

Attachment A9

Landscape Plan

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118-130 EPSOM ROAD ZETLAND

LANDSCAPE MASTERPLAN REPORT

PREPARED FOR
MERITON
IN COLLABORATION WITH **MAKO ARCHITECTURE**

24 JUNE 2022

ACKNOWLEDGEMENT TO COUNTRY

Urbis acknowledges the traditional country of the Gadigal people of the Eora Nation. We recognise and respect their cultural heritage, beliefs and continuing relationship with the land, and that they are the proud survivors of more than two hundred years of dispossession.

We reiterate our commitment to addressing disadvantages and attaining justice for Aboriginal and Torres Strait Islander peoples of this community.

ISSUE AUTHORISATION

Document Title: 118-130 Epsom Rd, ZETLAND
Landscape Development Application

Document No.: Urbis LA_001

Project No.: P0038688

Prepared for: Meriton

Date: 24 JUNE 2022

Prepared: Latham Brook/Jojo Navarro

Reviewed: Mark Kuhne

Rev	Date	Purpose	Prepared	Reviewed
01	24.06.22	Final Concept Landscape Masterplan	LB/JN	MK

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URBIS.COM.AU

Title: Connecting Land
Artists: Tarris King and Sarita King
Clan: Gurindji

Connecting Land is an expression of the beauty of the Australia Landscape. People's connection to the country and the lessons that caring for the land can teach us. Respect for the lands of Australia and creating a positive impact for people is at the centre of shaping great Australian cities and communities

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1.0 INTRODUCTION

THE PROPOSAL

This Landscape design report has been prepared by Urbis for the proposed mixed use development at 118-130 Epsom Road, Zetland. The landscape design presented in this incorporates streetscape design and public open spaces including the proposed Mulgu Park within the Epsom Park Precinct.

The landscape proposal has been prepared in compliance with the City of Sydney Council's DCP and Public Domain Guidelines and DA application checklist.

SITE CONTEXT

The site is comprised of two lots and is located within the broader Green Square Renewal Area. It is bound by Epsom Road and Link Road to the south and east and has limited access to the north and west.

The site has good access to public transport, including rail and light rail as well as bus stops on Epsom Road and Joynton Avenue. A new Metro Station at Waterloo is located approximately 1.6km from the site.

DEVELOPMENT PROPOSAL

This Concept Landscape Masterplan proposes to provide high quality streetscapes incorporating Water Sensitive Urban Design including bioswales on key streets to assist in managing stormwater. Public open spaces including Mulgu Park will also be provided for active and passive recreation. All new streets and shared zones will provide trees for shade and amenity to create an attractive public domain with pedestrian and bike connections.

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LEGEND:

- Site Boundary
- Points of Interest
- Open Space
- Existing pedestrian crossings
- B Existing Bus Stop
- T Train Station

1.1 EXISTING SITE CONDITIONS



1. View from Epsom Road



2. View from Link Road



3. View from Epsom Road looking West



4. View from Epsom Road towards Fuse St.

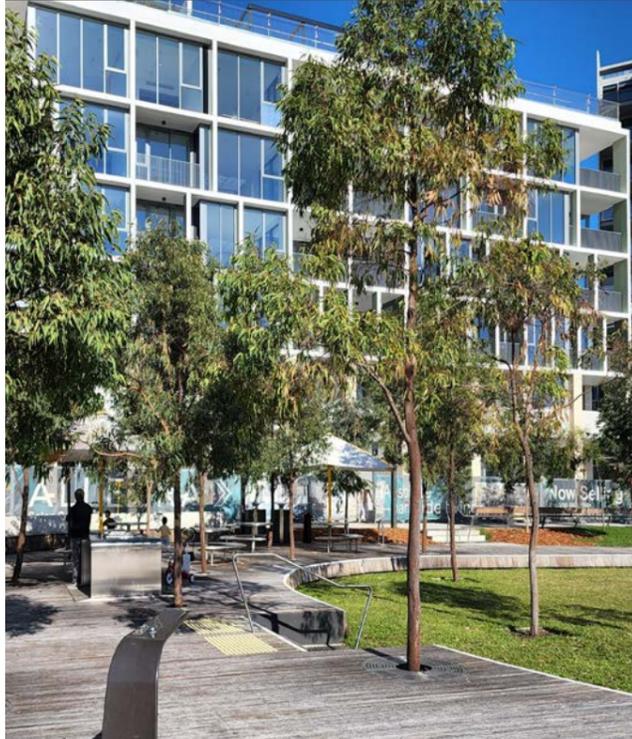


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2.0 PUBLIC DOMAIN DESIGN PRINCIPLES

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INTEGRATION



- Integrate green infrastructure to create an urban community that delivers quality of life
- Create balanced green recreational and functional open spaces that strengthen wider environmental, social and economic benefits
- Integrate green spaces into the built form
- Maintain existing trees where possible, particularly on the periphery, provide for adequate compensatory planting in new public spaces as part of an open and accessible precinct

CONNECTIVITY



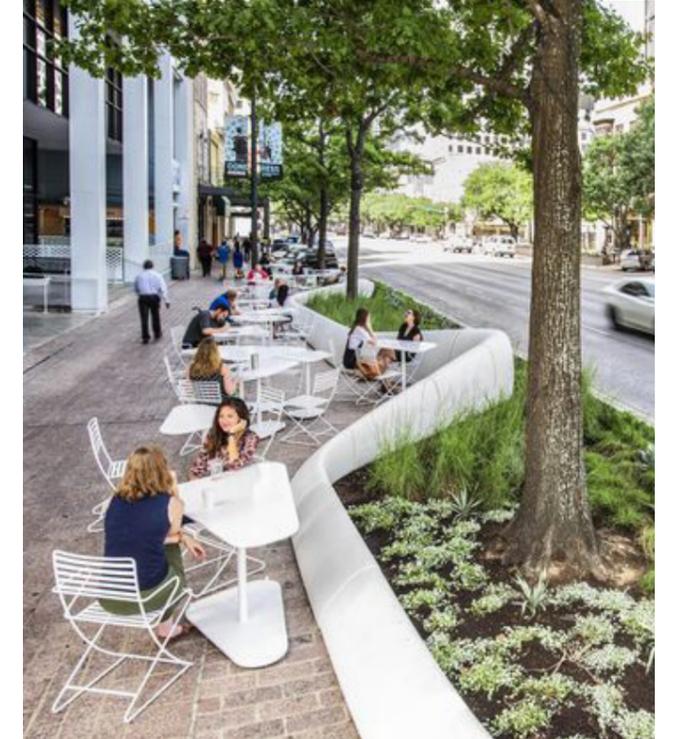
- Create a series of shared spaces that promote meaningful connections with the community
- Strengthen green streets and community access to local and regional green open spaces

MULTIFUNCTIONALITY



- Connect and enhances the development through high quality and high performing green spaces
- Deliver an open space that contributes to the value and understanding of place
- Design spaces that foster integration, community identity, sense of connectedness and community capacity

PARTICIPATION



- Engage the stakeholders to create community value
- Embrace diversity of activities to encourage community engagement
- Create places that cater to all ages and abilities

Note: Public Domain Principles referenced from 'Greener Places' document prepared by Government Architects New South Wales

2.1 DESIGN RESPONSE

METHODOLOGY

Streetscape

- Water Sensitive Urban Design (WSUD) principles, integrating stormwater into landscape verges and central medians.
- Attractive and comfortable streetscapes for pedestrians & cyclists to activate streets.
- High quality paving, furniture & planting in accordance with City of Sydney Council DCP.
- Direct and convenient connections to existing external pedestrian networks.
- All new streets and shared zones will provide trees for shade and amenity

Civic Park

- Activated public open space responding to primary retail frontage
- Opportunities for temporary cafe carts or outdoor dining.
- Planting beds with integrated seating benches as an informal dining/retail space extension space.
- Mix of medium and large evergreen and deciduous canopy trees, providing shade and build form relief.

Neighbourhood Park

- Alfresco dining opportunities framed by a grove of trees.
- BBQ Pavilions with picnic tables and chairs.
- Graden beds incorporating WSUD principles
- Large central lawn space providing opportunities for larger events.
- Mix of formal and Informal quality furniture & fixtures.
- Fruit tree garden to promote fruit tree planting in public space

Link Parks

- Flexible linear 'kick-about' lawn with seating areas strengthened by a row of tree canopies and buffer planting to screen adjacent built form.
- Feature tree bosques and seating areas for smaller community gatherings.
- Paths connecting internal and external pedestrian networks.
- Fitness Station and parkour equipment providing active recreation.

SAFETY AND SECURITY

An integrated approach to safety will improve actual and perceived personal security in pedestrian public domain areas;

- All paths are overlooked from adjoining buildings and adjacent streets which will provide a high level of passive surveillance;
- All external spaces will have multiple clear sight lines without obstacles, proposed shrub planting is low level which will prevent places to hide;
- All paths will be well lit at night time and designed to meet relevant Australian Lighting Standards;
- Signage will be provided across the precinct to assist with wayfinding and navigation through the site.
- All planting + retaining / planter walls to be low at road intersections to ensure vehicular sight lines are not obstructed

DRAINAGE & WATERING STRATEGY

Generally:

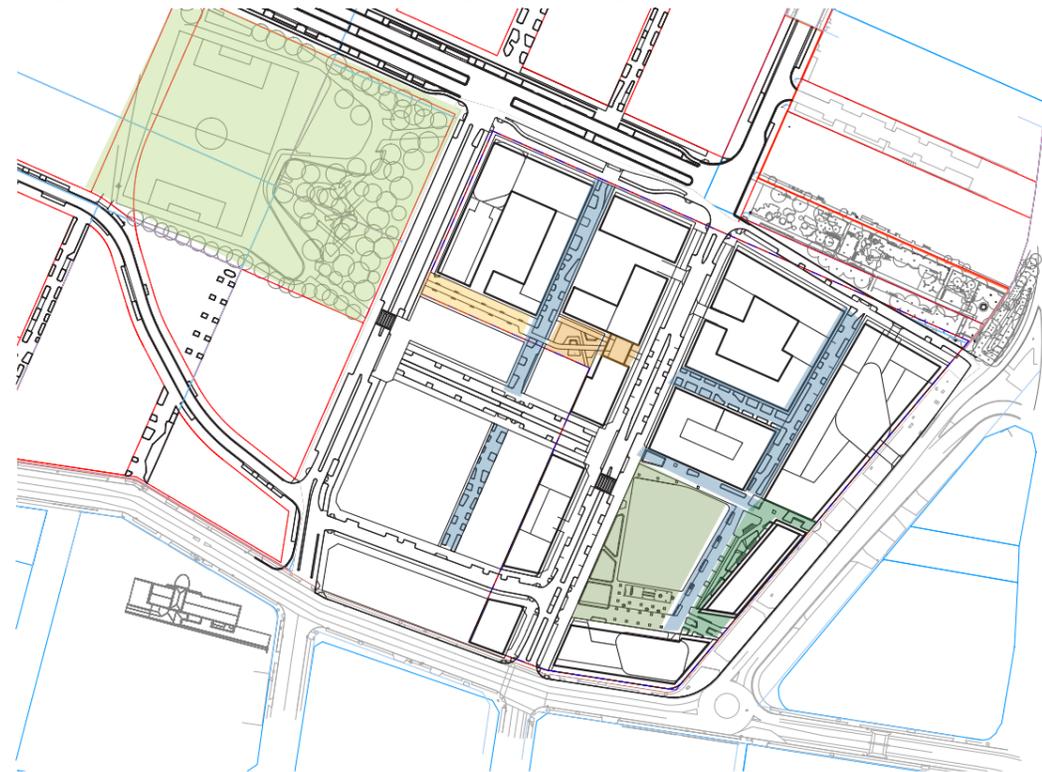
- Water Sensitive Urban Design (WSUD) principles have been realised into the landscape design in a way that celebrates a sustainable water cycle.
- All irrigation systems will comprise of subsurface drip systems and automatic timers with rainwater / soil moisture sensor controls;
- Where possible storm water runoff will be directed to the lawn and garden beds; via basement rainwater storage tanks
- Irrigation will be provided to all soft landscape areas and will be specified within the tender package;
- Low water demand shrub planting is proposed.

LIGHTING

- All external areas will be designed to meet relevant Australian Lighting Standards. Integrated landscape lighting is proposed to all the landscape elements.

2.2 DESIGN DRIVERS

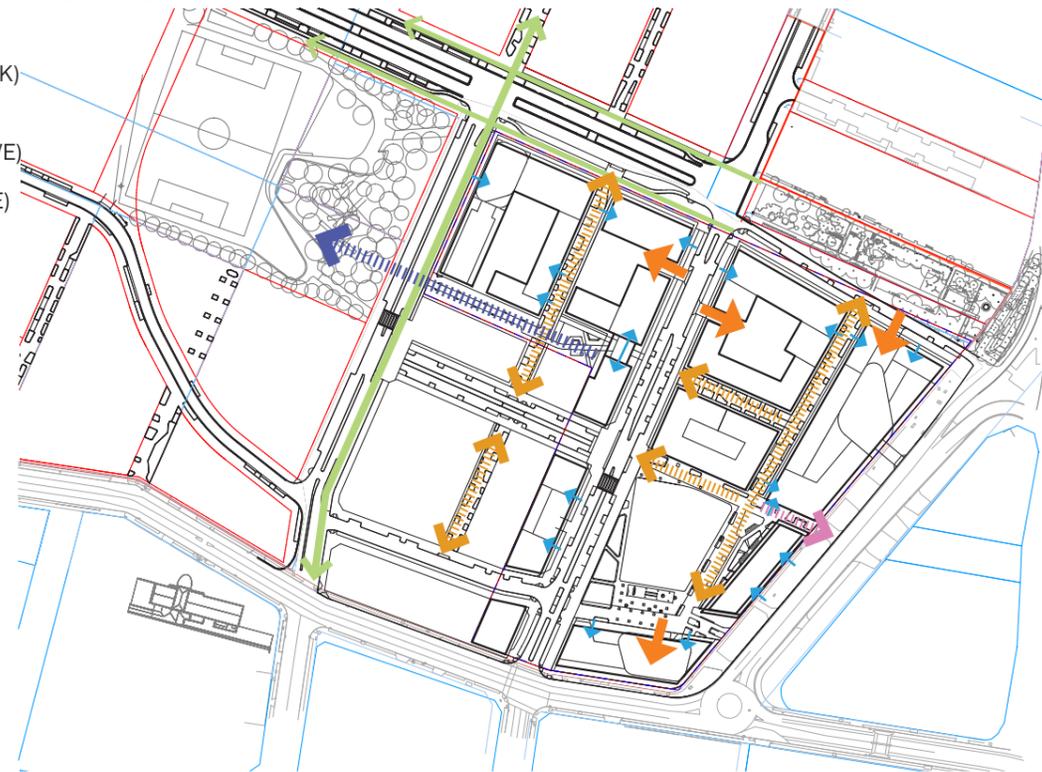
PUBLIC DOMAIN TYPOLOGIES



LEGEND:

- GUNYAMA PARK
- NEIGHBOURHOOD PARK (MULGU PARK)
- CIVIC PARK
- LINK PARK (PASSIVE)
- LINK PARK (ACTIVE)
- SHARED ZONE

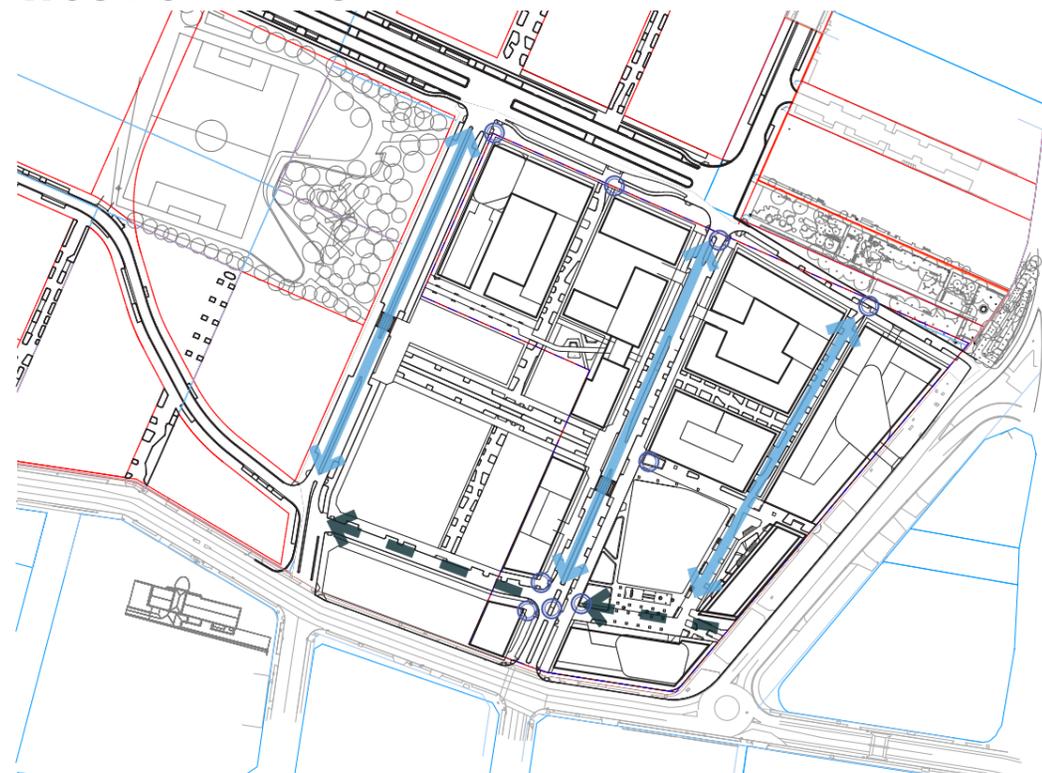
ACCESS AND CIRCULATION



LEGEND:

- PEDESTRIAN ACCESS
- VEHICULAR ACCESS
- SEPARATED BICYCLE LANES
- SHARED ZONE
- PEDESTRIAN LINK
- LINK TO GUNYAMA PARK

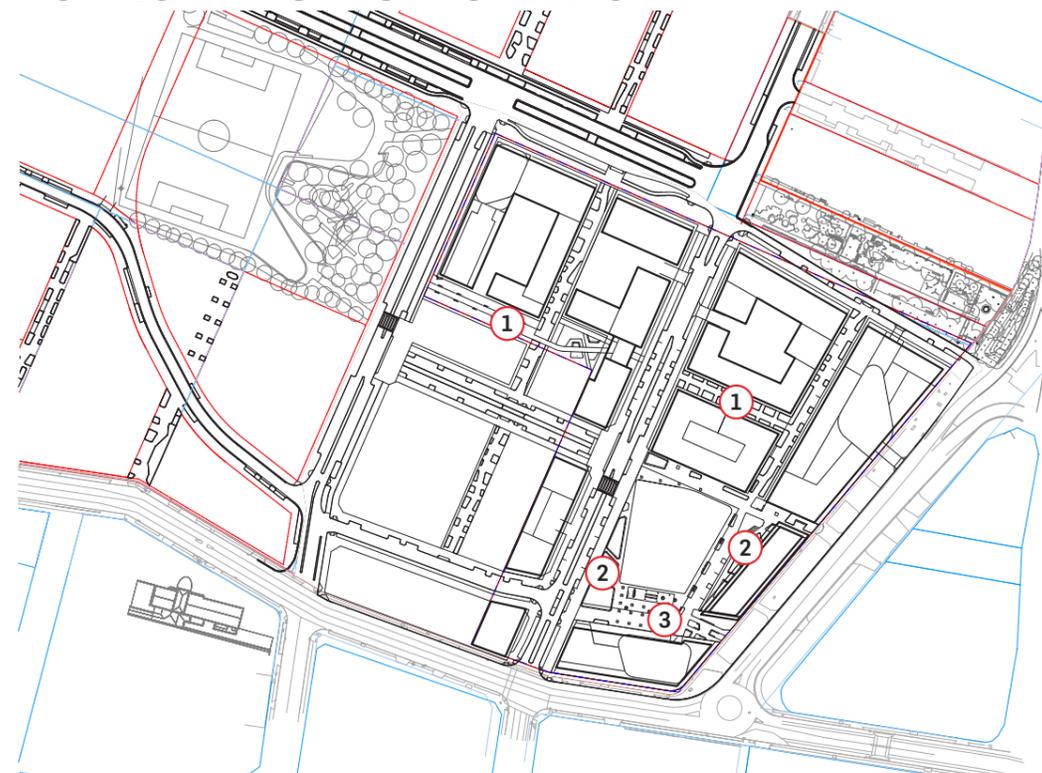
WSUD STRATEGY



LEGEND:

- CATCHMENT POINTS
- BIO-RETENTION GARDENS
- OVERLAND FLOW

PUBLIC ART OPPORTUNITIES



PUBLIC ART OPPORTUNITIES:

- 1 LINEAR EXPERIENCE
- 2 COMMUNITY & CULTURAL GARDENS
- 3 SHADE/SHELTER

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1:750 @ A1/1:1500 @ A3



2.3 LANDSCAPE CONCEPT MASTER PLAN



LEGEND:

- ① LINK PARK - ACTIVE SPACE
- ② LINK PARK - PASSIVE SPACE
- ③ SHARED ZONE
- ④ PEDESTRIAN THROUGH SITE LINK
- ⑤ BBQ / OUTDOOR DINING FACILITIES
- ⑥ NEIGHBOURHOOD PARK
- ⑦ CIVIC PARK
- ⑧ PRIMARY ROAD
- ⑨ SECONDARY ROAD
- ⑩ LOCAL ROAD

DESIGN OBJECTIVES

- The shared zone is to promote a low speed environment to encourage and prioritise pedestrian and cycling over vehicular use
- Integrating Water Sensitive Urban Design strategy to improve the quality of stormwater leaving the site through treatment methods which mimic natural systems
- Parks and public open spaces are to be multi functional, inclusive and accessible that cater to a variety of age groups and abilities
- Use of indigenous / native vegetation and exotic vegetation to create the desired character, ambiance, micro-climate, enclosure and aesthetics of the varying streetscapes and open spaces
- Materials and furniture selections in accordance with the City of Sydney's Public Domain Design Codes to ensure integration with the surrounding urban context, streets, parks and neighbouring properties



1:750 @ A1/1:1500 @ A3



2.4 PRECEDENT IMAGERY

PUBLIC DOMAIN STREETSCAPE



Street with separated cycle lanes and vegetated swale median

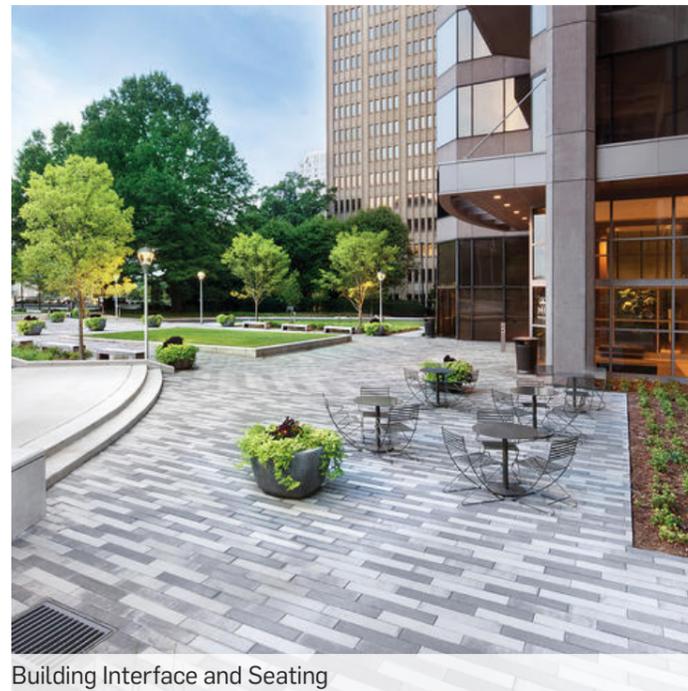
Planting verge setback

Street with vegetated swale median

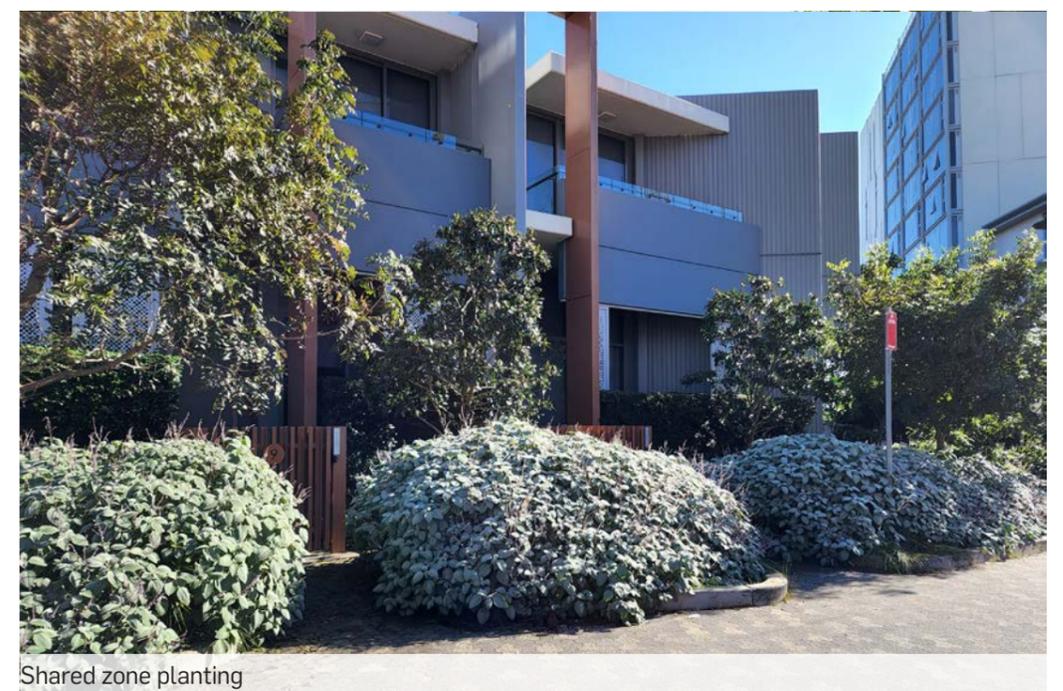
314



Native Street Planning



Building Interface and Seating



Shared zone planting

2.5 DETAIL PLAN - LINK PARK



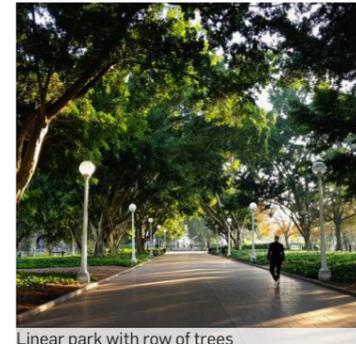
- LEGEND:**
- ① ACTIVE RECREATION SPACE
 - ② PASSIVE LINEAR PARK WITH SEATING FRAMED BY DECIDUOUS TREES
 - ③ SHARED ZONE
 - ④ DEDICATED CYCLE LANES
 - ⑤ FLEXIBLE KICK-ABOUT LAWN



Active recreation and seating area



Turf area under trees for respite



Linear park with row of trees



Outdoor fitness station



Parkour activities



Planting with integrated seating

315

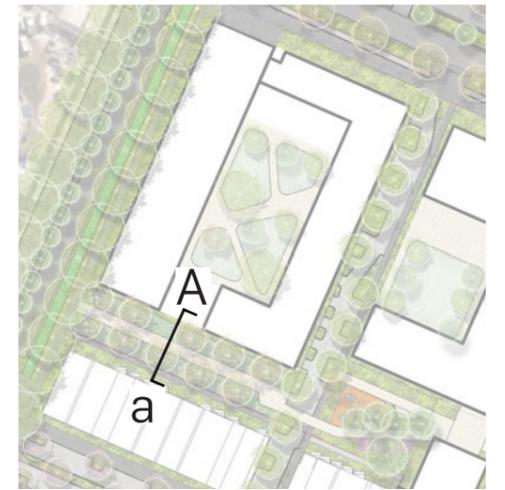


1:500 @ A3



2.6 SECTION - LINK PARK

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SECTION Aa

2.7 DETAIL PLAN - MULGU PARK AND CIVIC PARK



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LEGEND:

- ① RETAIL / ALFRESCO DINING ACTIVATION
- ② NATIVE GARDEN
- ③ BIO-FILTRATION GARDEN
- ④ CENTRAL LAWN / INFORMAL PLAY
- ⑤ BBQ AND DINING AREA
- ⑥ SHARED ZONE
- ⑦ FRUIT TREE GARDEN



Building Interface and Seating



Outdoor seating and dining activating retail frontage



Informal active recreation



Seating area for gathering and eating



BBQ facilities and pavilion with communal table



Public Art opportunities



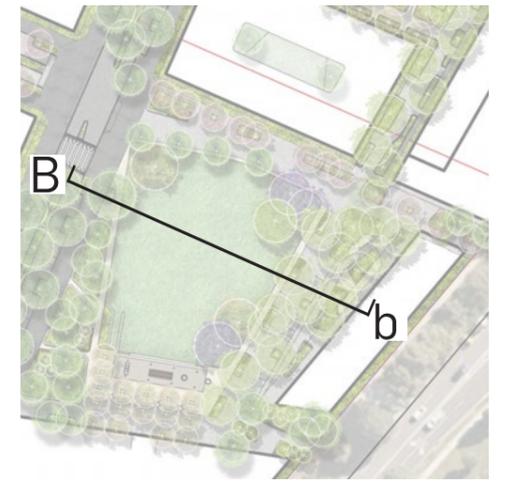
Outdoor events



1:500 @ A3



2.8 SECTION - MULGA PARK AND CIVIC PARK



SECTION CONTINUED BELOW

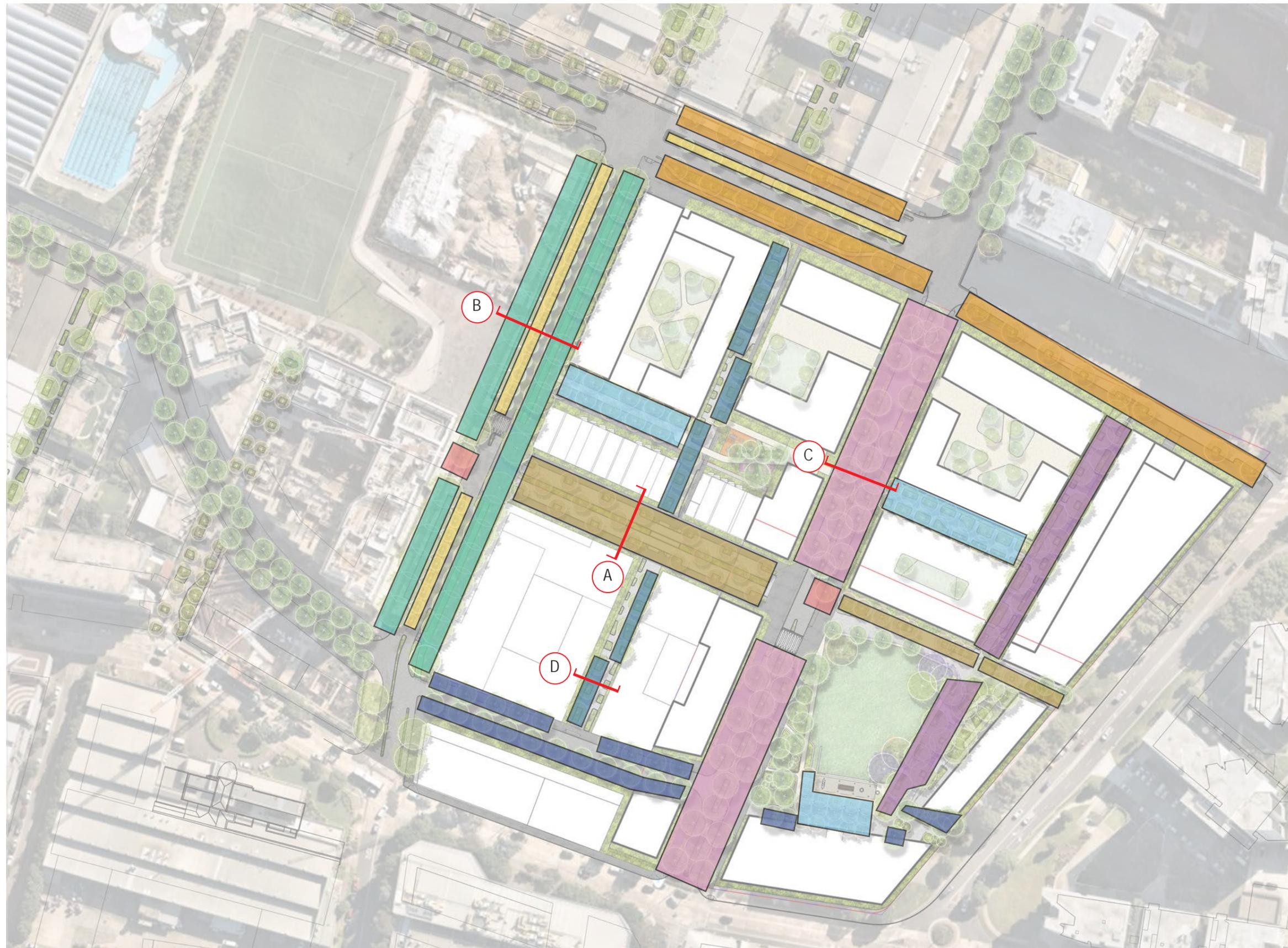
318

SECTION Bb

SECTION CONTINUED ABOVE

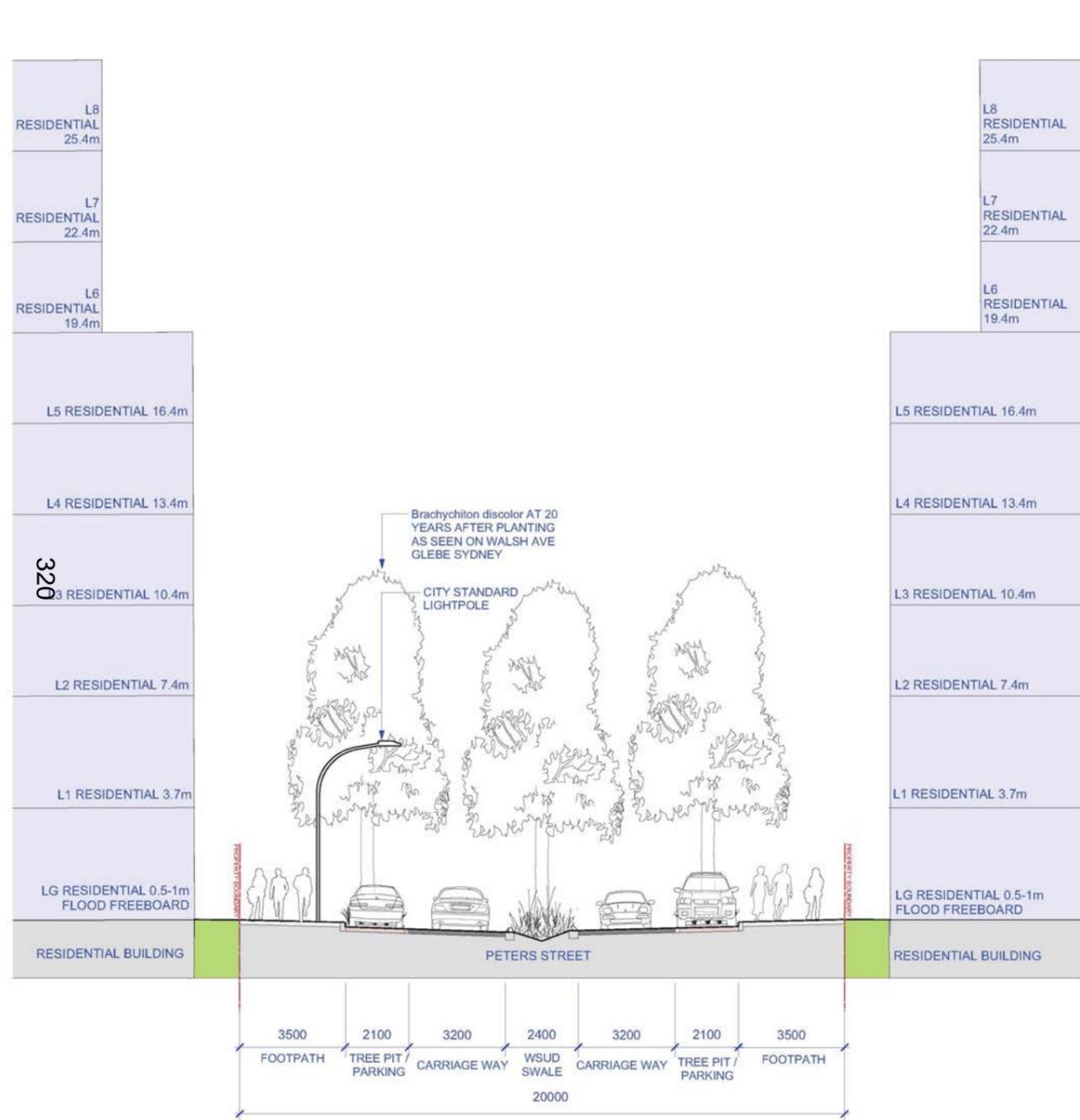


3.0 STREET TREE MASTERPLAN



- LEGEND:**
- Livistonia australis*, Cabbage Palm
 - Brachychiton discolor*, Lacebark Tree
 - Brachychiton populneus*, Kurrajong
 - Eucalyptus mircocorys*, Tallowwood
 - Koelreuteria paniculata*, Golden Raintree
 - Liriodendron tulipifera*, Tulip Tree
 - Pyrus calleryana*, Callery Pear
 - Robinia pseudoacacia* 'Frisia', Golden Robinia
 - Waterhousia floribunda* 'Green Avenue', Weeping Lillypilly
 - Zelkova serrata* 'Green Vase', Zelkova

3.1 TYPICAL STREETSCAPE SECTIONS

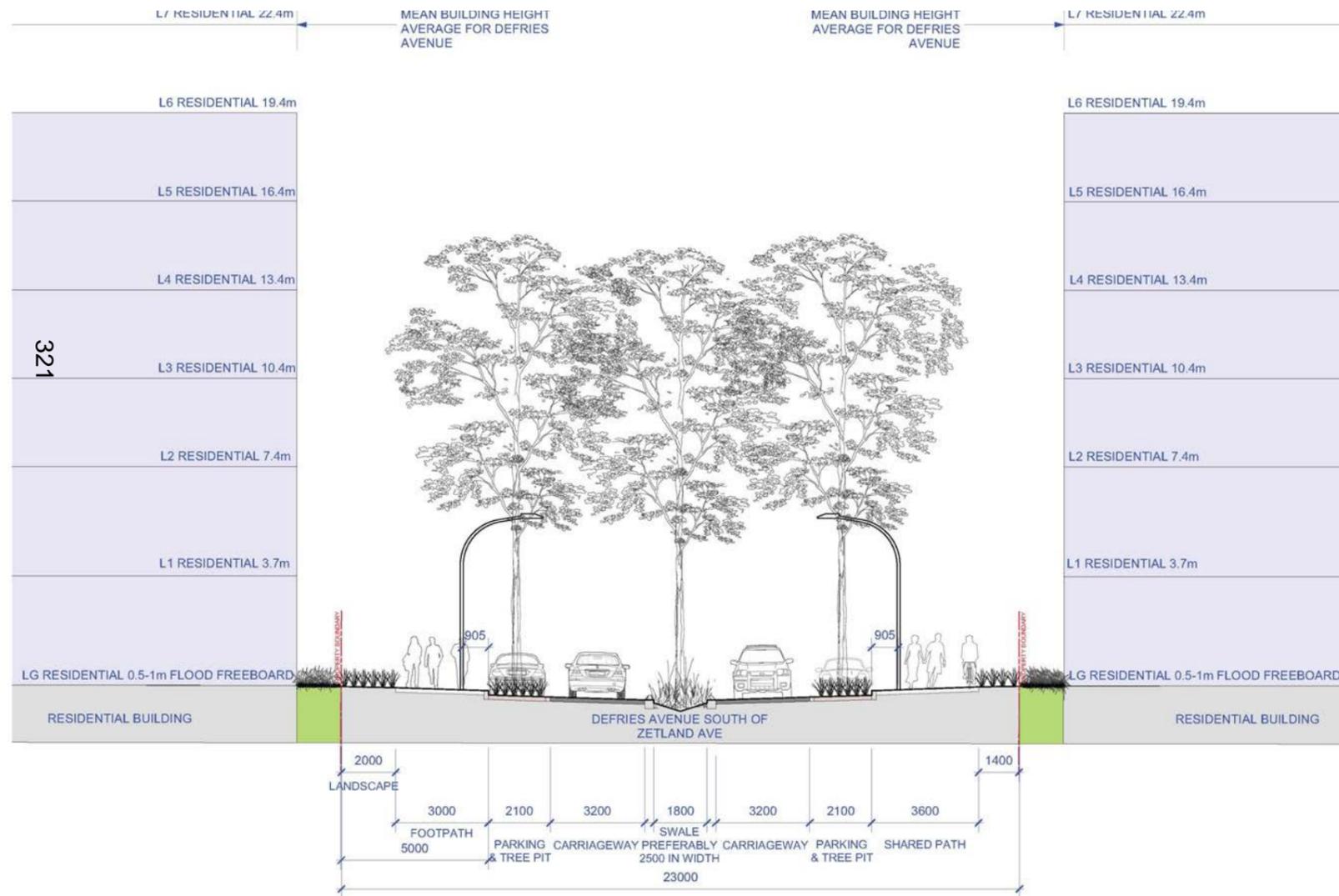


A STREET SECTION - PETERS STREET
SCALE: 1:200

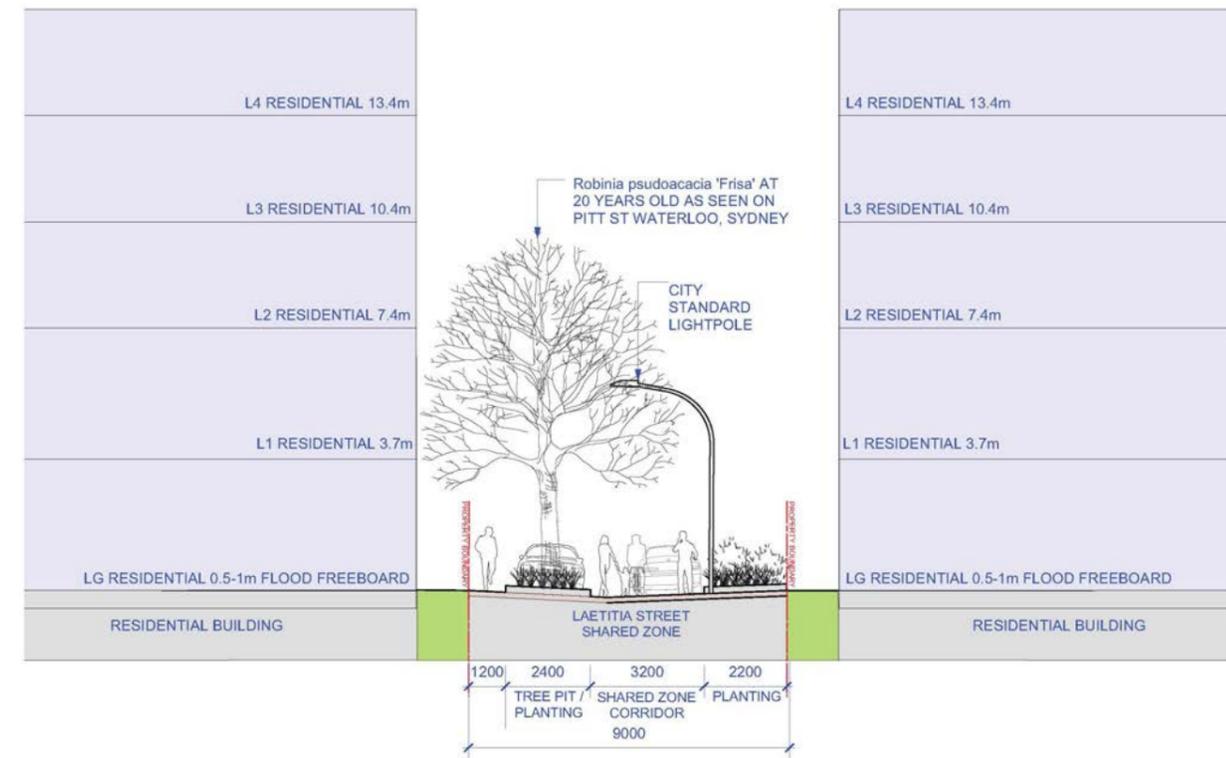


B STREET SECTION - GEORGE JULIUS AVE SOUTH OF ZETLAND AVE
SCALE: 1:200

* TYPICAL STREETSCAPE SECTIONS SHOWN ARE SOURCED FROM EPSOM PARK PRECINCT PUBLIC DOMAIN CONCEPT DESIGN PREPARED BY THE CITY OF SYDNEY (12.02.2016)



C STREET SECTION - DEFRIES AVE SOUTH OF ZETLAND AVE
SCALE: 1:200



D TYPICAL STREET SECTION - LAETITIA STREET BTWN ROSE VALLEY WAY & PETERS ST
SCALE: 1:200

4.0 MATERIALS, FURNITURE & FIXTURES

PAVING & FINISHES



CONCRETE UNIT PAVING



STANDARD 'GREEN' INSITU CONCRETE



SHARED ZONE PAVING



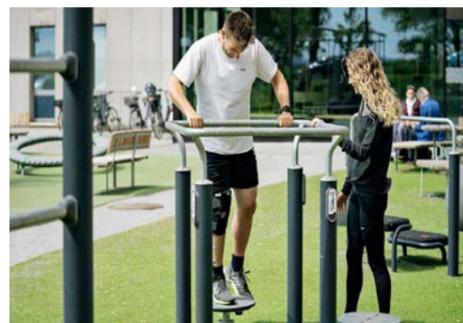
FEATURE PAVING

WALLS



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FITNESS & PARKOUR EQUIPMENT



FURNITURE & FIXTURES



TZANNES 'VILLAGE SUITE' BENCH



TZANNES 'VILLAGE SUITE' BUBBLER



TZANNES 'VILLAGE SUITE' BIN



TZANNES 'VILLAGE SUITE' BOLLARD



STANDARD PARKS BIKE RAIL



CITY OF SYDNEY SMART POLE



CITY STANDARD LIGHTPOLE



TZANNES 'VILLAGE SUITE' LIGHTPOLE

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5.0 INDICATIVE PLANTING SCHEDULE

PLANT CODE	BOTANICAL NAME	COMMON NAME	MATURITY HEIGHT AND SPREAD (m)	SUPPLY HEIGHT AND SPREAD (m)	CONTAINER SIZE
TREES					
BRA dis	Brachychiton discolor	Lacebark Tree	15 x 5	4 x 2	200L
BRA pop	Brachychiton populneus	Kurrajong Tree	10 x 5	4 x 2	200L
EUC mir	Eucalyptus mircocorys	Tallowood	25 x 10	4 x 2	200L
KOE pan	Koelreuteria paniculata	Golden Raintree	10 x 5	4 x 2	200L
LIV aus	Livistona australis	Cabbage Palm	20 x 3	4 x 2	200L
LIR tul	Liriodendron tulipifera	Tulip Tree	15 x 5	4 x 2	200L
PYR cal	Pyrus calleryana	Callery Pear	10 x 3	4 x 2	200L
ROB pse	Robinia pseudoacacia 'Frisia'	Golden Robinia	10 x 5	4 x 2	200L
WAT flo	Waterhousia floribunda 'Green Avenue'	Weeping Lillypilly	10 x 5	4 x 2	200L
ZAL ser	Zelkova serrata 'Green Vase'	Zelkova	10 x 10	4 x 2	200L
BLA cit	Backhousia citriodora	Lemon scented myrtle	5 x 5	4 x 2	200L
FIC car	Ficus carica	Fig 'Black Genoa'	10 x 10	4 x 2	200L
JAR mim	Jacaranda mimosifolia	Jacaranda	15 x 10	4 x 2	200L
MET gly	Metasequoia glyptostroboides	Dawn redwood	20 x 8	4 x 2	200L
MAC tet	Macadamia tetraphylla	Macadamia	20 x 6	4 x 2	200L
MIC aus	Microcitrus australasica	Finger Lime	7 x 5	4 x 2	200L
MOR nig	Morus nigra	Mulberry	8 x 15	4 x 2	200L
OLE eur	Olea europaea 'Manzanillo'	Olive	6 x 5	4 x 2	200L
PER pin	Persea americana 'Pinkerton'	Avocado (Type A)	10 x 12	4 x 2	200L
PER fue	Persea americana 'Fuerte'	Avocado Fuerte (Type B)	8 x 12	4 x 2	200L
PER wur	Persea americana 'Wurtz'	Dwarf Avocado Wurtz (Type C)	4 x 3	4 x 2	200L
POD ela	Podocarpus elatus	Callery Pear	8 x 4	4 x 2	200L
SYZ lue	Syzygium luehmannii	Small leaf lilly pilly	10 x 5	2 x 1	100L

SHRUBS & ACCENT PLANTS				
Arthropodium cirratum	Renga Lily	0.6 x 0.6	na	300mm
Blechnum cartilagineum	Gristle Fern	0.6 x 0.8	na	200mm
Bergenia cordifolia	Heart-leaved bergenia	0.5 x 0.5	na	150mm
Pteris tremula	Australian brake	0.6 x 0.6	na	150mm
Sedum 'autumn joy'	Autumn Joy	0.6 x 0.6	na	150mm
Echinacea purpurea	Purple coneflower	1.5 x 0.7	na	100mm
Zephyranthes candida	Fairy Lily	0.2 x 0.4	na	100mm
Blechnum nudum	Fishbone Water-fern	1 x 1	na	200mm
Euphorbia characias 'wulfenii'	Mediterranean Spurge	0.9 x 0.9	na	200mm
Allium giganteum	Giant onion	1.5 x 0.6	na	200mm

GROUNDCOVERS & GRASSES				
Viola hederacea	Native violet	0.1 x 0.5	na	140mm
Festuca glauca	Blue Fescue Grass	0.5 x 0.5	na	140mm
Dianella caerulea 'little jess'	Native Flax	0.3 x 0.3	na	140mm
Dianella revoluta 'little rev'	Native Flax	0.4 x 0.3	na	140mm
Dianella tasmanica 'emerald arch'	Native Flax	0.5 x 0.5	na	140mm
Ficinia nodosa	Nobby Club Rush	1 x 1.5	na	140mm
Pennisetum alopecuroides 'nafray'	Swamp Foxtail Grass	0.7 x 1	na	140mm
Anemone x hybrida	Windflower	0.9 x 0.9	na	140mm
Imperata cylindrica	Cogon grass	0.5 x 0.4	na	140mm
Lomandra longifolia 'tanika'	Mat Rush	0.5 x 0.6	na	140mm
Lomandra confertifolia 'wingarra'	Mat Rush	0.4 x 0.6	na	140mm
Tulbaghia violacea	Society Garlic	0.4 x 0.3	na	140mm

COMMUNITY GARDEN				
Petroselinum crispum 'Krausa'	Parsley	0.6 x 0.6	na	100mm
Ocimum basilicum	Common Basil	0.4 x 0.4	na	100mm
Coriandrum sativum	Coriander	0.4 x 0.4	na	100mm

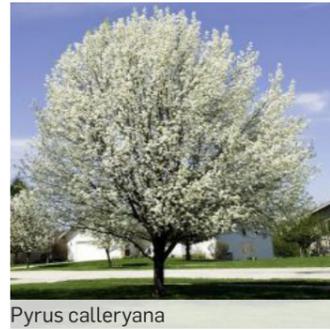
Note: 50% of planting area to be native/low water use plants

5.1 INDICATIVE PLANTING PALETTE

TREES



Brachychiton discolor



Pyrus calleryana



Liriodendron tulipifera



Livistona australis



Eucalyptus mircocorys



Robinia pseudoacacia 'Frisia'



Metasequoia glyptostroboides



Brachychiton populneus



Macadamia tetraphylla



Waterhousia floribunda



Zelkova serrata 'green vase'



Koelreuteria paniculata

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SHRUBS AND ACCENT PLANTING



Arthropodium cirratum



Blechnum cartilagineum



Blechnum nudum



Bergenia cordifolia



Sedum 'autumn joy'



Pteris tremula

GROUNDCOVERS AND GRASSES



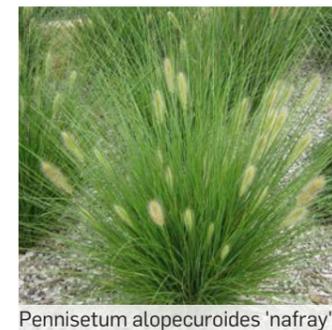
Dianella revoluta 'little rev'



Ficinia nodosa



Tulbaghia violacea



Pennisetum alopecuroides 'nafray'



Lomandra confertifolia 'wingara'



Lomandra longifolia 'Tanika'

5.2 PLANT ESTABLISHMENT + MAINTENANCE

Landscape Maintenance Strategy

General

- Planting maintenance period: the planting maintenance period will be 52 weeks and will commence from the date of practical completion. Of each phase of planting works (hereby specified to be a separable part of the works). It is anticipated that planting works will be undertaken in one phase
- *Planting maintenance program:* 2 weeks prior to practical completion, furnish a proposed planting establishment program, and amend it as required. Such proposal should contain details of the types and frequency of maintenance activities involved with the establishment of plants and grassed areas. Comply with the approved program.
- *Planting maintenance log book:* keep a log book recording when and what maintenance work has been done and what materials, including approved toxic materials, have been used. Log book must be signed off by the client's representative after each maintenance visit. Maintain log book in location nominated by superintendent. All entries are to be initialled by person nominated by superintendent. Log book to contain a copy of the approved planting establishment program.
- *Product warranty:* submit the supplier's written statement certifying that plants are true to the required species and type, and are free from diseases, pests and weeds.
- *Insurance:* the contractor is to ensure suitable insurance cover and / or bank guarantee is in place for the theft and / or damage of all works executed under this contract for the plant maintenance period.

Planting Maintenance

Protection of works: provide any fencing or barriers necessary to protect the planting from damage throughout the planting establishment period.

Recurrent works: throughout the planting maintenance period, continue to carry out recurrent works of a maintenance nature all to the extent required to ensure that the plants are in the best possible condition at the end of the planting maintenance period. These activities are including but not limited to:

- Weeding, Rubbish removal, Fertilizing, Pest and disease control, Adjust / replace stakes and ties, Topping up mulch, Cultivating, Pruning, Keeping the site neat and tidy

Replacements: the contractor is responsible for the replacement of failed, damaged or stolen trees, shrubs and groundcovers throughout the planting establishment period.

Weeding

Generally: regularly remove, by hand, rubbish and weed growth that may occur or recur throughout turfed, planted and mulched areas. Continue eradication throughout the course of the works and during the planting establishment periods.

Weed eradication: the contractor must make allowance for a higher level of maintenance during establishment to ensure that weeds are controlled.

Herbicide use: re-application of herbicide such as Ronstar or equivalent if required.

Compliance

- *Requirement:* plant maintenance shall be deemed complete subject to the following compliance with the criteria:
 - Repairs to planting media completed
 - Ground surfaces are covered with the specified treatment to the specified depths
 - Pests, disease, or nutrient deficiencies or toxicities are not evident.
 - Organic and rock mulched surfaces have been maintained in a weed free and tidy condition and to the specified depth
 - Vegetation is established and well formed

- Plants have healthy root systems that have penetrated into the surrounding, undisturbed ground and not able to be lifted out of its planting hole
- Vegetation is not restricting essential sight lines and signage
- Collection and removal of litter
- All non-conformance reports and defects notifications have been closed out.
- Plant maintenance compliance schedule: *as defined by the superintendent

Pruning

- *Generally:* tree plantings shall be left to grow in a form consistent with the growth habit of the species.
- *Pruning:* cut back tree canopies and groundcovers to road verges, and light poles and signs as required achieving clear sight lines when viewed along roadway.
- *Requirement:* pruning to be undertaken by a qualified tree surgeon / arborist

Fertilising

- *Generally:* the fertiliser regimes have been devised to provide sufficient long-term fertility for the vegetation type and it is anticipated that all except the very high status horticultural beds such as feature plantings (entry and courtyard planting) for colour and foliage will not need regular fertiliser regimes.
- *Testing:* additional nitrogen may be required due to drawdown effects from composts and mulches and localised waterlogging. To compensate for this, soil testing is to be carried out after 12 months to ascertain nutrient requirements.

Completion

- *Cleaning:* remove temporary protective fences and tree stakes at the end of the planting maintenance period.

