THE YARDS KEMPS CREEK MODIFICATION THE YARDS, KEMPS CREEK, NSW

LANDSCAPE CONCEPT PLAN 12.04.2022 DA SUBMISSION ISSUE G



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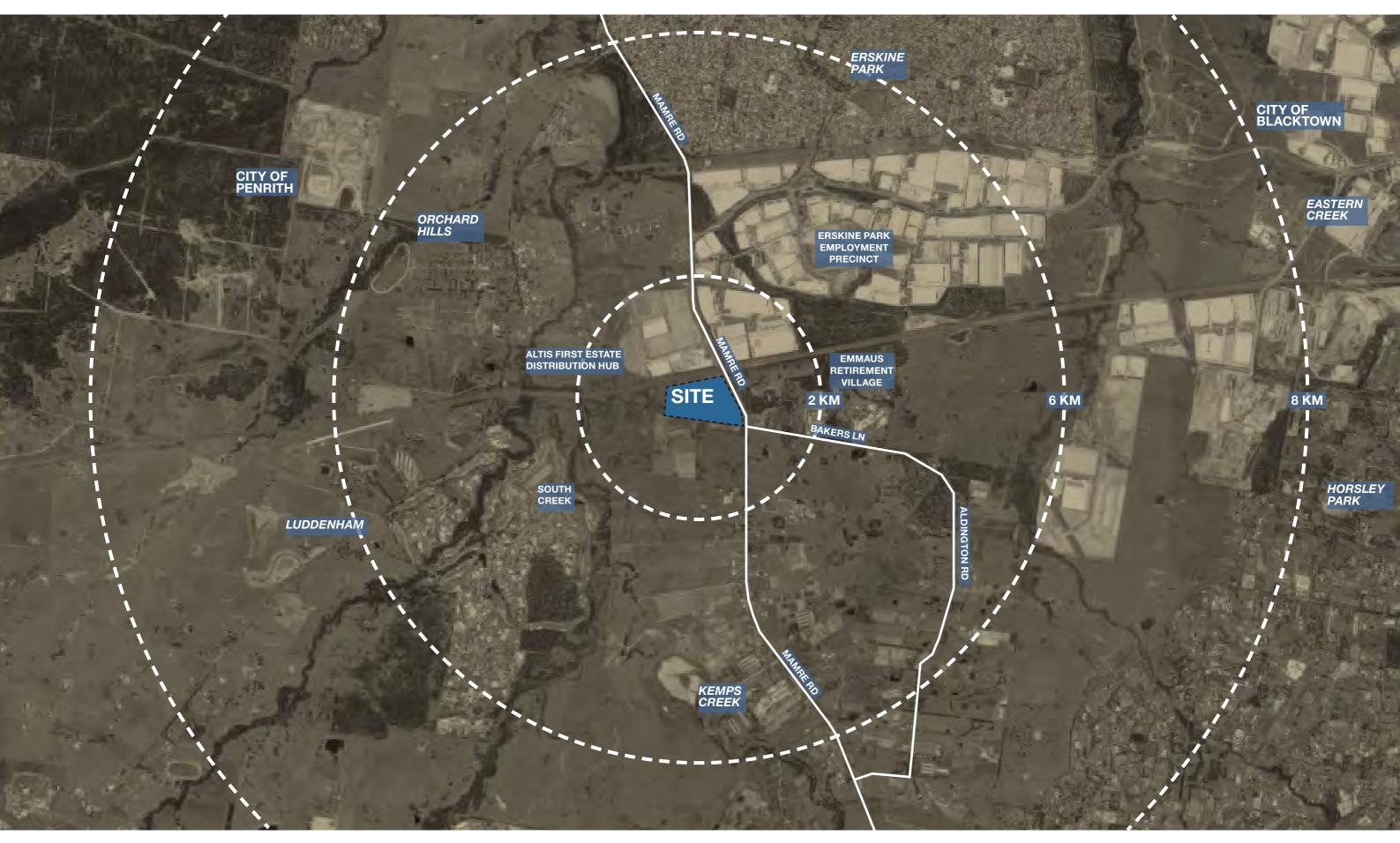


LANDSCAPE ARCHITECT:



M: 0425 206 047

REGIONAL CONTEXT



PROJECT	DRAWING TITLE	PROJECT NO.	PURPOSE	SCALE	REVISION	DATE	DRAWN	CHECKED	PAGE	
THE YARDS KEMPS CREEK MODIFICATION THE YARDS, KEMPS CREEK NSW	REGIONAL CONTEXT	H8-21043	DA SUBMISSION	NTS	G	12.04.2022	KM/DG	DV	L02	FRASERS PROPERTY ALTIS



Level 57, MLC Centre 19-29 Martin Place, Sydney, NSW 2000

32/24 Scott St, Byron Bay, NSW 2481

SITE CONTEXT: AERIAL PHOTO



PROJECT THE YARDS KEMPS CREEK MODIFICATION THE YARDS, KEMPS CREEK NSW DRAWING TITLE SITE CONTEXT: AERIAL PHOTO PROJECT NO.PURPOSEH8-21043DA
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SITE ZONING MAP



PROJECT	DRAWING TITLE	PROJECT NO.	PURPOSE	SCALE	REVISION	DATE	DRAWN	CHECKED	PAGE	CLIENT
THE YARDS KEMPS CREEK MODIFICATION THE YARDS, KEMPS CREEK NSW	SITE ZONING MAP	H8-21043	DA SUBMISSION	NTS	G	12.04.2022	KM/DG	DV	L04	



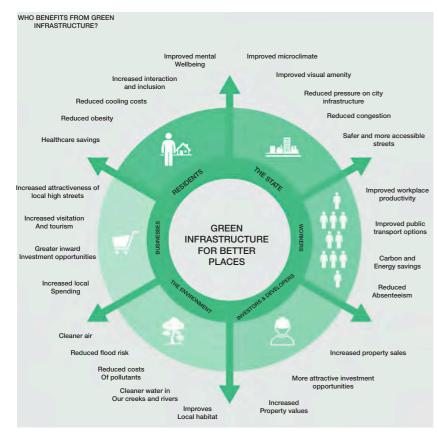
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ANDSCAPE DESIGN PHILOSOPHY

Green Infrastructure is the network of green spaces, natural systems and semi-natural systems including parks, rivers, bushland and private gardens that are strategically planned, designed and managed to support a good quality of life in an urban environment.

Green Infrastructure should be envisioned as a three-dimensional envelope that surrounds and connects buildings, streets and utilities. The concept of landscape as Green Infrastructure provides a framework for integrating the work of designers, planners, developers and policy makers, and leveraging this collaboration to achieve larger local or state goals.



NSW GAO - Greener Places Policy 2020

Green Infrastructure is as crucial to the city as transport, cultural and communications infrastructure. It delivers a range of benefits including:

- Healthy living
- Mitigating flooding
- Improving air and water quality
- Cooling the urban environment
- Encouraging walking and cycling
- Enhancing biodiversity and ecological resilience
- Absorbing and transforming waste.

The landscape design principles for the landscape masterplan (Issue K-23.07.20) are consistent with the previous exhibited application. These four main principles associated with the draft NSW Greener Places Policy prepared by the Government Architect NSW (2017) are:

Principle 1: Integration: We propose a multi-purpose infrastructure a) strategy that mimics nature, provides critical ecosystem services and promotes healthy and active living. We propose to combine green space with urban

development and WSD infrastructure.

b) Principle 2: Connectivity: We aim to create a network of high quality open streetscape and spaces that connect with each warehouse and office, public transport hubs, South creek corridor. The network includes physical and functional connections that benefit people, wildlife and the logistics nature of the estate.

Principle 3: Multifunctionality: Our proposed green space infrastructure C) is designed to be high quality and high performing, producing ecological, social, environmental and economic benefits. The multifunctionality of our design proposal allows the sites green infrastructure to deliver multiple ecosystem, environmental and other services simultaneously.

d) Principle 4: Participation: We have followed a planning process that has been open to all, transparent and incorporates the knowledge and needs of all interested and diverse parties. The process has involved stakeholders in development, NSW Government Penrith Council and the industrial open market through tenants and the companies they represent. The process has incorporated local and state Green Infrastructure policies and actions.

The following design features reflect the project outcomes:

PROJECT OUTCOMES:

1. Conservation of the natural environment.

- This project will lead to the future enhancement of the increasing endemic canopy tree planting
- promotion of social, cultural, recreational, and educational opportunities within natural landscapes.
- Increased access to open space
- improved connections to local destinations such as the South Creek corridor
- quantity, quality, distribution, and accessibility of Industrial office green spaces enables the delivery of multifunctional spaces that promote healthy work environments
- З. Improved connectivity to promote active living
- improvements to the office communal areas and frontages that promote exercise and alternative modes of transport such as walking and cycling.
- Increase urban greening to ameliorate climate extremes 4.
- design of green cover strategies including street trees, front setback canopy trees, cooler pavement materials and WSUD.
- Provide benefits such as improved amenity, comfort, health, reduced stormwater run-off, improved air and water quality, and energy and resource efficiency

RE-VEGETATION STRATEGY a)

The strategy for re-vegetating the site focuses on canopy tree planting to reduce the "urban heat island effect". We have proposed a mix of local endemic, native and exotic trees to strengthen the urban design principles and to comply with current sustainability guidelines. Street verges, buffer tree planting to boundaries and all road setbacks are densely planted with canopy trees ranging from 6m to 15m+ in height and canopy spread. Car parks hard surfaces are shaded by tree planting between car parking spaces. Cycleways and path systems are also shaded by canopy tree planting. WSUD principles including soft engineering through bio-swales, detention basins and grey water re-use (co-ordinated with the civil engineer) shall help in maintaining and managing the re-vegetation areas.

Greener Places policy principles: Integration, Connectivity, Multifunctionality.

COMPLETE STREETS b)

All streets have been designed to be multifunctional and provide connectivity throughout the Estate for vehicles, pedestrians and cyclists. The streets form the main "green spines" throughout development. The street has been designed in accordance with Penrith City Council's Public Domain policy. The main features of the public domain street design are to:

- 2. Provide safe and comfortable transit for pedestrians and cyclists;
- 3. Strengthen canopy connectivity through the Estate;
- 4. Visually link the Estate and Blue Mountains beyond;

6. Soften and screen the bulk of the warehouses;

routes:

project:

9. Integrate lighting for safety; 10. Allow safe passage for visitors and workers 11. Strengthen the connection from Mamre Road through improvements to

Aldington Road.

12. Incorporate WSUD principles into the streetscape including water quality bio-swales and vegetated detention basins.

Participation

PROJECT	DRAWING TITLE	PROJECT NO.	PURPOSE	SCALE	REVISION	DATE	DRAWN	CHECKED	PAGE	CLIENT
THE YARDS KEMPS CREEK MODIFICATION THE YARDS, KEMPS CREEK NSW	LANDSCAPE DESIGN PHILOSOPHY	H8-21043	DA SUBMISSION	NTS	G	12.04.2022	KM/DG	DV	L05	

1. Provide tree canopy cover and reduce the "urban heat island effect";

- 5. Allow multi-functionality through the revisions of various transit lanes such as heavy vehicle, cars, pedestrian footpaths and cycleways;
- 7. Help create a cooler microclimate around buildings and along pedestrian

8. Provide multiple opportunities to create an address for each warehouse

Greener Places policy principles: Integration, Connectivity, Multifunctionality,



LANDSCAPE MASTERPLAN

KEY

SITE BOUNDARY

2100mm HT PALISADE SECURITY FENCE TO ARCHITECT'S DETAILS CONCRETE EDGING

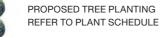
> ACOUSTIC BARRIER IF REQUIRED AS NOTED IN THE SSD-9522 OPERATIONAL NOISE ASSESSMENT FOR MODIFICATION REPORT

----- TIMBER EDGING



PLANTING BEDS REFER TO PLANT SCHEDULE







TURF

TREE CANOPY COVER

TREE NO.	TREE CANOPY	CANOPY AREA (m²)	TOTAL CANOPY COVER (m ²)
105	3m	7	735
66	5m	20	1320
68	6m	30	2040
333	8m	50	16650
66	10m	78	5148
28	15m	177	4956

DCP REQUIREMENT 10%



PROJECT THE YARDS KEMPS CREEK MODIFICATION THE YARDS, KEMPS CREEK NSW DRAWING TITLE LANDSCAPE MASTERPLAN

PROJECT NO. PURPOSE H8-21043 DA

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SCALE

REVISION DATE 12.04.2022

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CONTEXT PLAN

DESIGN NOTES

- 1. SITE ENTRY FEATURE
- Feature tree planting
- Signage
- 2. MAMRE RD SETBACK
- Large canopy tree planting (15m ht x 10m dia)
- Canopy tree planting (10m ht)
- Screening shrubs (min 3m ht)

3. INTERNAL ACCESS ROAD

- 2m landscape setback from boundary to fence line
- Canopy street tree planting (6m ht+) to turf verge
- Large canopy trees in setback and in cul-de-sac centre island
- Footpath to DCP requirements
- 4. CARPARK
- Feature tree planting at carpark entry points
- Canopy trees (6m min ht)
- Mix of low groundcover and screening shrubs at perimeter
- Feature trees around office and carpark entries

5. LANDSCAPE SETBACK

- 2m landscape setback from boundary to fence line
- Canopy street tree planting (6m ht+) to turf verge
- Large canopy trees in setback (10m min ht x 10m dia canopy)
- 6. SCREEN PLANTING
- Canopy tree planting (10m min ht x 10m dia canopy)

7. MAMRE ROAD WIDENING (FUTURE)

- 8. CAR ENTRY / EXIT
 - 8a. Car Entry Only
 - 8b. Car Exit Only
 - 8c. Truck Entry Only
 - 8d. Truck Exit Only
 - 8e. Truck Entry / Exit

100m

9. FUTURE RAIL CORRIDOR

- 10. CONCRETE EDGING TO SITE BOUNDARY
- 11. GREENWALL

80

ENTRY AND INTERSECTION TO FUTURE DETAIL

HABIT8

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9. FUTURE RAIL CORRIDOR 11. GREENWALL

PROJECT THE YARDS KEMPS CREEK MODIFICATION THE YARDS, KEMPS CREEK NSW DRAWING TITLE LANDSCAPE CONCEPT PLAN 01

PROJECT NO. PURPOSE H8-21043

DA SUBMISSION

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SITE BOUNDARY

KEYPLAN

2100mm HT PALISADE SECURITY FENCE TO ARCHITECT'S DETAILS

CONCRETE EDGING

ACOUSTIC BARRIER IF REQUIRED AS NOTED IN THE SSD-9522 **OPERATIONAL NOISE ASSESSMENT** FOR MODIFICATION REPORT



PROPOSED TREE PLANTING REFER TO PLANT SCHEDULE



TURF



PLANTING BEDS REFER TO PLANT SCHEDULE

BIO BASIN REFER TO PLANT SCHEDULE

TIMBER EDGING

Large canopy tree planting (15m ht x 10m dia) Canopy tree planting (10m ht)

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Canopy tree planting (10m min ht x 10m dia canopy)

7. MAMRE ROAD WIDENING (FUTURE)

- 10. CONCRETE EDGING TO SITE BOUNDARY

5	10	15	20 	30m			
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SITE BOUNDARY

KEYPLAN

2100mm HT PALISADE SECURITY FENCE TO ARCHITECT'S DETAILS

CONCRETE EDGING

ACOUSTIC BARRIER IF REQUIRED AS NOTED IN THE SSD-9522 **OPERATIONAL NOISE ASSESSMENT** FOR MODIFICATION REPORT



PROPOSED TREE PLANTING REFER TO PLANT SCHEDULE



TURF



PLANTING BEDS REFER TO PLANT SCHEDULE

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- 10. CONCRETE EDGING TO SITE BOUNDARY

5	10	15	20	30m		
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32/24 Scott St, Byron Bay, NSW 2481



PROJECT THE YARDS KEMPS CREEK MODIFICATION THE YARDS, KEMPS CREEK NSW DRAWING TITLE LANDSCAPE CONCEPT PLAN 03

PROJECT NO. PURPOSE H8-21043

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SITE BOUNDARY

KEYPLAN

2100mm HT PALISADE SECURITY FENCE TO ARCHITECT'S DETAILS

CONCRETE EDGING

ACOUSTIC BARRIER IF REQUIRED AS NOTED IN THE SSD-9522 **OPERATIONAL NOISE ASSESSMENT** FOR MODIFICATION REPORT



PROPOSED TREE PLANTING REFER TO PLANT SCHEDULE



TURF



PLANTING BEDS REFER TO PLANT SCHEDULE

BIO BASIN REFER TO PLANT SCHEDULE

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7. MAMRE ROAD WIDENING (FUTURE)

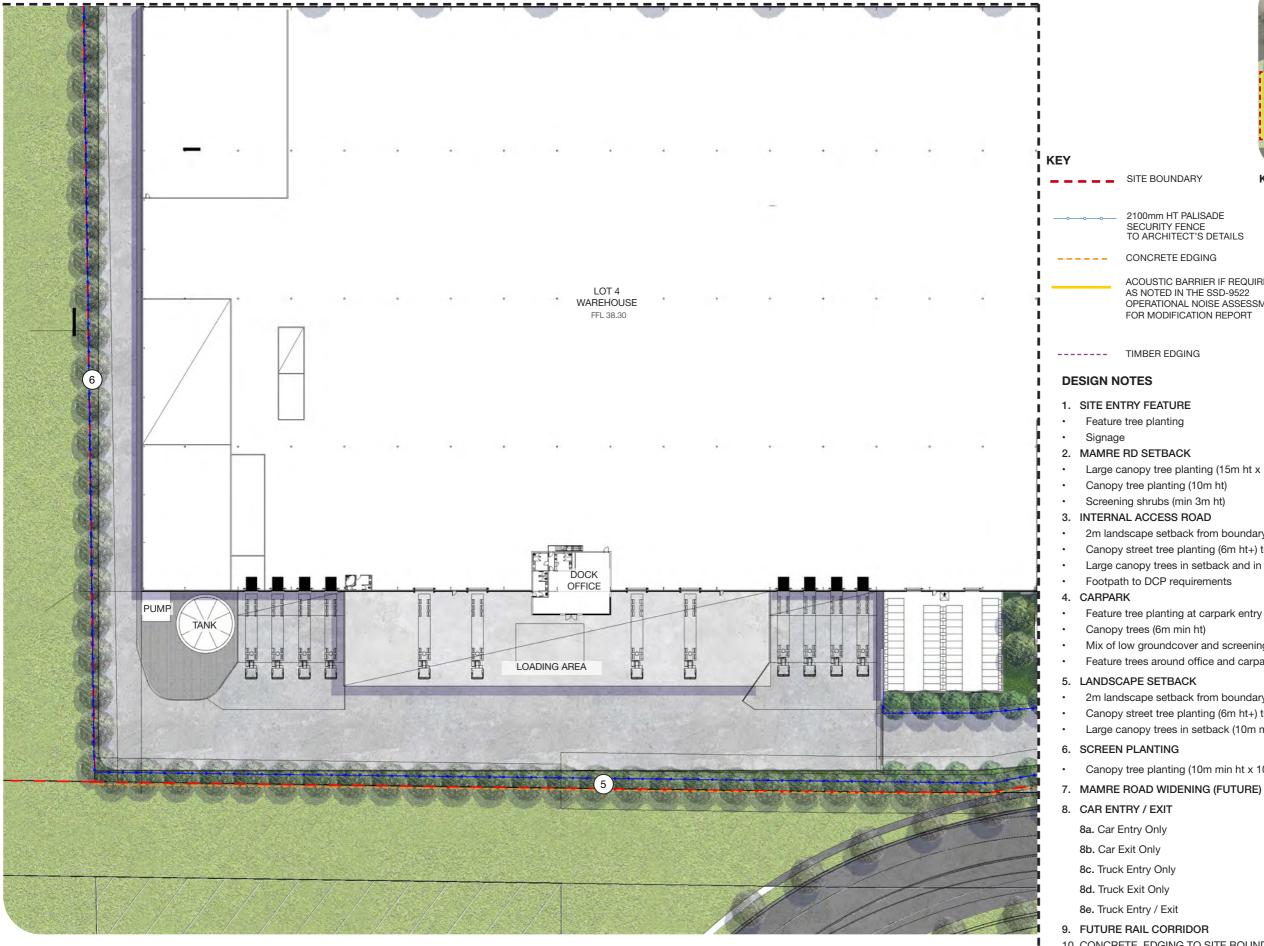
- 10. CONCRETE EDGING TO SITE BOUNDARY

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PROJECT THE YARDS KEMPS CREEK MODIFICATION THE YARDS, KEMPS CREEK NSW DRAWING TITLE LANDSCAPE CONCEPT PLAN 04

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11. GREENWALL

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KEYPLAN

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CONCRETE EDGING

ACOUSTIC BARRIER IF REQUIRED AS NOTED IN THE SSD-9522 **OPERATIONAL NOISE ASSESSMENT** FOR MODIFICATION REPORT



PROPOSED TREE PLANTING REFER TO PLANT SCHEDULE



TURF



PLANTING BEDS REFER TO PLANT SCHEDULE

BIO BASIN

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- 10. CONCRETE EDGING TO SITE BOUNDARY

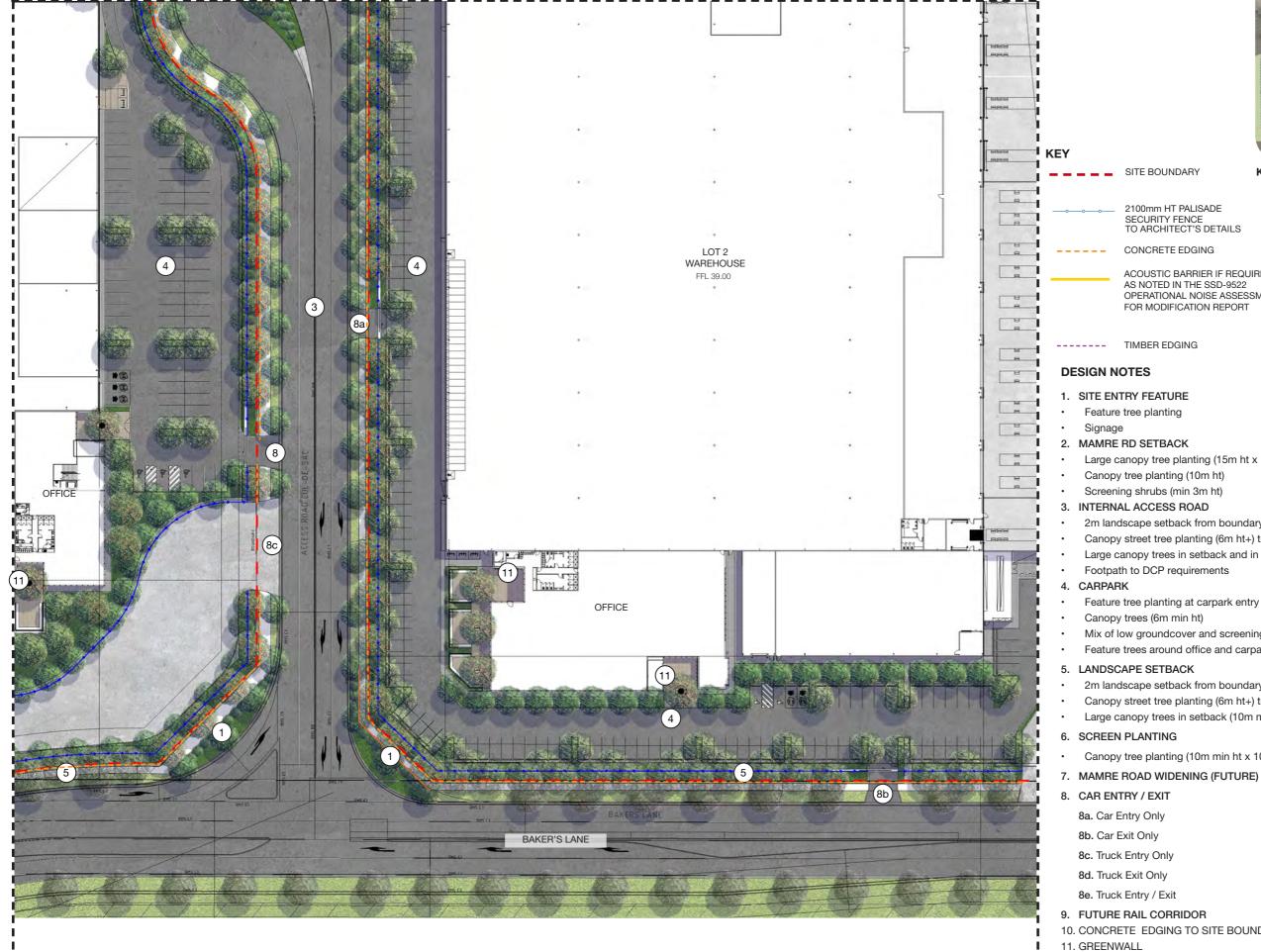
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REFER TO PLANT SCHEDULE



PROJECT THE YARDS KEMPS CREEK MODIFICATION THE YARDS, KEMPS CREEK NSW DRAWING TITLE LANDSCAPE CONCEPT PLAN 05

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KEYPLAN

2100mm HT PALISADE SECURITY FENCE TO ARCHITECT'S DETAILS

CONCRETE EDGING

ACOUSTIC BARRIER IF REQUIRED AS NOTED IN THE SSD-9522 **OPERATIONAL NOISE ASSESSMENT** FOR MODIFICATION REPORT



PROPOSED TREE PLANTING REFER TO PLANT SCHEDULE



TURF



PLANTING BEDS REFER TO PLANT SCHEDULE

BIO BASIN REFER TO PLANT SCHEDULE

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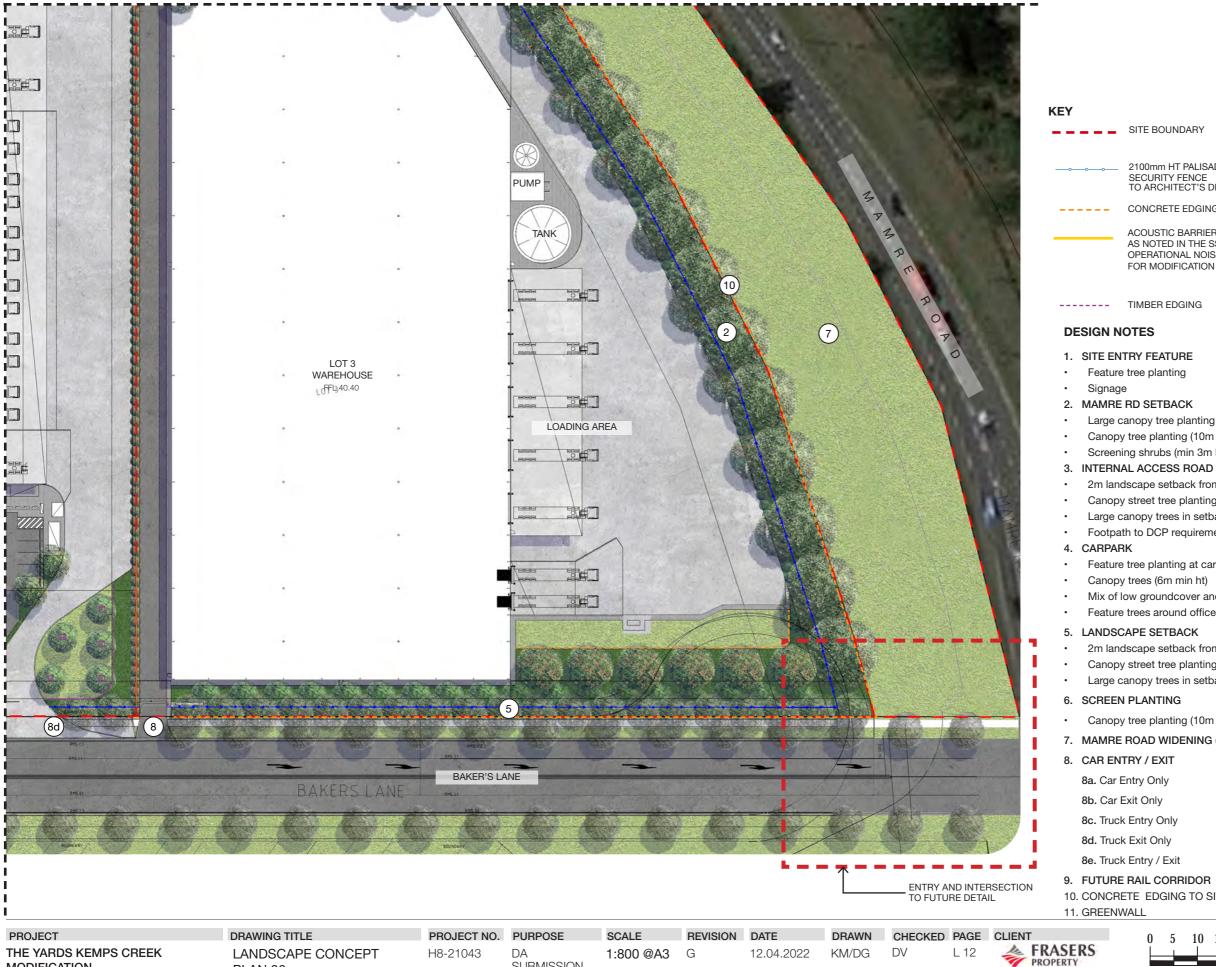
- 10. CONCRETE EDGING TO SITE BOUNDARY

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MODIFICATION THE YARDS, KEMPS CREEK NSW LANDSCAPE CONCEPT PLAN 06

H8-21043

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SITE BOUNDARY 2100mm HT PALISADE SECURITY FENCE TO ARCHITECT'S DETAILS CONCRETE EDGING ACOUSTIC BARRIER IF REQUIRED AS NOTED IN THE SSD-9522 **OPERATIONAL NOISE ASSESSMENT** FOR MODIFICATION REPORT

DESIGN NOTES

1. SITE ENTRY FEATURE

- Feature tree planting
- Canopy tree planting (10m ht)
- Screening shrubs (min 3m ht)

- Canopy trees (6m min ht)

- 6. SCREEN PLANTING

- 8. CAR ENTRY / EXIT
 - 8a. Car Entry Only
 - 8b. Car Exit Only
- 8d. Truck Exit Only
- 8e. Truck Entry / Exit
- 9. FUTURE RAIL CORRIDOR 10. CONCRETE EDGING TO SITE BOUNDARY 11. GREENWALL



KEYPLAN



PROPOSED TREE PLANTING REFER TO PLANT SCHEDULE



TURF



PLANTING BEDS REFER TO PLANT SCHEDULE

REFER TO PLANT SCHEDULE

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7. MAMRE ROAD WIDENING (FUTURE)

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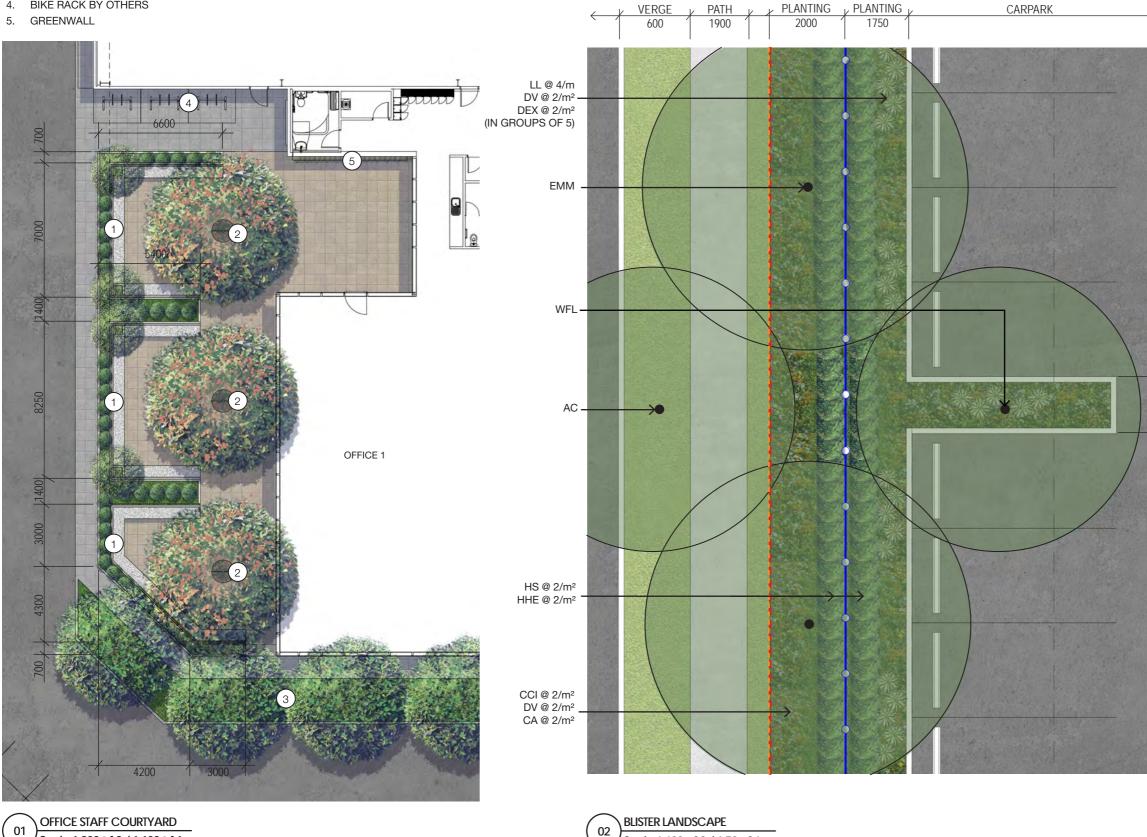
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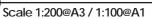
BIO BASIN

TYPICAL DETAIL PLAN

DESIGN NOTES

- 1. PLANTER / SEATWALL
- 2. PROPOSED TREES IN PAVING GRATE AND TREE PIT
- PROPOSED SCREENING TREES 3.
- 4. BIKE RACK BY OTHERS





02 Scale 1:100@A3 / 1:50@A1 BOUNDARY

AND SETBACK

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THE YARDS KEMPS CREEK MODIFICATION THE YARDS, KEMPS CREEK NSW	TYPICAL DETAIL PLAN	H8-21043	DA SUBMISSION	1:200 @A3	G	12.04.2022	KM/DG	DV	L 13	FRASERS PROPERTY ALTIS



KEYPLAN

KEY

SITE BOUNDARY

2100mm HT PALISADE SECURITY FENCE TO ARCHITECT'S DETAILS

---- CONCRETE EDGING TO EDGE

TURF

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FEATURE PAVING

PROPOSED TREE PLANTING

REFER TO PLANT SCHEDULE

REFER TO PLANT SCHEDULE

TO ARCHITECT'S SPECIFICATION



PLANTING BEDS



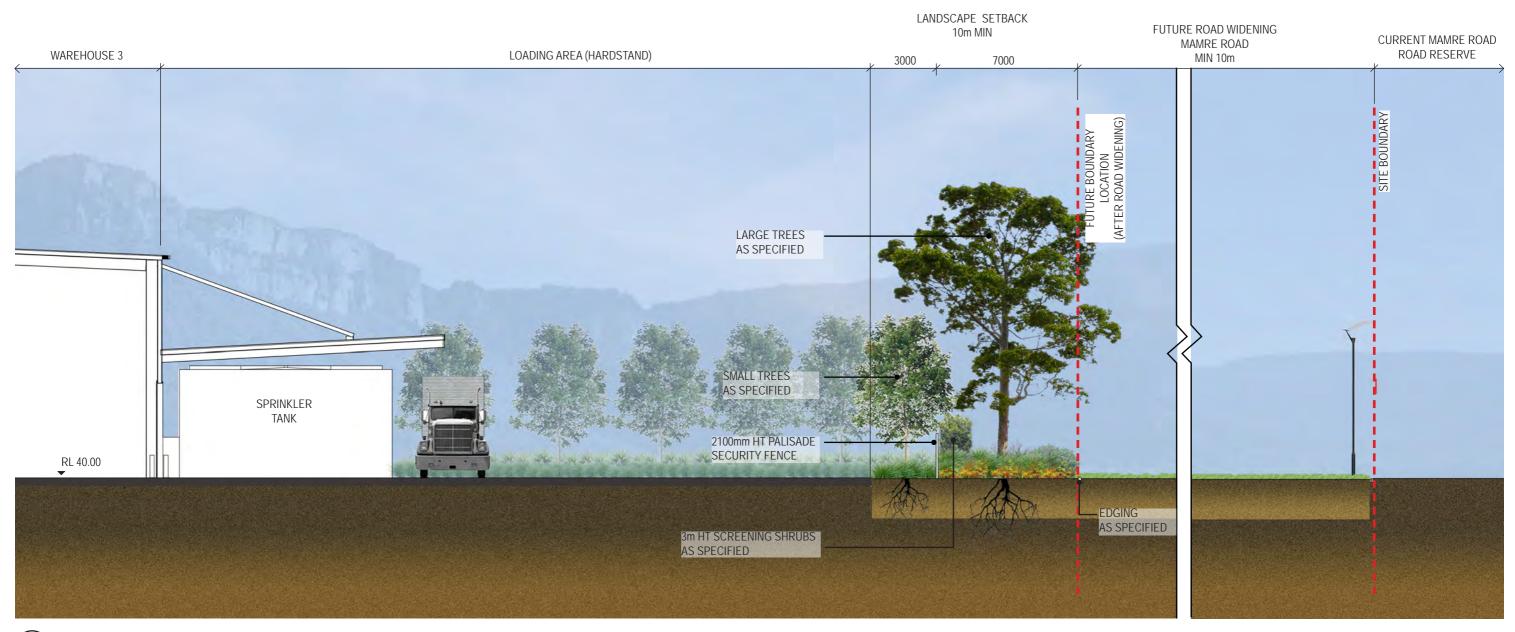


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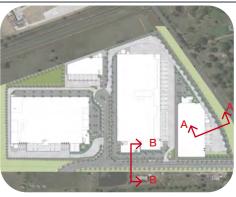
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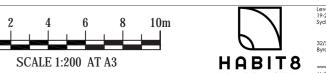


01 SECTION A-A Scale 1:200@A3 / 1:100@A1

PROJECT DRAWING TITLE PROJECT NO. PURPOSE SCALE REVISION DATE DRAWN CHECKED PAGE CLIENT THE YARDS KEMPS CREEK 12.04.2022 KM/DG DV L14 LANDSCAPE SECTION A-A H8-21043 DA 1:200 @A3 G -MODIFICATION SUBMISSION **ALTIS** THE YARDS, KEMPS CREEK NSW



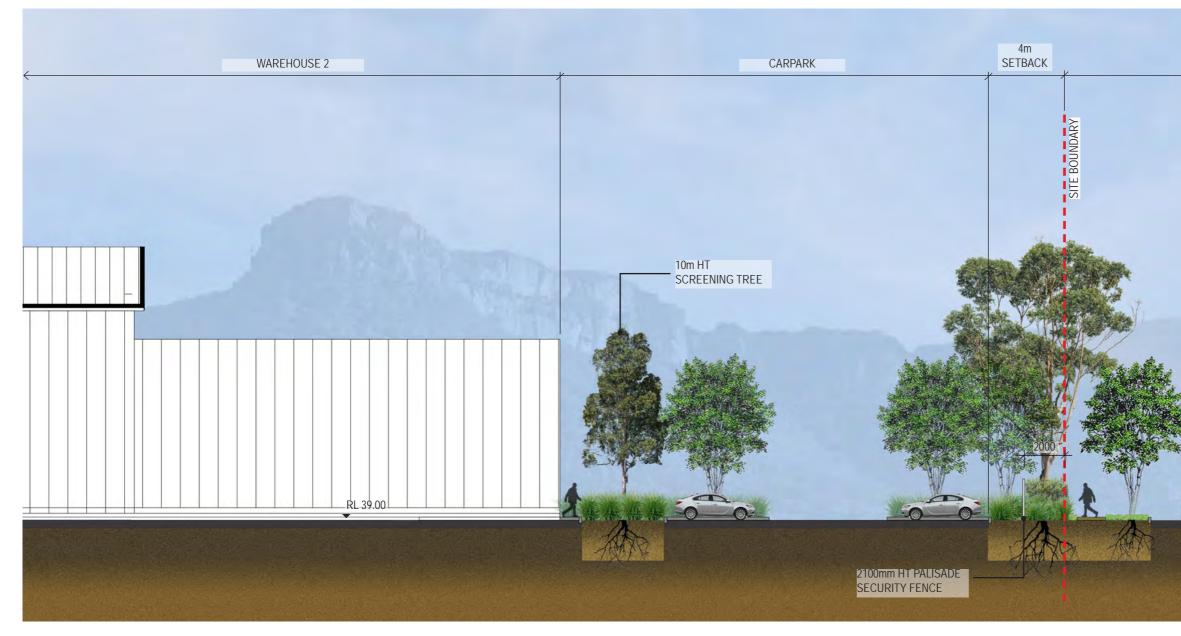
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PROJECT THE YARDS KEMPS CREEK MODIFICATION THE YARDS, KEMPS CREEK NSW DRAWING TITLE LANDSCAPE SECTION B-B

PROJECT NO. PURPOSE H8-21043

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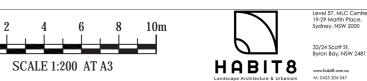


ALTIS



KEYPLAN





INDICATIVE PLANTING SCHEDULE

SMALL TREE SPECIES				
BOTANICAL NAME + POT SIZE	COMMON NAME			
Backhousia citriodora (100L)	Lemon Scented Myrtle			
Callistemon salignus (75L)	Willow Bottlebrush			
Lagerstroemia hybrids 'Indian Summer Range' (100L)	Crepe Myrtle Lipan, Biloxi			
Lophostemon confertus (200L)	Brush Box			
Melaleuca linariifolia (100L)	Snow in Summer			
Waterhousea floribunda and cultivars (200L)	Weeping Lilly Pilly			
Acacia parramattensis (35L)	Parramatta Wattle			
Melaleuca decora (35L)	White Feather Honeymyrtle			
Angophora costata (200L)	Smooth Bark Apple			

GROUNDCOVERS, FERNS, HEDGES, GRASSES & CLIMBERS (150mm pot size)				
BOTANICAL NAME (150mm pot size) @ 4/m2	COMMON NAME			
Adiantum aethiopicum	Maidenhair Fern			
Carex appressa	Tall sedge			
Cissus antarctica	Native Grape			
Clematis aristata	Old Man's Beard			
Dianella longifolia	Flax Lily			
Dichondra repens	Kidney Weed			
Hardenbergia violacea	Purple Twining-pea			
Juncus usitatus	Common Rush			
Lomandra longifolia	Spiny Mat Rush			
Microlaena stipoides	Weeping Grass			
Pandorea pandorana	Wonga Vine			
Poa labillardieri	Tussock Grass			

Plant species sourced from The Mamre Road DCP 2021 - Appendix C Plant list.

PLANT IMAGES



EUCALYPTUS CREBRA



EUCALYPTUS AMPLIFOLIA







DRAWING TITLE



CUPAN











TRISTANIOPSIS LAURINA

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WATERHOUSEA FLORIBUNDA GLOCHIDION FERDINANDI

PROJECT NO. PURPOSE

MELALEUCA LINARIIFOLIA

SCALE

SYNCARPIA GLOMULIFERA

MELALEUCA STYPHELIOIDES

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PROJECT THE YARDS KEMPS CREEK MODIFICATION THE YARDS, KEMPS CREEK NSW

INDICATIVE PLANTING SCHEDULE H8-21043

NTS DA SUBMISSION

REVISION DATE G

DRAWN CHECKED PAGE CLIENT DV 12.04.2022 KM/DG



LARGER TREE SPECIES	LARGER TREE SPECIES		
BOTANICAL NAME + POT SIZE	COMMON NAME		BOTA
Casuarina glauca (75L)	Swamp Oak		Acacia binervia
Eucalyptus amplifolia (75L)	Cabbage Gum		Acacia implexa
Eucalyptus crebra (75L)	Narrow Leaved Ironbark		Breynia oblong
Eucalyptus fibrosa (75L)	Broad Leaved Ironbark		Bursaria spinos
Eucalyptus moluccana (75L)	Grey Box		Callistemon sal
Eucalyptus punctata (75L)	Grey Gum		Callistemon cit
Eucalyptus tereticornis (75L)	Forest Red Gum		Clerodendrum
Araucaria columnaris & A. heterophylla (400L)	Cook Pine/ Norfolk Island Pine		Daviesia ulicifo
Angophora costata (400L)	Smooth Bark Apple		Dodonaea visco
Corymbia maculata (200L)	Spotted Gum		Goodenia hede

LARGER TREE SPECIES				
BOTANICAL NAME	COMMON NAME			
Angophora costata (200L)	Smooth Bark Apple			
Corymbia maculata (200L)	Spotted Gum			

BIO-RETENTION BASIN PLANT SPECIES (TUBESTOCK) @ 5/m2				
BOTANICAL NAME	COMMON NAME			
Lomandra longifolia	Spiny Mat Rush			
Poa labillardieri	Tussock Grass			

SHRUBS				
BOTANICAL NAME	COMMON NAME			
Acacia binervia	Coast Myall			
Acacia implexa	Hickory			
Breynia oblongifolia	Common Breynia			
Bursaria spinosa	Blackthorn			
Callistemon salignus	Willow Bottlebrush			
Callistemon citrinus	Bottlebrush varies			
Clerodendrum tomentosum	Hairy Clerodendrum			
Daviesia ulicifolia				
Dodonaea viscosa	Wedge-leaf Hop Bush			
Goodenia hederacea				
Doryanthes excelsa	Gymea Lily			
Grevillea juniperina				
Hakea sericea				
Hibiscus heterophyllus	Native Rosella			

PLANTING STRATEGY

INTEGRATION:

STREET TREE PLANTING, SETBACK PLANTING AND BUFFER PLANTING SHALL BE INTEGRATED WITH SOFT ENGINEERING SWALES AND SHALL LINK WITH THE RE-VEGETATED CREEK CORRIDOR

CONNECTIVITY:

THE STREETSCAPE USES PEDESTRIAN AND BIKE PATHS TO CONNECT ALL BUILDINGS WITHIN THE DEVELOPMENT WITH PUBLIC SPACE AND THE CREEK CORRIDOR WHILE LINKING IN WITH THE REGIONAL BIKE NETWORK.

MULTIFUNCTIONALITY:

THE PLANTING STRATEGY ALLOWS FOR THE VARIOUS MICRO-CLIMATE ECOSYSTEMS CREATED BY BUILT FORM AND ROADS. ALL PLANTING LINKS BACK TO THE LOCAL ENDEMIC PLANTING AND CREEK CORRIDOR ENVIRONMENT.





BANKSIA SERRATA



CALLISTEMON SP



evel 57 MIC Centre 19-29 Martin Place Sydney, NSW 2000

SPECIFICATION NOTES

SERVICES

Before landscape work is commenced the Landscape Contractor is to establish the position of all service lines and ensure tree planting is carried out at least 3 metres away from these services. Service lids, vents and hydrants shall be left exposed and not covered by any landscape finishes (turfing, paving, garden beds etc.) Finish adjoining surfaces flush with pit lids.

PLANTING MIXTURE - (300mm DEPTH) Imported Garden Mix. Type: Premium Available: Australian Native Landscapes (ANL)

TURF SOIL MIX (150mm DEPTH) Type: Turf underlay Available: Australian Native Landscapes (ANL)

MUI CH

APPLICATION: Place mulch to the required depth, (refer to drawings) clear of plant stems, and rake to an even surface finishing 25mm below adjoining levels. Ensure mulch is watered in and tamped down during installation.

MULCH TYPE: (75mm DEPTH)

Type 1:

Pine bark: From mature trees, graded in size from 15mm to 30mm, free from wood slivers. Dark brown in colour and texture.

COMPOST

Shall be "GO Compost" as available from Soilco or approved equal

PLANT MATERIAL

All plants supplied are to conform with those species listed in the Plant Schedule on the drawings. Generally plants shall be vigorous, well established, hardened off, of good form consistent with species or variety, not soft or forced, free from disease or insect pests with large healthy root systems and no evidence of having been restricted or damaged. Trees shall have a leading shoot. Immediately reject dried out, damaged or unhealthy plant material before planting. All stock is to be container grown for a minimum of six (6) months prior to delivery to site.

FERTILISER

MASS PLANTING AREAS: Fertiliser shall be 'Nutricote' or approved equivalent in granule form intended for slow release of plant nutrients over a period of approximately nine months. Thoroughly mix fertiliser with planting mixture at the recommended rate, prior to installing plants.

TURF: Shall be Shirleys No. 17 or approved equal thoroughly mixed into the topsoil prior to placing turf. TREES IN GRASS AND SUPER ADVANCED TREES: Pellets shall be in the form intended to uniformly release plant food elements for a period of approximately nine months equal to Shirlevs Kokei pellets. analysis 6.3:1.8:2.9. Kokei pellets shall be placed at the time of planting to the base of the plant, 50mm minimum from the root ball at a rate of two pellets per 300mm of top growth to a maximum of 8 pellets per tree.

STAKING AND TYING

Stakes shall be straight hardwood, free from knots and twists, pointed at one end and sized according to size

of plants to be staked.

a. 100-greater than 200litre 3x(1800x50x50mm)

Ties shall be 50mm wide hessian webbing or approved equivalent nailed or stapled to stake. Drive stakes a minimum one third of their length, avoiding damage to the root system, on the windward side of the plant.

TURF

PROJECT

MODIFICATION

THE YARDS KEMPS CREEK

THE YARDS, KEMPS CREEK NSW

Obtain turf from a specialist grower of cultivated turf. turf shall be of even thickness, free from weeds and other foreign matter; lay in stretcher pattern with joints staggered and close butted, perpendicular to gradient of FSL. Water immediately after laving.

DRAWING TITLE

TURF TYPE: Couch (Confirm with council prior to construction)

LANDSCAPE MAINTENANCE PROGRAM

Maintenance shall mean the care and maintenance of the landscape works by accepted horticultural practice as rectifying any defects that become apparent in the landscape works under normal use. This shall include, but shall not be limited to, watering, mowing, fertilising, re-seeding, returfing, weeding, pest and disease control, staking and tying, replanting, cultivation, pruning, aerating, renovating, top dressing, maintaining the site in a neat and tidy condition as follows:-

GENERAL

The landscape contractor shall maintain the landscape works for the term of the maintenance (or Plant establishment) period to the satisfaction of the council. The landscape contractor shall attend to the site on a weekly basis. Landlord to maintain all landscape areas in perpetuity (life of the development).

WATERING

Grass, trees and garden areas shall be watered regularly so as to ensure continuous healthy growth.

RUBBISH REMOVAL

During the term of the maintenance period the landscape contractor shall remove rubbish that may occur and reoccur throughout the maintenance period. This work shall be carried out regularly so that at weekly intervals the area may be observed in a completely clean and tidy condition.

REPLACEMENTS

The landscape contractor shall replace all plants that are missing, unhealthy or dead at the Landscape Contractor's cost. Replacements shall be of the same size, quality and species as the plant that has failed unless otherwise directed by the Landscape Architect. Replacements shall be made on a continuing basis after the plant has died or is seen to be missing.

STAKES AND TIES

The landscape contractor shall replace or adjust plant stakes, and tree guards as necessary or as directed by the Landscape Architect. Remove stakes and ties at the end of the maintenance period if so directed.

PRUNING

General: Prune to reflect the natural growth flowering and regrowth habit of the individual species. Shrubs: Prune after flowering - Spring and Summer and on a spot basis as required.

Hedge trimming: Schedule trimming at times which will maintain the character and design of hedges. Allow up to three times per season.

Tip pruning: To encourage development of new shoots during the active growing season. Do not remove buds before the flowering season in those plants that have terminal flowers.

Radical pruning: To maintain a hedge or formal shape or when a particular problem, growth habit, damage, or disease requires branch removal.

Trees: Prune to eliminate diseased or damaged growth, avoid inter-branch contact and thin out crowns in a natural manner, maintain sight lines to signs and lights, or maintain visibility for personal security. Tree branch removal to AS 4373. Give notice and engage a suitably qualified 'arborist'.

MULCHED SURFACES

All mulched surfaces shall be maintained in a clean and tidy condition and be reinstated if necessary to ensure that a depth of 75mm is maintained. Ensure mulch is kept clear of plant stems at all times. Remove all mulching materials off lawn or paved areas and maintain a clean and tidy appearance when viewed on a weekly basis.

PEST AND DISEASE CONTROL

The landscape contractor shall spray against insect and fungus infestation with all spraying to be carried out in accordance with the manufacturer's directions. Report all instances of pests and diseases (immediately that they are detected) to the Landscape Architect.

GRASS AND TURF AREAS

The landscape contractor shall maintain all grass and turf areas by watering, weeding, re-seeding, rolling, mowing, trimming or other operations as necessary. Seed and turf species shall be the same as the original specified mixture. Grass and turf areas shall be sprayed with approved selective herbicide against broad leafed weeds as required by the Landscape Architect and in accordance with the manufacturer's directions. Grass and turf areas shall be fertilised once a year in autumn with "Dynamic Lifter" for lawns at a rate of 20kg per 100m2. Fertiliser shall be watered in immediately after application. Irregularities in the grass and turf shall be watered in immediately after application.

Grass and turf areas shall be kept mown to maintain a healthy and vigorous sward. Mowing height: 30-50mm.

WEED ERADICATION

Eradicate weeds by environmentally acceptable methods using a non-residual glyphosate herbicide (eg. 'Roundup') in any of its registered formulae, at the recommended maximum rate. Regularly remove by

hand, weed growth that may occur or recur throughout grassed, planted and mulched areas. Remove weed growth from an area 750mm diameter around the base of trees in grassed areas. Continue eradication throughout the course of the works and during the maintenance period.

SOIL SUBSIDENCE

MAITENANCE PERIOD: (26 Weeks) - Confirm with Project Manager

IRRIGATION PERFORMANCE SPECIFICATION NOTES IRRIGATION OVERVIEW - Confirm with Project Manager at tender stage

EXTENT (Setback, Carpark, Garden and Turf Areas) All mass planting landscape areas and trees are to have full coverage by a fully automatic irrigation system. The design, materials and installation are to be in accordance with Sydney Water Codes and all relevant Australian Standards.

and Sydney water guidelines.

DRIPLINE

with 400mm centre drippers. Dripline pattern to suit planting.

CONTROL VALVES

24v solenoid actuated hydraulic valve with flow control. Control valves to be Toro ezflow series solenoids 25mm or approved equal. Provide a gate valve of the same size immediately upstream of each valve. House both valves in a high impact plastic valve box with a high impact plastic cover at finished ground level. Support the box with bricks on each side. Controller to be Toro greenkeeper or approved equal with a rain switch. Install a master valve/pressure regulating valve equal to Toro p220 with exreg pressure regulation valve. Filter to be installed equal to Toro y filter 75mm screen filter.

CONTROL WIRES

Connect the control valves and soil moisture sensor to the controller with double insulated underground cables laid alongside piping where possible. Lay intertwined for their full length without joints except at the valves and branches off common wires. Provide waterproof connectors.

Provide a backflow prevention device to Sydney water standards AS 3500.

RELEVANT AUSTRALIAN STANDARDS

Soil: AS4419, AS3743, AS4454. Mulch: AS4454. Tree Stock: AS2303. Pruning: AS4373. Tree Protection: AS4970. Contractors to comply with the above Australian Standards.



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Any soil subsidence or erosion which may occur after the soil filling and preparation operations shall be made good by the landscape contractor at no cost to the client.

1. An automatic irrigation system is to be installed to all turf and garden bed areas. 2. The irrigation system shall be designed and installed by a licensed contractor to relevant Australian standards

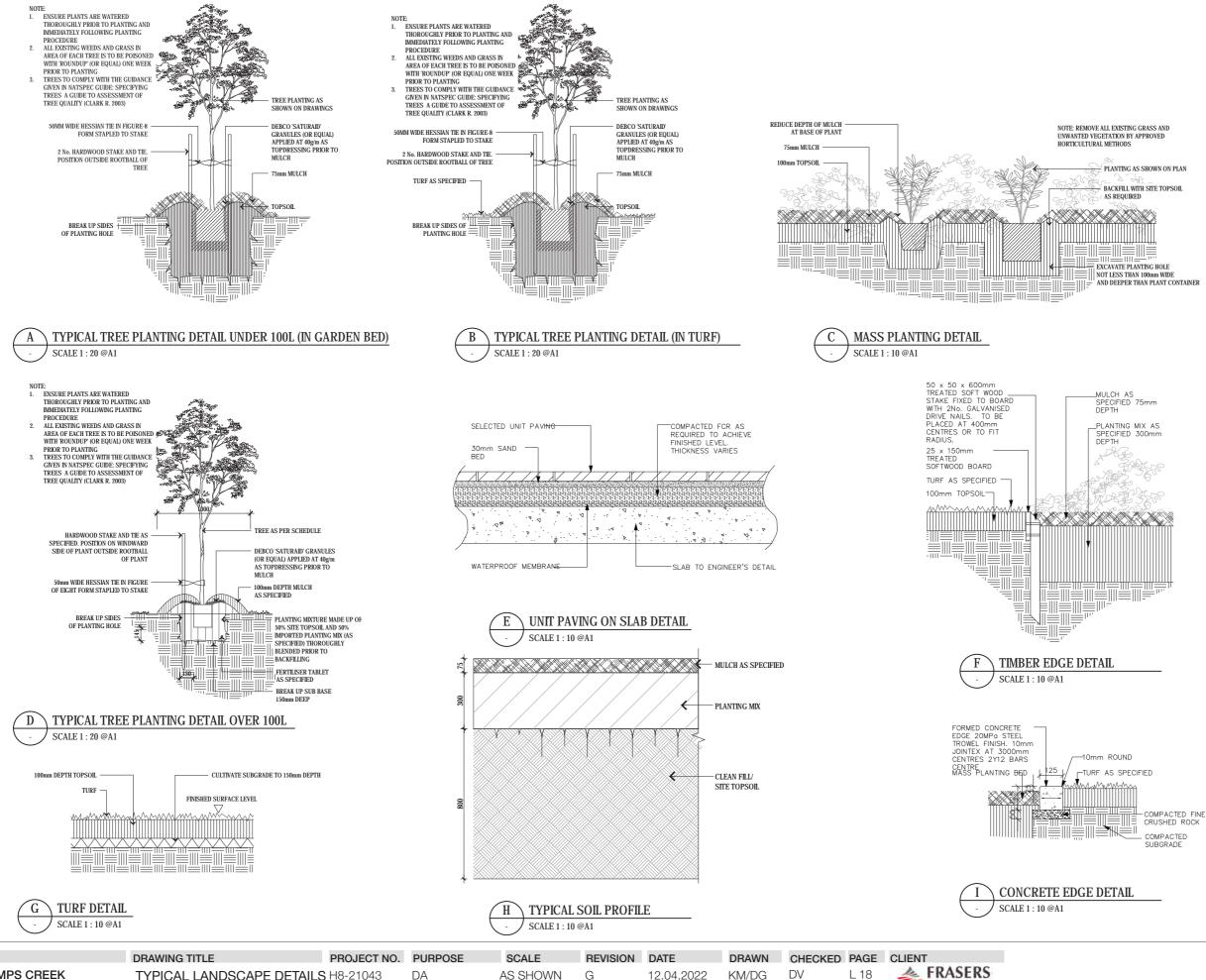
3. The irrigation system shall be connected into the rainwater tank system and pump

Provide 13mm dripline to all garden bed areas with appropriate 13mm joiners. Dripline to be Toro drip or similar

Install line at 500mm spacings with the first line to be 150mm in from edge. Install dripline after planting and prior to mulching to allow for an adequate mulch cover. Anchor at 1.5m maximum intervals with u-shaped stakes.



TYPICAL LANDSCAPE DETAILS



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THE YARDS KEMPS CREEK MODIFICATION THE YARDS, KEMPS CREEK NSW

PROJECT

TYPICAL LANDSCAPE DETAILS H8-21043 DA

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32/24 Scott St, Byron Bay, NSW 2481

PLANTING AS SHOWN ON PLAN BACKFILL WITH SITE TOPSOIL EXCAVATE PLANTING HOLE
III NOT LESS THAN 100mm WIDE
III AND DEEPER THAN PLANT CONTAINER