# SYDNEY OLYMPIC PARK - SITE 2

Landscape Development Application

October 2019

ARCADIA

Arcadia respectfully acknolowdges the traditional custodians of the land upon which Site 2 A+B stands today, the Wann-gal Clan. We honour elders past, present and emerging whose knowledge and wisdom will ensure the continuation of cultures and traditonal practices.

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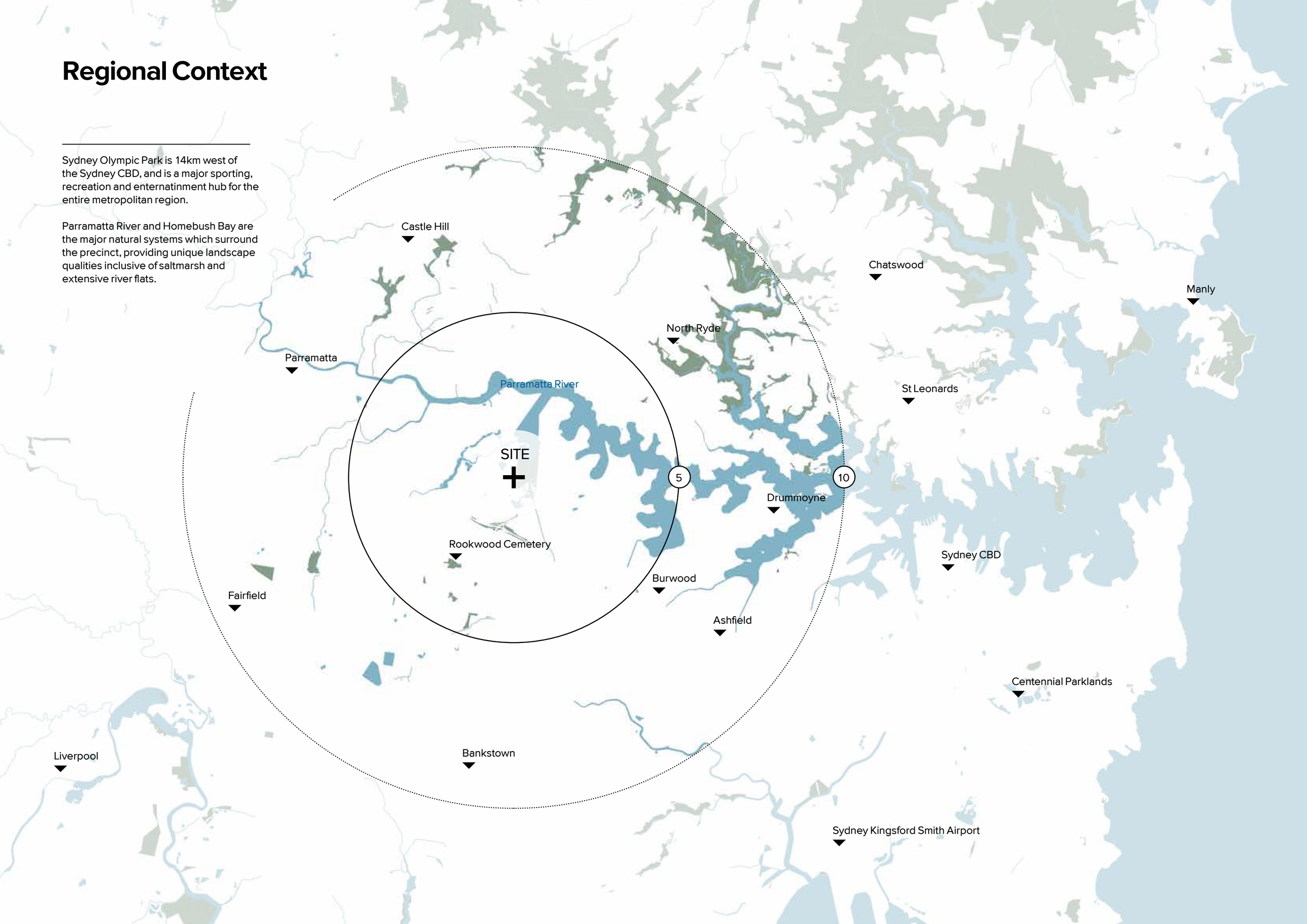
# Regional Context

Sydney Olympic Park is 14km west of the Sydney CBD, and is a major sporting, recreation and enternatinment hub for the entire metropolitan region.

Parramatta River and Homebush Bay are the major natural systems which surround the precinct, providing unique landscape qualities inclusive of saltmarsh and extensive river flats.



# Local Context

The precinct is located within the City of Parramatta LGA, which has a population of approximately 230,000 people.

The site is well serviced by an extensive infrastructure network of road and rail, with the M4 Western Motorway forming the primary transport network for the region. Parramatta River and the various inlets and bays are major recreation and amenity hotspots.

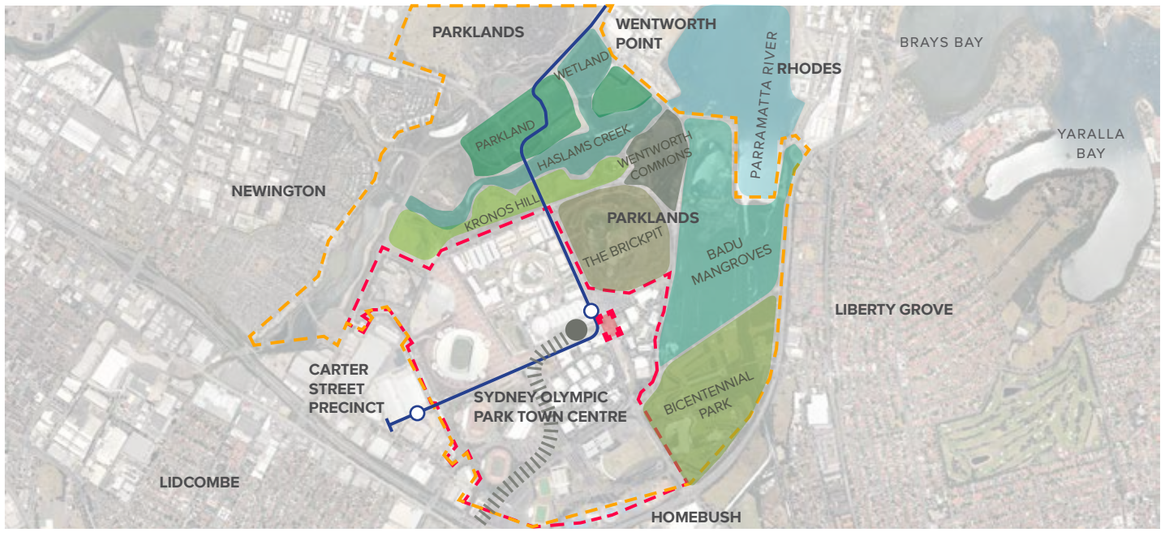
# Local Context

The Site is located within the Parklands Precinct of the Sydney Olympic Park. The site is well connected with several main roads including Australia Avenue, Parramatta Road and arterial roads that link directly into the Sydney Olympic Park Town Centre.

Transit connections include the main Train line with the station directly opposite the site and with the future Parramatta light rail extension.
The parklands behind provide a range of green open spaces and nature reserves with a focus on water ; wetlands, mangroves and creeks.

## Legend

- Sydney Olympic Park
- Sydney Olympic Park Town Centre
- Site
- Railway Line
- Light Rail Line
- Light Rail Stops




## Legend

### Land Use

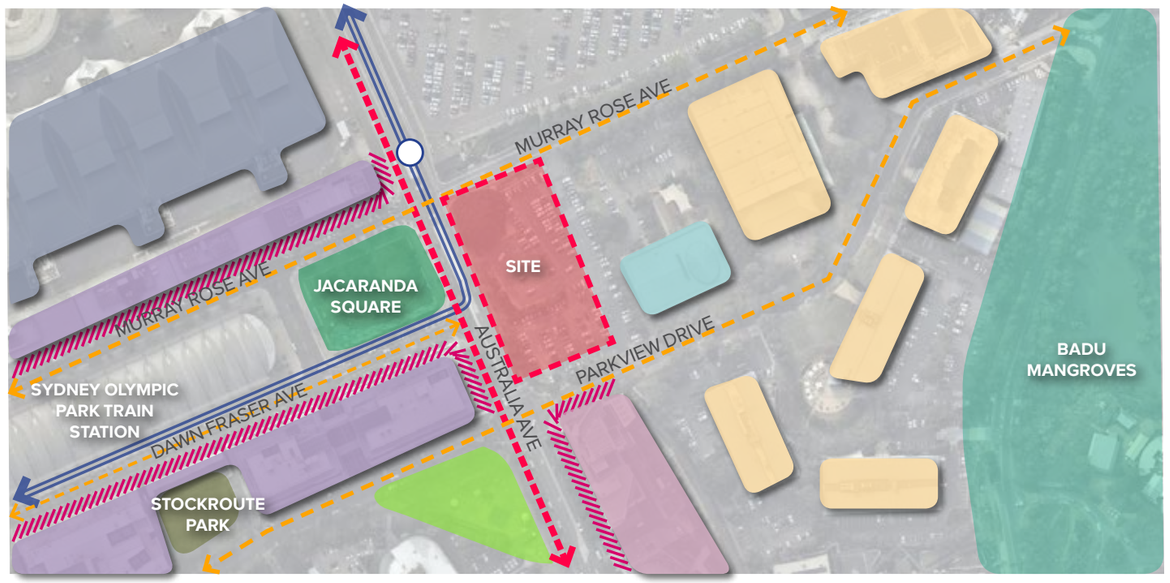
- Mixed Use
- Active Frontage
- Retail Use
- Religious
- Residential
- Business Park

### Transport

- Major Roads
- Secondary Roads
- Proposed Lightrail
- Proposed Lighrail Stops

### Landscape Typology

- Public Urban Park
- Breakout Space
- Open Space with Lawn
- Nature Reserve



# Local Context

**Legend**

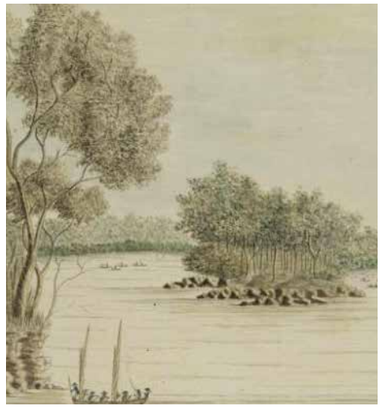
- Site
- View Corridors
- Pedestrian Movements
- Existing Trees
- Open Lawn
- Focal Points
- Built Form

# Indigenous History

Sydney Olympic Park is situated on the traditional lands of the Wann clan, known as the Wann-gal. The lands of the Wann-gal stretched along the southern shore of the Parramatta River between Cockle Bay (Cadi-gal land) and Rose Hill (Burramatta-gal land). Across the river were the Wallumetta-gal.

The Wann-gal and their ancestors have lived in the Homebush Bay area for thousands of years. Physical evidence of the usage of the Homebush Bay area by Aboriginal people has been found in the form of stone artefact's located at the site. In addition, several scarred trees have been found within remnant forest.

The estuarine ecosystems provided the Aboriginal communities with food, clothing and other resources necessary to their lifestyle as well as a means of traveling throughout the region by water. Aboriginal people were still using the Homebush Bay area, even after their lands were granted to Europeans.



# Industrial History

Early last century, increased building activity caused the price of building materials to rise. In order to control the price of bricks, the Government established the State Brickworks at the head of Homebush Bay in 1911.

During the economic depression of the 1930s, the brickworks operated at a significant loss. In 1936, they were sold to private enterprise and closed in 1940.

After World War II, the Government re-established the State Brickworks due to a shortage of bricks. Two large pits were created to provide the clay to make the bricks. The first pit was closed and filled in during the 1960s.

Work in the second pit ceased with the closure of the brickworks in 1988.

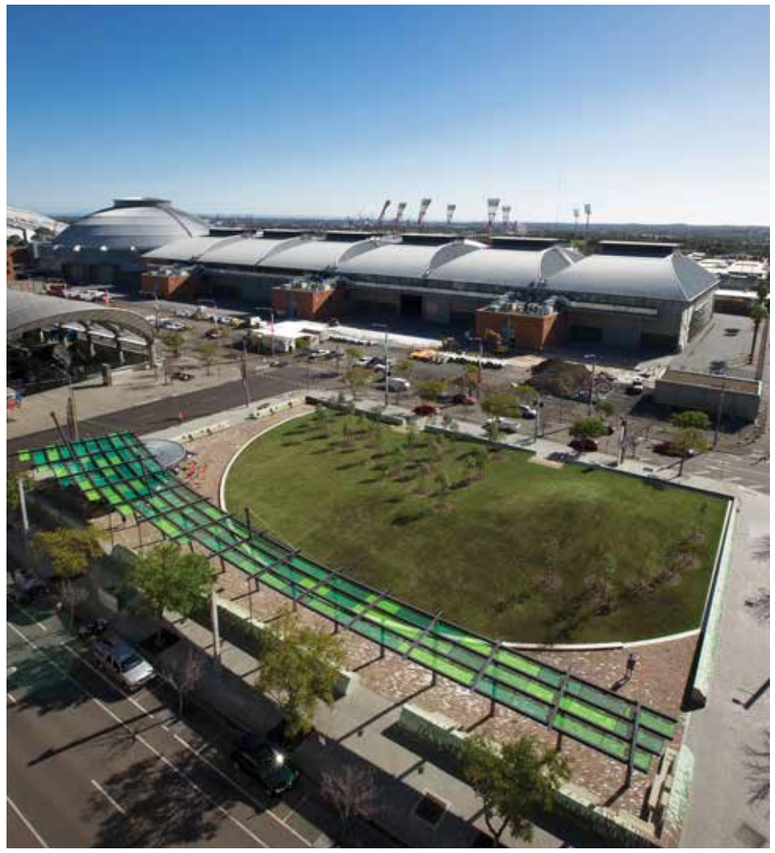
This pit is now an adopted home of the Green and Golden Bell Frog and a feature of the parklands.

Today, this is the location of the award winning Brickpit Ring Walk.

# Landscape Vernacular

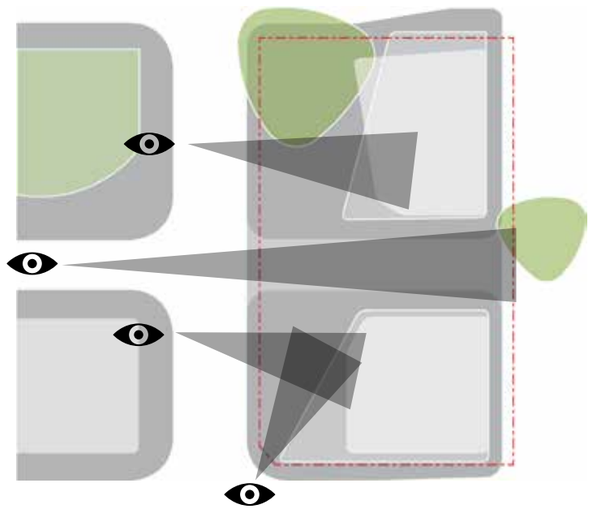
**BRICKPIT PARK**

**JACARANDA SQUARE**

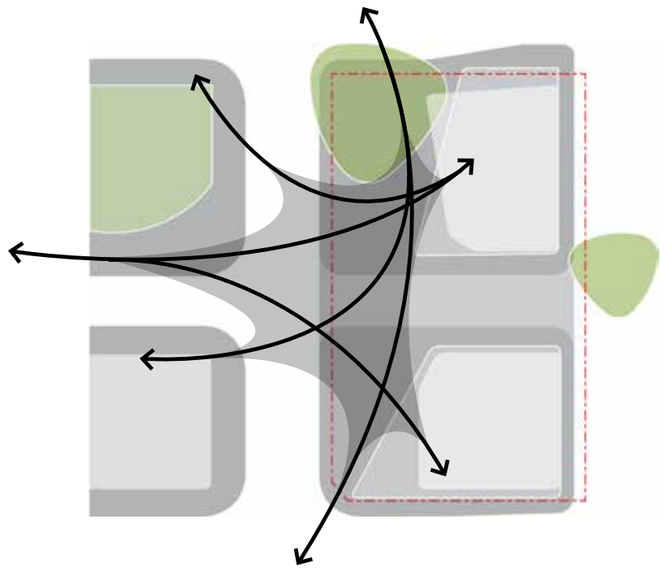


**WENTWORTH COMMON**

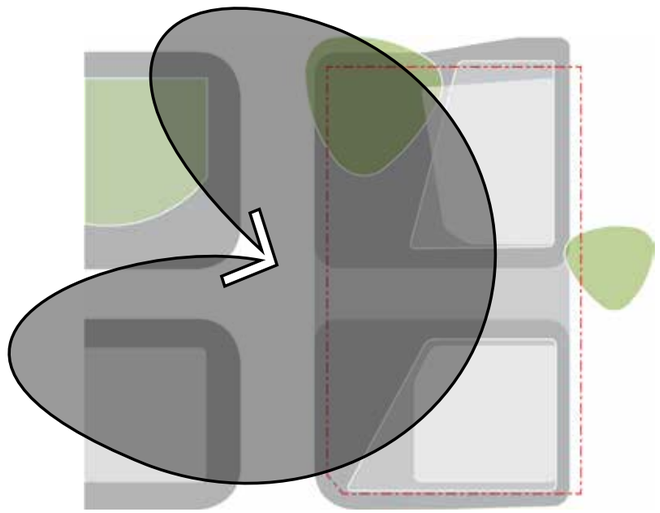
# Design Strategies



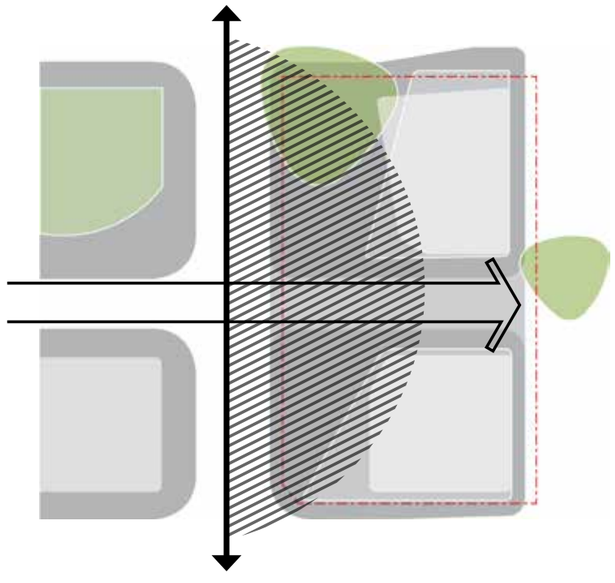
RESPECT KEY VIEWS



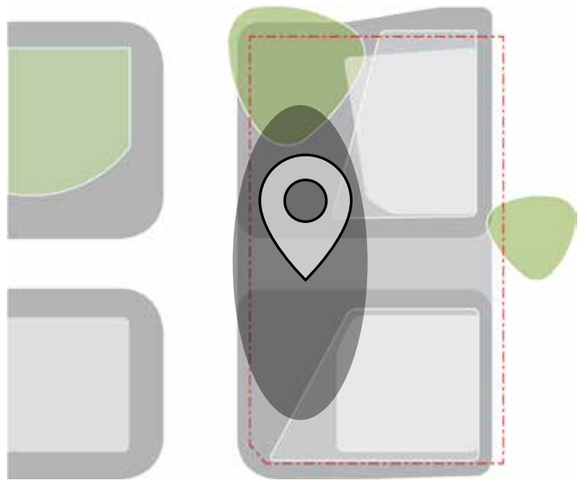
CREATE FLUID CONNECTIONS



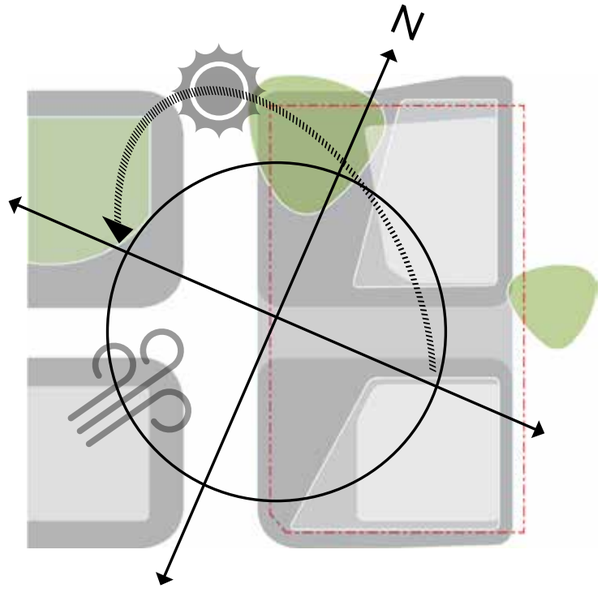
GREEN LINK WITH PARK



URBAN EDGES FOR PEOPLE



COMPLEMENTARY CHARACTER ZONES

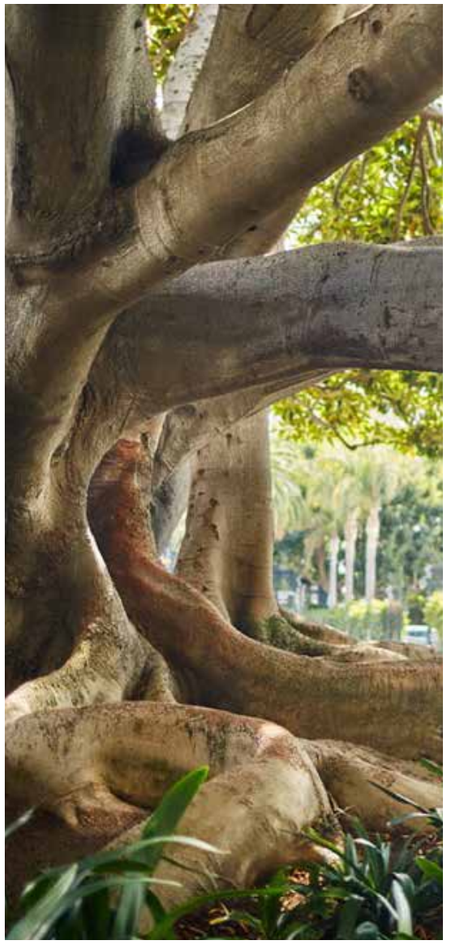



ENSURE HUMAN COMFORT

# Guiding Principles

PEDESTRIAN PRIORITY

A BIOPHILIC RESPONSE LIVING SCULPTURES



AN URBAN DESTINATION OF SEASONAL COMFORT

FINE-GRAIN POROSITY

# Concept

## *"A LIVING SCULPTURE"*

The Majesty of the Fig...
Currently hidden away from public consumption, an opportunity lost.

To connect people to the natural world is implicit in our approach, and this senitinal of the site offers her majesty in this pursuit.

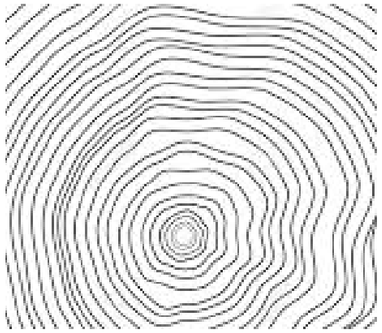
Our aim is to emphasise both the incredible spread of the structural limbs, and expose the beauty of the buttress root system.

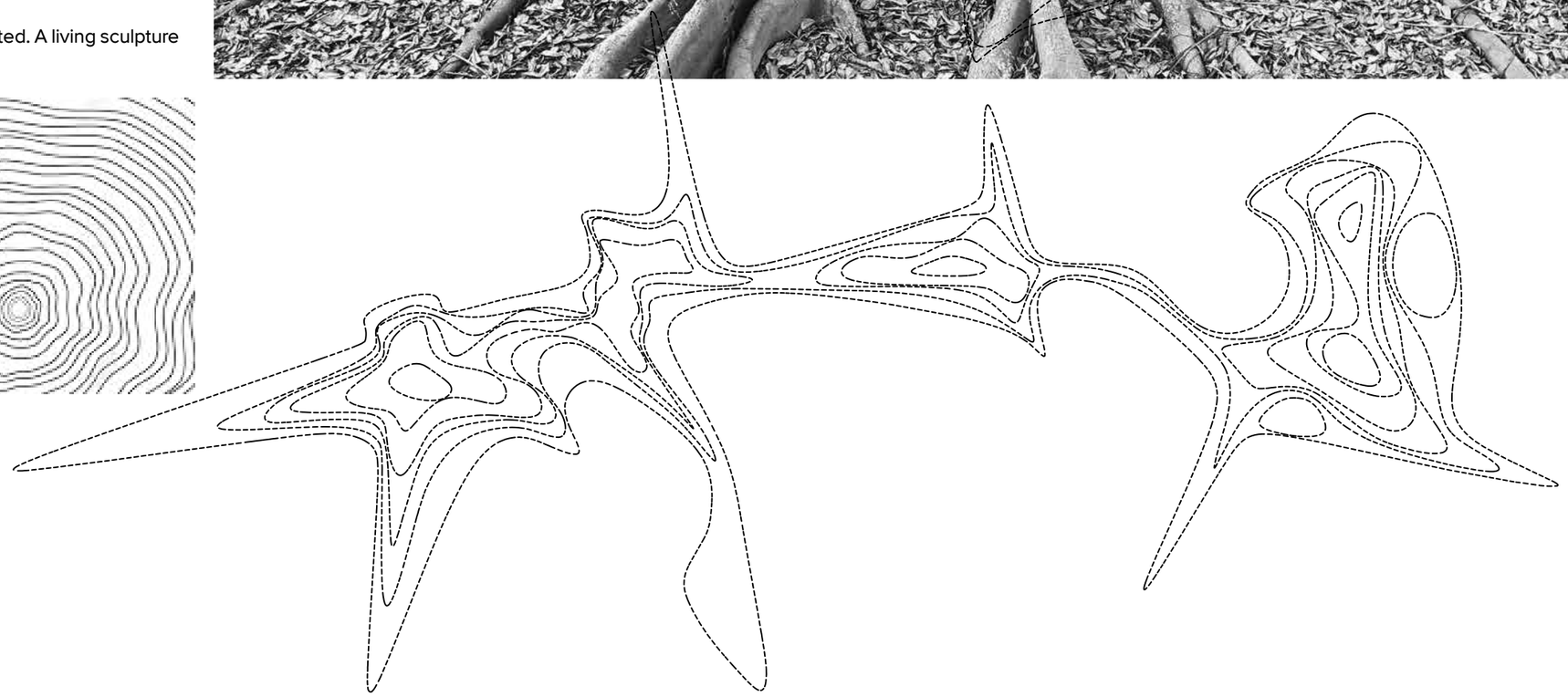
Both tell a story of the site and conditions, having adapted over the last 100 years in this place.  The forms are opportunistic and inherently functional.

Open to interpretation, the pronounced and interweaving forms have inspired the ground plane and provide biophilic associations.

To walk, sit or look under the canopy of this giant is to be embeded into this site.

The tree - a relic....to be protected, respected....and celebrated. A living sculpture presented and prized.



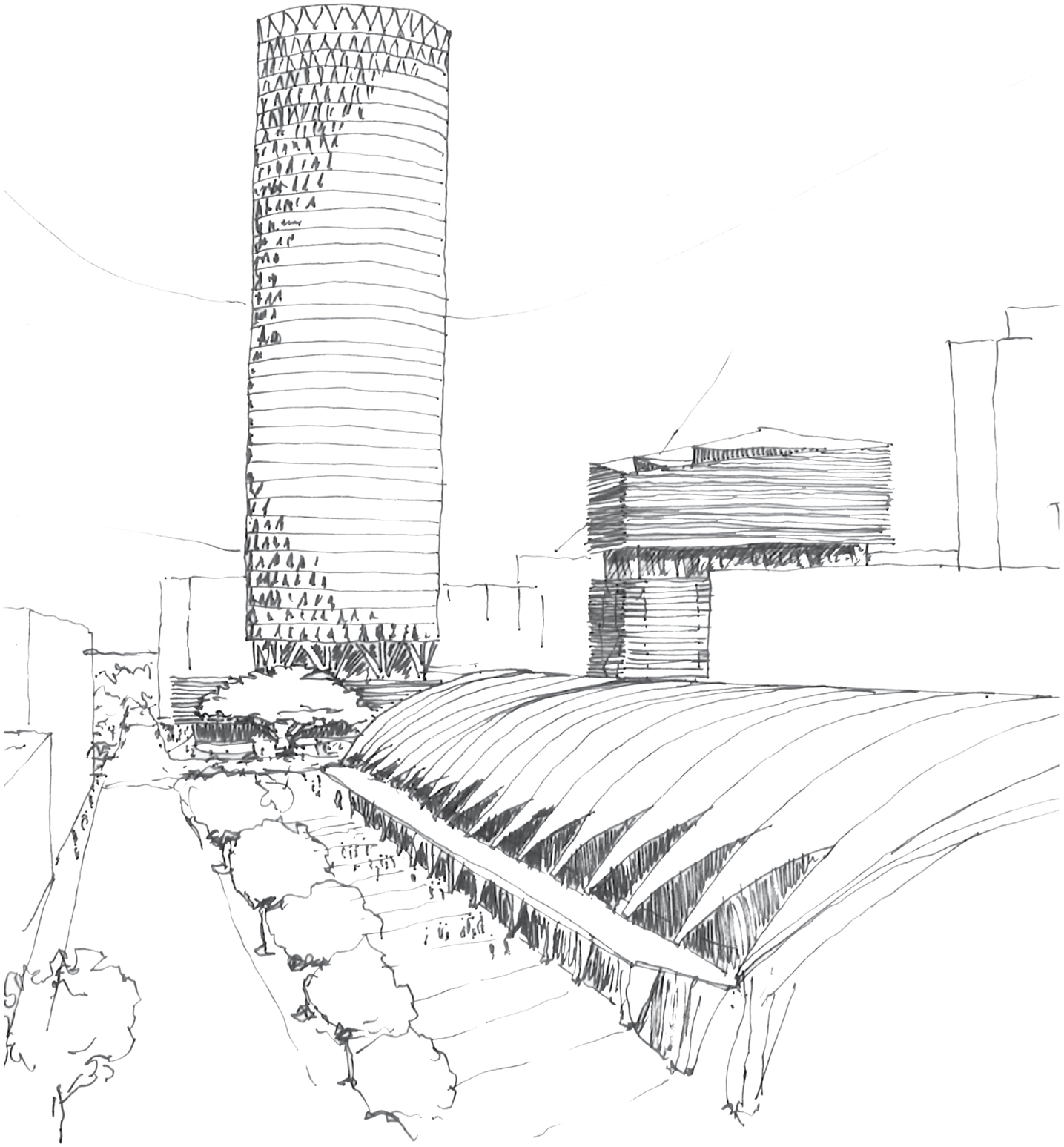


# Concept

## BUILDING + LANDSCAPE

We see this site as an experience, where building and landscape share a dialogue...embedded to the site and surrounds.
The sinuous edges to bold architectural forms receive an equally strong but kind landscape interface.
Site grades are dissolved through careful manipulation of pedestrian movement.

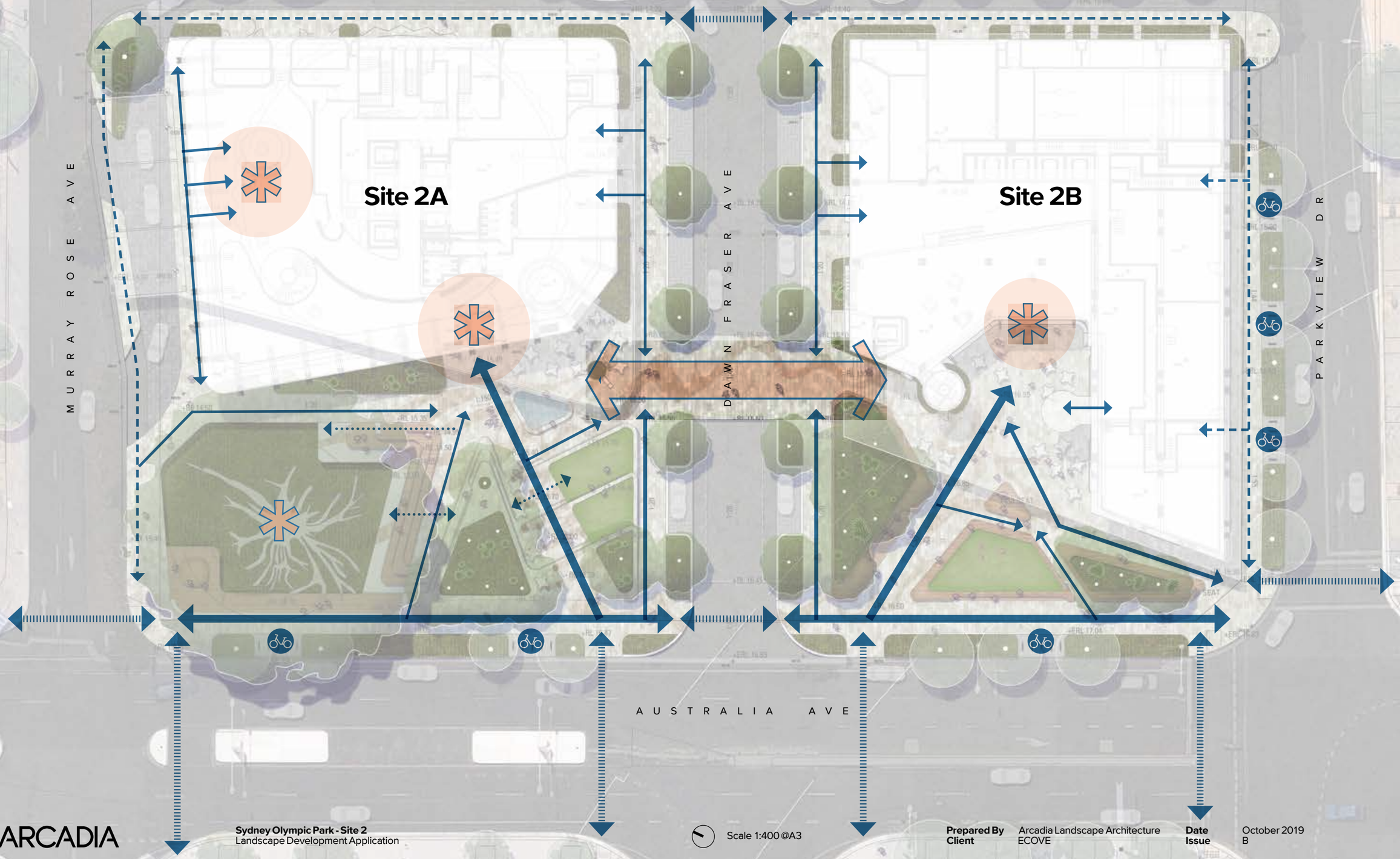
The eventuating edges provide an opportunity for further shared design inspiration - the horizontality of the building podiums creating a detailed expression of the smooth timber. We see this as important vernacular to interpret into the public realm. A series of articulated timber island have been defined to complement the buildings and answer the external needs of it's occupants.



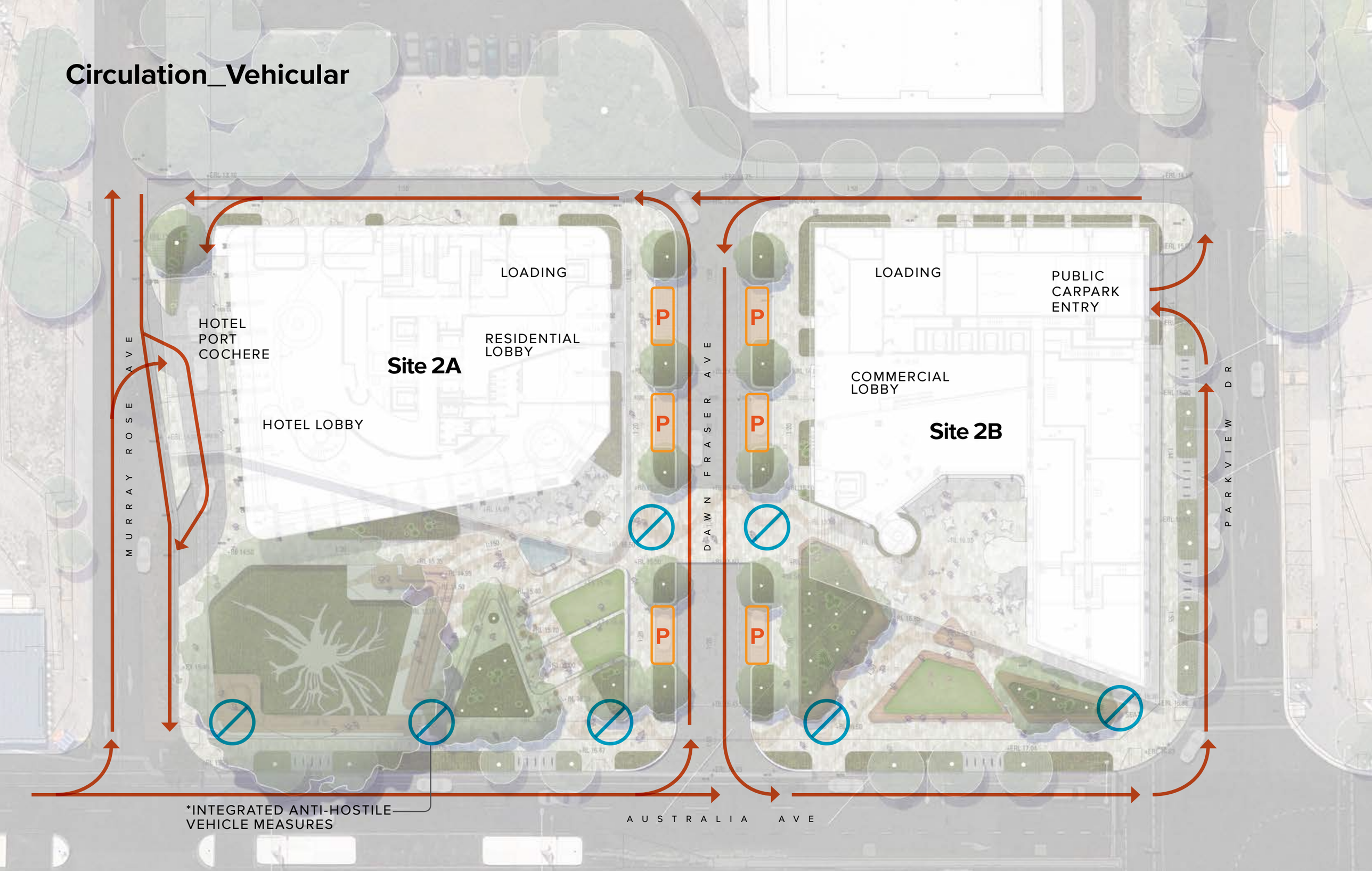
# Revised Master Plan

# Circulation_Pedestrian

To help define pedestrian hierarchy strategic footpaths have been either reduced or widened to frame key pedestrian crossings or desire lines to building entries and provide fine-grain porosity through the public realm.
The rationalization of the pedestrian circulation has been design as such to increase landscape and tree canopy coverage.



# Circulation_Vehicular

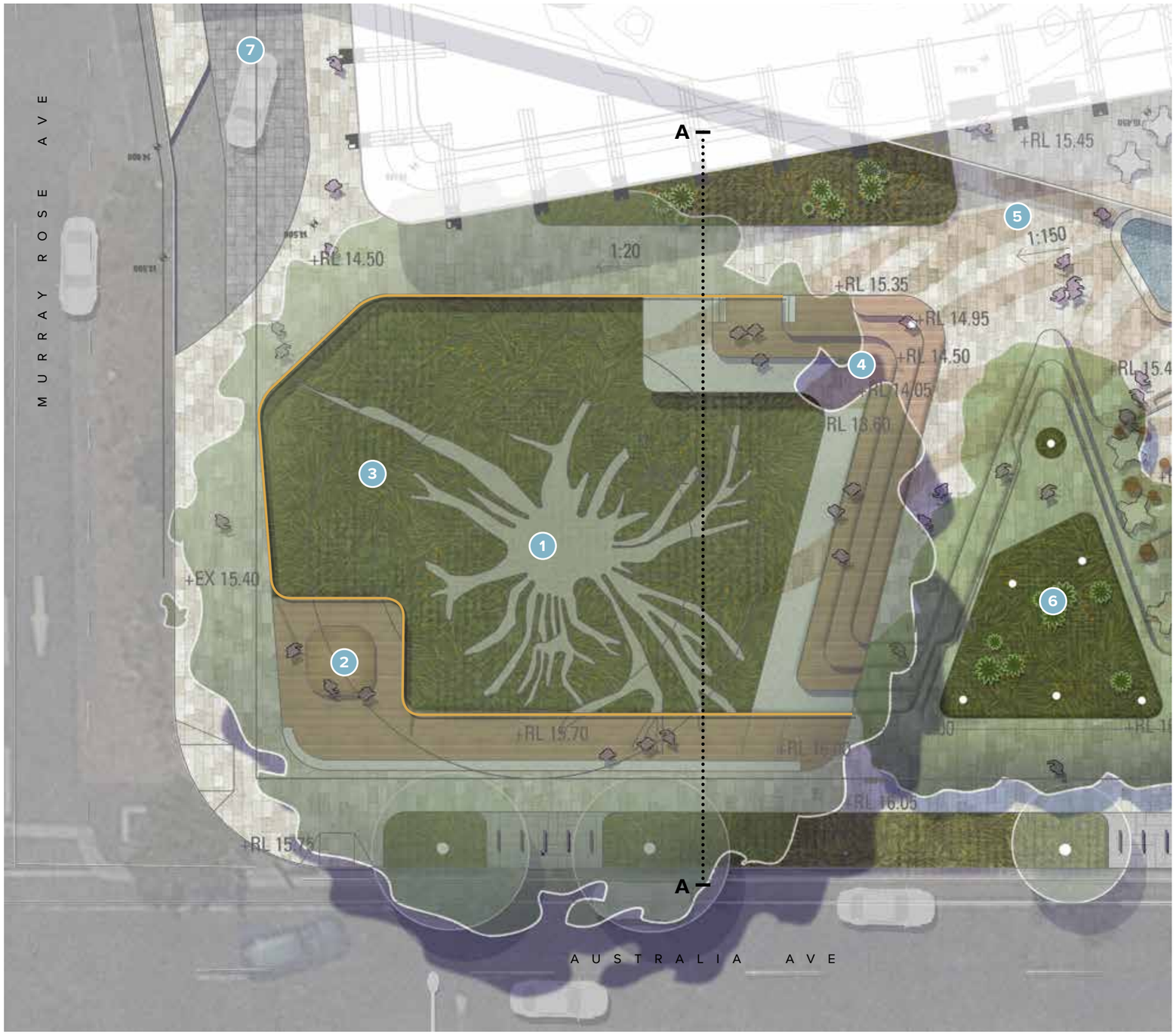


# Fig Tree Terrace

## Site 2A

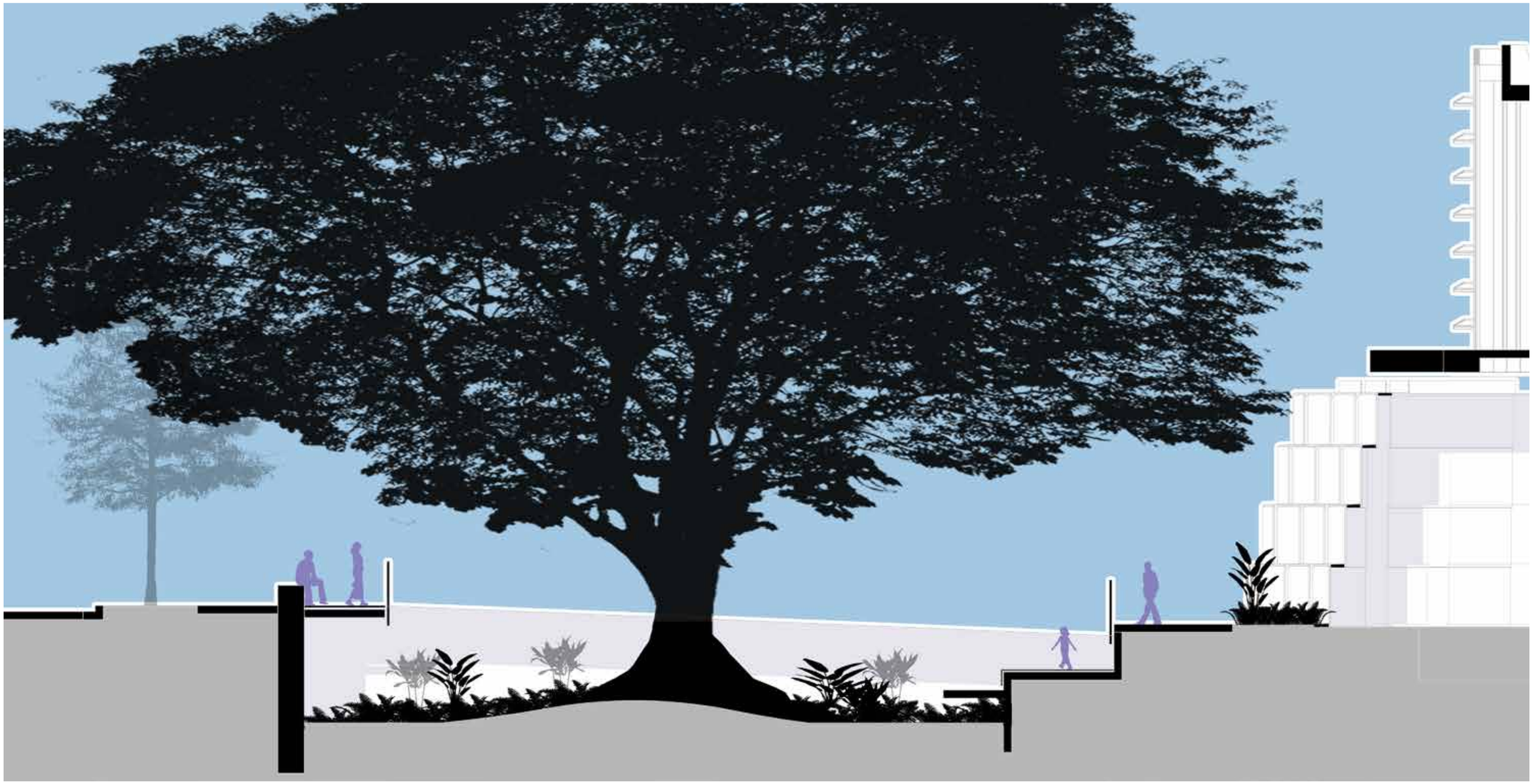
### Legend

1. Ficus macrophylla (existing)
2. Fig deck and seatlounge
3. Feature shade garden
4. Buttress terrace
5. Hotel forecourt
6. The Grove
7. Port cochere



# The Fig

## Site 2A - Section A



# The Grove

## Site 2A

### Legend

1. Restaurant entry
2. Bar alfresco
3. Hotel forecourt
4. Buttress terrace
5. Grove Lounge
6. The Grove Terrace
7. Lawn Terrace
8. Seating clusters
9. Pedestrian crossing

# The Grove

## Site 2A - Section B

# Market Green

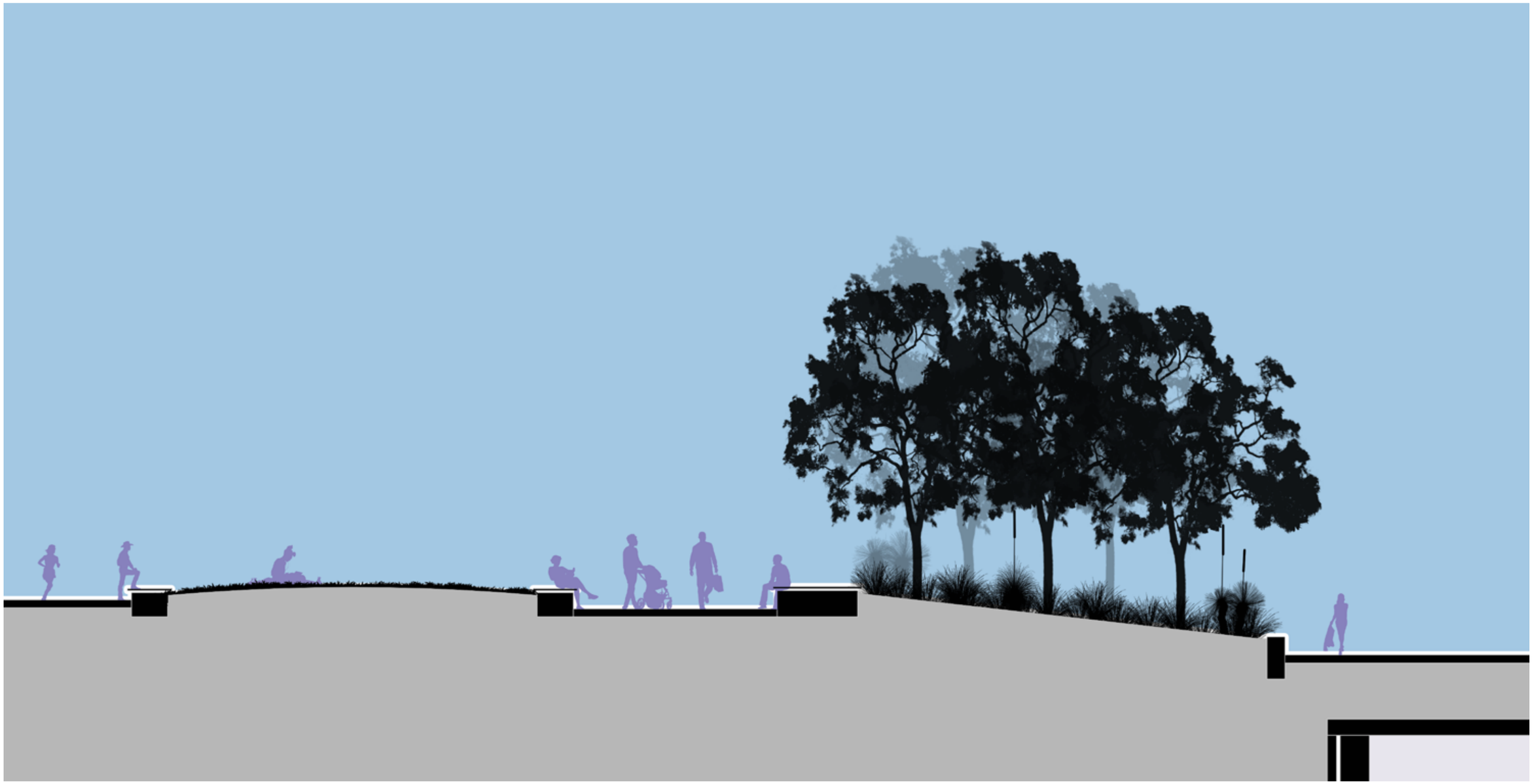
## Site 2B

### Legend

1. Market atrium
2. Island sun-lounge
3. Native feature garden
4. Carpark lift
5. Cafe alfresco
6. Communal deck lounge
7. Communal green
8. Bicycle Parking

# Market Green

## Site 2B - Section C



# Dawn Fraser Ave

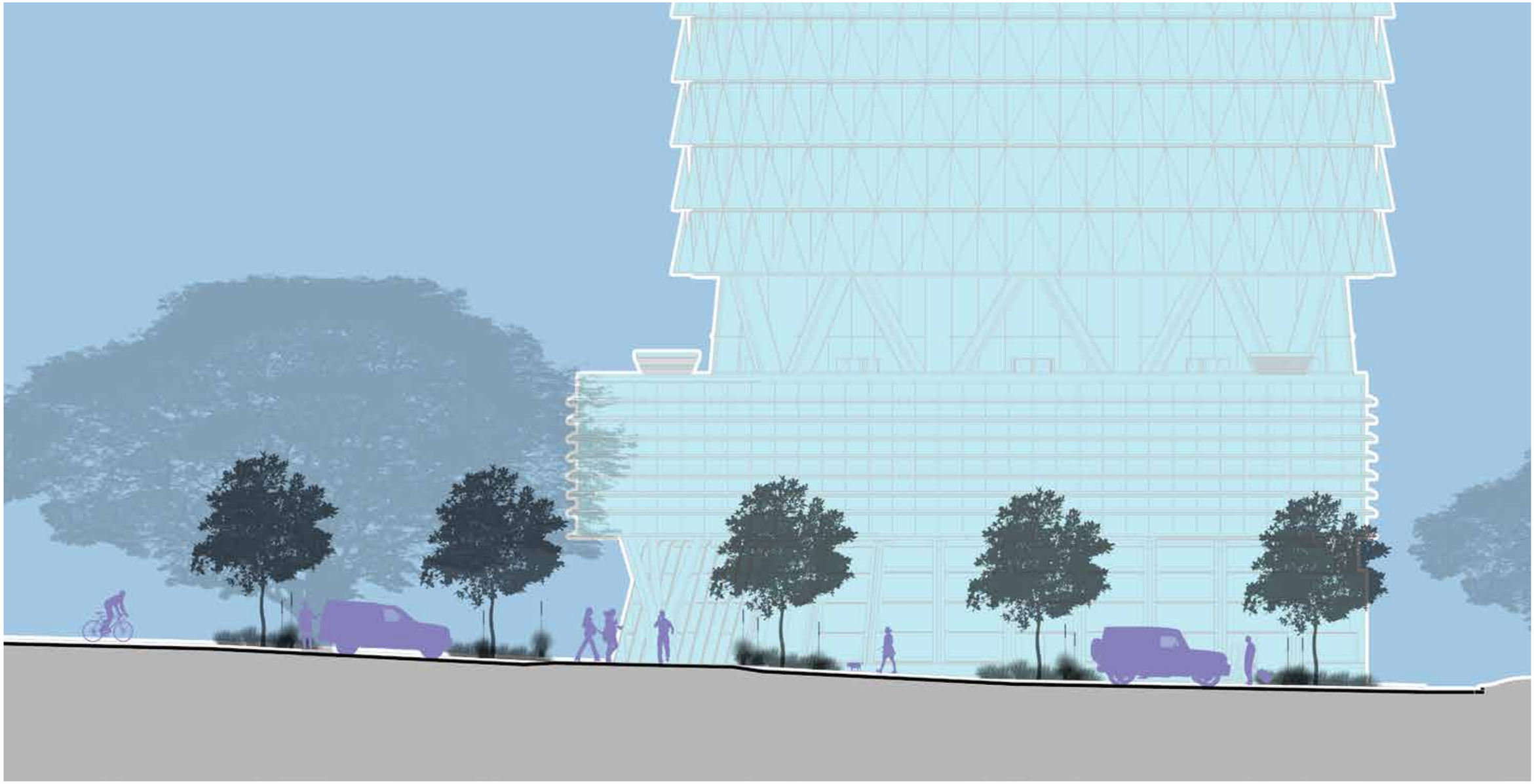
## Site 2A & 2B

### Legend

1. Pedestrian crossing (at-grade)
2. On-street car parking
3. Feature native garden
4. Entry lobby
5. Rain gardens

# Dawn Fraser Ave

## Site 2B - Section D

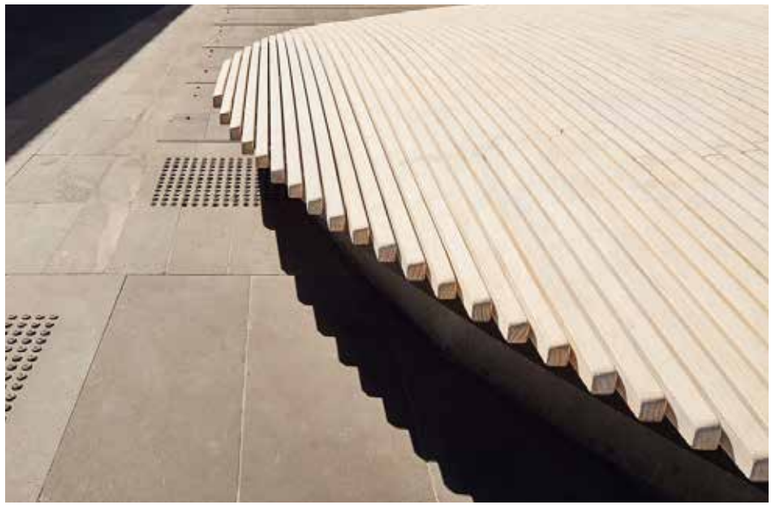


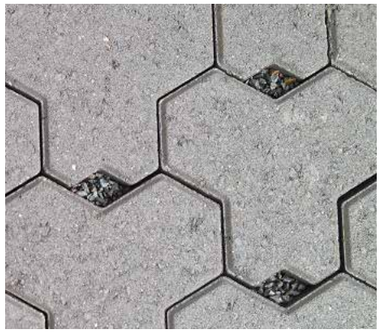
# Material Palette

PRECAST CONCRETE UNIT PAVING

TIMBER AND NATURAL STONE FEATURES

ACCOYA TIMBER BATTEN LOUNGES



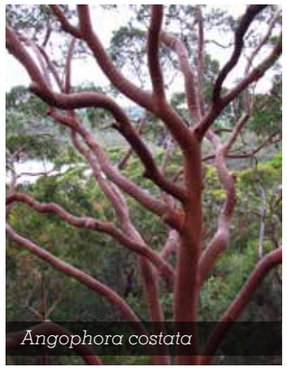


TRI-HEX UNIT PAVING

PRECAST CONCRETE TERRACE

# Planting Palette

TREES


*Angophora costata*

*Corymbia maculata*

*Tristaniopsis 'luscious'*

*Xanthorrhoea australis*

*Cyathea cooperi*

SHADE MATRIX

*Blechnum gibbum*

*Dioon spinulosum*

SHRUBS + GROUNDCOVERS

*Grevillea hybrid 'GR01'*

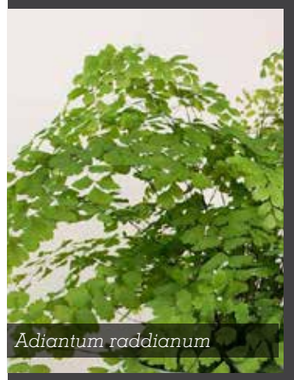
*Pittosporum 'Miss Muffet'*

*Lomandra glauca*

*Anigozathos 'Landscape Yellow'*

*Anigozanthos flavidus 'Landscape Lilac'*

*Wahlenbergia gracilis*


*Adiantum raddianum*

*Alpinia caerulea*

WSUD PLANTING

*Billardiera scandens*

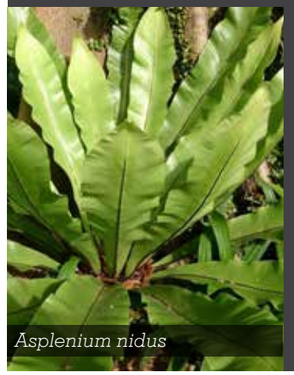
*Goodenia ovata*

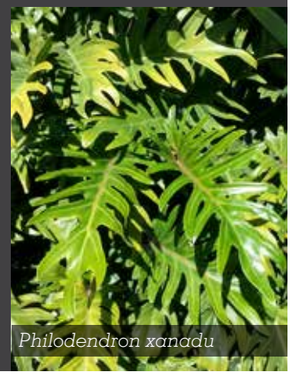
*Hardenbergia violacea*

*Carex appressa*

*Lomandra longifolia*

*Ficinia nodosa*


*Asplenium nidus*


*Philodendron xanadu*

# Appendix

# SYDNEY OLYMPIC PARK SITES 2A + 2B

## AUSTRALIA AVENUE, SYDNEY OLYMPIC PARK, NSW

## DRAWING SCHEDULE

| DRAWING NO. | DRAWING TITLE |
|---|---|
| 000 | COVER SHEET |
| 101 | LANDSCAPE MASTERPLAN |
| 101 | PLANTING PLAN |
| 102 | PLANTING PLAN |
| 103 | PLANTING PLAN |
| 104 | PLANTING PLAN |
| 200 | LANDSCAPE DETAILS |
| 300 | LANDSCAPE SPECIFICATION |

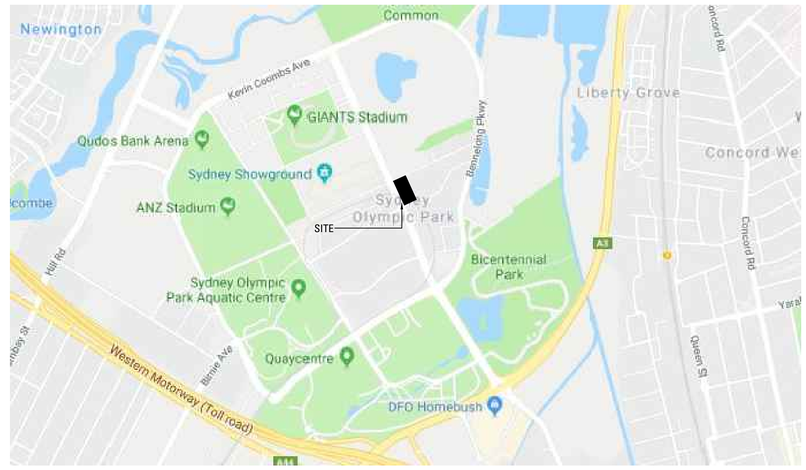
## PLANTING SCHEDULE

15-557 SOPA ECOVE PLANT SCHEDULE

| CODE | BOTANIC NAME | COMMON NAME | MATURE SIZE (h x w) (m) | PROPOSED POT SIZE | QUANTITY |
|---|---|---|---|---|---|
| | TREES & PALMS | | | | |
| Tl | *Tristaniopsis laurina 'Luscious'* | Luscious Water Gum | 10 x 5 | 400lt | 10 |
| Cm | *Corymbia maculata* | Spotted Gum | 20 x 10 | 400lt | 14 |
| Xt | *Xanthorrhoea australis* | Grass Tree | 2 x 1 | 400mm | 51 |
| Ac | *Angophora costata* | Sydney Red Gum | 20x10 | 400lt | 6 |
| | GROUNDCOVERS | | | | |
| Zo | *Zoysia tenuifolia* | Mascarene Grass | 0.2 x spreading | 150mm | 1275 |
| | MATRIX 01 - UNDERSTORY | | | | |
| Vh | *Viola hederacea* | Native Violet | 0.2 x 0.5 | 150mm | 269 |
| Dc | *Dianella revoluta* | Spreading Flax Lily | 1 x 1.5 | 150mm | 169 |
| Wg | *Wahlenbergia gracilis* | Native Bluebell | 0.4 x 0.4 | 150mm | 269 |
| Bs | *Billardiera scandens* | Apple Berry | 1.5 x 3 | 200mm | 90 |
| Am | *Arthropodium milleflorum* | Pale Vanilla Lily | 1.3 x 0.3 | 150mm | 199 |
| Bsp | *Banksia spinulosa 'Birthday Candles'* | Hairpin Banksia | 0.5 x 1 | 200mm | 110 |
| Ia | *Isopogon anethifolius* | Narrowleafed Drumsticks | 3.0 x 1.5 | 200mm | 100 |
| | MATRIX 02 - SHADE | | | | |
| Do | *Doodia aspera* | Prickly Rasp Fern | 0.5 x 0.5 | 150mm | 207 |
| Vh | *Viola hederacea* | Native Violet | 0.2 x 0.5 | 150mm | 301 |
| Bs | *Blechnum gibbum* | Silver Lady Fern | 1.5 x 1.5 | 200mm | 150 |
| La | *Lobelia anceps* | Angled lobelia | 0.3 x Spreading | 150mm | 263 |
| Cd | *Calochlaena dubia* | False Bracken Fern | 1.2 x 1.2 | 150mm | 188 |
| Cc | *Cyathea cooperi* | Tree Fern | 5 x 2 | 300mm | 75 |
| Br | *Bromeliad Species* | Bromeliad | 1 x 1 | 150mm | 207 |
| Px | *Philodendron 'Xanadu'* | Xanadu | 1 x 1 | 150mm | 169 |
| Aa | *Asplenium australasicum* | Birds Nest Fern | 1.5 x 1.5 | 200mm | 169 |
| Ac | *Alpinia caerulea* | Native Ginger | 2 x 2 | 200mm | 151 |
| | MATRIX 03 - GRASSES | | | | |
| Ggc | *Goodenia ovata 'Gold Cover'* | Gold Cover | 0.15 x 1 | 150mm | 143 |
| Pl | *Poa labillardieri 'Eskdale'* | Tussock Grass | 0.5 x 0.5 | 150mm | 143 |
| Dc | *Dianella revoluta* | Spreading Flax Lily | 1 x 1.5 | 150mm | 143 |
| Am | *Arthropodium milleflorum* | Pale Vanilla Lily | 1.3 x 0.3 | 150mm | 143 |
| Ag | *Anigozanthos Species* | Kangaroo Paws | 1.5 x 1.5 | 150mm | 143 |

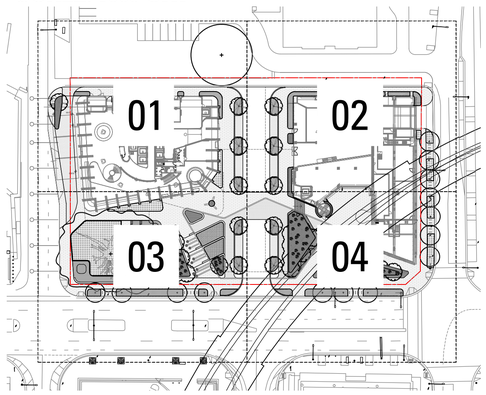
## LOCATION PLAN

SCALE: NTS




## KEY PLAN

SCALE: 1000 @A1




NOT FOR CONSTRUCTION

| Issue | Revision Description | Drawn | Check | Date |
|---|---|---|---|---|
| A | DEVELOPMENT APPLICATION | CD | MB | 15.08.2019 |
| B | DEVELOPMENT APPLICATION | RM | CD | 28.10.2019 |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |

SYDNEY OLYMPIC PARK SITES 2A + 2B

DEVELOPMENT APPLICATION

ECOVE

DRAWING NAME

**COVER SHEET**

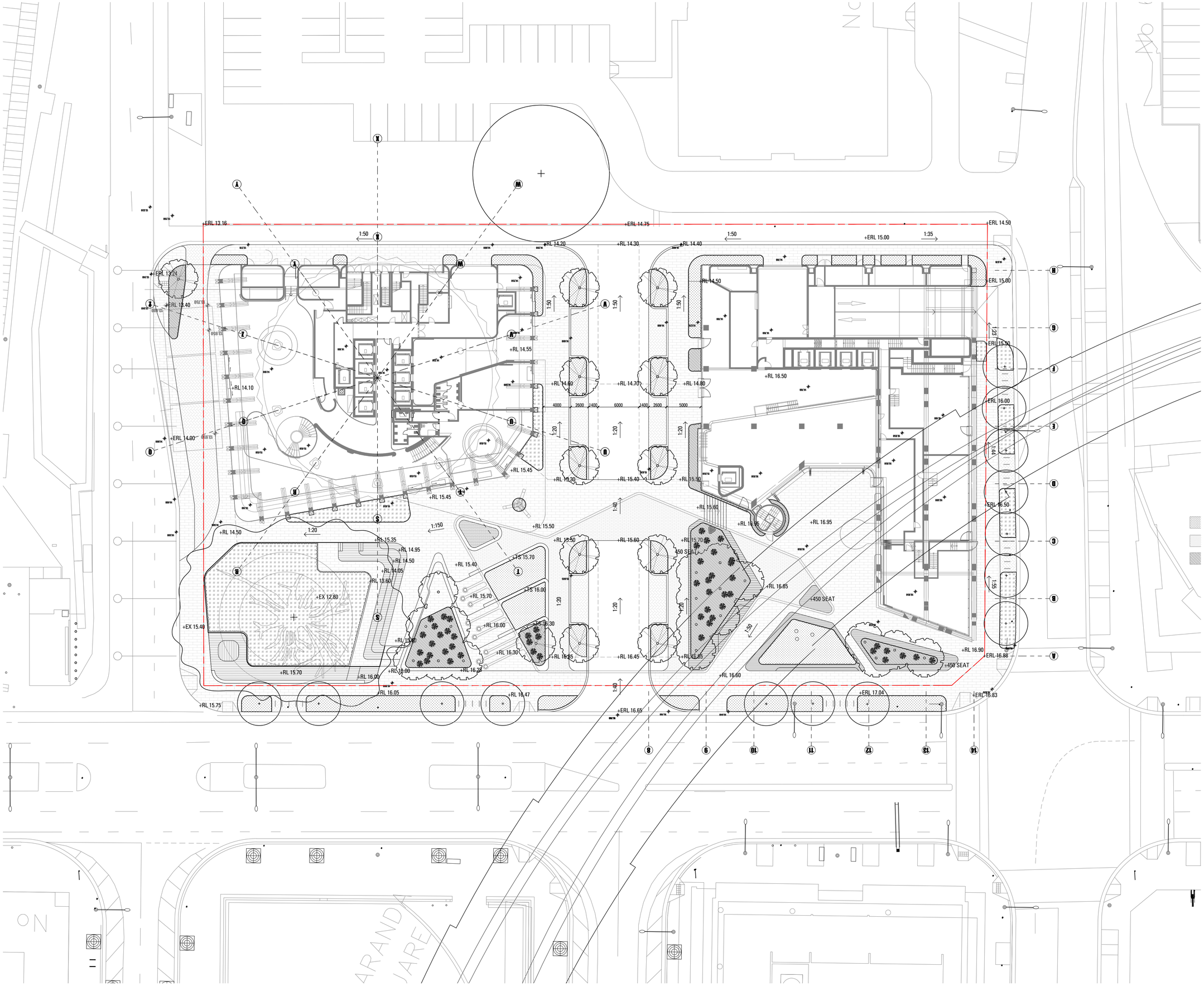
| JOB# | SHEET# | ISSUE |
|---|---|---|
| 18-557 | 000 | B |

NORTH

SCALE AS SHOWN

ARCADIA LANDSCAPE ARCHITECTURE

Lower Deck Jones Bay Wharf Suite 76 / 26-32 Pirrama Rd
Pyrmont 2009 NSW p 61 2 8571 2900




LEGEND

- EXISTING TREES TO BE REMOVED
- EXISTING TREES TO BE RETAINED
- PROPOSED FEATURE TREE PLANTING
- PROPOSED SHRUB AND ACCENT PLANTING
- PROPOSED TURF - ZOYSIA
- PROPOSED MATRIX PLANTING 01 - UNDERSTORY
- PROPOSED MATRIX PLANTING 02 - SHADE
- PROPOSED MATRIX PLANTING 03 - GRASSES
- PROPOSED CONCRETE PAVING
- PROPOSED GRANITE PAVING
- PROPOSED GRANITE PAVING
- PROPOSED CONCRETE UNIT PAVING
- PROPOSED TIMBER DECKING

**NOT FOR CONSTRUCTION**

| Issue | Revision Description | Drawn | Check | Date |
|---|---|---|---|---|
| A | DEVELOPMENT APPLICATION | CD | MB | 15.08.2019 |
| B | DEVELOPMENT APPLICATION | RM | CD | 28.10.2019 |
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# SYDNEY OLYMPIC PARK SITES 2A + 2B

## DEVELOPMENT APPLICATION

## ECOVE

DRAWING NAME

**LANDSCAPE MASTERPLAN**

| JOB# | SHEET# | ISSUE |
|---|---|---|
| 18-557 | 100 | B |

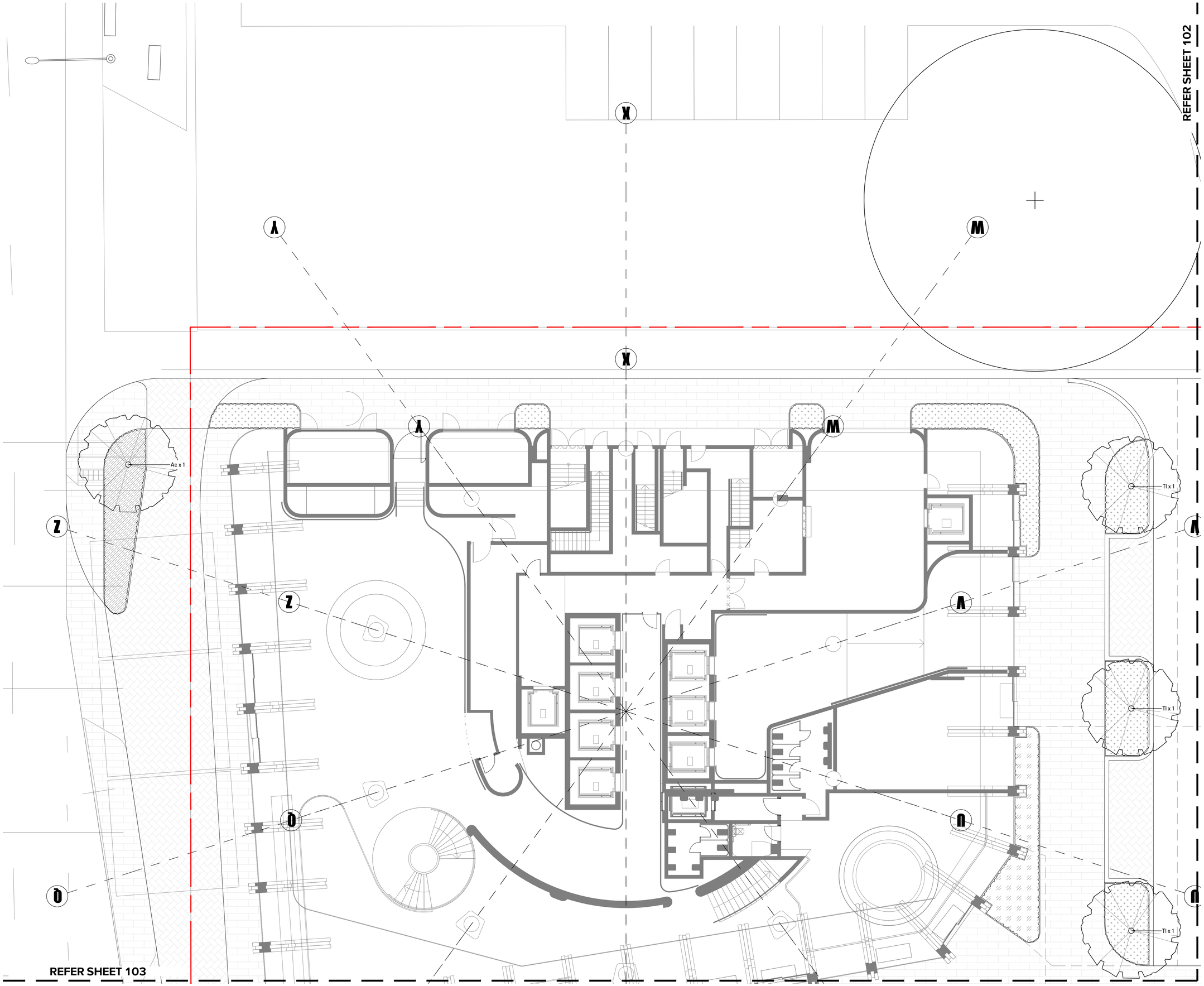
NORTH

SCALE 1:250 @ A1

0 1 2 4 6 10m

ARCADIA LANDSCAPE ARCHITECTURE

Lower Deck Jones Bay Wharf Suite 76 / 26-32 Pirrama Rd
Pyrmont 2009 NSW p 61 2 8571 2900




LEGEND

- EXISTING TREES TO BE REMOVED
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# SYDNEY OLYMPIC PARK SITES 2A + 2B

## DEVELOPMENT APPLICATION

## ECOVE

DRAWING NAME

**PLANTING PLAN**

| JOB# | SHEET# | ISSUE |
|---|---|---|
| 18-557 | 101 | B |

NORTH

SCALE 1:100 @ A1

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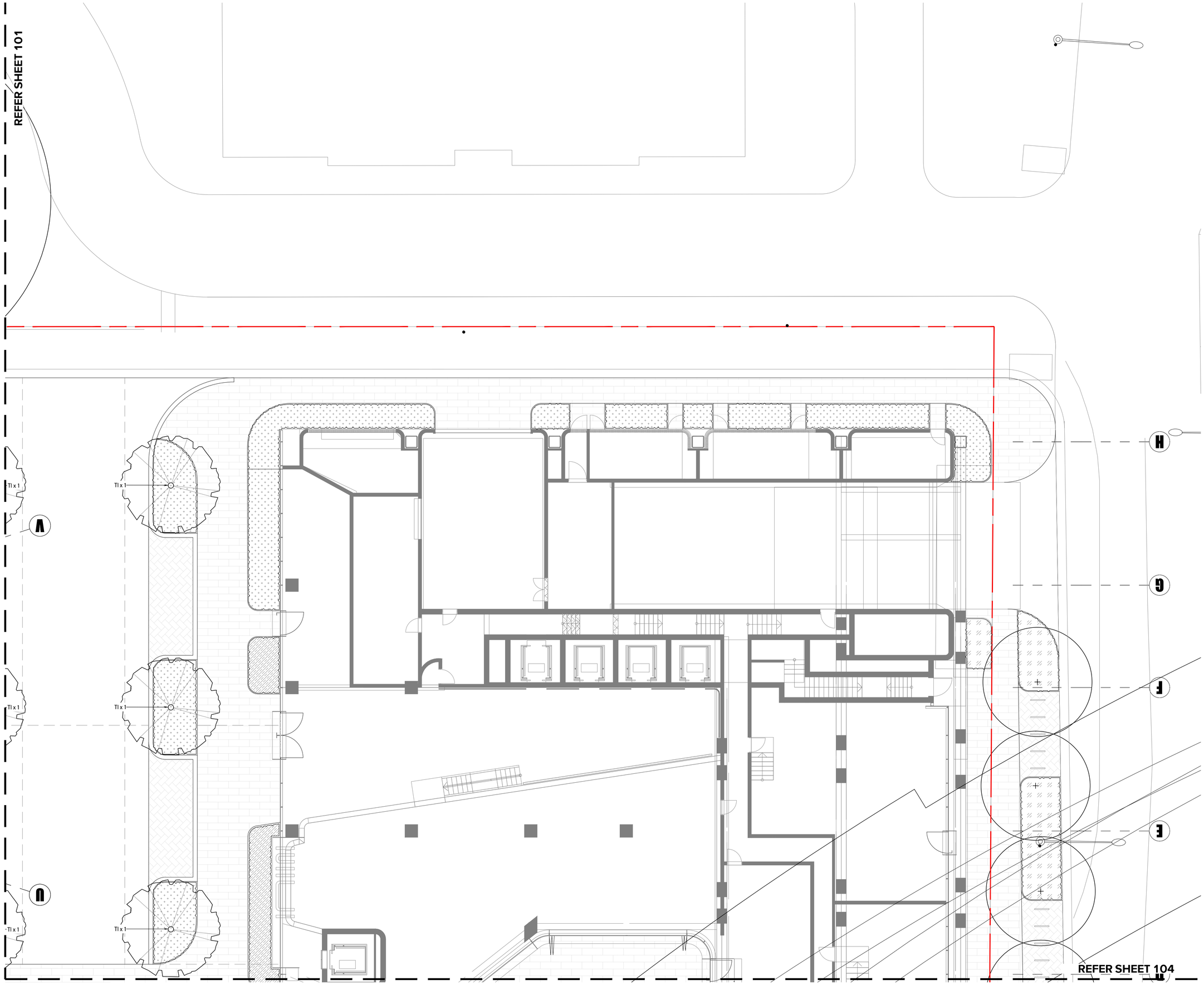
ARCADIA LANDSCAPE ARCHITECTURE

Lower Deck Jones Bay Wharf Suite 76 / 26-32 Pirrama Rd
Pyrmont 2009 NSW p 61 2 8571 2900




LEGEND

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# SYDNEY OLYMPIC PARK SITES 2A + 2B

## DEVELOPMENT APPLICATION

## ECOVE

DRAWING NAME

**PLANTING PLAN**

| JOB# | SHEET# | ISSUE |
|---|---|---|
| 18-557 | 102 | B |

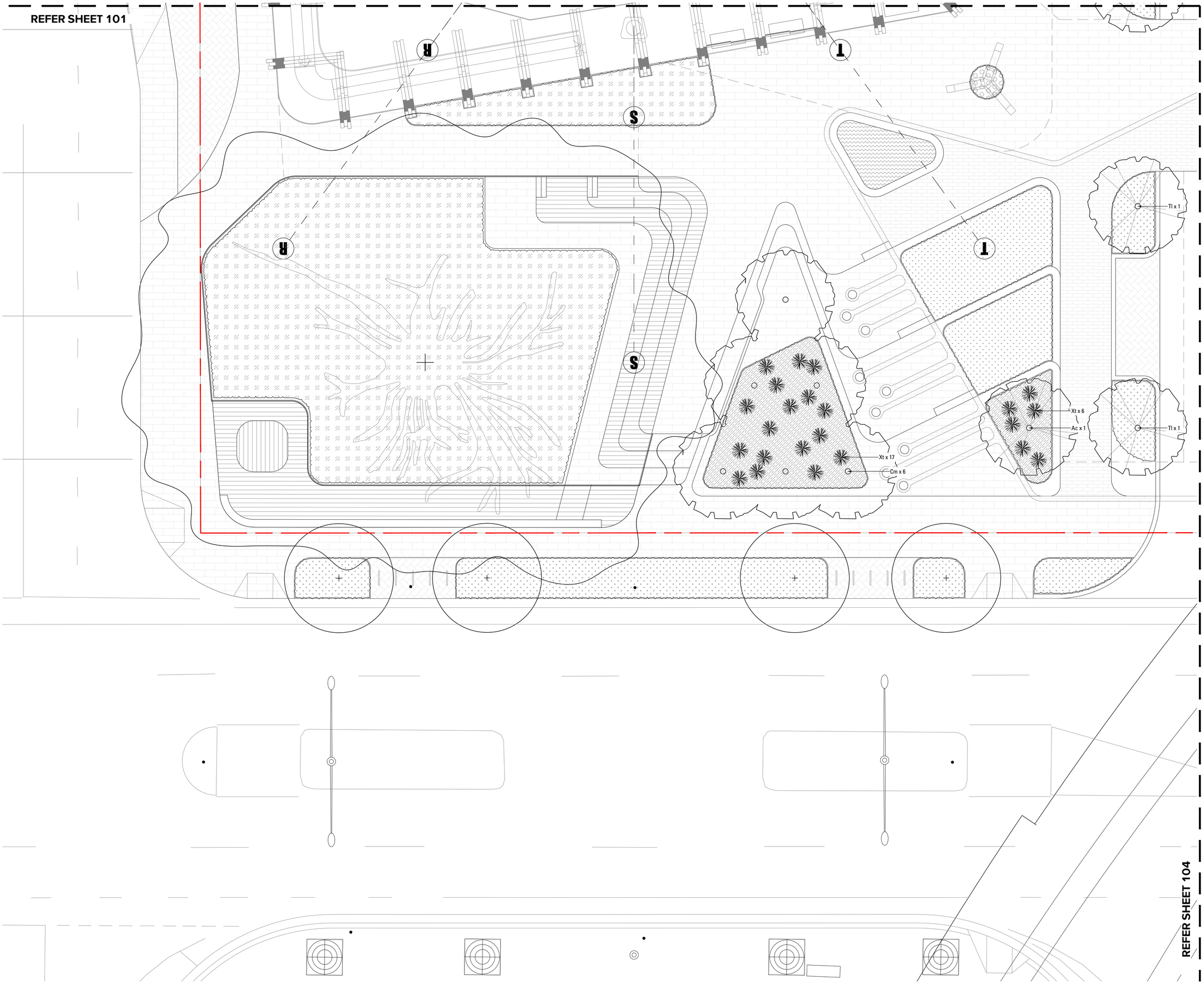
NORTH

SCALE 1:100 @ A1

0 1 2 3 4 5m

ARCADIA
LANDSCAPE ARCHITECTURE

Lower Deck Jones Bay Wharf Suite 76 / 26-32 Pirrama Rd
Pyrmont 2009 NSW p 61 2 8571 2900




LEGEND

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# SYDNEY OLYMPIC PARK SITES 2A + 2B

## DEVELOPMENT APPLICATION

## ECOVE

DRAWING NAME

**PLANTING PLAN**

| JOB# | SHEET# | ISSUE |
|---|---|---|
| 18-557 | 103 | B |

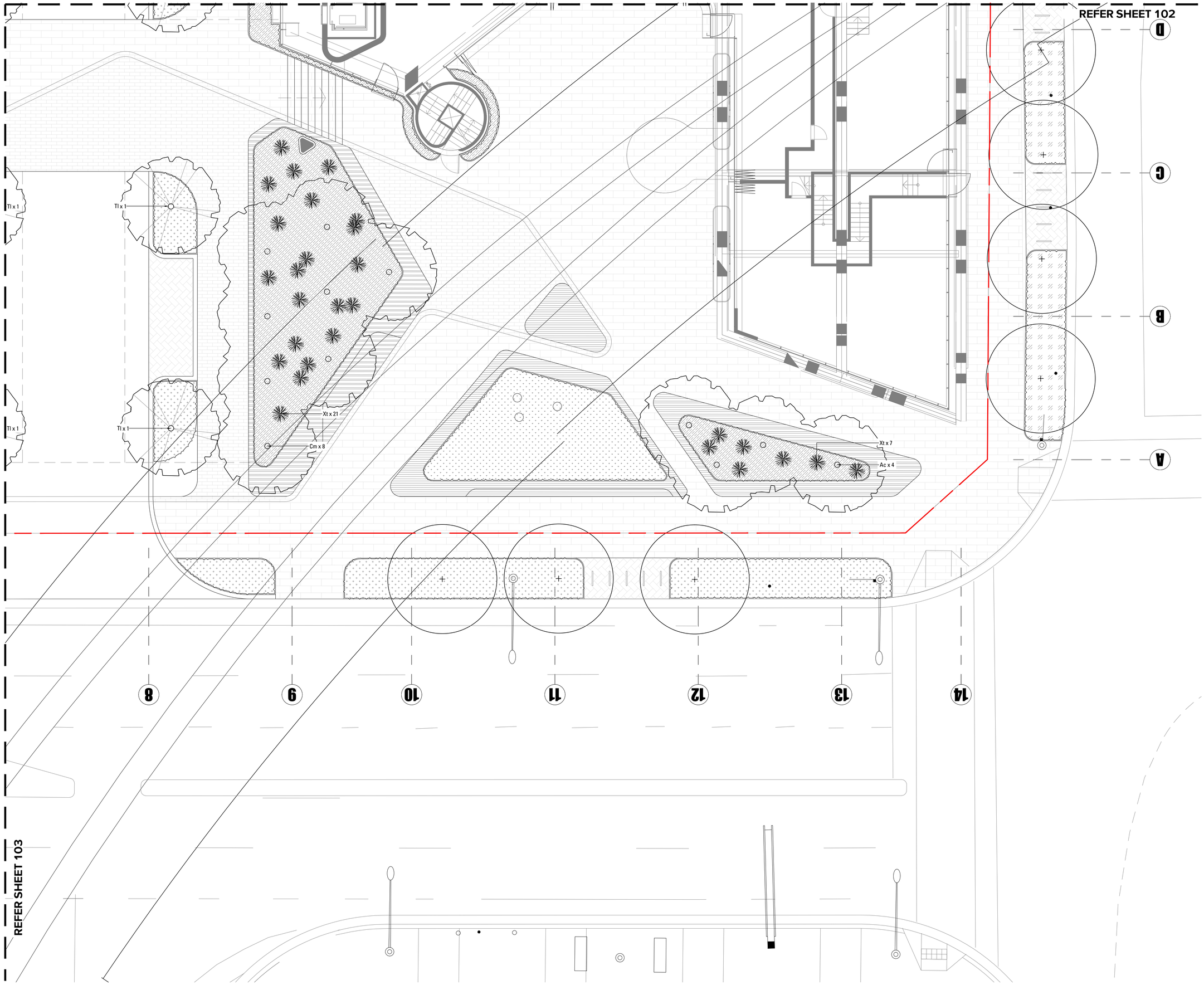
NORTH

SCALE 1:100 @ A1

0 1 2 3 4 5m

ARCADIA
LANDSCAPE ARCHITECTURE

Lower Deck Jones Bay Wharf Suite 76 / 26-32 Pirrama Rd
Pyrmont 2009 NSW p 61 2 8571 2900

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# SYDNEY OLYMPIC PARK SITES 2A + 2B

**DEVELOPMENT APPLICATION**

**ECOVE**

DRAWING NAME

**PLANTING PLAN**

| JOB# | SHEET# | ISSUE |
|---|---|---|
| 18-557 | 104 | B |

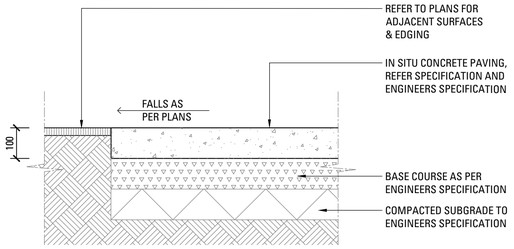
NORTH

SCALE 1:100 @ A1

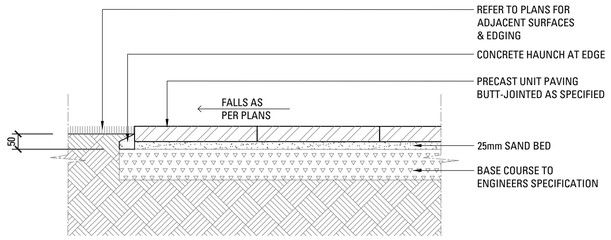
0 1 2 3 4 5m

ARCADIA
LANDSCAPE ARCHITECTURE

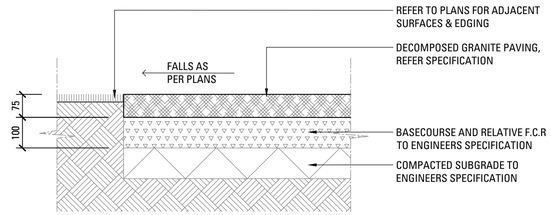
Lower Deck Jones Bay Wharf Suite 76 / 26-32 Pirrama Rd
Pyrmont 2009 NSW p 61 2 8571 2900



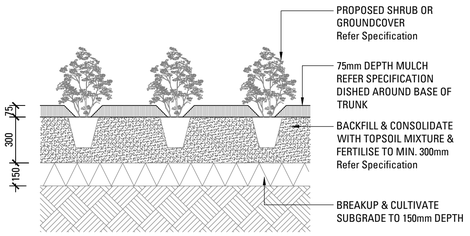

01 / 200 INSITU CONCRETE PAVING
SCALE 1:10



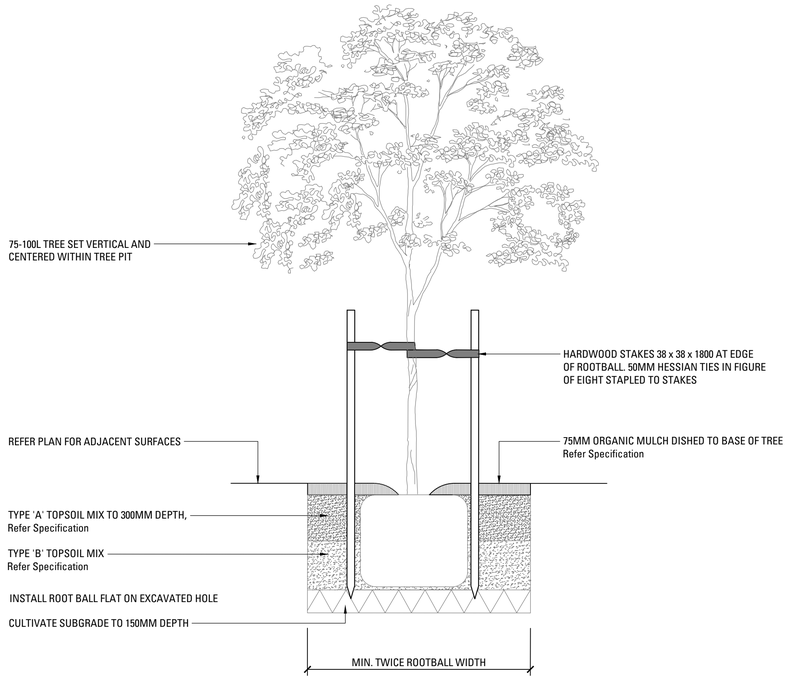

02 / 200 PRECAST UNIT PAVERS ON GRADE
SCALE 1:10



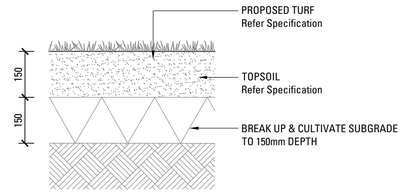

03 / 200 DECOMPOSED GRANITE PAVING ON GRADE
SCALE 1:10



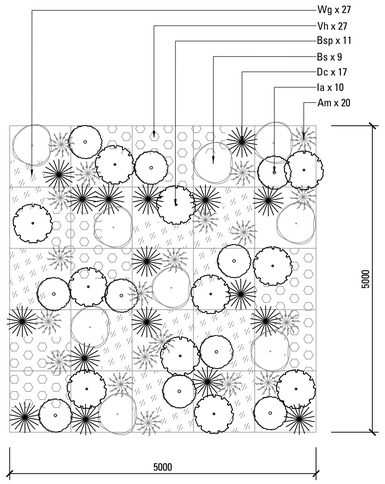

04 / 200 SHRUB OR GROUNDCOVER IN PLANTING BED
SCALE 1:20



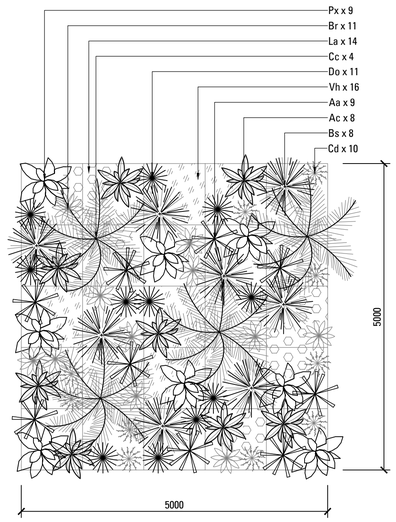

05 / 200 TREE PLANTING 75-100L
SCALE 1:20



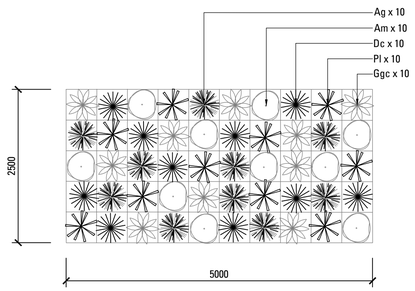

06 / 200 TURF ON GRADE
SCALE 1:10




07 / 200 UNDERSTORY MATRIX - 5m x 5m
SCALE 1:50




08 / 200 SHADE MATRIX - 5m x 5m
SCALE 1:50




09 / 200 GRASSES MATRIX - 5m X 2.5m
SCALE 1:50

**NOT FOR CONSTRUCTION**

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# SYDNEY OLYMPIC PARK SITES 2A + 2B

## DEVELOPMENT APPLICATION

## ECOVE

DRAWING NAME
**LANDSCAPE DETAILS**

| JOB# | SHEET# | ISSUE | NORTH |
|---|---|---|---|
| 18-557 | 200 | B | |

SCALE AS SHOWN

ARCADIA
LANDSCAPE ARCHITECTURE

Lower Deck Jones Bay Wharf Suite 76 / 26-32 Pirrama Rd
Pyrmont 2009 NSW p 61 2 8571 2900

## LANDSCAPE 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.

**ABORIST MANAGEMENT OF TREE PROTECTION**
A QUALIFIED AND APPROVED ABORIST IS TO BE CONTRACTED TO UNDERTAKE OR MANAGE THE INSTALLATION OF PROTECTIVE FENCING, AND TO UNDERTAKE SUCH MEASURES AS HE DEEMS APPROPRIATE TO PRESERVE THE SUBJECT TREES TO BE RETAINED. THE ARBORIST IS TO BE RETAINED FOR THE ENTIRE CONTRACT PERIOD TO UNDERTAKE ONGOING MANAGEMENT AND REVIEW OF THE TREES.

**DRAINAGE CELL AND FILTER FABRIC**
FOR ON-SLAB AREAS INSTALL AN APPROVED 'DRAINAGE CELL' PRODUCT TO COMPREHENSIVELY COVER THE BOTTOM OF ALL PLANTERS. OVER DRAINAGE CELL TO ON-SLAB AREAS, A POLYFELT GEOTEXTILE LINING (AS SUPPLIED BY 'POLYFELT TS' OR APPROVED EQUIVALENT) IS TO BE INSTALLED TO COVER THE BOTTOM OF ALL PLANTERS, TURNED UP 300MM AND TAPED TO THE PLANTER SIDES TO ENSURE SOIL MIX DOES NOT ESCAPE INTO DRAINAGE OUTLETS/HOLES. INSTALL MIN. 50MM COARSE RIVER SAND OVER ALL GEOTEXTILE LINING PRIOR TO INSTALLATION OF SOIL MIX.

**PLANTING MIXTURE**
SHALL BE HOMOGENOUS BLEND OF SOIL AND ADDITIVES IN THE FOLLOWING PROPORTIONS:
EXISTING SITE SOIL IF SUITABLE OR
IMPORTED TOPSOIL 50%
COMPOST 30%
D/W SAND 20%
SOIL TESTING OF EXISTING SITE SOIL IS TO BE UNDERTAKEN TO ASSESS SUITABILITY OF USE AS PLANTING TOPSOIL AND COMPLIANCE WITH AUSTRALIAN STANDARDS.

**MULCH 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**
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 WELL ROTTED VEGETATIVE MATERIAL OR ANIMAL MANURE, OR OTHER APPROVED MATERIAL, FREE FROM HARMFUL CHEMICALS, GRASS AND WEED GROWTH AND WITH NEUTRAL PH. PROVIDE A CERTIFICATE OF PROOF OF PH UPON REQUEST.

**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 SIR WALTER BUFFALO. SHIRLEYS NO. 17 OR APPROVED EQUAL LAWN FOOD SHALL BE 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 SHIRLEYS 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. 5-15 LITRE SIZE PLANT 1X(1200X25X25MM)
B. 35-75 LITRE SIZE PLANT 2X(1500X38X38MM)
C. 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.

**IRRIGATION SYSTEM**
SUPPLY AN AUTOMATIC WATERING SYSTEM USING 'TORO IRRIGATION SYSTEM' OR SIMILAR APPROVED, WITH MICRO-JET SPRINKLER HEADS AND LOW DENSITY, RUBBER MODIFIED POLYPROPYLENE RETICULATION, TO INCLUDE FILTERS, BENDS JUNCTIONS, ENDS AND OTHER ANCILLARY EQUIPMENT. THE LANDSCAPER SHALL NOMINATE HIS SOURCE OF SUPPLY FOR THE WATERING SYSTEM AND OBTAIN APPROVAL FROM THE SUPERINTENDENT BEFORE PLACING ORDERS FOR EQUIPMENT OR SUPPLY.

A SCHEMATIC PLAN OF THE PROPOSED IRRIGATION SYSTEM IS TO BE PREPARED BY THE CONTRACTOR, SHOWING SOLENOIDS, PIPE DIAMETERS, AND ALL NOZZLE AND TRICKLE ATTACHMENT TYPES (INCLUDING SPRAY/HEAD ANGLE), FOR REVIEW BY THE SUPERINTENDENT PRIOR TO INSTALLATION

THE CONTRACTOR IS TO LIASE WITH THE HYDRAULIC ENGINEER AND COUNCIL AS NECESSARY, TO ENSURE THE THE IRRIGATION SYSTEM CONFORMS WITH ALL THE COUNCIL AND WATER BOARD CODES AND REQUIREMENTS.

PROVIDE AN AUTOMATIC CONTROLLER THAT PROVIDES FOR TWO WEEK SCHEDULING AND HOURLY MULTI-CYCLE OPERATION. THE CONTROLLER SHALL MANUAL OVERRIDE. PROGRAMMING SHALL BE UNDERTAKEN BY THE CONTRACTOR WHO SHALL ADVISE ON THE OPERATION OF THE SYSTEM.

PROVISION OF SECURE HOUSING FOR THE AUTOMATIC IRRIGATION CONTROLLER TO BE LOCATED IN ASSOCIATION WITH THE LANDSCAPE CONTRACTOR AND LOCATION CONFIRMED BY THE SUPERINTENDENT. WIRING TO CONNECT REMOTE SOLENOID LOCATIONS IS TO BE PROVIDED. THE CONTROLLER SHALL BE LOCATED IN A DRY PLACE, PROTECTED FROM THE WEATHER, AND ALL CABLE CONNECTIONS SHALL BE MADE WITH WATERPROOF CONNECTORS.

WATER SUPPLY POINTS TO BE SUPPLIED BY BUILDER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE AND GUARANTEE SATISFACTORY OPERATION OF THE IRRIGATION SYSTEM.

AFTER THE SYSTEM HAS BEEN INSTALLED TO THE SATISFACTION OF THE SUPERINTENDENT, THE INSTALLATION SHALL BE TESTED UNDER KNOWN WORKING CONDITIONS. ACCEPTANCE OF THE INSTALLED PLANT AND EQUIPMENT SHALL BE SUBJECT TO THESE BEING SATISFACTORY.

**TREATED PINE TIMBER EDGING**
TIMBER EDGE: 100 X 25MM CCA TREATED RADIATA PINE TIMBER STAKES: 50 X 50 X 500MM CCA TREATED RADIATA PINE-SHARPENED AT ONE END. INSTALL IN LOCATIONS SHOWN ON THE DRAWINGS FLUSH TO FINISHED SURFACE LEVELS.

**TURF**
TURF ALL LANDSCAPE AREAS AS SHOWN ON THE LANDSCAPE DRAWINGS. TURF IS TO HAVE AN EVEN THICKNESS OF NOT LESS THAN 25MM. OBTAIN TURF FROM AN APPROVED GROWER. FURNISH A WARRANTY FROM THE GROWER THAT THE TURF IS FREE FROM WEEDS AND OTHER FOREIGN MATTER. DELIVER TURF TO THE SITE WITHIN 24 HOURS OF BEING CUT, AND LAY IT WITHIN 24 HOURS OF BEING DELIVERED.

TO PREPARE GRADED AREAS TO RECEIVE TURF, EXCAVATE THE AREA AND CULTIVATE SO AS TO ALLOW FOR IMPORTING OF 100MM OF TURF UNDERLAY SOIL. REMOVE ALL STONES OVER 50MM Ø AND REMOVE ALL WEEDS AND FOREIGN MATTER. SPREAD SOIL MIX A.B.S TO A DEPTH OF 100MM AND GRADE TO APPROPRIATE LEVELS TO ACHIEVE GENERAL EVEN GRADES TO DRAINAGE OUTLETS INSTALLED BY OTHERS.

LAY THE TURF ALONG THE LAND CONTOURS WITH STAGGERED, CLOSE BUTTED JOINTS, SO THAT THE FINISHED TURF SURFACE IS FLUSH WITH ADJACENT FINISHED SURFACES OF PAVING AND THE LIKE. AS SOON AS PRACTICABLE AFTER LAYING, ROLL THE TURF WITH A ROLLER WEIGHING NOT MORE THAN 90KG PER METRE OF WIDTH FOR SANDY OR LIGHT SOILS.

WATER AS NECESSARY TO KEEP THE SOIL MOIST TO A DEPTH OF 100MM. PROTECT NEWLY TURFED AREAS AGAINST TRAFFIC UNTIL GRASS IS ESTABLISHED. FERTILISE TWO WEEKS AFTER LAYING FERTILISE A.B.S

'TOP DRESS' THE TURF WHEN IT IS ESTABLISHED TO A DEPTH OF 10MM WITH COARSE WASHED RIVER SAND. RUB THE DRESSING WELL INTO THE JOINTS AND CORRECT ANY UNEVENNESS IN THE TURF SURFACES.

## 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, RESEEDING, 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. THE MAINTENANCE PERIOD SHALL COMMENCE AT PRACTICAL COMPLETION AND CONTINUE FOR A PERIOD OF TWENTY SIX (26) WEEKS.

**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 NOT EXCEEDING TWO (2) WEEKS 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**
TREES AND SHRUBS SHALL BE PRUNED AS DIRECTED BY THE LANDSCAPE ARCHITECT. PRUNING WILL BE DIRECTED AT THE MAINTENANCE OF THE DENSE FOLIAGE OR MISCELLANEOUS PRUNING AND BENEFICIAL TO THE CONDITION OF THE PLANTS. ANY DAMAGED GROWTH SHALL BE PRUNED. ALL PRUNED MATERIAL SHALL BE REMOVED FROM THE SITE.

**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.

**PEST AND DISEASED 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, DRESSING, 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**
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.

LEGEND

NOT FOR CONSTRUCTION

| Issue | Revision Description | Drawn | Check | Date |
|---|---|---|---|---|
| A | DEVELOPMENT APPLICATION | CD | MB | 15.08.2019 |
| B | DEVELOPMENT APPLICATION | RM | CD | 28.10.2019 |
| - | - | - | - | - |
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| - | - | - | - | - |

# SYDNEY OLYMPIC PARK SITES 2A + 2B

DEVELOPMENT APPLICATION

ECOVE

DRAWING NAME
**LANDSCAPE SPECIFICATION**

| JOB# | SHEET# | ISSUE | NORTH |
|---|---|---|---|
| 18-557 | 300 | B | |

SCALE NTS

ARCADIA
LANDSCAPE ARCHITECTURE

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