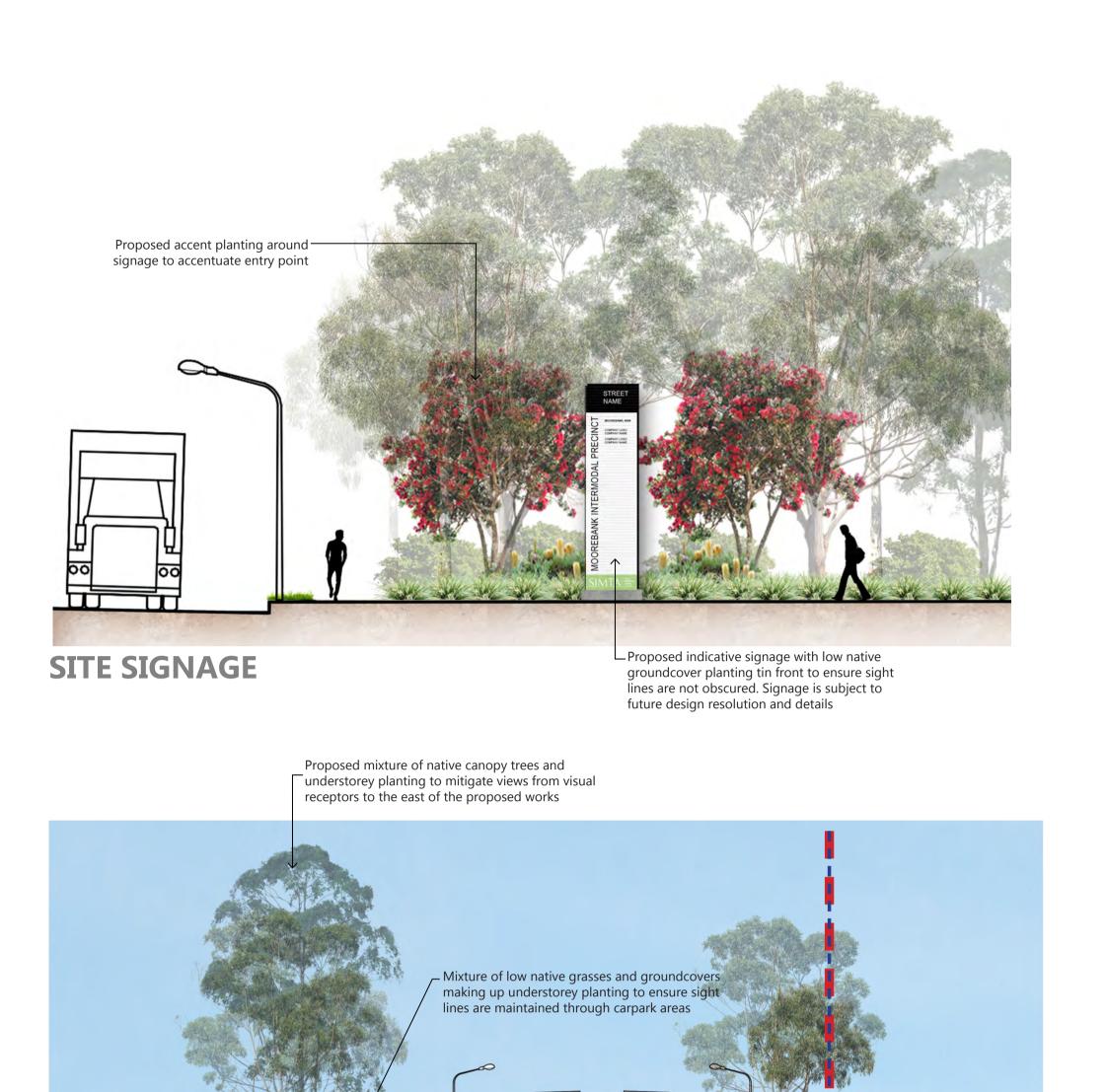
Project Address

Moorebank Avenue, Moorebank, NSW

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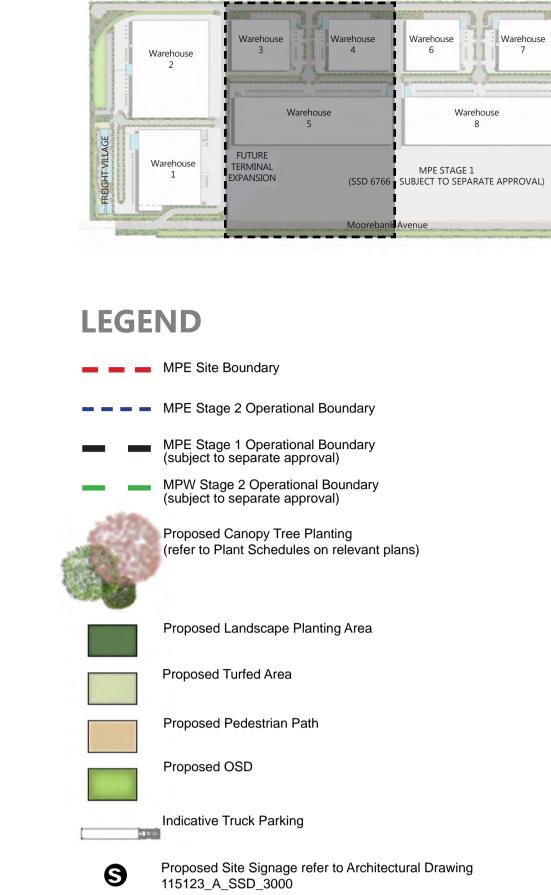




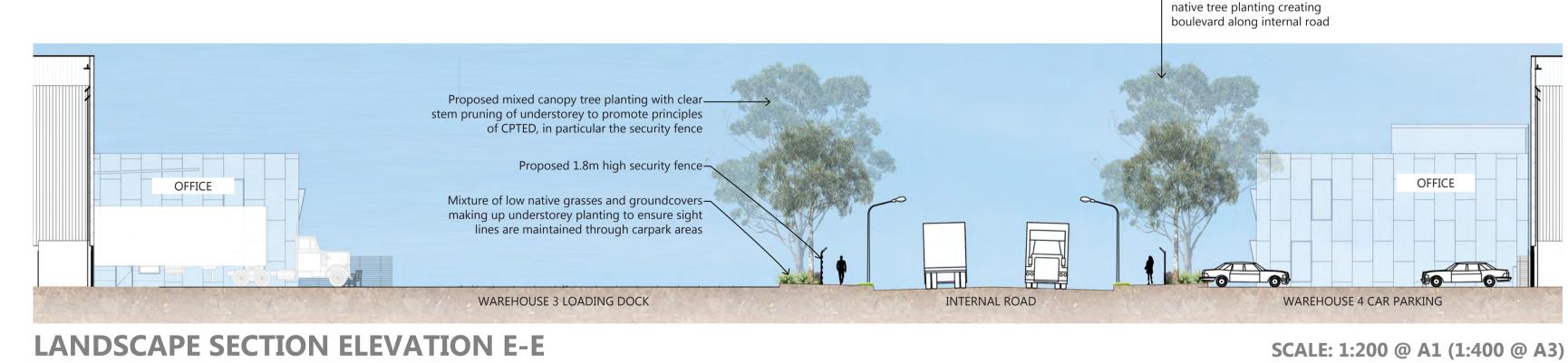


INTERNAL ROAD

LANDSCAPE SECTION ELEVATION D-D

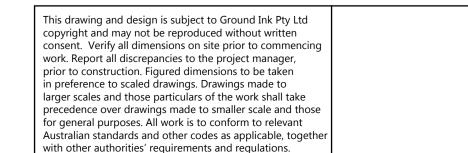


**KEY PLAN** 



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Project Manager

Date	Description	Drawn	Checked	Landscape Architect
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				groundink.
				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 EAST STAGE 2** 

22.06.2017 В 20151210 1:1000 @ A1 (1:2000 @ A3) 0 5 10 20 30 40 50m I I I I I I I I I I **MPE STAGE 2 - AREA B LANDSCAPE PLAN** 

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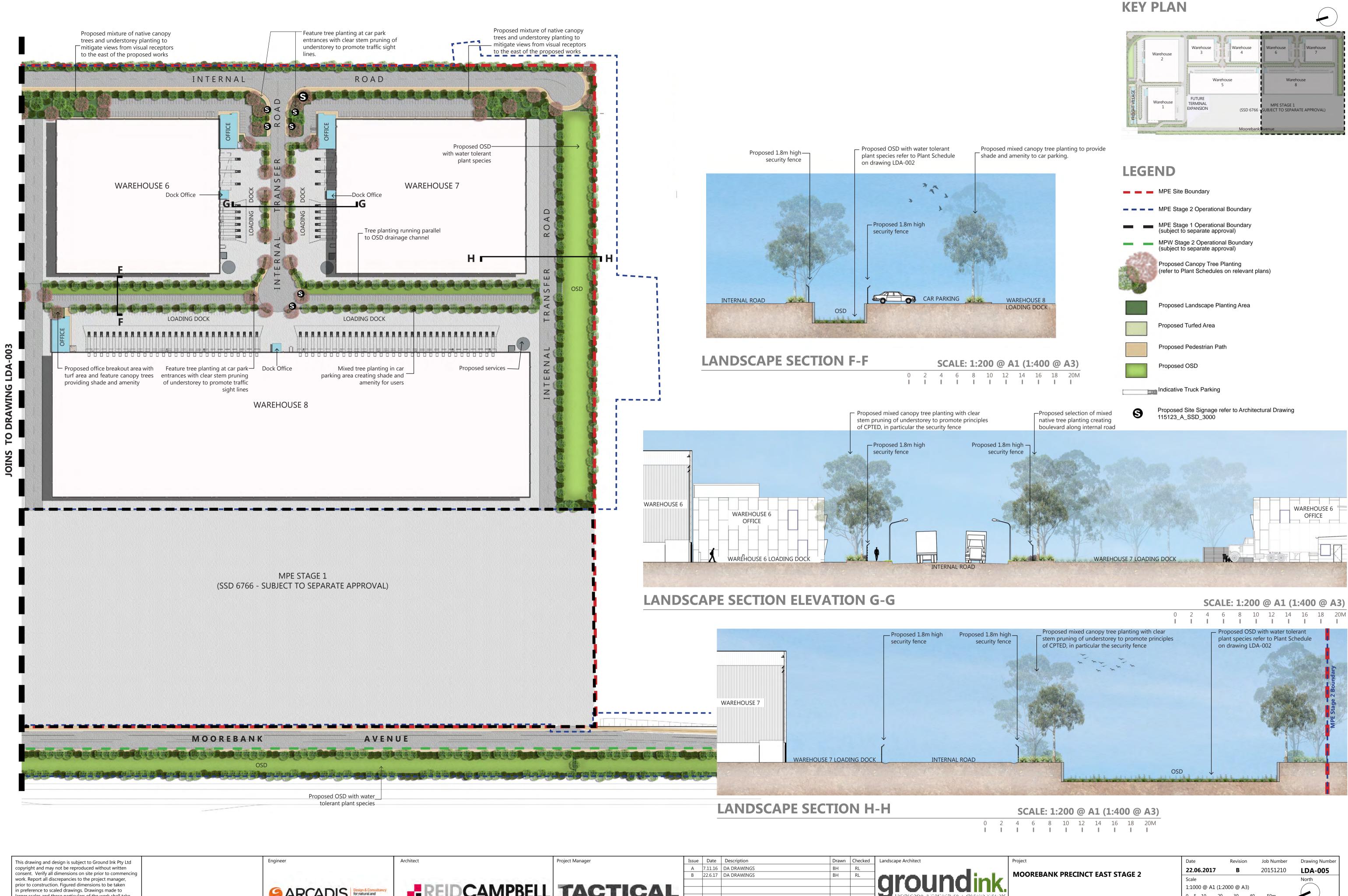
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Proposed selection of mixed

Project Address Moorebank Avenue, Moorebank, NSW



REIDCAMPBELL TACTICAL ARCADIS Design & Consultancy for natural and built assets larger scales and those particulars of the work shall take 0 5 10 20 30 40 50m I I I I I I I I I I precedence over drawings made to smaller scale and those ABN 55 163 025 45 ACN 163 025 456 for general purposes. All work is to conform to relevant Suite 201, 75 Archer St, Chatswood NSW 2067 Australian standards and other codes as applicable, together Moorebank Avenue, Moorebank, NSW **MPE STAGE 2 - AREA C LANDSCAPE PLAN** with other authorities' requirements and regulations. Ph (02) 9411 3279 www.groundink.com.au



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ARCADIS Design & Consultancy for natural and built assets

REIDCAMPBELL TACTICAL

Architect

Issue Date Description

Project Manager

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Drawn Checked

Landscape Architect

MOOREBANK PRECINCT EAST STAGE 2

Moorebank Avenue, Moorebank, NSW

Job Number Drawing Number 22.06.2017 20151210 В LDA-006 1:500 @ A1 (1:1000 @ A3) 0 5 10 20 30 40 50m I I I I I I I I I I FREIGHT VILLAGE LANDSCAPE PLAN

