MCMSC, MORIAH COLLEGE
QUEENS PARK RD, QUEENS PARK, NSW 2022

LANDSCAPE DOCUMENTATION

S455

DRAWING REGISTER

Dwg No.	Drawing Title	Size	Scale
General			
LA-DA-00	Cover Page + Drawing Schedule	A1	N/A
LA-DA-01	Introduction	A1	N/A
LA-DA-02	Landscape Principles	A1	N/A
LA-DA-03	Landscape Strategy	A1	N/A
LA-DA-04	Delivery Stages	A1	N/A
LA-DA-05	Security & Circulation Strategy	A1	N/A
LA-DA-06	Canopy Area Analysis	A1	N/A
LA-DA-07	Landscape Area Analysis	A1	N/A
LA-DA-08	Open Space Area Analysis	A1	N/A
LA-DA-09	Stage 1A - Landscape Masterplan	A1	1:500
LA-DA-10	Stage 1B - Landscape Masterplan	A1	1:500
LA-DA-11	Stage 2 - Landscape Masterplan	A1	1:500
LA-DA-12	Landscape Sections	A1	1:200
LA-DA-13	Central Lawn - Detailed Landscape Plan	A1	1:200
LA-DA-14	Central Lawn - Landscape Summary	A1	N/A
LA-DA-15	Active Courts - Detailed Landscape Plan	A1	1:200
LA-DA-16	Active Courts - Landscape Summary	A1	N/A
LA-DA-17	Reflection Gardens - Detailed Landscape Plan	A1	1:200
LA-DA-18	Reflection Gardens - Landscape Summary	A1	N/A
LA-DA-19	Building + Atrium Gardens - Detailed Landscape Plan	A1	1:200
LA-DA-20	Building + Atrium Gardens - Landscape Summary	A1	N/A
LA-DA-21	Cultural Narrative	A1	N/A
LA-DA-22	Lighting, Safety & Security	A1	N/A
LA-DA-23	Materials & Furniture	A1	N/A
LA-DA-24	Planting Character	A1	N/A
LA-DA-25A	Stage 1 Tree Species Masterplan	A1	1:500
LA-DA-25	Stage 2 Tree Species Masterplan	A1	1:500
LA-DA-26	Planting Palette - Reflection Garden	A1	N/A
LA-DA-27	Planting Palette - Reflection Garden (cont)	A1	N/A
LA-DA-28	Planting Palette - Central Lawn & Walkways	A1	N/A
LA-DA-29	Planting Palette - Sports Courts & Terraces	A1	N/A
LA-DA-30	Planting Palette - Street Front, Entries & Building Courtyard	A1	N/A
LA-DA-31	Planting Palette - Roof Terraces	A1	N/A
LA-DA-32	Planting Palette - Early Learning Centre	A1	N/A
LA-DA-33	Planting Palette - Eastern Suburbs Banskia Shrub Buffer	A1	N/A
LA-DA-34	Maintenance Statement	A1	N/A
LA-DA-35	Maintenance Statement (cont)	A1	N/A
LA-DA-36	Maintenance Schedule	A1	N/A

LOCATION PLAN

Moriah College

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G	Amended Landscape SSDA Report	14.11.20	LB
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fjc studio
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T +61 2 9251 7077

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L-DA- 00

INTRODUCTION

The Moriah War Memorial College is an independent Modern Orthodox Jewish co-educational early learning, primary and secondary day school, located in Queens Park, an eastern suburb of Sydney, New South Wales, Australia. The college provides education from early learning through Kindergarten to Year 12.

This Landscape Masterplan Report has been prepared to guide the development of future landscape works and support the Architectural Masterplan and Urban Design Report Prepared by FJMT Architects. These documents have been prepared to support the school's core activities and guides the ongoing development of its unique environment which provides a memorable and positive learning, working and social experience for students, staff, alumni, family and guests of the college who visit the campus.

The needs of the school will continue to evolve over time, as reflected by strategic planning. It is important to provide a supporting physical plan that embraces a long term vision for the campus, with capacity to adapt to a changing academic environment.

It is also important to recognise and preserve the attributes of Moriah College that distinguish it as a unique place. The ongoing stewardship of the campus must balance retaining and preserving historically, environmentally, and culturally significant elements to maintain the schools identity and sense of place.

The intent of this document is to identify areas for consideration for new landscape works. This report has been structured to provide succinct comment that will be applicable to future external works. The objective is to establish a series of landscape guidelines and principles which will, in turn, inform the operational guidelines and the implementation through actual landscape projects.

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L-DA- 01

PRINCIPLE 1 - CREATE A SENSE OF COMMUNITY/ PLACE

A sense of place will be created by developing an environment that provides a unique and positive experience for everyone who uses the campus

The campus will be welcoming and will encourage a sense of belonging, while also enhancing the experience of learning, teaching and development. The campus's social and cultural amenities will support the school's inclusively.

PRINCIPLE 2 - CROSS CULTURAL NARRATIVE

It is important to recognise and preserve the attributes of Moriah College that distinguish it as a unique place. The ongoing development of the campus must balance retaining and preserving historically, environmentally, and culturally significant elements to maintain the schools identity and sense of place.

Preserving the heritage qualities and other assets that contribute To the understanding of cultural and historic significance is a primary objective. Incorporation of a cultural overlay within the landscape is critical to the educational platform of the landscape, including Indigenous, Australian and Jewish culture.

PRINCIPLE 3 - ACHIEVE ECOLOGICALLY SUSTAINABLE OUTCOMES

Moriah College has an opportunity to incorporate sustainability into its actions and practices, promoting a healthy workplace and campus for staff and students.

The campus will showcase environmentally sustainable design through environmental initiatives such as water sensitive urban design, managing and controlling runoff, encouraging the return of aerial and terrestrial wildlife through improved landscape habitat, and facilitate educational opportunities.

The campus will support the education of ecological sustainability, and facilitate active learning such as produce gardens, and visible water collection/treatment.

PRINCIPLE 4 - A FUNCTIONAL & CONNECTED SITE

The campus is readily accessible by public transport. The site will have a simple and legible pattern of open space that assists wayfinding. External spaces will respond to internal building function, and key sight lines and vistas will be maintained.

All modes of access will be appropriately designed to achieve equity and dignity.

PRINCIPLE 5 - SECURE & INVITING

The legibility of the campus relates to its overall spatial structure, particularly the pattern of open spaces and the clarity of the network of paths and entries that innately guide movement and orientation.

Clear connections between campus entrances and functional areas are fundamental. The development of a legible campus supports and improves the security and sense of safety for staff, students and visitors. Provision of clear sightlines, lighting and points of entries will improve passive surveillance of the campus and broader security.

PRINCIPLE 6 - LANDSCAPE FOR CURRICULUM

The landscape design will support the architectural scheme and the pedagogical ambition of the school to seamlessly integrate indoor and outdoor learning in support of the principal of biophilia.

A series of connected green spaces will offer a diversity of natural environments and opportunities for both free, unstructured play, as well as outdoor learning areas to support programmed classes. The distinctly green and connected campus will foster the development of smarter, more social, happier and healthier children.

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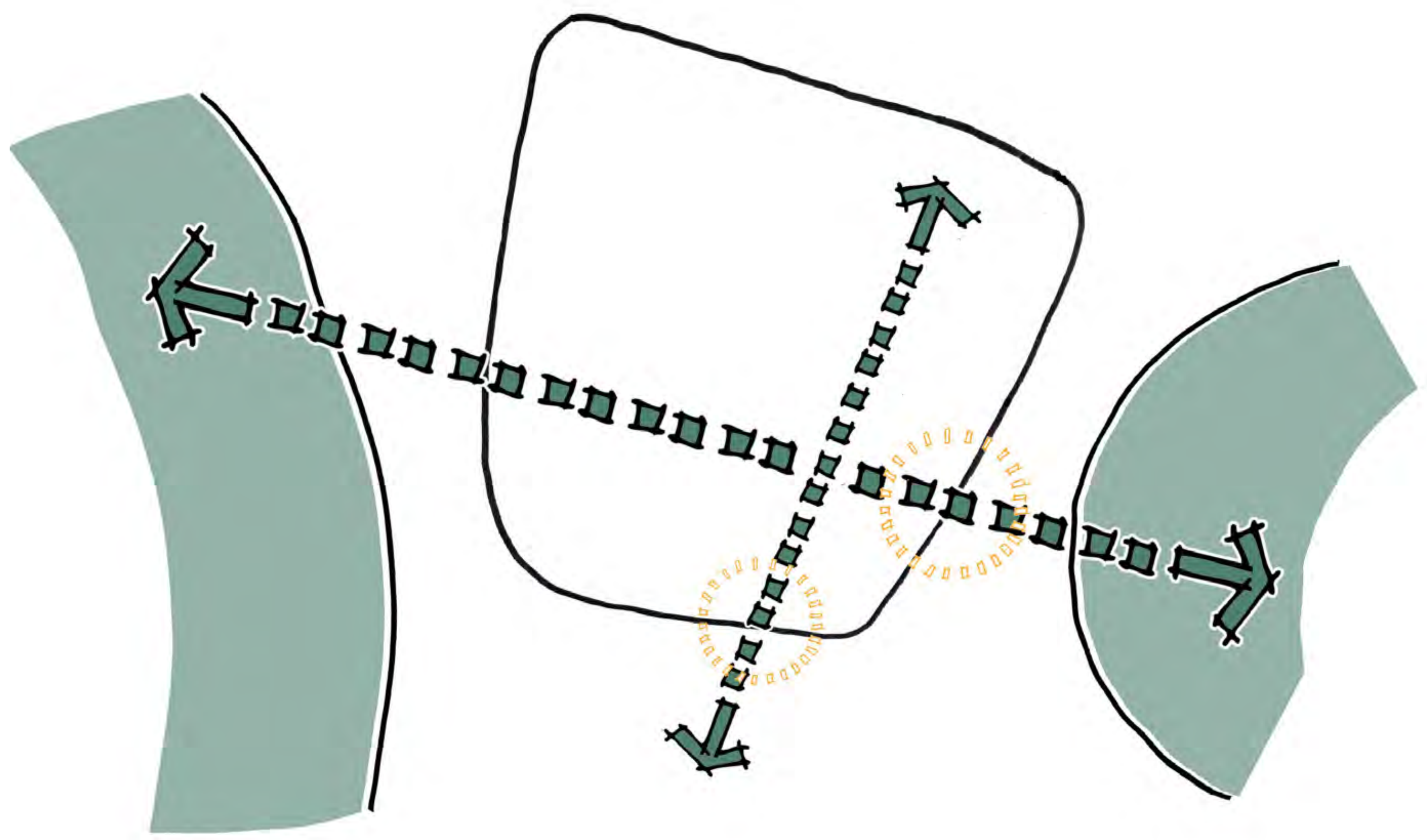
L-DA- 02

CLARITY OF ENTRIES & MOVEMENT

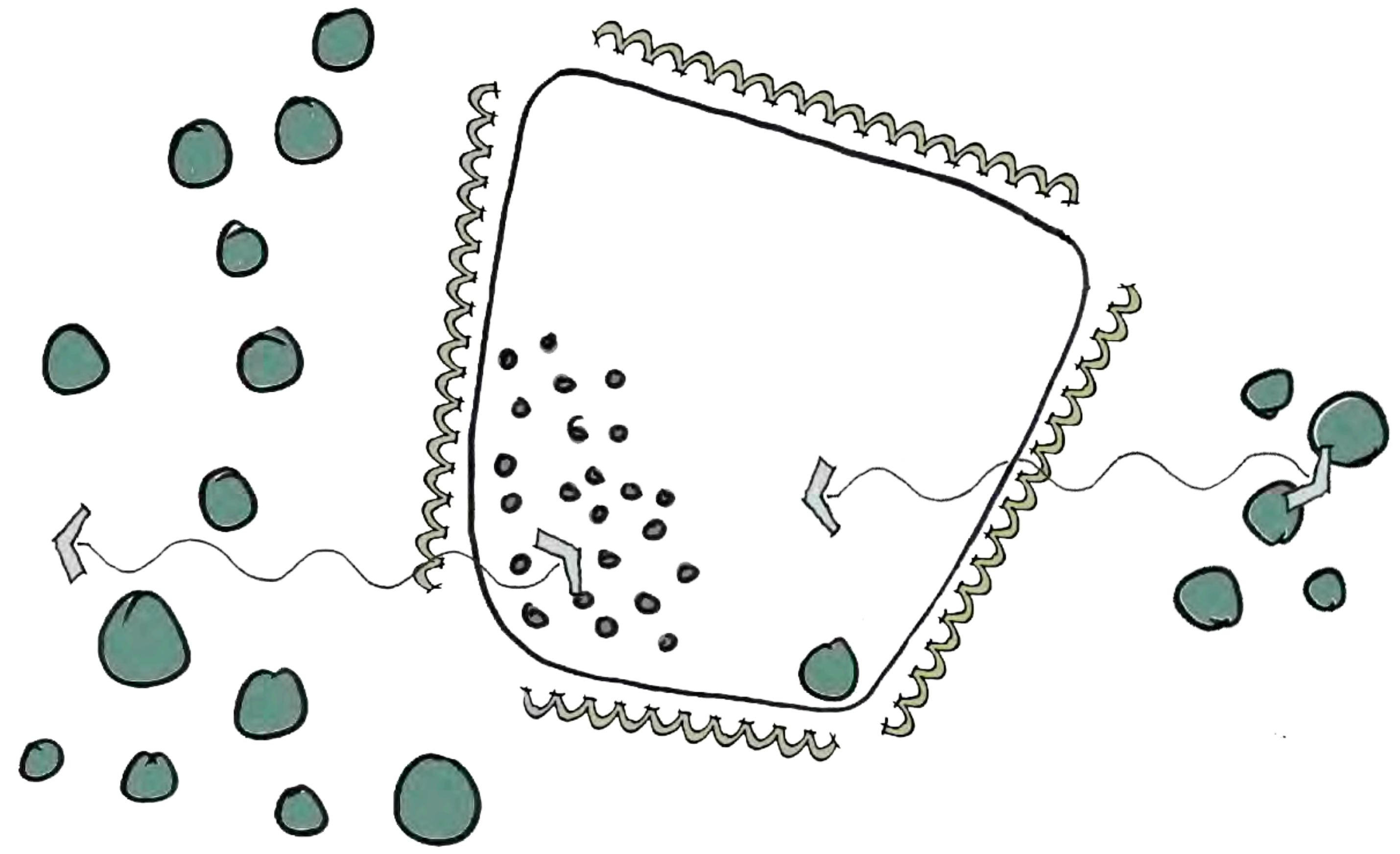


CLEAR ADDRESS AND ENTRIES

IMPROVED CIRCULATION / WAYFINDING

LEGIBLE PATTERN OF OPEN SPACE

SECURE & INVITING



SOFT + SECURE EDGES

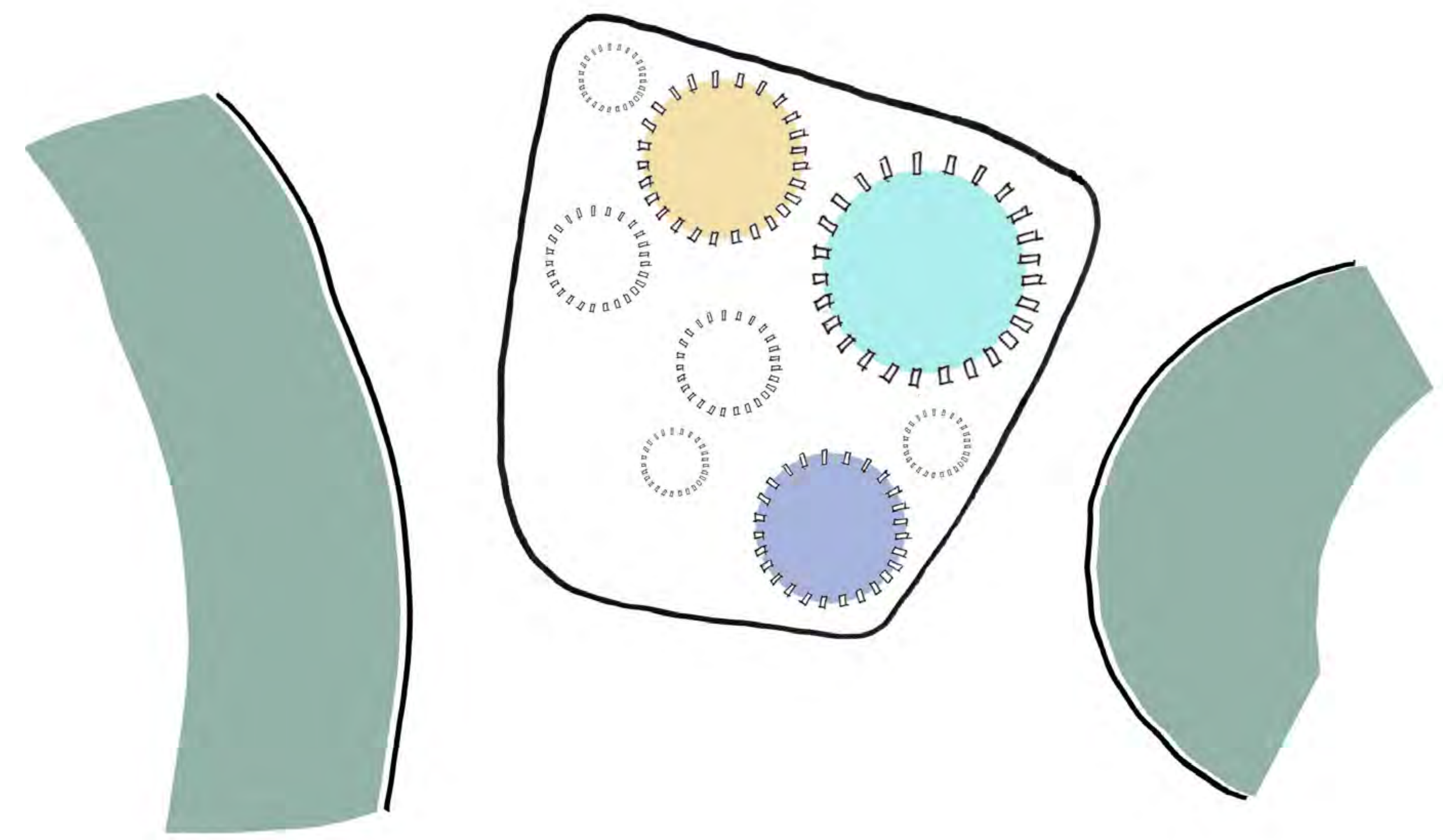
CLEAR INVITING ENTRY

SENSE OF ARRIVAL

WELCOMING

CONNECTION TO SURROUNDING LANDSCAPE

INTEGRATED PLAY



PLAY INCORPORATED INTO ALL ELEMENTS

LANDSCAPE FOR CURRICULUM

CROSS CAMPUS APPROACH

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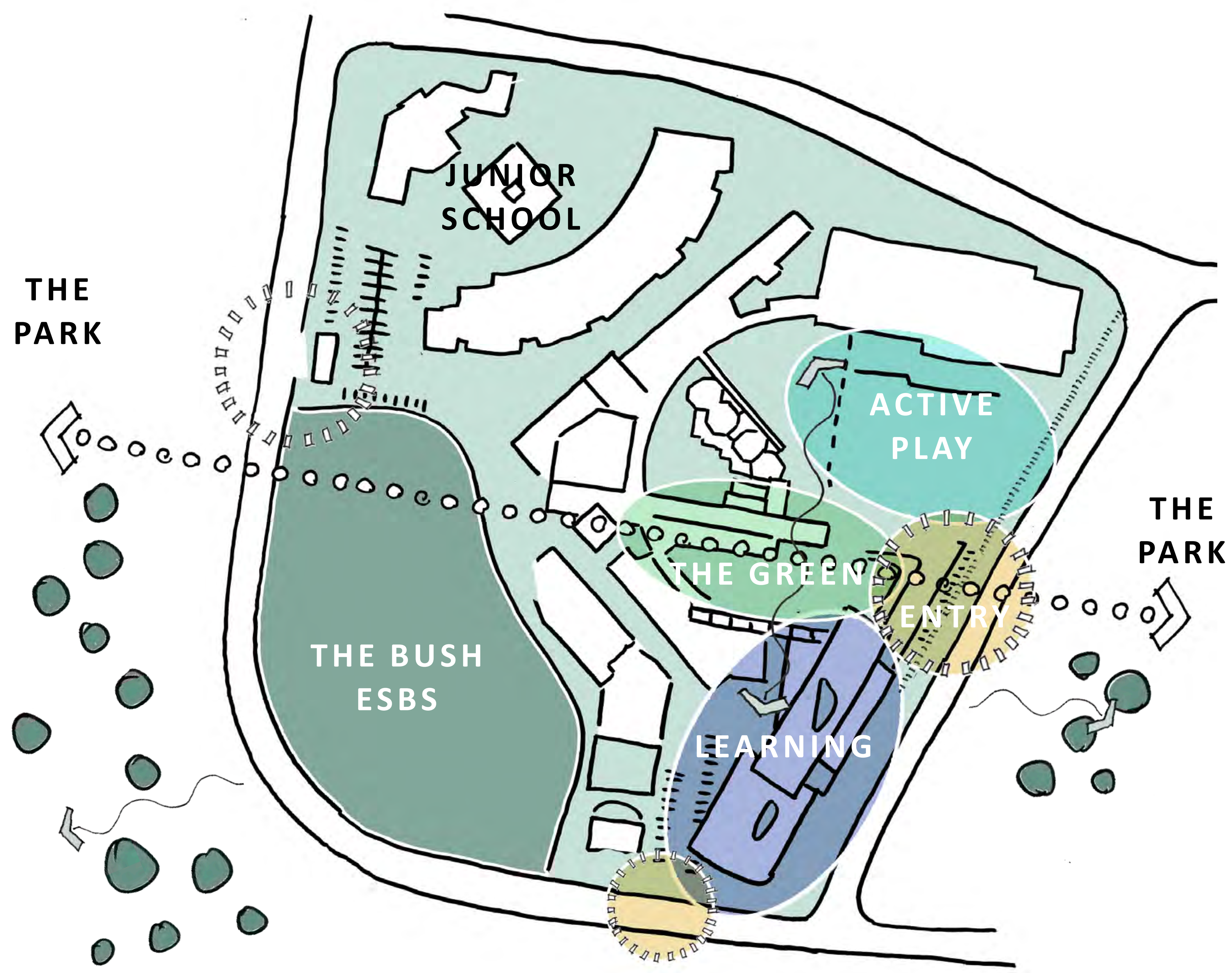
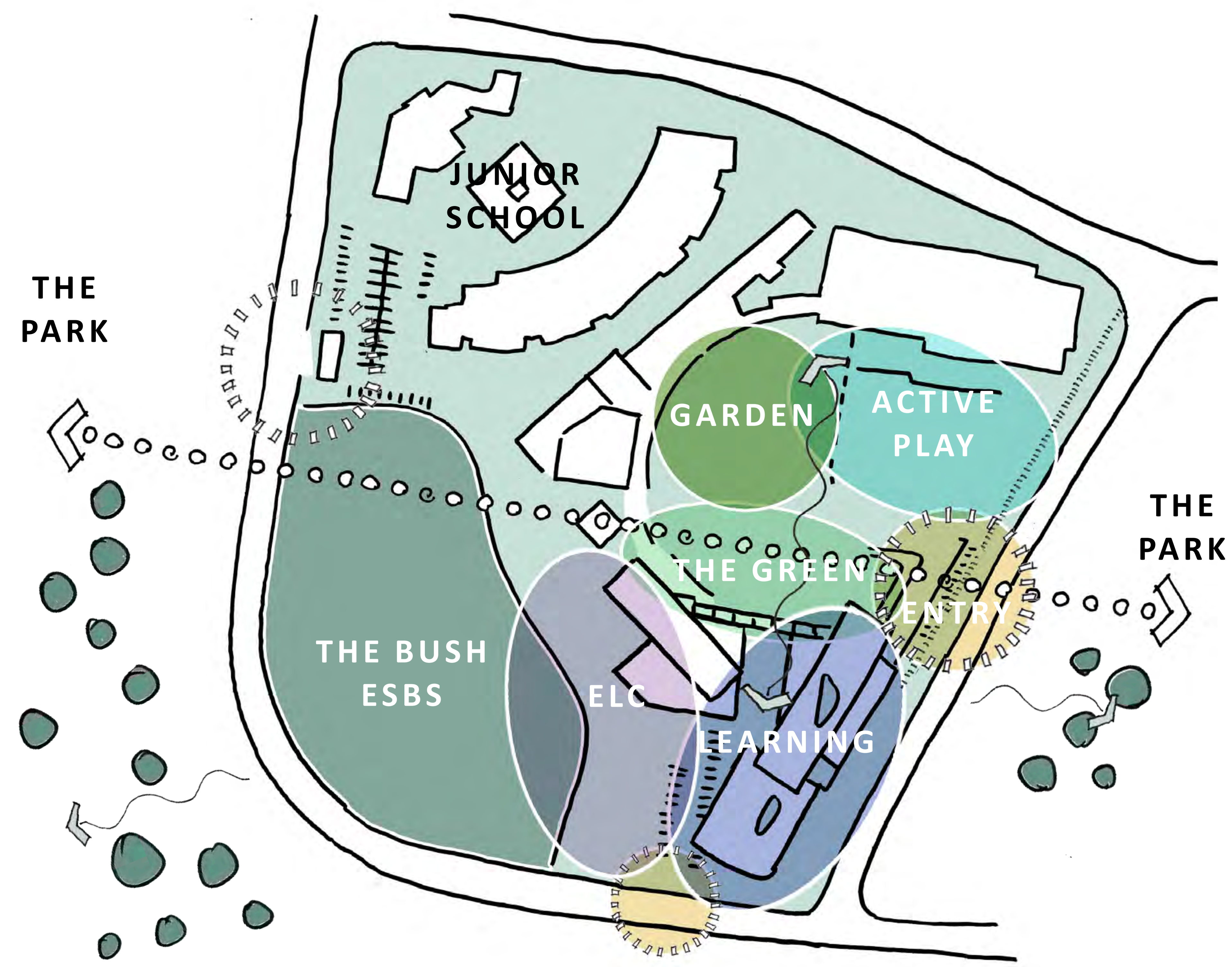
L-DA- 03

STAGE 1



STAGE 2



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DELIVERY STAGES

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L-DA- 04

SECURITY STRATEGY

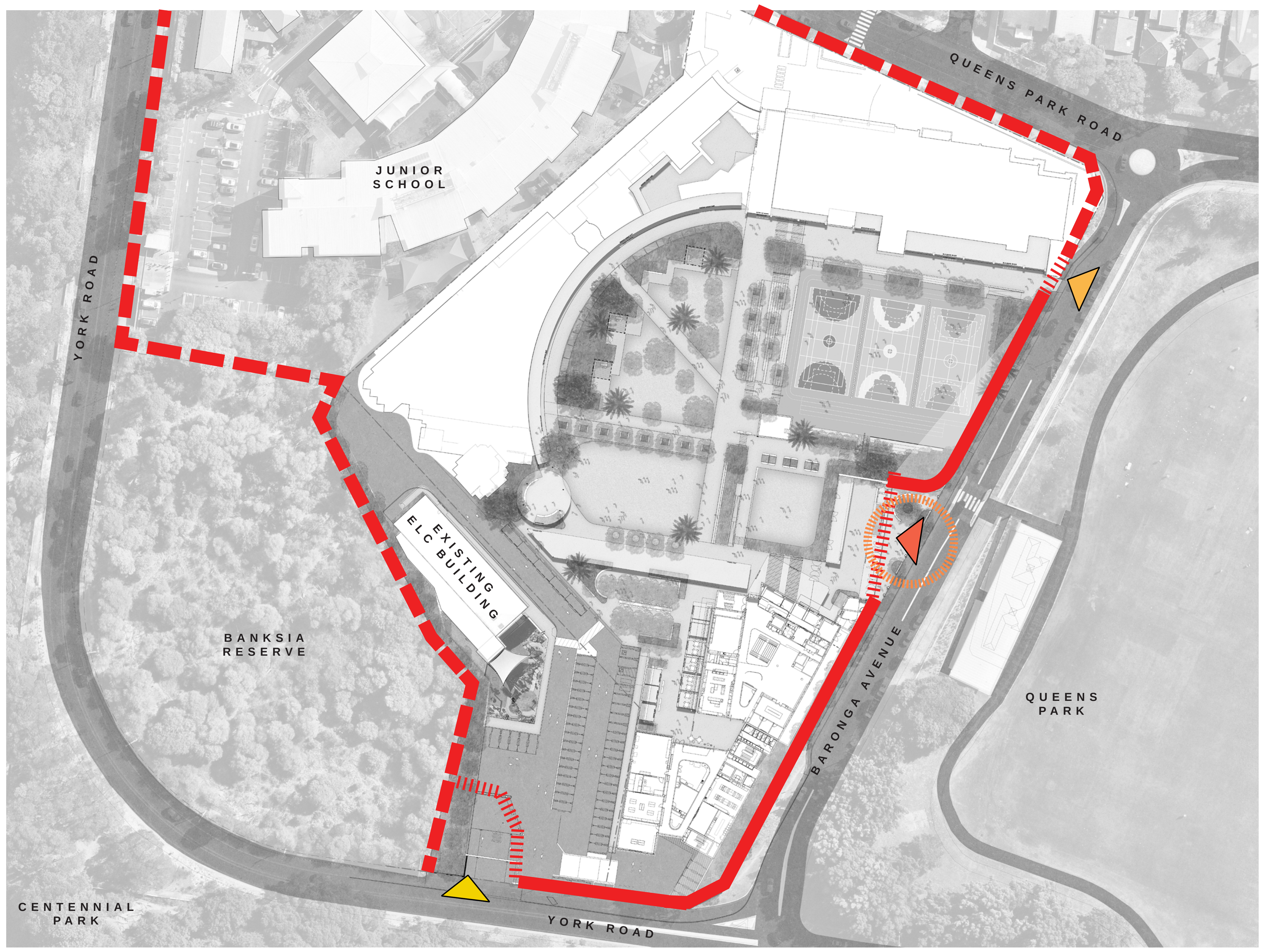
The legibility of the campus relates to its overall spatial structure, particularly the pattern of open spaces and the clarity of the network of paths and entries that innately guide movement and orientation. Legibility of the campus for the benefit of all students, staff and visitors through:

Clear and welcoming campus entries / address points and links to surrounding amenities (public transport etc)

- Clarity of paths and routes throughout the campus
- Clear definition of open space and function
- Achievement of good sight lines and visual connections
- High quality consistent signage across the campus

Clear connections between campus entrances and functional areas are fundamental. The development of a legible campus supports and improves the security and sense of safety for staff, students and visitors. Provision of clear sightlines, lighting and points of entries will improve passive surveillance of the campus and broader security.

Additional security treatments through perimeter fencing and wall treatments will provide physical protection to the school and improve legibility of secure entries.



LEGEND

- EXISTING SECURE LINE (FENCE / WALL)
- NEW SECURE LINE (WALL)
- SECURE ENTRY LINE
- VEHICLE ACCESS
- MAINTENANCE / SERVICE ACCESS
- PEDESTRIAN ACCESS
- MAIN SCHOOL ENTRY (SECONDARY SCHOOL)

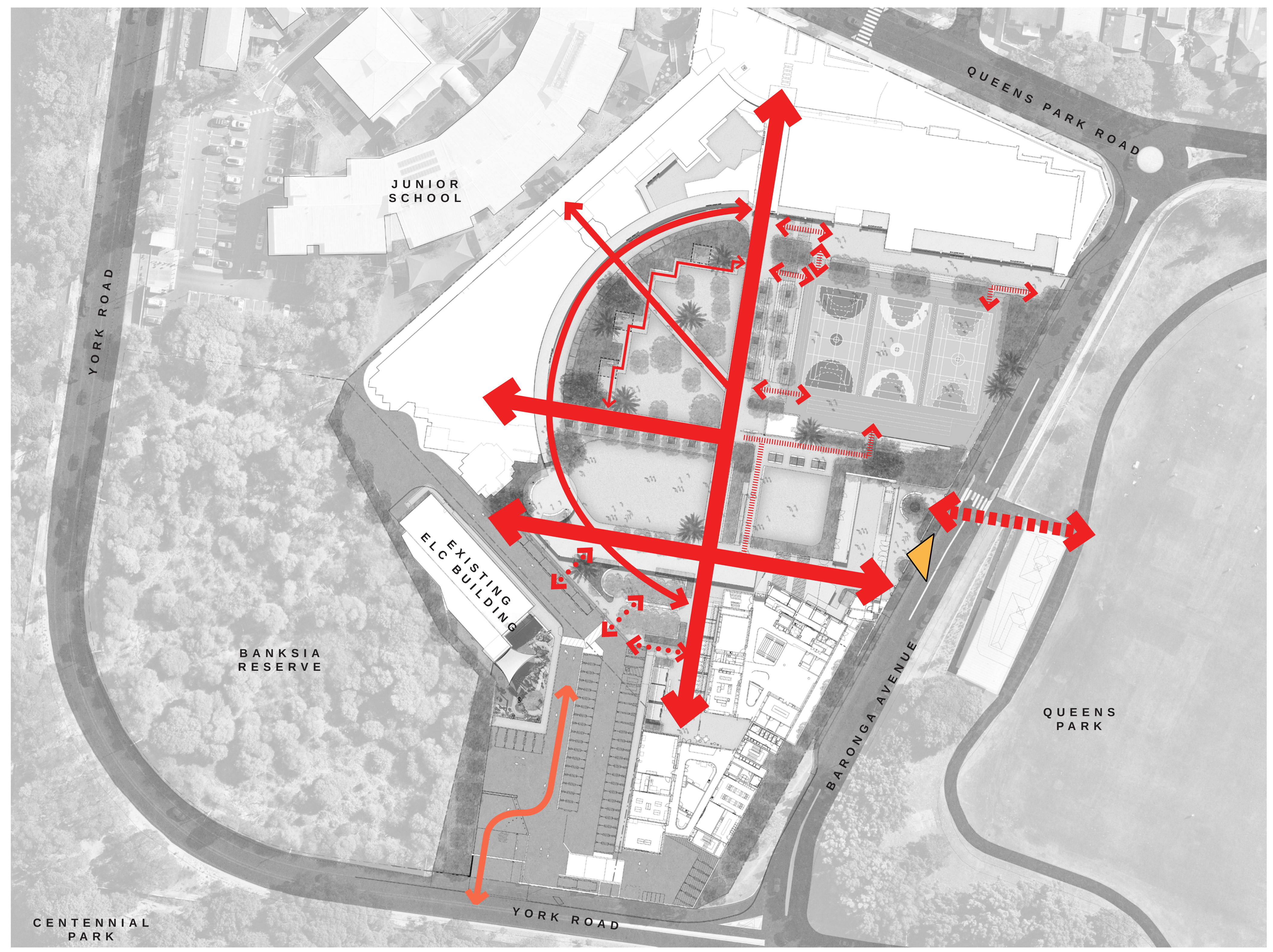
CIRCULATION STRATEGY

The sense of place of Moriah College is to be improved by supporting and enhancing its identity through respectful design. Existing physical features which already characterise the campus are to be supplemented with new memorable places to create a high quality and functional campus environment.

The legibility of the campus relates to its overall spatial structure, particularly the pattern of open spaces and the clarity of the network of paths and destinations. Legibility is to be reinforced by a series of spaces;

- Major gathering spaces (lawns, courts)
- Supportive gathering spaces (terraces, amphitheatres)
- Connective spaces for movement around the campus
- Contemplative spaces for quiet retreat and study

These areas will increase the quantum of open space, provide new foci in the spatial structure and life of the campus, and emphasise campus entrances. Clear connections between campus entrances and functional areas are fundamental.



LEGEND

- PRIMARY PEDESTRIAN PATHS
- PEDESTRIAN CONNECTION TO QUEENS PARK
- SECONDARY PEDESTRIAN PATHS
- STAIR + RAMP ACCESS
- STUDENT + CEREMONY DROP OFF
- VISITOR VEHICLE PATH
- MAIN PEDESTRIAN ENTRY

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L-DA- 05

CANOPY COVERAGE ANALYSIS

The following diagrams illustrate the existing canopy coverage to the senior school, and proposed canopy coverage for both Stage 1 and Stage 2 landscape works. The diagrams also provide an area calculation of net canopy coverage.
The proposed ladscape works achieve an increase canopy coverage of 5,672m² at the completion of Stage 2.

EXISTING SITE

30658m² Total Site Area
3860m² Canopy coverage
12.6% Canopy coverage of Total Site

STAGE 1

30658m² Total Site Area
9018m² Canopy coverage
29.4% Canopy coverage of Total Site

New Trees: 138

STAGE 2

30658m² Total Site Area
9204m² Canopy coverage
30% Canopy coverage of Total Site

New Trees: 143

S455 CHANGES

- Total Site Area corrected (previous calculation excluded the car park)
- Amended tree count and Canopy Coverage calculations
- Replacement of some trees with more smaller trees (e.g. Tristaniopsis, Elaeocarpus)

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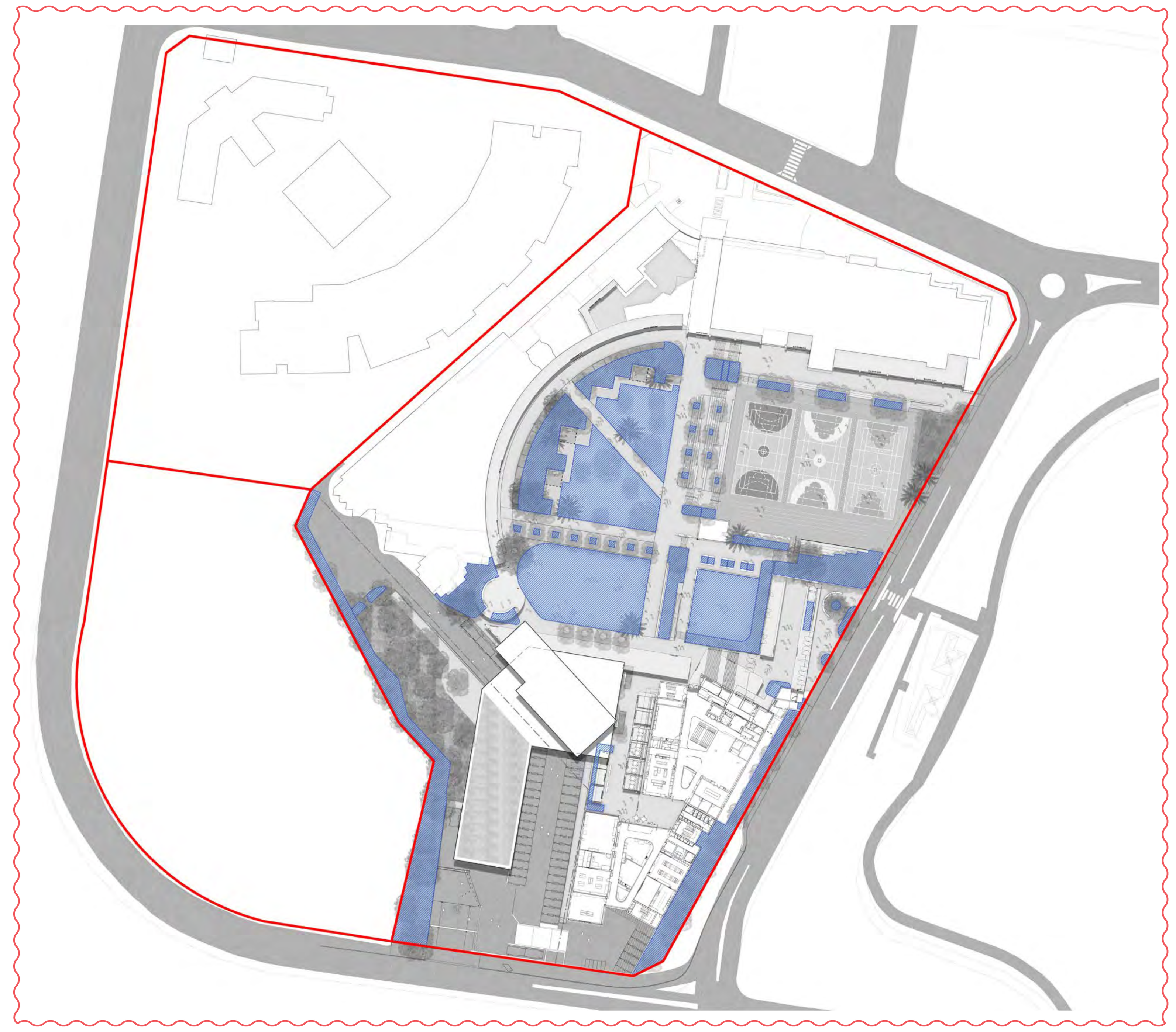
L-DA- 06

LANDSCAPE AREA ANALYSIS

The following diagrams illustrate the existing landscape (lawn + garden) coverage to the senior school, and proposed landscape coverage for both Stage 1 and Stage 2 landscape works. The diagrams also provide an area calculation of net landscape coverage.
The proposed ladscape works achieve an increase landscape coverage of 3,164m² at the completion of Stage 2.



EXISTING SITE

30658m² Total Site Area
4440m² Landscape coverage
14.5% Landscape coverage of Total Site

STAGE 1

30658m² Total Site Area
6489m² Landscape coverage
21% Landscape coverage of Total Site

STAGE 2

30658m² Total Site Area
7604m² Landscape coverage
24.8% Landscape coverage of Total Site

S455 CHANGES

- Total Site Area corrected (previous calculation excluded the car park)
- Amended calculations

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SECURITY + CIRCULATION STRATEGY
PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 146 901 322

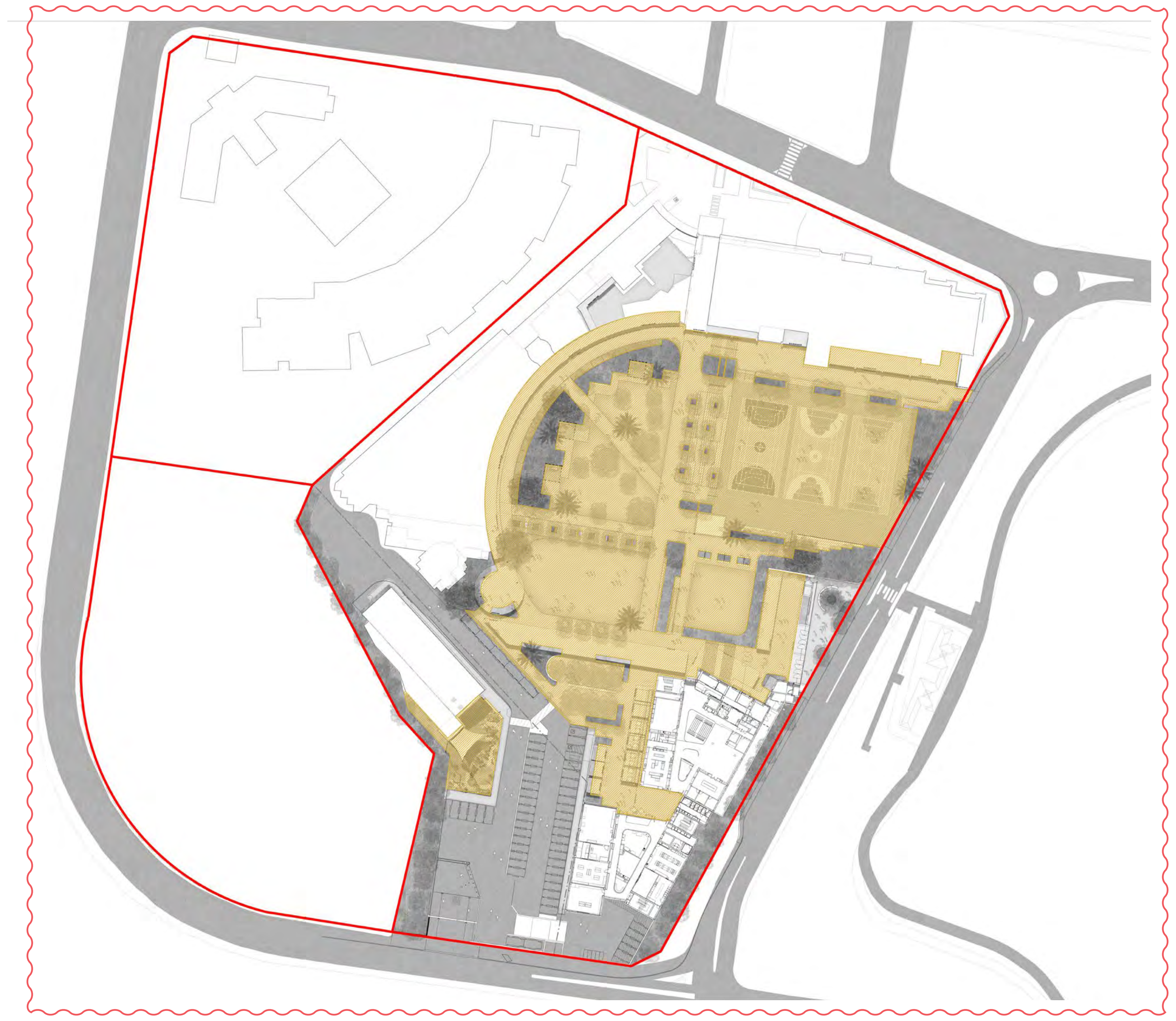
L-DA- 07

OPEN SPACE AREA ANALYSIS

The following diagrams illustrate the existing usable open space area available to the senior school students, and proposed open space area for both Stage 1 and Stage 2 landscape works. The diagrams also provide an area calculation of net open space area.
The proposed ladscape works achieve an increase open space area of 6,596m² at the completion of Stage 2.

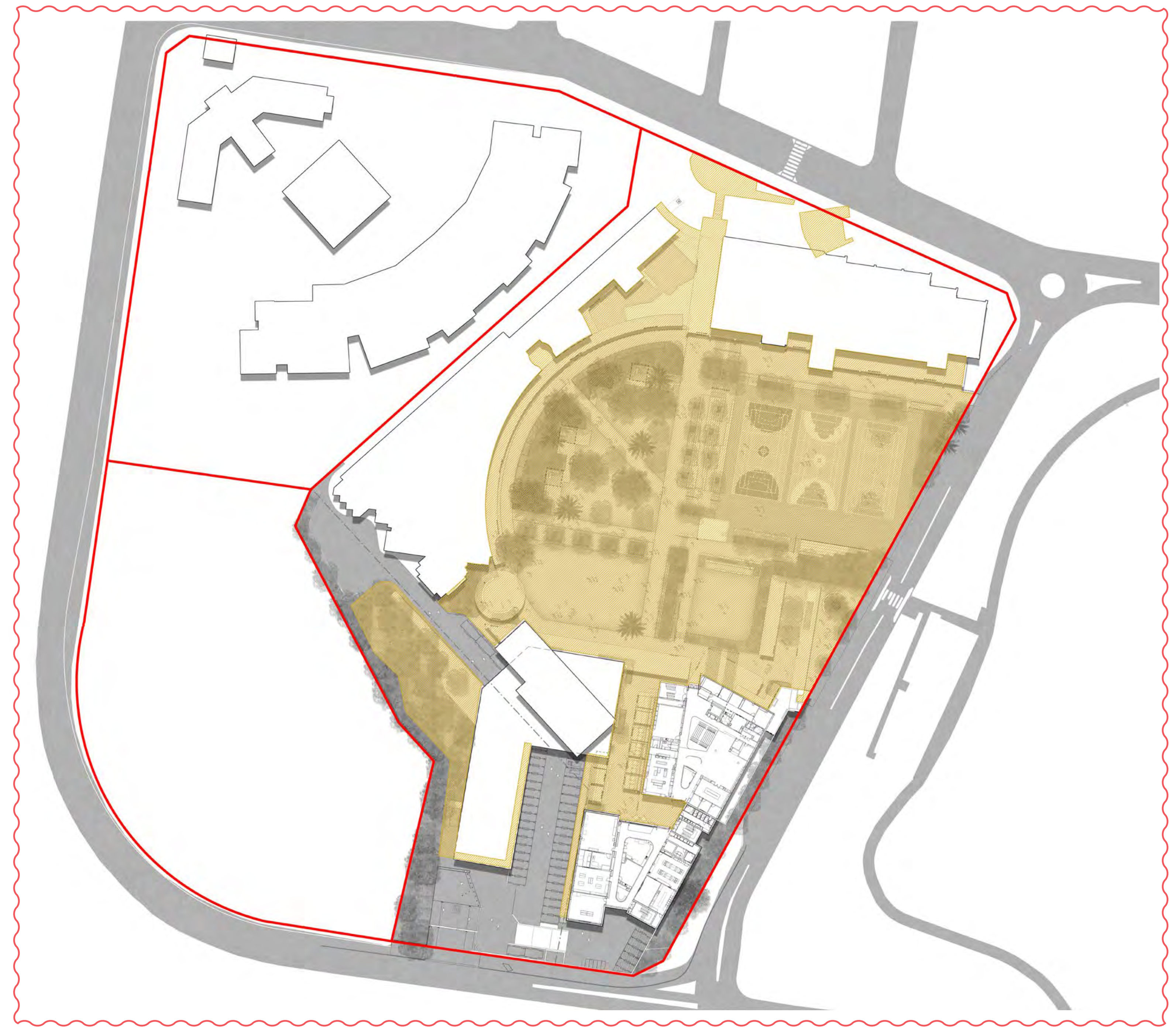
EXISTING SITE

30658m² Total Site Area
8760m2 Open Space coverage
28.5% Open Space of Total Site



STAGE 1

30658m² Total Site Area
15805² Open Space coverage
51.5% Open Space of Total Site



STAGE 2

30658m² Total Site Area
15356m² Open Space coverage
50% Open Space of Total Site

S455 CHANGES

- Total Site Area corrected (previous calculation excluded the car park)
- Amended calculations

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J	Amended S455 - Address Council Comments	25.06.25	LB
K	S455 Modification	16.01.26	GD
L	S455 Modification	20.01.26	GD

ARCHITECT
fjc studio
Level 5, 70 King Street
Sydney, NSW, 2000, AUS
T +61 2 9251 7077

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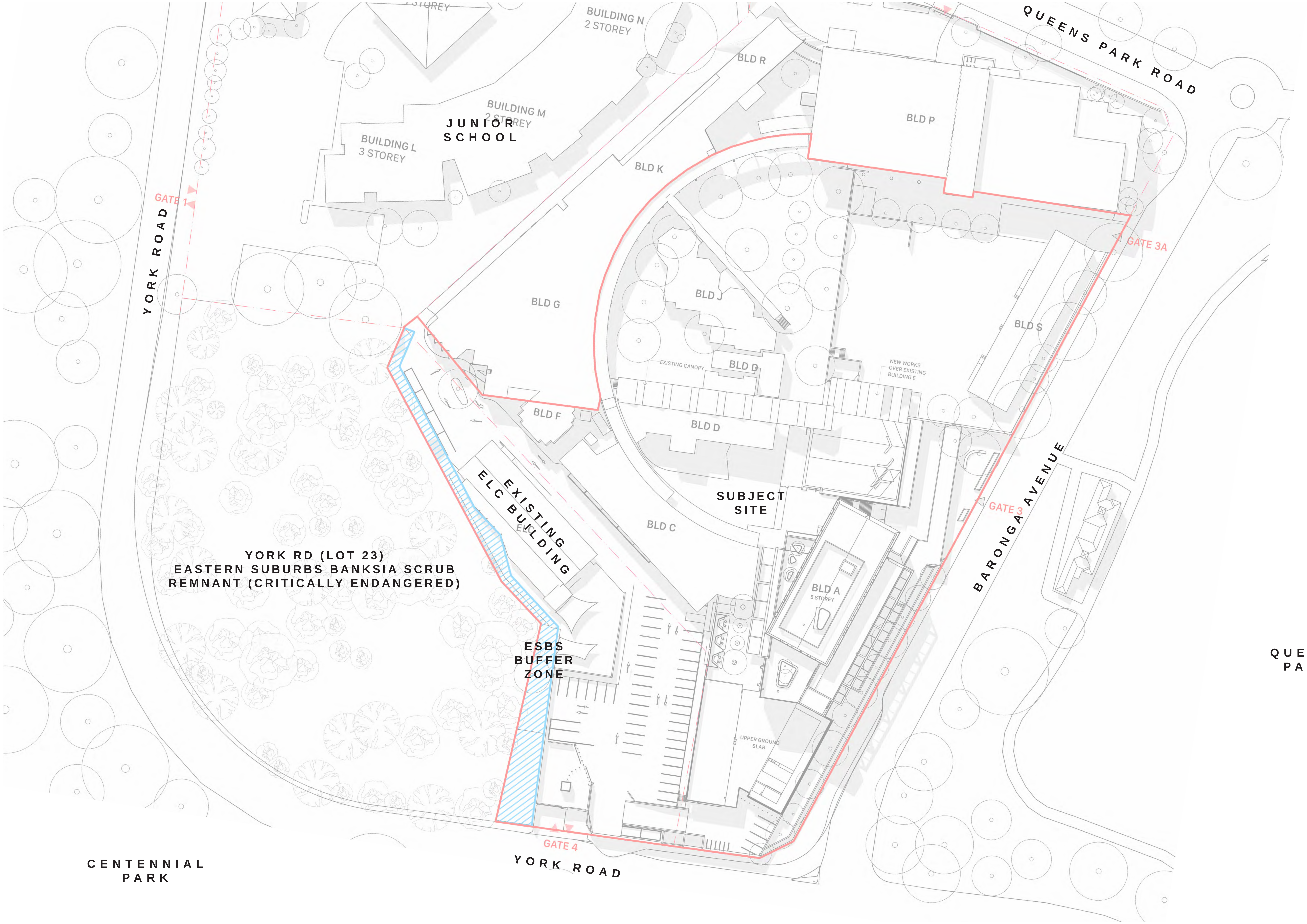

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fjc studio

Level 5, 70 King Street
Sydney, NSW, 2000, AUS
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STAGE 1A - ARCHITECTURAL PLAN

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fjc studio

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STAGE 1 - LANDSCAPE MASTERPLAN

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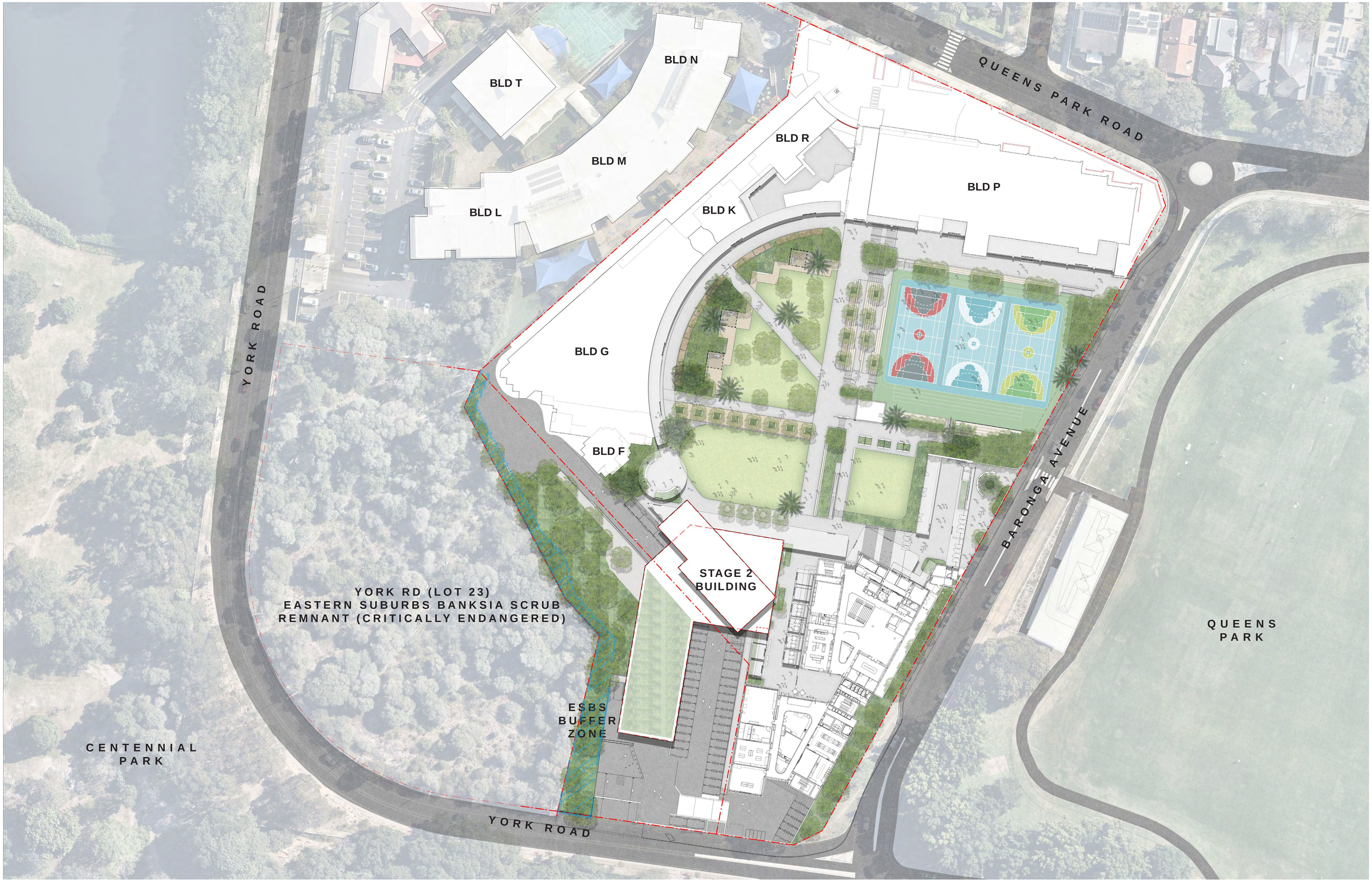

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fjc studio

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STAGE 2 - LANDSCAPE MASTERPLAN

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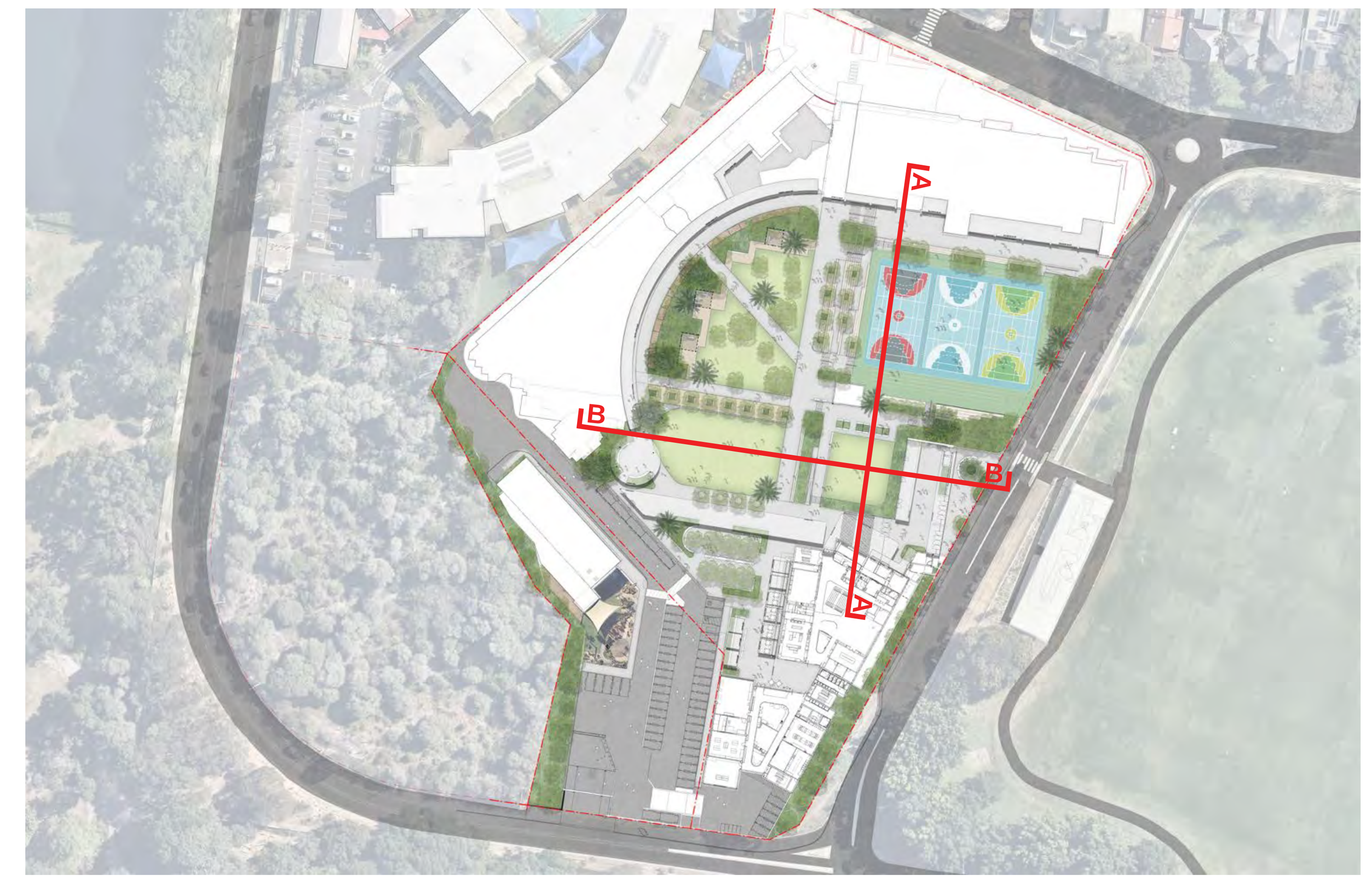
L-DA- 11

LEGEND

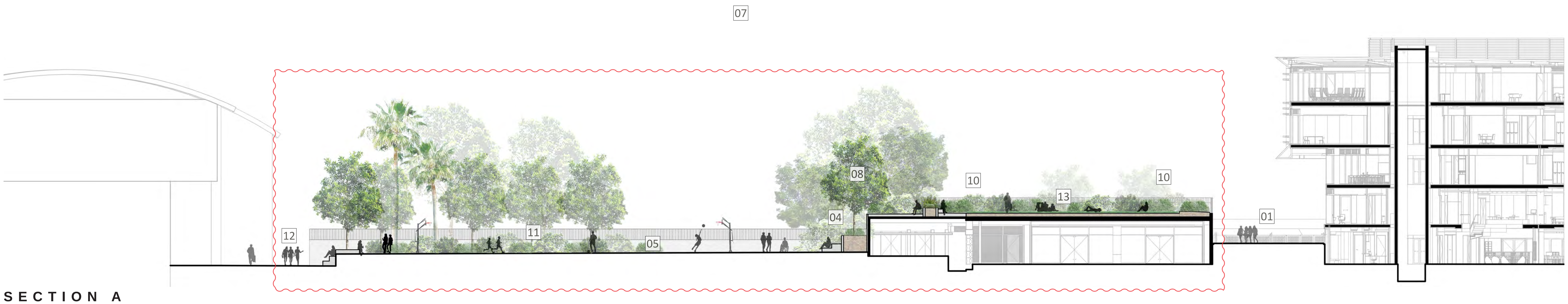
1 MAIN SCHOOL ENTRY GATES OFF BARONGA AVENUE
2 PUBLIC FORECOURT TO SCHOOL ENTRY WITH LARGE CULTURALLY SIGNIFICANT FEATURE TREE AND SEATING AROUND
3 INTERNAL FORECOURT TO SCHOOL TO ACCOMMODATE GATHERINGS FOR EVENTS AND ENGAGEMENTS, AS WELL AS DAILY SCHOOL ACTIVITY AND STUDENT ARRIVALS.
4 LANDSCAPE EDGE PLANTED WITH NATIVE GRASSES AND SHRUBS
5 FORMAL SPORTS COURTS (PAINTED CONCRETE)
6 CENTRAL SCHOOL CONCOURSE AND AXIS PATH
7 ~~RAISED SEATING PLATFORMS WITH MIXED~~ SEATING OPPORTUNITY FOR GROUP AND INDIVIDUAL USE ACCENTED BY CENTRAL GARDEN BEDS
8 AVENUE OF TREES WHICH STRENGTHEN THE AXIAL PATH CONNECTIONS WHILE PROVIDING SHADE TO SEATING AND SEPARATION BETWEEN FUNCTIONAL USES OF THE CAMPUS
9 LARGE CENTRAL LAWN PROVIDING STUDENTS WITH SPACE FOR SOCIAL GATHERING, PLAY AND RESPITE. THE CENTRAL LAWN WILL ALSO SUPPORT SCHOOL EVENTS, PERFORMANCES, ASSEMBLIES AND CEREMONIES
10 RAISED EASTERN END OF LAWN PROVIDES TERRACED SEATING WITH VIEWS OF QUEENS PARK
11 GARDEN WITH NATIVE TREES, SHRUBS AND GROUNDCOVERS TO PROVIDE SHADE, AMENDITY AND SURFACE RUNOFF FROM COURTS
12 MAINTENANCE AND SERVICE VEHICLE ACCESS GATES
13 EASTERN LAWN OVER HALL BELOW. PROVIDES A PASSIVE LAWN SPACE FOR STUDENT GATHERING AND OCCUPATION. LAWN CAN ALSO ACCOMMODATE SMALLER EVENTS SEPARATE TO THE MAIN LAWN

S455 CHANGES

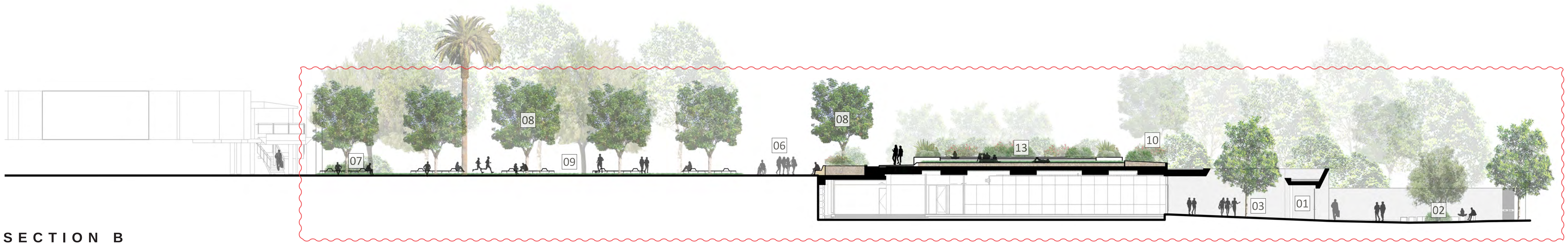
- 01 - Green roof removed off entry and awning to Auditorium
- 11 - Seating terrace beyond replaced with Garden
- Rationalised seating terraces surrounding sports courts
- Rationalised trees and planters over Auditorium



KEY PLAN



SECTION A



SECTION B

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SECTIONS

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w www.360.net.au
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L-DA-12

LEGEND

1. MAIN SCHOOL ENTRY GATES OFF BARONGA AVENUE WITH GARDENS ON GRADE
2. PUBLIC FORECOURT TO SCHOOL ENTRY WITH LARGE CULTURALLY SIGNIFICANT FEATURE TREE AND SEATING AROUND
3. INTERNAL FORECOURT TO SCHOOL TO ACCOMMODATE CONGREGATION OF PEOPLE FOR EVENTS ASSOCIATED WITH THE HALL, AS WELL AS DAILY SCHOOL ACTIVITY AND STUDENT ARRIVALS.
4. LANDSCAPE EDGE PLANTED WITH NATIVE GRASSES AND SHRUBS
5. PRIMARY ACCESS STAIR TO MAIN SCHOOL GROUNDS (BUILDING OVER)
6. CENTRAL SCHOOL CONCOURSE AND AXIS PATH
7. ~~RAISED SEATING PLATFORMS WITH MIXED~~ SEATING OPPORTUNITY FOR GROUP AND INDIVIDUAL USE ACCENTED BY CENTRAL GARDEN BEDS
8. AVENUE OF TREES WHICH STRENGTHEN THE AXIAL PATH CONNECTIONS WHILE PROVIDING SHADE TO SEATING AND SEPARATION BETWEEN FUNCTIONAL USES OF THE CAMPUS
9. LARGE CENTRAL LAWN PROVIDING STUDENTS WITH SPACE FOR SOCIAL GATHERING, PLAY AND RESPITE. THE CENTRAL LAWN WILL ALSO SUPPORT SCHOOL EVENTS, PERFORMANCES, ASSEMBLIES AND CEREMONIES
10. RAISED EASTERN END OF LAWN PROVIDES PASSIVE AND INFORMAL LAWN FOR STUDENT GATHERING AND OCCUPATION (HALL UNDER, REFER ARCHITECTURAL PLANS)
11. SUNKEN TERRACE TO INFORMAL PERFORMANCE SPACE AND POINT OF ADDRESS PROVIDES ADDITIONAL SEATING OPPORTUNITY AND NECESSARY TOPOGRAPHY FOR A FUNCTIONAL AMPHITHEATRE
12. NEW AWNING PROVIDING WET WEATHER PROTECTION FOR STUDENT MOVEMENT
13. FEATURE CEREMONIAL TREE WITH CURVED PERIMETER SEAT
14. NEW INTERNAL SERVICE ROAD AND PARKING
15. EXISTING AWNING TO BE RETAINED
16. CULTURALLY SIGNIFICANT INTERPRETIVE ARTWORK AND INFORMATION TO THE PUBLIC FACING PERIMETER WALL. ARTISTIC REPRESENTATION OF THE SCHOOLS 5 CORE VALUES, COMMITMENT, RESPECT, KINDNESS, INTEGRITY, RESPONSIBILITY.

    ADDITIONALLY THE WALL ART WILL REPRESENT THE CROSS CULTURAL NARRATIVE OF INDIGENOUS, AUSTRALIAN AND JEWISH CULTURES
17. PLANTING OF CULTURALLY SIGNIFICANT PHOENIX DACTYLIFERA (DATE PALM)
18. RAISED PLANTER WITH SEATS, SHRUBS AND GROUNDCOVERS
19. ACCESS RAMP
20. FLUSH GARDEN BEDS AND VEHICLE DETERRENT WALLS ALONG BOUNDARY WITH MAX 1.8M GAPS
21. BUILDING ENTRY

KEY PLAN

S455 CHANGES

- 01 - Green roof removed from Gate 3 Entry. Flush garden in ground added under awning
- 03 - Additional trees and gardens in entry forecourt
- 04 - Garden removed from awning (adjacent to number 04)
- 07 - Timber platforms replaced by bench seating
- 12 - Circular seating wall co-ordinated around Architect's Awning
- 18 - Trees removed above substation and replaced by seats and raised planter with shrubs and groundcovers
- 19 - Access ramp added
- 20 - Entry enhanced with flush garden beds, additional trees and vehicle deterrant walls

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DWG. TITLE
CENTRAL LAWN - DETAILED LANDSCAPE PLAN

PROJECT
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w www.360.net.au
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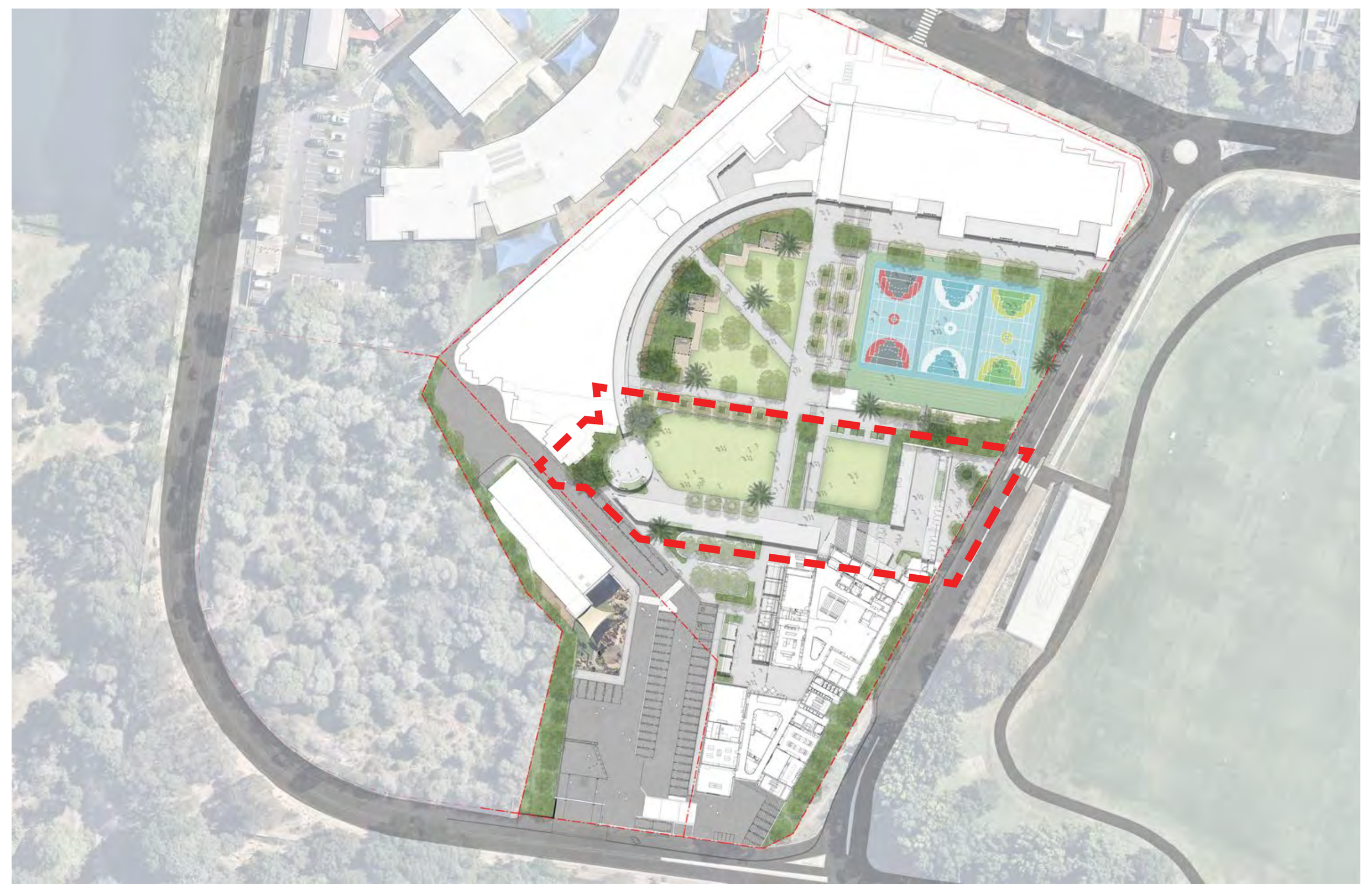

KEY PLAN

The Central Green forms the heart of the campus, conveying students between classes, accommodating outdoor learning, supporting social spaces and facilitating ceremonial gatherings, assembly and performances.

Adjacent to key access routes, slow speed - movement on edges, the lawn provides multiple opportunities for seating, both on the lawn and the perimeter edge while a diagonal path enables direct pedestrian movement across site. The lawn gently tilts from east to west creating a subtle amphitheatre, with the level change at the perimeter creating terraces, raised at the eastern end strengthening views and connection to Queens park, and sunken at the western end to create a stage/dais to support performance and ceremonial events.

Complementary to the central lawn is a an spine of informal and playful seating opportunities beneath an avenue of native tree planting. These seats provide a central congregation point with direct connection to the lawn. This combination of spaces enables various activities to be undertaken, including study, social gathering, events, classes and performances. Each contributing to a vibrant and social campus heart.

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CENTRAL LAWN - LANDSCAPE SUMMARY

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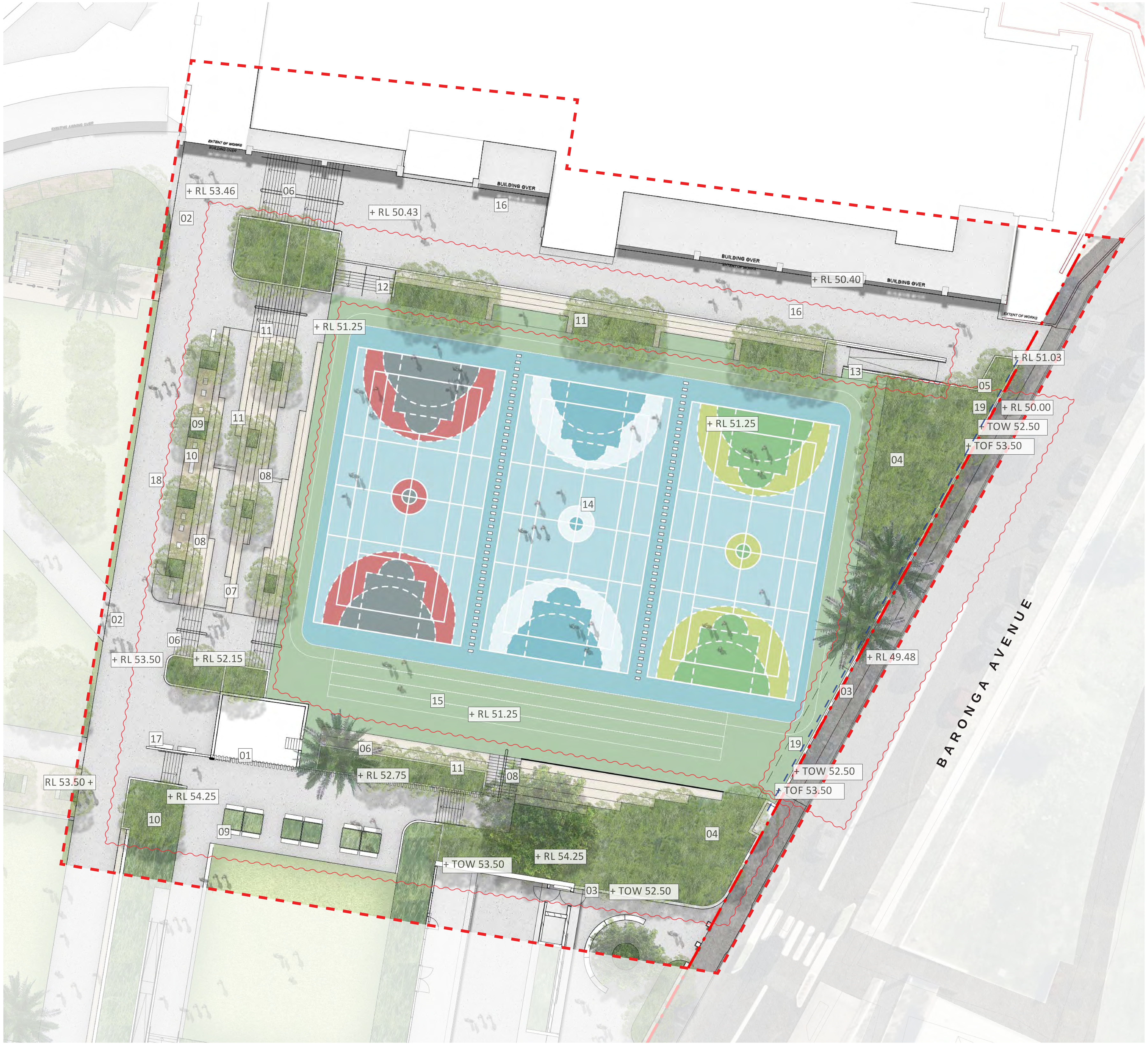

KEY PLAN

LEGEND

1 EXISTING SUBSTATION BUILDING
2 CENTRAL SCHOOL CONCOURSE AND AXIS PATH
3 PERIMETER SECURITY WALL TO SCHOOL CAMPUS WITH INTEGRATED CULTURAL NARRATIVE AND ARTISTIC REPRESENTATION OF THE SCHOOLS 5 CORE VALUES
4 LANDSCAPE EDGE PLANTED WITH NATIVE GRASSES AND SHRUBS
5 MAINTENANCE AND SERVICE VEHICLE ACCESS GATES
6 STAIR ACCESS DOWN TO PLAYING COURTS
7 SWITCHBACK RAMP ACCESS TO PLAYING COURTS
8 TERRACED PLATFORMS OF VARYING WIDTHS AND SIZES FOR VARIED GROUP SEATING, CLASS ADDRESS, AND SPECTATING
9 RAISED PLANTER WITH SEATS, SHRUBS & GROUNDCOVERS
10 AVENUE OF TREES WHICH STRENGTHEN THE AXIAL PATH CONNECTIONS WHILE PROVIDING SHADE TO SEATING AND SEPARATION BETWEEN FUNCTIONAL USES OF THE CAMPUS
11 TREES WITHIN TERRACES TO PROVIDE SHADE
12 EXTENSION OF TERRACES TO LEVEL TRANSITION BETWEEN SPORTS COURTS AND LOWER EXISTING COURT YARD FRONTING BUILDING P
13 RAMPED ACCESS UP TO COURTS FOR SERVICE VEHICLE ACCESS
14 FORMAL SPORTS COURTS (PAINTED CONCRETE) - 3 X PAINTED BASKETBALL/NETBALL COURTS AND 2 X TENNIS COURTS. PROVISION FOR NETTING TO BE DRAWN ACROSS AND SEPARATE COURTS
15 INFORMAL SPORTS (ARTIFICIAL LAWN), WITH VARIED LINE MARKINGS FOR INTERPRETIVE PLAY, GAMES, AND APPLIED TEACHING
16 EXISTING COURTYARD TO THE FRONT OG BUILDING P
17 LARGE CULTURALLY SIGNIFICANT SHADE TREE
18 AVENUE OF SHADE TREES ALONG THE MAIN AXIAL PATH PROVIDING SHADE TO THE SPORTS COURT TERRACES FROM THE WESTERN SUN
19 1M BLACK PALISADE FENCE ON TOP OF SECURITY WALL

S455 CHANGES

- Rationalised seating terraces, stairs and planters to suit updated site survey to all sides of sports courts
- 03 - Perimeter Wall Height reduced
- 11 - Seating terrace removed. Garden increased
- 19 - Palisade fence added on top of wall along courts

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DWG. TITLE
ACTIVE COURTS - DETAILED LANDSCAPE PLAN

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w www.360.net.au
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L-DA-15

KEY PLAN

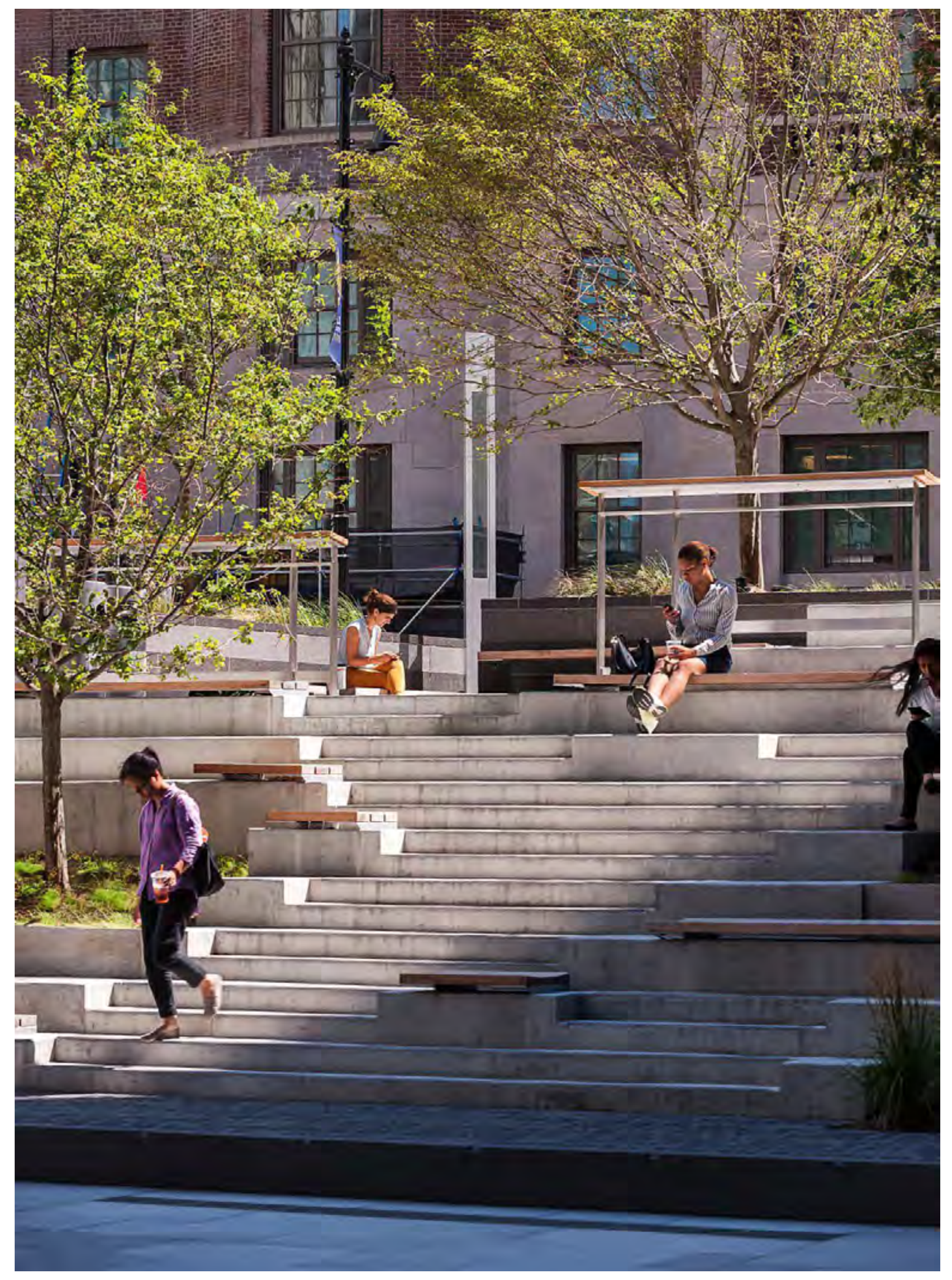
The campus masterplan and delivery of the new STEAM building provides an opportunity to establish a central active sports centre for the school, consolidating all sports courts into a single location. The active centre replaces 2 existing courts located adjacent the existing school gymnasium/pool building, enabling direct relationship to the building function, and positioning all the schools active pursuits away from passive use spaces, such as classrooms, library, gardens/lawns etc.

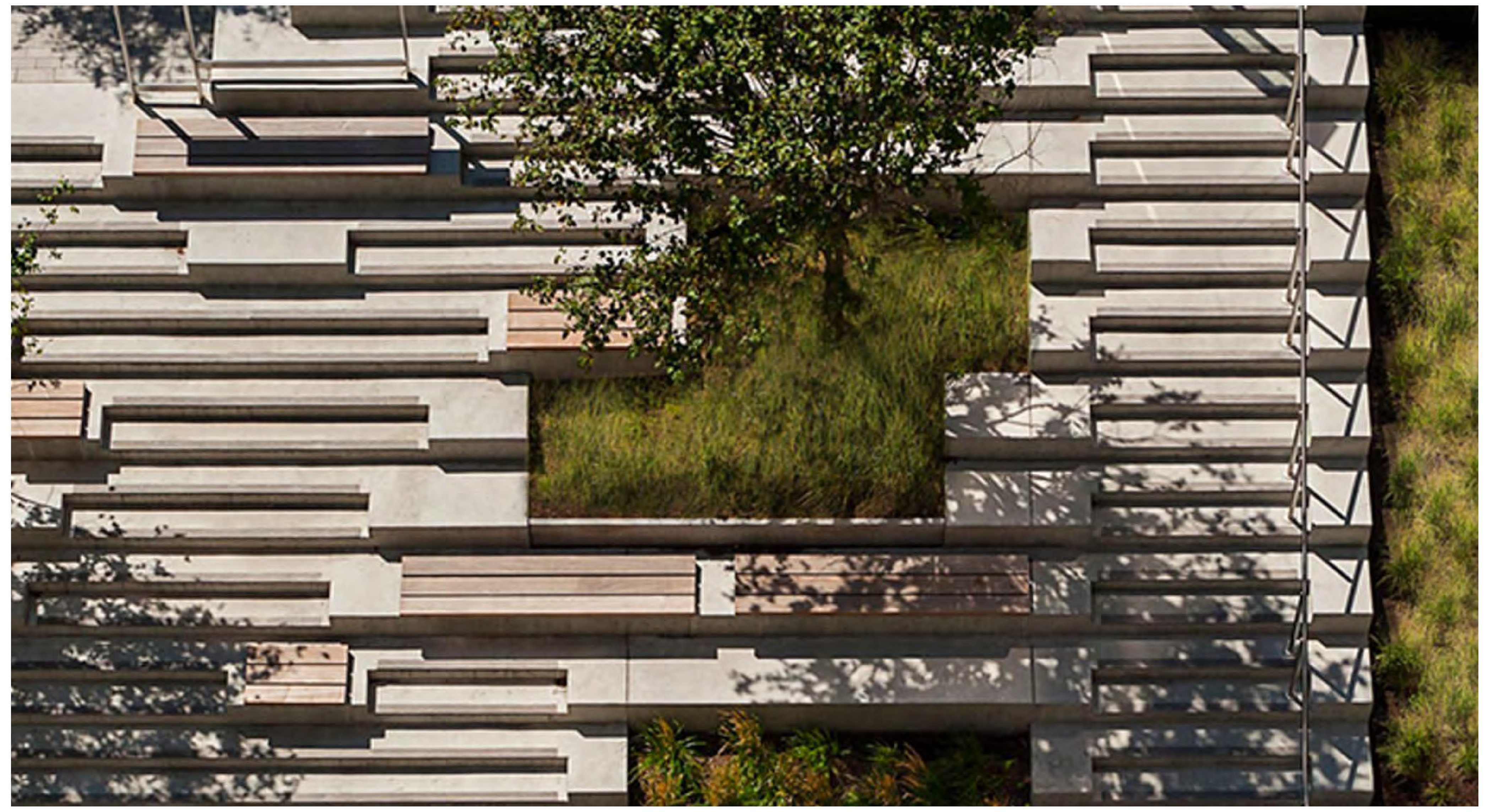
Restoration of the existing sports courts includes expansion from 2 to 3 courts, incorporation of 2 x tennis courts to replace the existing courts lost from the new building construction, introduction of retractable netting to separate the courts, new high quality surface finish and multi court line marking, including;

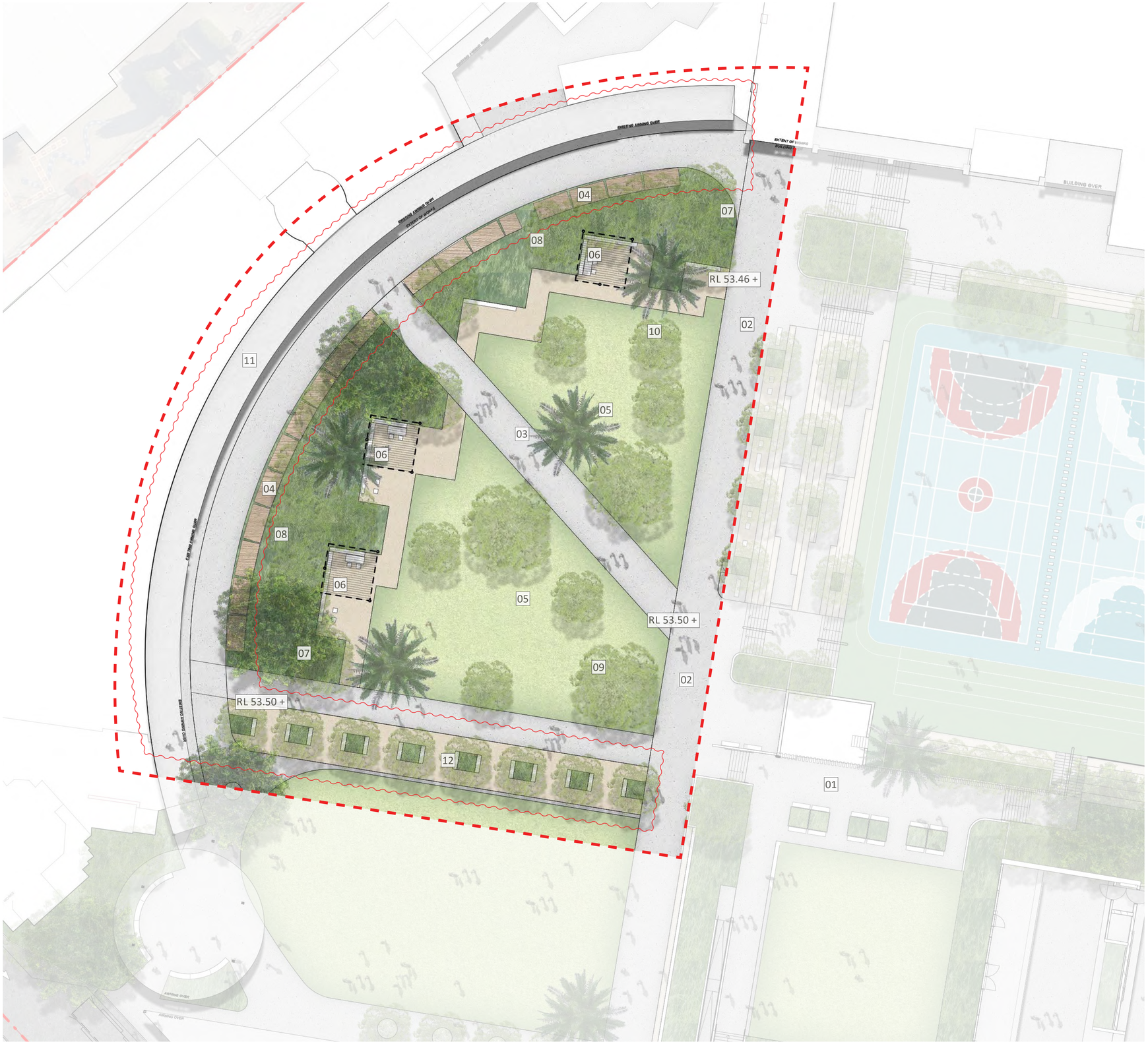
- Tennis (2 courts)
- netball (3 courts)
- basketball (3 courts)
- volleyball (3 courts)
- badminton (3 courts)
- hockey (1 court)

This is a flexible court for a variety of sports and games. The adjacent terraces are transacted by an equal access ramp and a series of bleachers primarily for observing sport but also for group learning and assemblies. Seating is provided all around the court and retractable netting will contain ball play.

A series of terraces are incorporated to accommodate the varied level change from the courts up to the main campus gardens. The guiding element and identity of the design are the 'quarry terraces' that connect all levels of the school. Sandstone quarry blocks will be used to define the terraces which are abstracted and manipulated to provide various opportunities for structured and unstructured play, outdoor learning, class address, spectating, and social gathering. These terraces also form a cultural representation of material and spatial arrangement.







KEY PLAN

LEGEND

1. EXISTING SUBSTATION BUILDING
2. CENTRAL SCHOOL CONCOURSE AND AXIS PATH
3. MAINTAIN EXISTING PATH CONNECTION BETWEEN SCHOOL AND ACTIVE COURTS
4. LONG AND DEEP PERIMETER BENCH PROVIDES STUDENTS WITH ADDITIONAL SEATING AND GATHERING SPACE ADJACENT CLASS ROOMS. IT ALSO PROVIDES A BARRIER TO STUDENT MOVEMENT THROUGH THE GARDENS
5. LARGE CENTRAL LAWN SET WITHIN THE GARDENS COLONISED BY AN ARBORETUM OF CULTURALLY AND ENVIRONMENTALLY SIGNIFICANT TREE SPECIES. PROVIDE OPPORTUNITIES FOR RESPITE AND EDUCATION
6. SEATING SPACES WITH LIGHTWEIGHT SHADE STRUCTURES OFFER OPPORTUNITY FOR EXTERNAL CLASSES AND PRACTICAL TEACHINGS. SECONDARY FUNCTION OF CULTURAL CEREMONIES
7. PRODUCTIVE GARDEN TO PROVIDE AN ENGAGING PLATFORM FOR SCIENTIFIC EDUCATION, EDUCATING STUDENTS ON THE PROCESS ASSOCIATED WITH FOOD PRODUCTION
8. LINEAR RAIN GARDEN ADJACENT THE MAIN CONCOURSE TO CAPTURE AND FILTER SITE STORMWATER. PROVIDES ADDITIONAL OPPORTUNITY FOR EDUCATION OF NATURAL SYSTEMS
9. RELOCATION OF EXISTING MAGEN DAVID DIVERSITY GARDEN TO WITHIN REFLECTION GARDEN
10. MUNICH II MEMORIAL SITE TO BE RETAINED/RELOCATED WITHIN REFLECTION GARDEN
11. EXISTING WALKWAY AWNING TO BE RETAINED
12. TIMBER BENCH SEATING AND TREES

S455 CHANGES

- 04 - Minor spatial amendments to suit updated site survey of awning and existing path
- 12 - Amended timber benches

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L	S455 Modification	20.01.26	GD

ARCHITECT

fjc studio

Level 5, 70 King Street
Sydney, NSW, 2000, AUS
T +61 2 9251 7077

fjc

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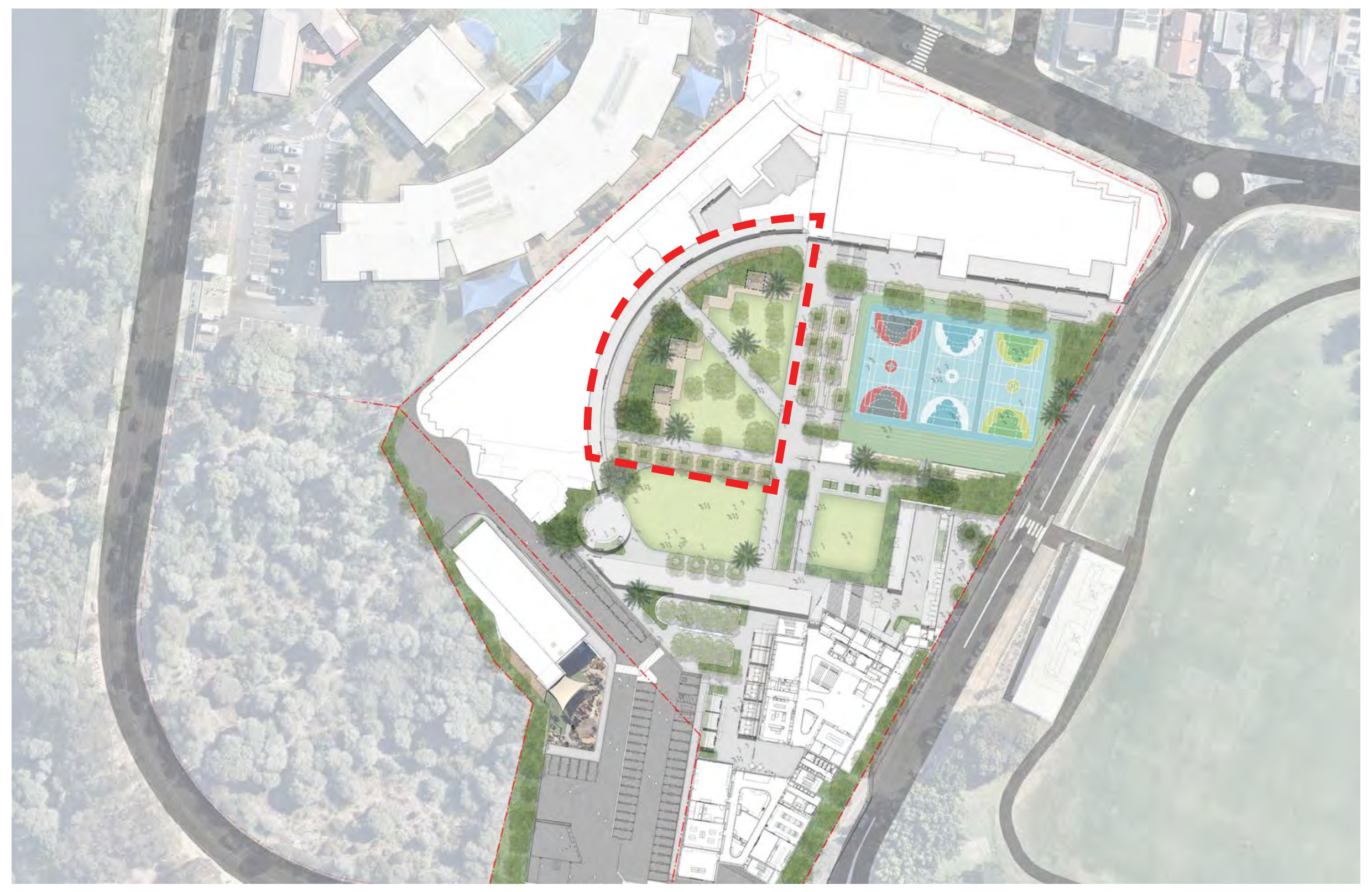
ISSUE
S455

DWG. TITLE
REFLECTION GARDEN - DETAILED LANDSCAPE PLAN

PROJECT
MCMSC - MORIAH COLLEGE

360
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 146 901 322

L-DA-17



KEY PLAN

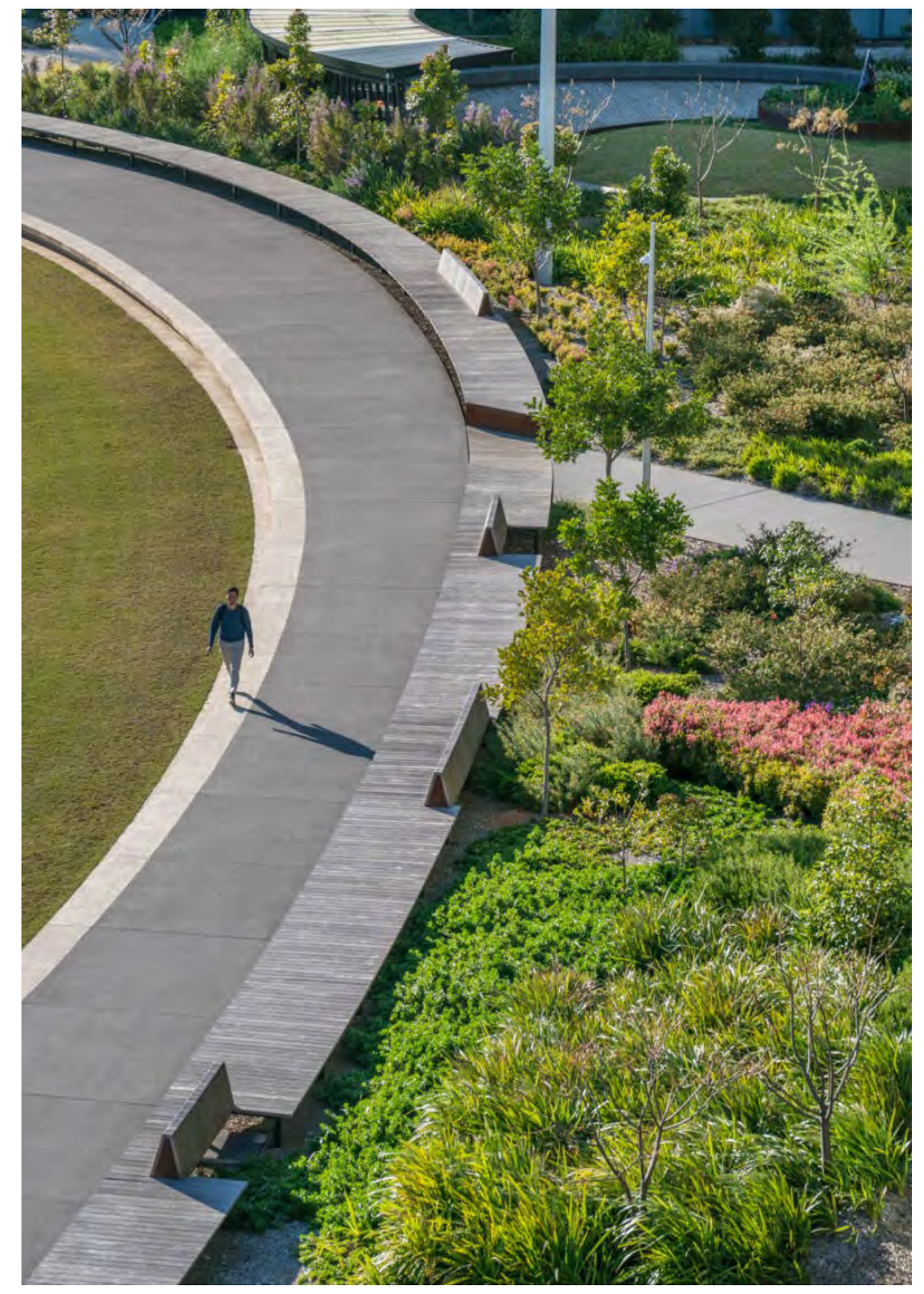
This is a distinctive landscape learning space. It is a 'physic garden' where students can grow edible, medicinal and functional plants and test their theoretical knowledge in practical applications.

In support of the campus concept of learning through biophilia the planting scheme will be a continuous green space 'park to park', implemented as a cultural arboretum. A mix of new deciduous and evergreen trees of various scales are selected to replace lost canopy of existing trees to be removed and will provide a more suitable and new green amenity, solar access and shade relative to the built form. Together with new shrubs and groundcovers the planting scheme will supplement the lessons of the classroom through practical application within the garden and to illustrate the diverse value of the plant kingdom. Every plant species will be purposeful and will be arranged variously as companions as well as organized by their application, such as

- edible
- medicinal (pharmaceutical and 'traditional')
- functional (for example, clothes, rope)
- cultural (for example, religious or ceremonial with a focus on local traditional aboriginal and colonial use)
- environmental benefit (air and water quality)

Shaded, seated teaching zones are provided for lessons, which also support cultural use and ceremonial gathering.

The design references the schools cultural history and will be infused with elements, details, materials and planting that reflect the cultural teachings, site's indigenous and ecological significance, as well as its global future as a benchmark of progressive, multi-cultural learning.



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fjc studio
Level 5, 70 King Street
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ISSUE: S455

DWG. TITLE
REFLECTION GARDEN - LANDSCAPE SUMMARY

PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 146 901 322

L-DA-18

KEY PLAN

LEGEND

1. PERIMETER LANDSCAPE TREATMENT AND TREE PLANTING TO BARONGA AVENUE FRONTAGE
2. INTERNAL COURTYARD
3. CONTINUATION OF SCHOOL CONCOURSE PAVING TO STRENGTHEN AXIAL ALIGNMENT AND CONNECTION TO THE NEW BUILDING
4. NEW AWNING CONNECTING THE NEW BUILDING WITH THE DROP-OFF POINT
5. INTERNAL SCHOOL DROP OFF, AND CEREMONIAL PRECESSION COURT ADJACENT THE EXISTING SCHUL AND PROPOSED LAWN
6. STUDENT CANTEEN BREAKOUT SPACE. GROVE OF TREES WITH TABLES AND CHAIRS BENEATH
7. PLANTERS TO PROVIDE PERIMETER TO OUTDOOR CANTEEN SPACE WITH INTEGRATED SEATING EDGES
8. STUDENT GATHERING SPACE WITH SEATING AND TABLES SUPPORTING CLASS RECESS AND OUTDOOR LEARNING OPPORTUNITIES INCLUDING STUDY CENTRED AROUND A CENTRAL FEATURE SHADE TREE
9. OUTDOOR TERRACE TO LIBRARY (UPPER LEVEL)
10. RAISED GARDEN FOOTPATH EDGE TO NEGOTIATE SPLIT LEVELS OF BUILDING ATRIUM AND NEW INTERNAL RD/PATH
11. BUILDING ENTRY WITH FLUSH GARDEN BED

S455 CHANGES

- 01 - Baronga Ave walls rationalised to one wall on boundary
- 10 - Raised planter co-ordinated with Architect's awnings
- 11 - Additional garden bed at building entry

Moriah College

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fjc studio
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Sydney, NSW, 2000, AUS
T +61 2 9251 7077

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DWG. TITLE
BUILDING + ATRIUM GARDENS - DETAILED LANDSCAPE PLAN

PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 146 901 322

L-DA-19

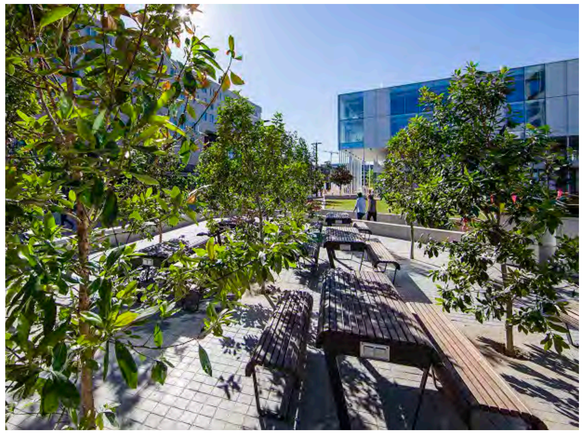
KEY PLAN

This is the highly active heart of the campus defined by the nexus of the internal Street drop-off, the exiting curved walkway and the through-site for the Baronga Avenue Campus entry. The space provides access and connection to the central green, the main learning building, the canteen, the main spine of steps that leads to the school entry, and the central path that connects other landscape zones of the campus.

The space is flexible and adaptable to provide an external space where by teachers can conduct informal classes that enable students to test theoretical knowledge in practical applications.

As this area is also identified for delivery of Stage 2 new building works, the extent of landscape treatment has been considered to facilitate these future works.

Along the Baronga Avenue frontage, a significant landscape treatment is incorporated to provide a landscape address and public interface. The species will consist predominantly of natives, representative of the adjacent Banksia reserve, Centennial Park, and Queens Park. The distinctly green campus will provide a unified landscape precinct, with strong physical and ecological connections to the surrounding parklands.



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fjc studio

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DWG. TITLE
BUILDING + ATRIUM GARDENS - LANDSCAPE SUMMARY

PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 8362 3601
w www.360.net.au
ABN: 90 148 901 322

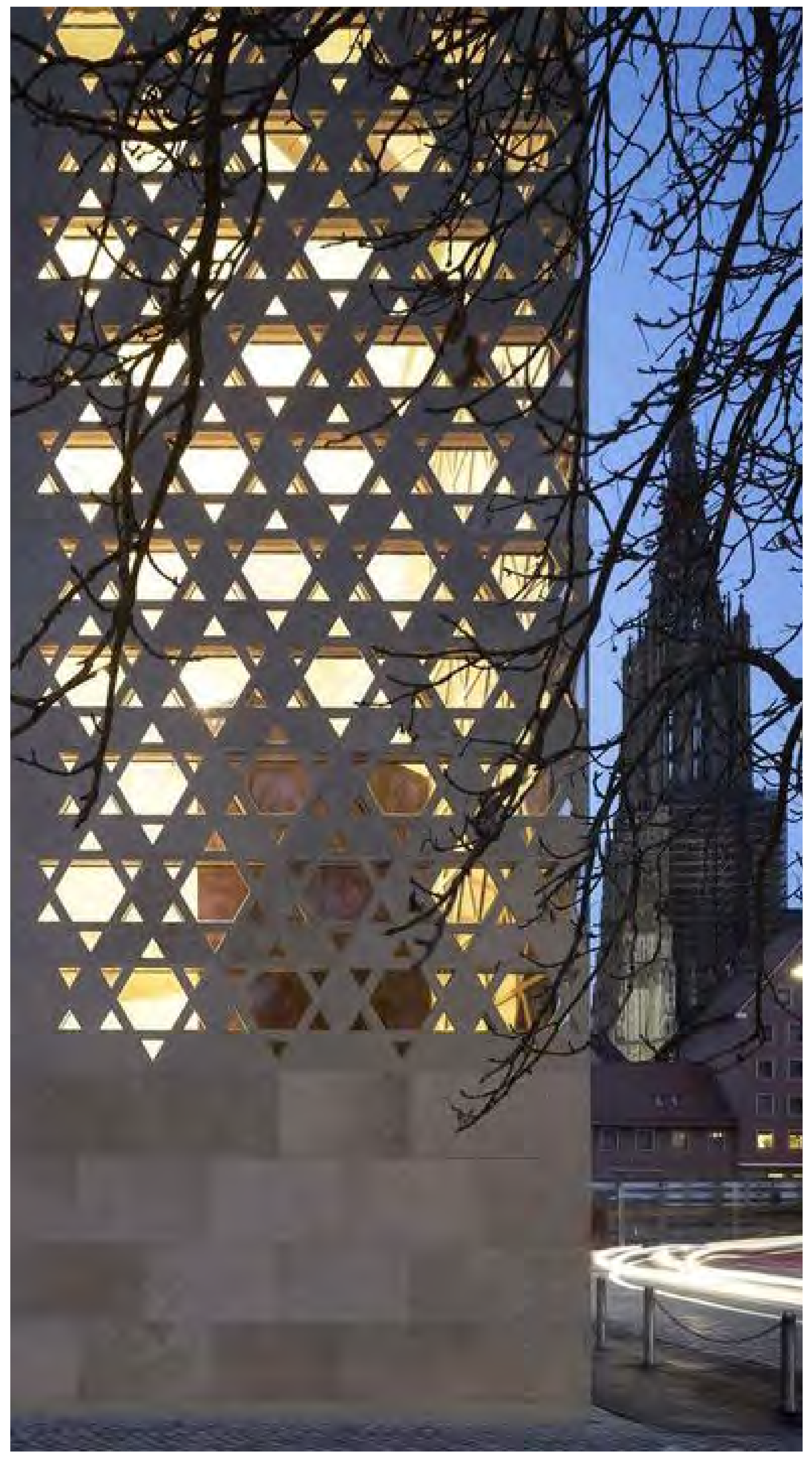
L-DA- 20

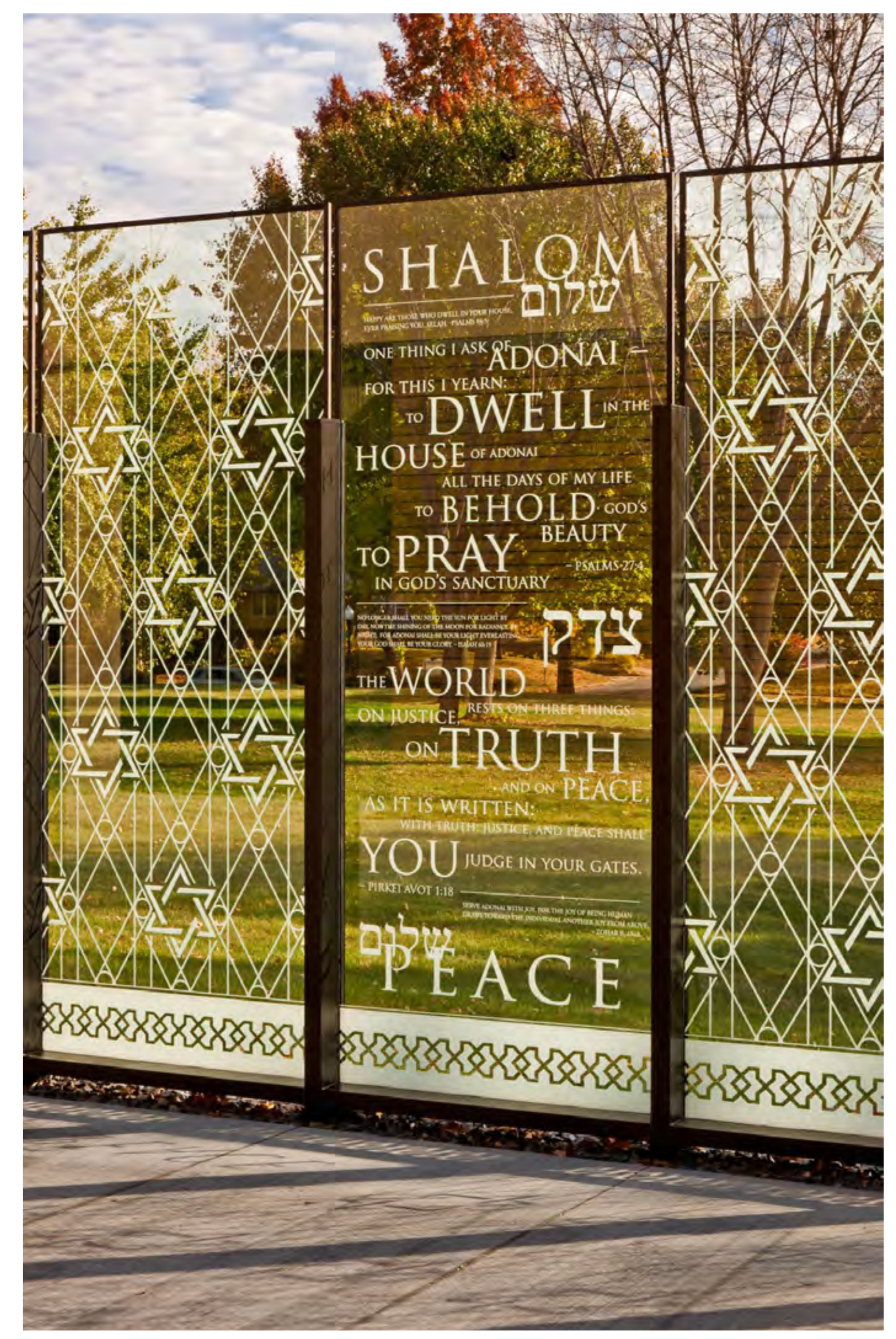
KEY PLAN

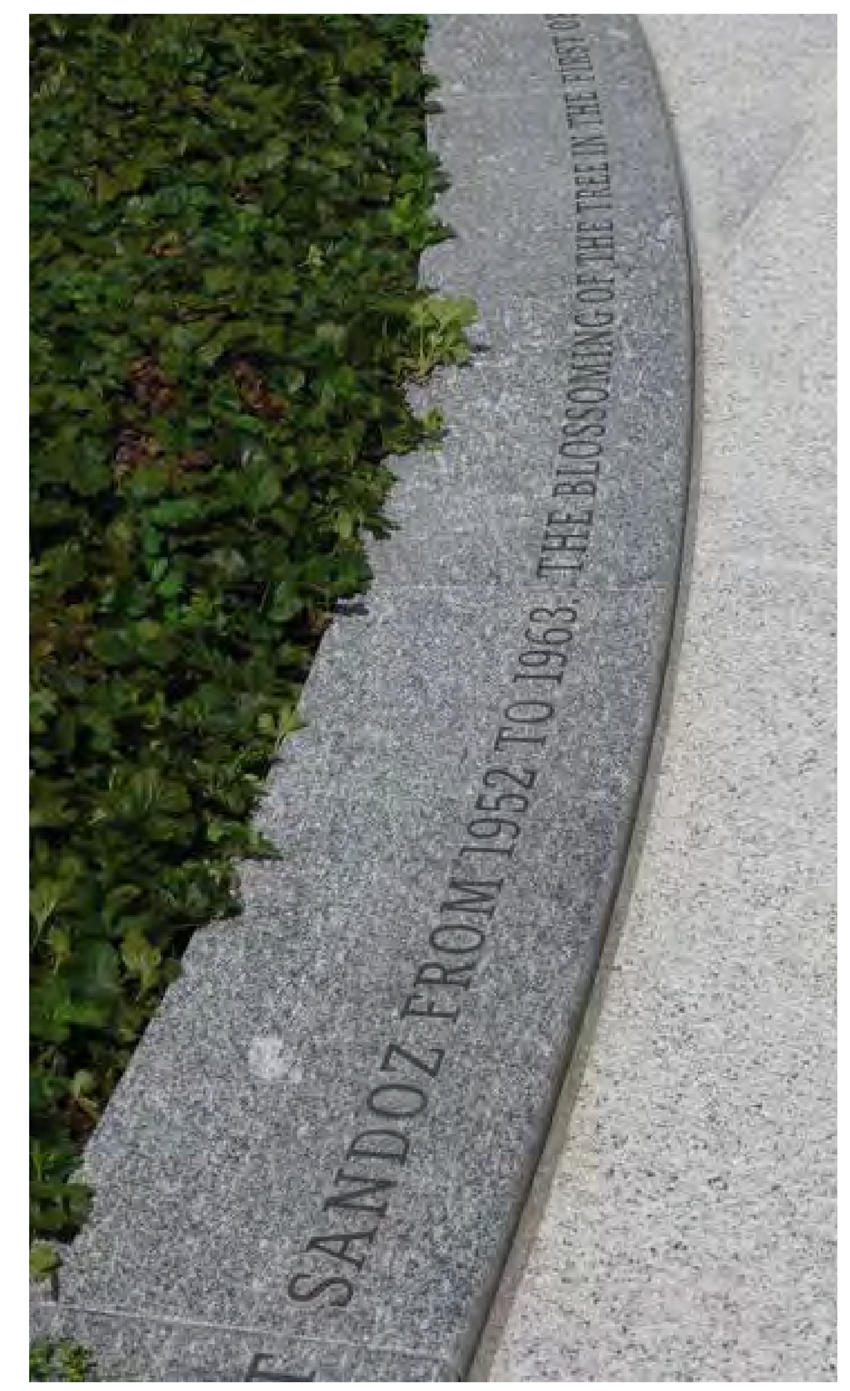
The design references the schools cultural teachings and will be infused with elements, details, materials and planting that reflect the religious identity, the sites indigenous and ecological significance, Australian cultural history as well as its global future as a benchmark of progressive, multi-cultural learning.

A significant public art contribution is proposed at the schools main entry and along the wall frontign Baronga Avenue. This cultural narrative will illustrate the 5 core values of the school;
- Commitment,
- Respect,
- Kindness,
- Integrity, and
- Responsibility.

Supported through significant planting species within the campus, the design will also explore the cross cultural narrative between Jewish, Australian and Indigenous culitres, providing a platform for both the school and the public to engage, bridging the gap of understanding and extending the conversation beyond the campus.







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DWG. TITLE: CULTURAL NARRATIVE
PROJECT: MCMSC - MORIAH COLLEGE

360
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 146 901 322

L-DA-21

LIGHTING, SAFETY + SECURITY

Moriah College operates both during the day and at night, supporting extra curricular activities, ceremonies and events, with lighting a crucial element that attracts people, helps navigate and facilitate function. There are 3 key areas where lighting plays an important function:

IDENTITY
Lighting can reinforce the identity and character of an area or precinct at night. Lighting can highlight key elements and entries or simply unify a precinct through a common approach.

SAFETY
Feeling safe and secure is important when on campus. Lighting main circulation paths and adjoining areas to achieve appropriate levels of comfort, safety and security is essential. Crime Prevention Through Environmental Design (CPTED) guidelines will be adopted for all campus developments.

VARIETY
Lighting can be used to change the character and mood of a place on a seasonal or special event purpose. Lighting can also respond to use and enhance users experience of the space and adapt to the functions within the campus.

There are 2 key zones for lighting:

APPROACH LIGHTING
The introduction of lighting on the approaches to entry points reinforces the sense of arrival and the campus as a unique place. This sense of identity and anticipation will enhance the experience and perception of the campus.

OPEN SPACE LIGHTING
Each space will have its own character and identity, and the lighting of these spaces will support their functional use. The levels of lighting will vary dependent on the intended use of each space and be integrated within the overall design, including integrated with walls, furniture and gardens.

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DWG. TITLE
LIGHTING, SAFETY + SECURITY

PROJECT
MCMSC - MORIAH COLLEGE

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Level 1, 1 Marys Place
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MATERIALS + FURNITURE

Campus materiality overlays movement and spatial typologies to generate way finding logic, reinforce gateways, assist with place making and utility functions.

GENERAL MATERIALITY NOTES

Minimise the number of different path finishes across campus.
Consider using variations in finishes to delineate between primary and secondary pavements areas.

Paving hierarchy is determined according to function and volumes of individual pathways. It is important to provide some hierarchy and define different areas to assist in way finding through the campus.

Variation in materials should be employed to improve accessibility and legibility for all users. Textural changes in surfacing and colour cues should assist with signalling entrances, thresholds and interstitial spaces, movement vs resting spaces, grade changes, and key way finding locations.

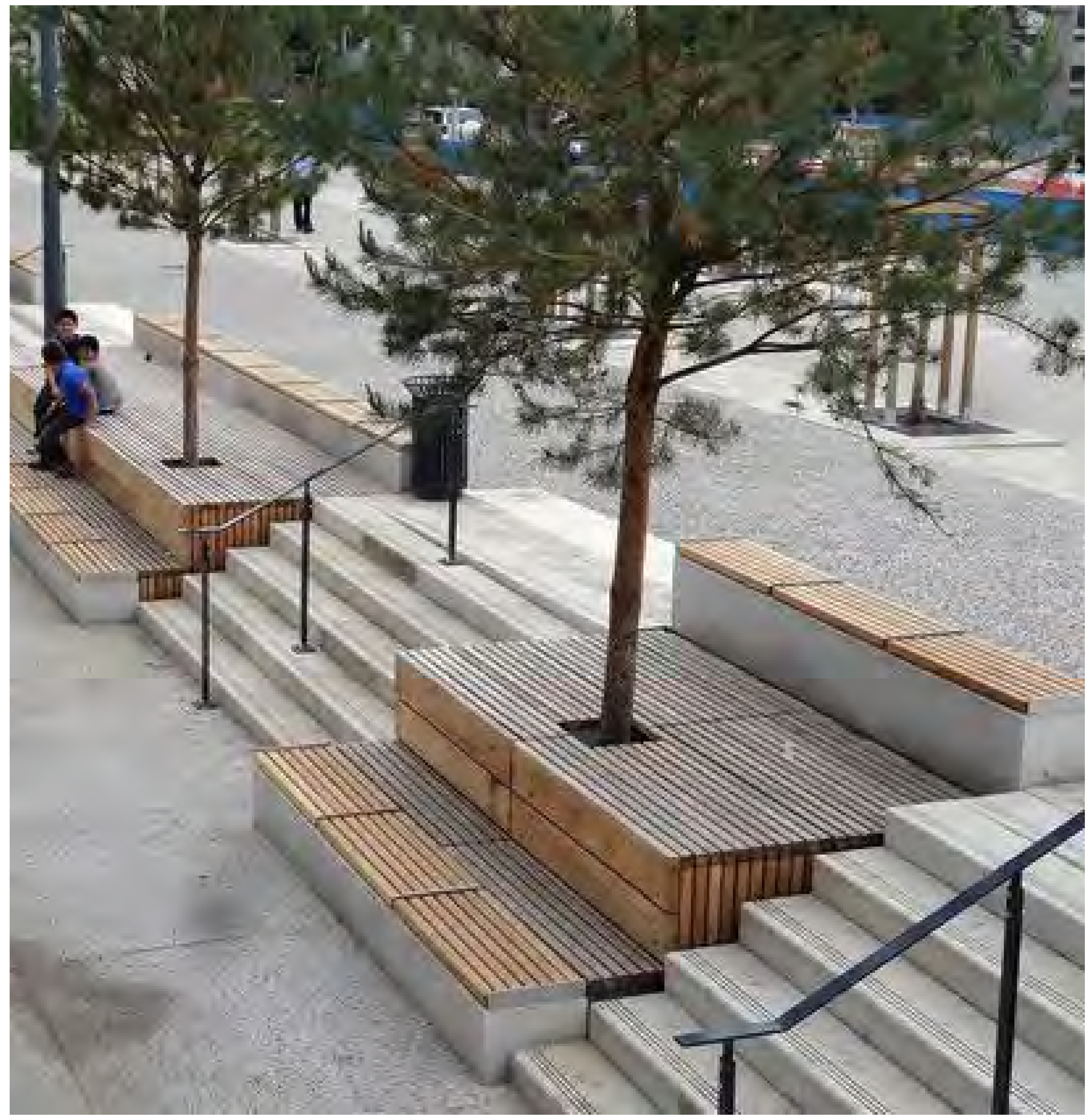
Campus furniture responds to the landscape & surrounding classroom programming, generating and encouraging social interaction, learning opportunities and respite, and spatial hierarchy.

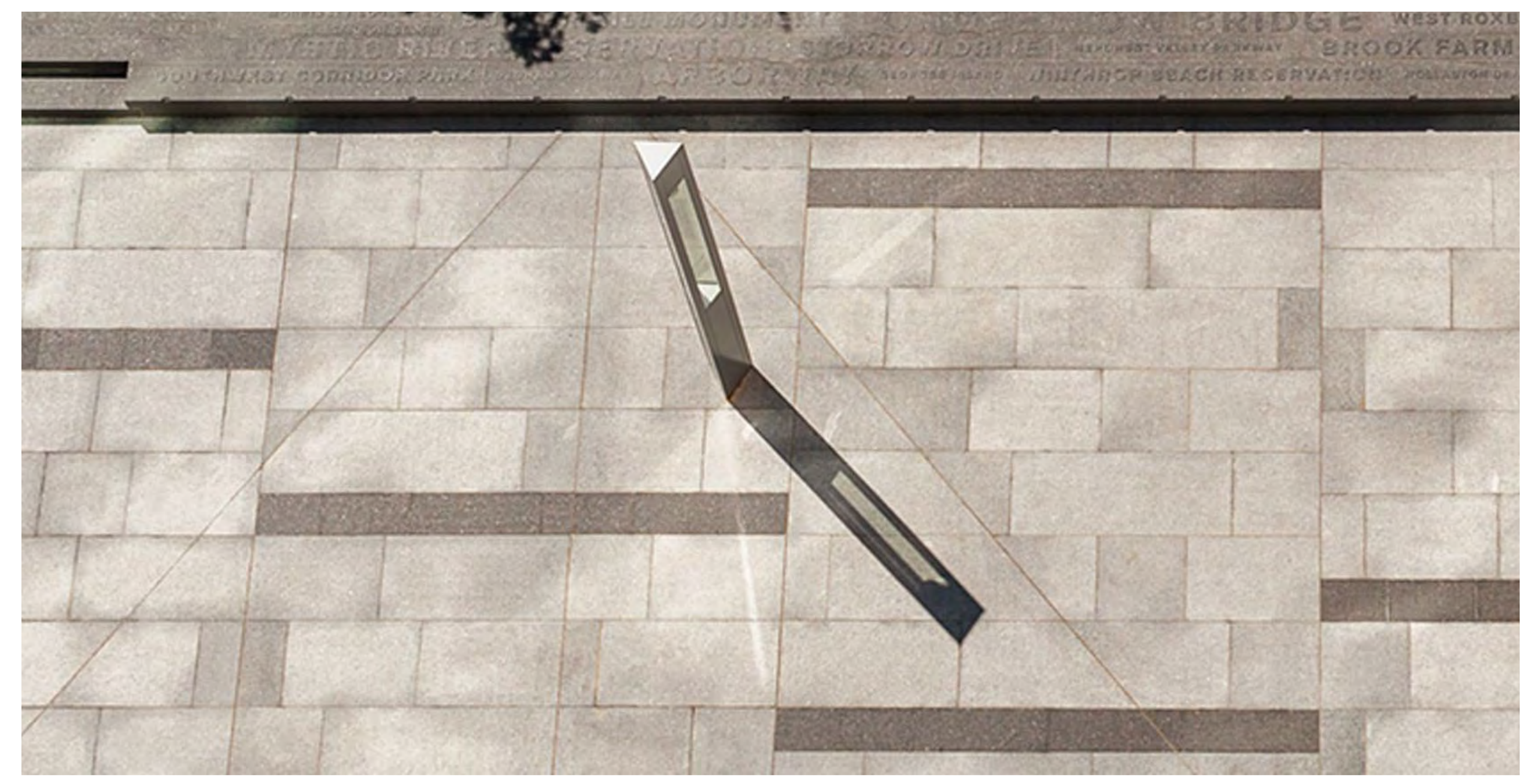
GENERAL FURNITURE NOTES

Correspond to user requirements, climate, favourable proximity to paths, building fore courts and amenities.

Employ a family of material, finish, colour and design

Locate furniture in favourable climatic zones. ie wind protected areas with suitable solar access
Restrained selection of materials to be robust, vandal resistant, durable.





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DWG. TITLE: MATERIALS + FURNITURE
PROJECT: MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 146 901 322

L-DA- 23

PLANTING

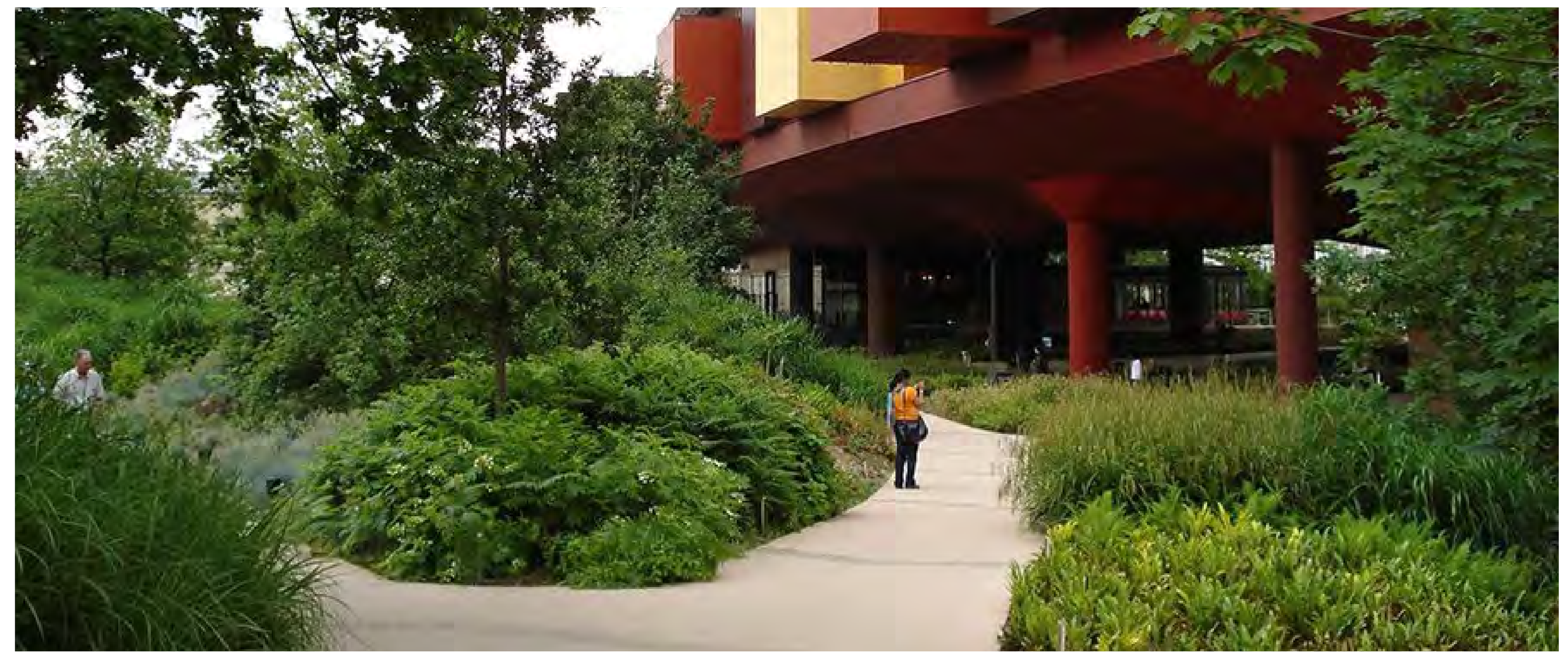
The gardens aren't merely an area to cross on the way between class, they are also a corner of nature within the building, places to discover the richness of biodiversity, learn the value of plants and conduct interactive classes.

In order to cater to the needs of staff and students, the landscape seeks to supplement the lessons learnt in the classroom through practical application within the garden. A series of learning landscapes have been developed to facilitate this external education while also supporting the Masterplan principles of 'greening the campus'. These gardens include;

- Cultural Garden
- Science Garden
- Edible Produce Garden
- Learning Gardens
- Performance and Ceremonial Garden

Botanical gardens themselves were usually set up with the aim of active education as well as plant introduction, initially to teach medicinal and useful plants; public recreation came later. The planting selection and arrangement at Moriah College plans to embrace those origins of garden design and encourage education through planting, as well as social interaction and recreation.

A summary of possible plant species for further development at detailed design of each stage is provided as a guide and point of commencement for the final planting selection and arrangement.



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DWG. TITLE
PLANTING

PROJECT
MCMSC - MORIAH COLLEGE

360
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 146 901 322

S455 CHANGES

- Minor updates to suit design resolution
- Increase in trees where timber decking and concrete has been removed south and east of the Sports Court
- Some instances of larger trees being substituted for smaller trees
- Some instances of trees shifting but no species changes (e.g. ESBS and Baronga Ave building frontage)

NOTE.
QUANTITY AND LOCATION OF OLIVE TREES (*OLEA EUROPEA*) ARE SUBJECT TO WAVERLEY COUNCIL REVIEW AND APPROVAL AS PART OF CC DOCUMENTATION AND COORDINATION

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0 5 10 20m
1:500 @ A1

ISS.	AMENDMENT	DATE	BY
G	Amended Landscape SSDA Report	14.11.20	LB
H	S455	24.10.24	LB
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K	S455 Modification	16.01.26	GD
L	S455 Modification	20.01.26	GD

ARCHITECT
fjc studio
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STAGE 1 - TREE SPECIES MASTERPLAN

PROJECT
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Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 146 901 322

L-DA- 25 A

S455 CHANGES

- As per Stage 1 notes
- Trees in the Stage 2 ELC area amended as per Plant Schedule (e.g. Corymbia, Angophora and Eucalyptus shown)

1 x Leptospermum laevigatum
1 x Phoenix dactylifera
1 x Eucalyptus haemastoma
2 x Banksia integrifolia
1 x Phoenix dactylifera
1 x Tristaniopsis laurina
2 x Eucalyptus haemastoma
1 x Olea europea
1 x Geijera parvifolia
1 x Phoenix dactylifera
2 x Eucalyptus haemastoma
1 x Glochidion ferdinandi
2 x Leptospermum laevigatum
2 x Elaeocarpus reticulatus
1 x Leptospermum laevigatum
1 x Ficus rubignosa
1 x Elaeocarpus reticulatus
2 x Banksia integrifolia
3 x Leptospermum laevigatum
1 x Melaleuca nodosa
1 x Angophora costata
4 x Elaeocarpus reticulatus
2 x Elaeocarpus reticulatus
2 x Corymbia gummifera
1 x Monotoca elliptica
1 x Eucalyptus haemastoma
2 x Melaleuca nodosa
3 x Banksia integrifolia
1 x Callistemon citrinus
2 x Elaeocarpus reticulatus
3 x Melaleuca nodosa
1 x Monotoca elliptica
1 x Melaleuca nodosa
1 x Elaeocarpus reticulatus
1 x Calistemon citrinus
1 x Leptospermum laevigatum
1 x Banksia integrifolia
Zone of ESBS Buffer Planting
2 x Tristaniopsis laurina
1 x Quercus coccifera
2 x Banksia integrifolia
1 x Geijera parvifolia
1 x Phoenix dactylifera
1 x Banksia integrifolia
1 x Leptospermum laevigatum
3x Banskia integrifolia
2 x Cupaniopsis anacardioides
11 x Tristaniopsis laurina
2 x Angophora costata
3 x Tristaniopsis laurina
1 x Melaleuca nodosa
2 x Callistemon citrinus
3 x Cupaniopsis anacardioides
2 x Livistona australis
2 x Olea europea
1 x Quercus coccifera
3 x Tristaniopsis laurina
1 x Livistona australis
2 x Tristaniopsis laurina
1 x Ficus rubignosa
1 x Elaeocarpus reticulatus
5 x Banksia integrifolia
6 x Leptospermum laevigatum
10 x Cupaniopsis anacardioides
1 x Olea europea
2 x Tristaniopsis laurina
1 x Phoenix dactylifera
1 x Tristaniopsis laurina
4 x Fraxinus urbanite
1 x Banksia integrifolia
1 x Leptospermum laevigatum
1 x Elaeocarpus reticulatus
1 x Banksia integrifolia
1 x Leptospermum laevigatum
1 x Elaeocarpus reticulatus
1 x Corymbia gummifera
1 x Banksia integrifolia
1 x Corymbia gummifera
1 x Eucalyptus haemastoma
1 x Elaeocarpus reticulatus
1 x Corymbia gummifera

NOTE.
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ARCHITECT
fjc studio
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DWG. TITLE
STAGE 2 - TREE SPECIES MASTERPLAN

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ABN: 90 146 901 322

L-DA-25

TREES

Banksia integrifolia

Eucalyptus haemastoma

Geijera parviflora

Olea Europea

Phoenix dactylifera

Quercus coccifera

Tristaniopsis laurina 'lushious'

Leptospermum laevigatum

SHRUBS

Acacia longifolia subsp. sophorae

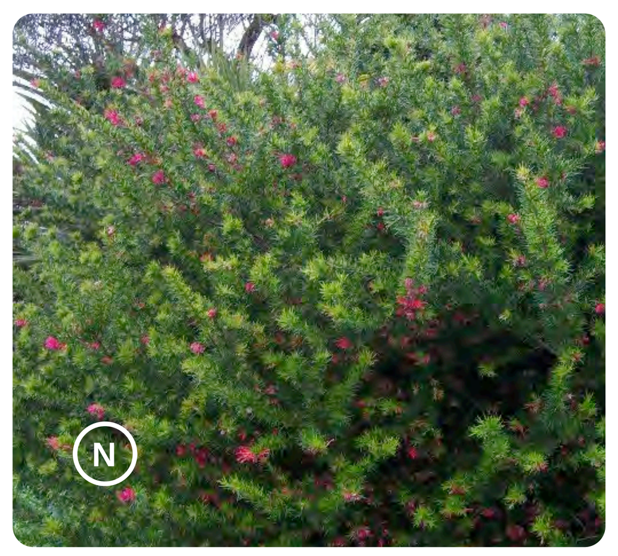
Acmena smithii minor


Aloe arborescens

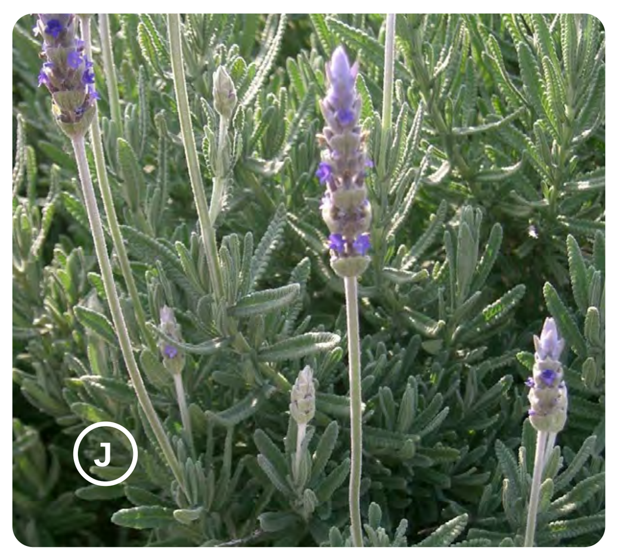
Austromyrtus tenuifolia

Baeckea imbricata

Casuarina glauca 'greenwave'



Grevillea rosmarinifolia



Lavandula dentata

Leptospermum petersonii 'Little Lemon'

Myrtus communis

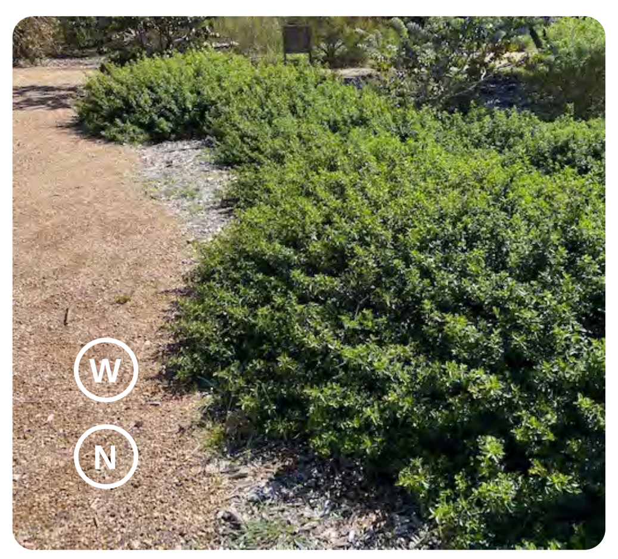
Ozothamnus diosmifolius

Rosmainus officinalis

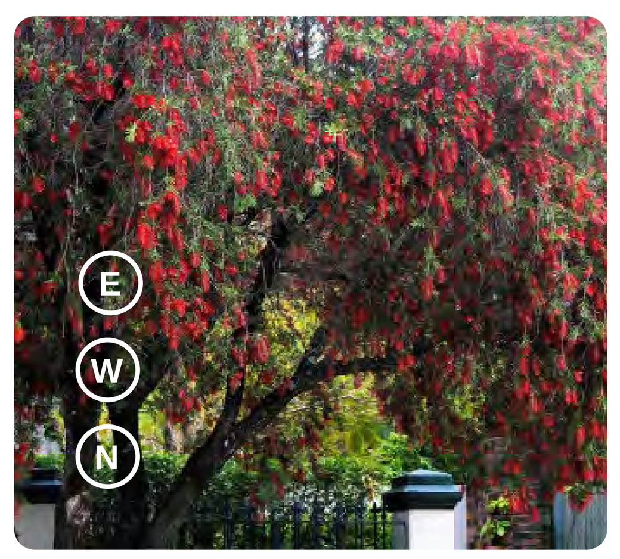
Salvia hierosolymitana

Westringia fruticosa

Correa alba



Correa reflexa



Callistemon citrinus

NOTE.
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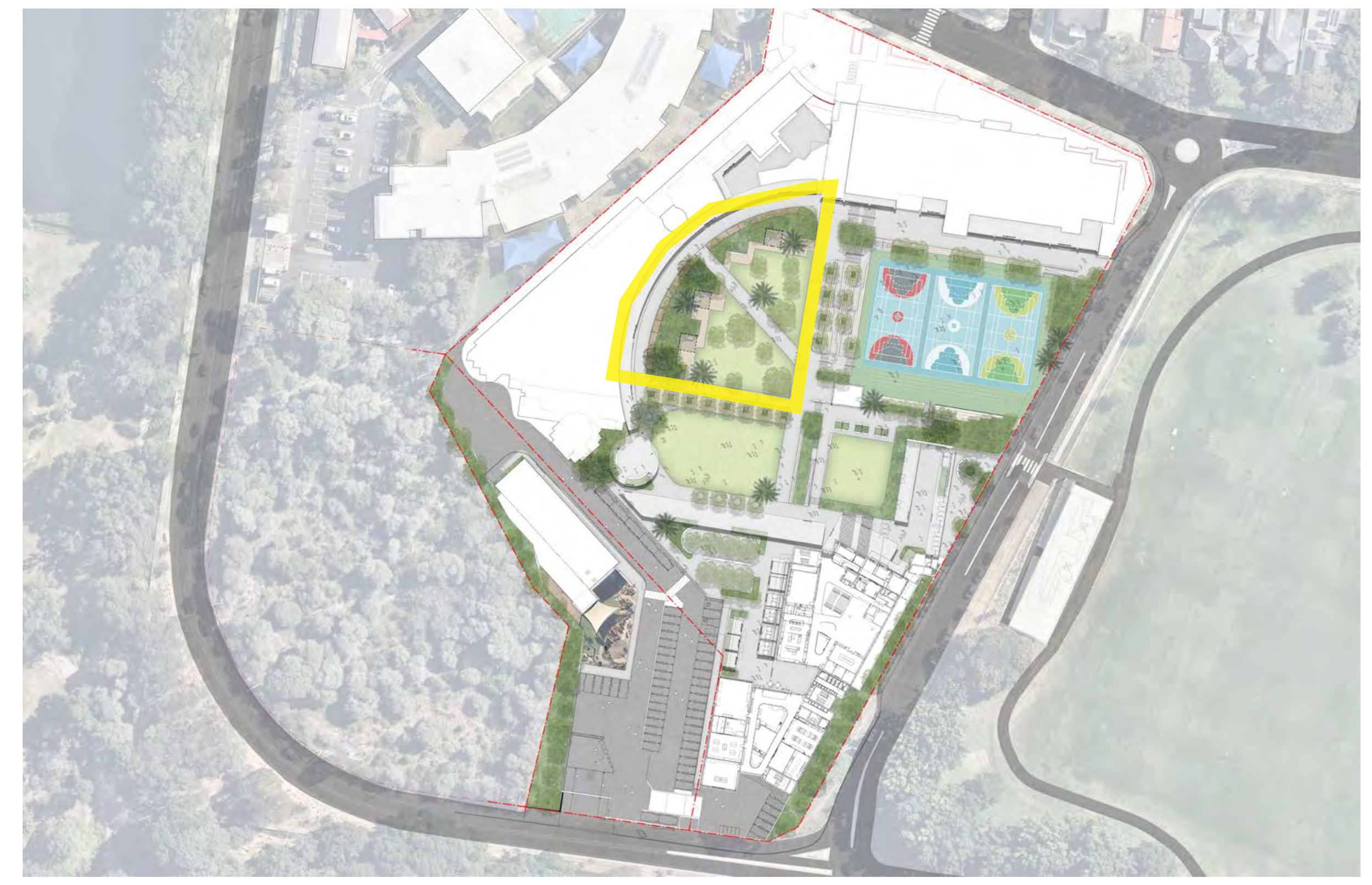

KEY PLAN

- (J) JEWISH CULTURAL SIGNIFICANCE
- (I) INDIGENOUS CULTURAL SIGNIFICANCE
- (E) EASTERN SUBURBS BANKSIA SCRUB
- (N) NATIVE
- (W) WAVERLEY COUNCIL APPROVED SPECIES

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DWG. TITLE
PLANTING PALETTE - REFLECTION GARDEN

PROJECT
MCMSC - MORIAH COLLEGE

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w www.360.net.au
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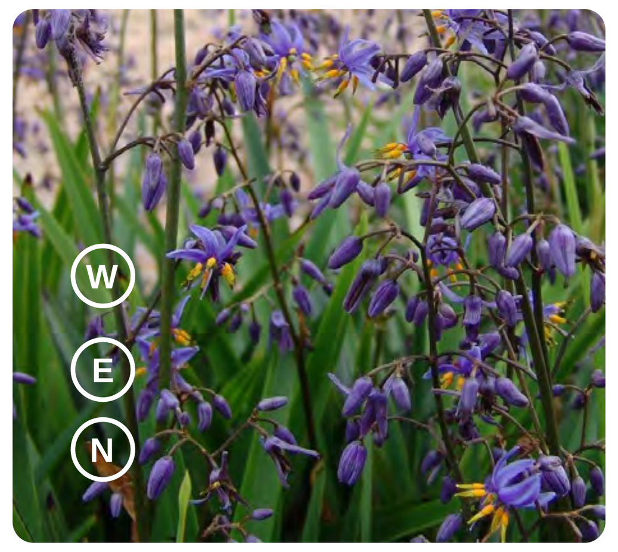
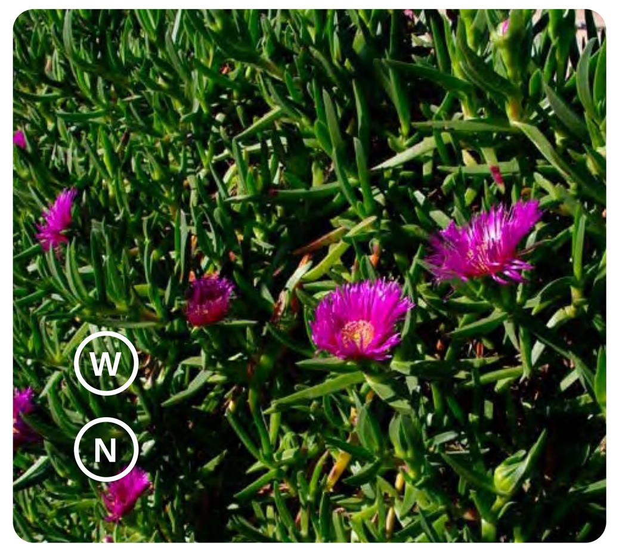
L-DA- 27

GRASSES, GROUNDCOVERS & CLIMBERS

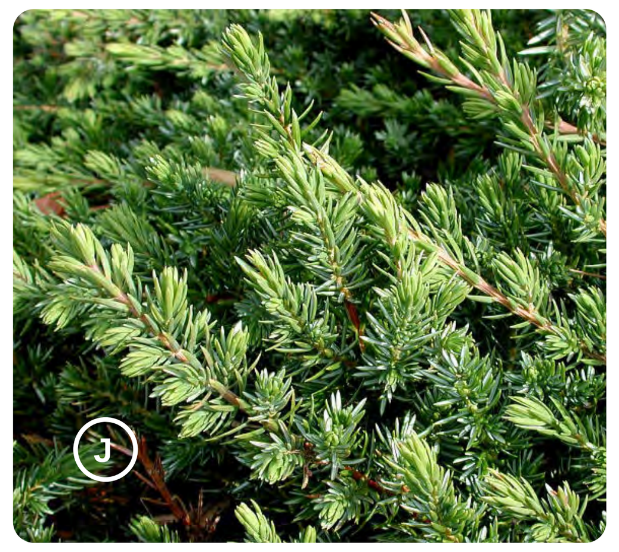


Dianella caerulea


Ophiopogon jaburan



Carpobrotus glaucescens

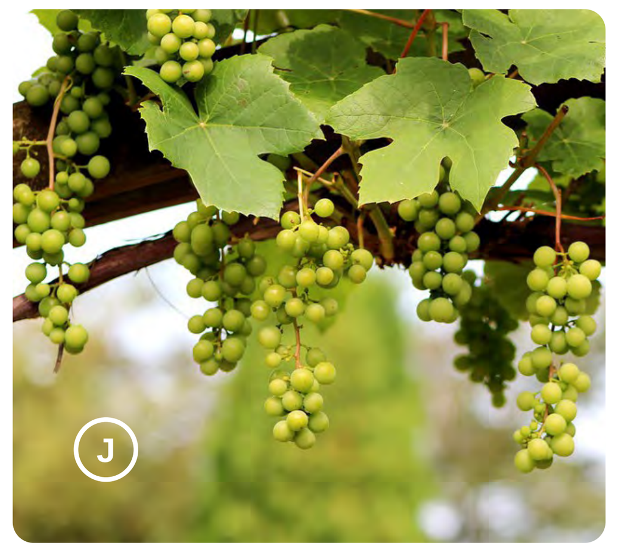


Juniperus conferta

Ficinia nodosa

Poa labillardieri 'Eskdale'

Thymus vulgaris



Vitus vinifera

Pyrostegia venusta

Hardenbergia violacea

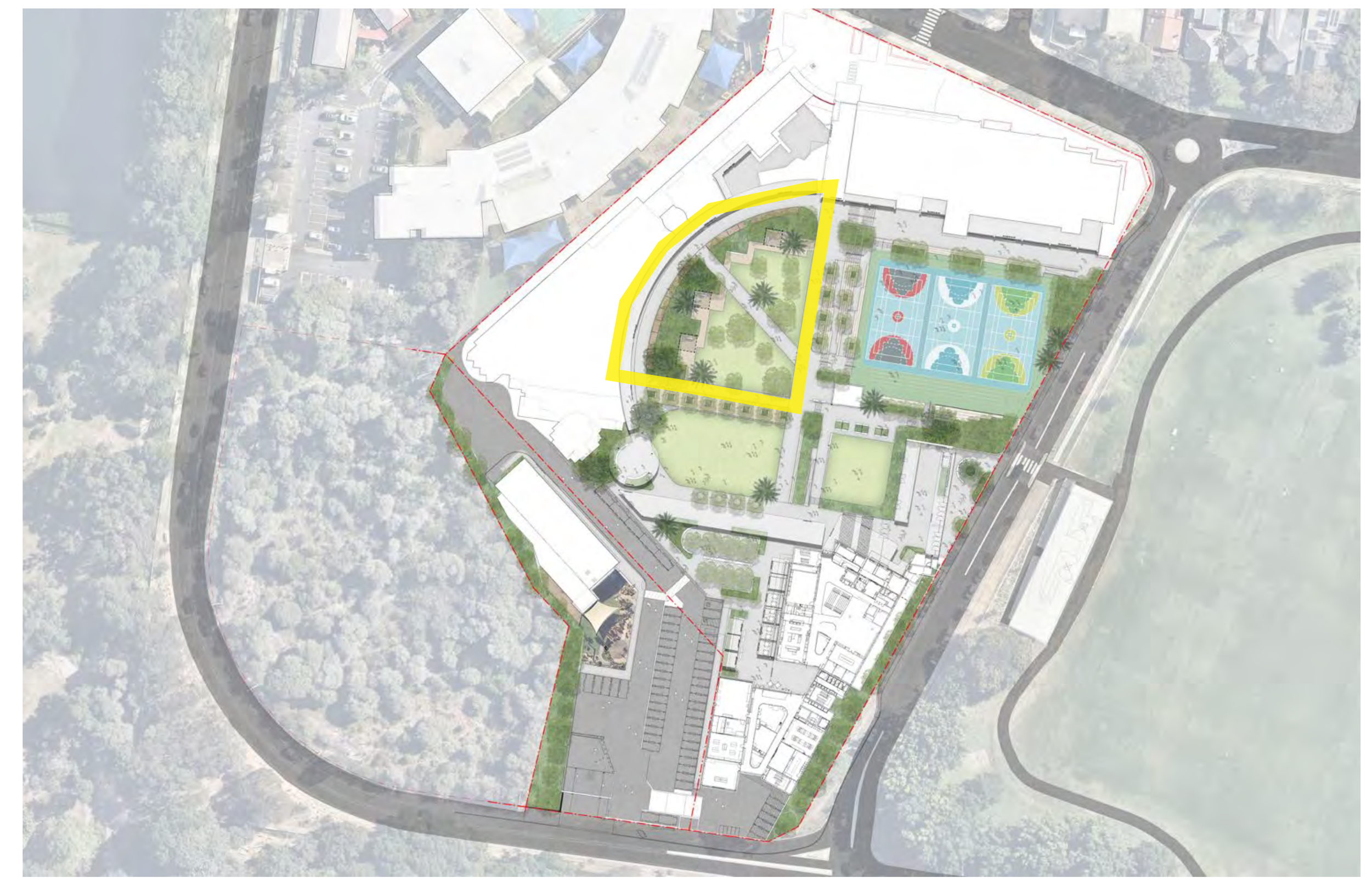
Pandorea pondorana

Viola hederacea

Lomandra longifolia

Hibbertia scandens

Xanthorrhoea resinosa



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- (N) NATIVE
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S455 CHANGES
- Increase by 3 trees

NOTE.
QUANTITY AND LOCATION OF OLIVE TREES (*OLEA EUROPEA*) ARE SUBJECT TO WAVERLEY COUNCIL REVIEW AND APPROVAL AS PART OF CC DOCUMENTATION AND COORDINATION

PLANT SCHEDULE

Botanical Name	Common Name	Pot Size	Mature Height	Quantity
TREES & PALMS				
*Banksia integrifolia****	Coast Banksia	200L	4 - 15m	5
*Eucalyptus haemastoma***	Scribbly Gum	400L	15m	5
*Leptospermum laevigatum****	Coast Tea Tree	100L	8m	2
*Geijera parviflora**	Wilga	100L	8 - 15m	2
Olea Europea	Olive Tree	500L	4 - 8m	3
Phoenix dactylifera	Date Palm	ex ground	15 -25m	4
Quercus coccifera	Kermes Oak	300L	2 - 4m	2
*Tristaniopsis laurina 'Luscious'***	Water Gum	400L	8m	4
SHRUBS				
*Acmena smithii 'Minor'***	Dwarf Lilly Pilly	300mm	4m	135
*Acacia longifolia subsp. Sophorae***	Coast Wattle	200mm	1m	60
Aloe arborescens	Candelabra aloe	200mm	1.8 -3m	30
*Austromyrtus tenuifolia***	Narrow Leaf Myrtle	200mm	0.5-1m	45
*Baeckea imbricata***	Heath Myrtle	200mm	1m	45
*Callistemon citrinus****	Crimson Bottlebrush	200mm	4m	12
*Casuarina glauca 'greenwave'***	Casuarina Greenwave	200mm	2m	55
*Correa alba***	White correa	200mm	1m	95
*Correa reflexa***	Native Fushia	200mm	1m	95
*Grevillea rosmarinifolia**	Rosemary Grevillea	200mm	0.75 - 1.5m	75
Lavandula dentata	French Lavender	200mm	1m	70
*Leptospermum 'Little Lemon Scents'**	Lemon-scented Tea Tree	200mm	1 -2m	60
Myrtus communis	Mrytle	200mm	3m	25
*Ozothamnus diosmifolius***	Rice Flower	200mm	1.5m	40
Rosmarinus officinalis	Rosemary	200mm	2m	90
Salvia hierosolymitana	Jerusalem salvia	200mm	0.6m	40
*Westringia fruticosa***	Coastal Rosemary	200mm	1m	140
GRASSES & FERNS				
*Dianella caerulea****	Blue Flax Lily	150mm	0.5-1m	300
*Ficinia nodosa***	knotted club-rush	150mm	0.8 - 1m	80
Ophiopogon jaburan	Dwarf Lilyturf	150mm	0.2m	200
*Poa labillardieri 'Eskdale'***	Tussock Grass	150mm	0.7 - 0.9	200
*Lomandra longifolia****	Spiny-head mat-rush	200mm	0.8m	450
*Xanthorrhoea resinosa****	Grass Tree	200mm	0.8m	85
GROUNDCOVERS				
*Carpobrotus glaucescens***	Pigface	150mm	0.1-0.3m	185
Juniperus conferta	Shore Juniper	150mm	0.1-0.3m	275
Thymus vulgaris	German Thyme	150mm	0.3m	185
*Viola hederacea***	Native Violet	150mm	0.1-0.3m	275
CLIMBERS				
*Hardenbergia violacea****	False sarsaparilla	150mm	0.5 - 2m	35
*Hibbertia scandens****	Snake Vine	150mm	0.5 - 2m	25
*Pandorea pandorana***	Wonga Wonga Vine	150mm	0.5 - 2m	15
Pyrostegia venusta	Flame Vine	150mm	5m	15
Vitis vinifera	Grape Vine	150mm	7m	15

*** ESBS
** Annexure B3-1 Waverley DCP Planting List
* Native

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DWG. TITLE
PLANTING PALETTE - REFLECTION GARDEN (cont)

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TREES

Cupaniopsis anacardioides

Tristaniopsis laurina 'lushious'


fraxinus urbanite


Glochidion ferdinandi

Phoenix dactylifera

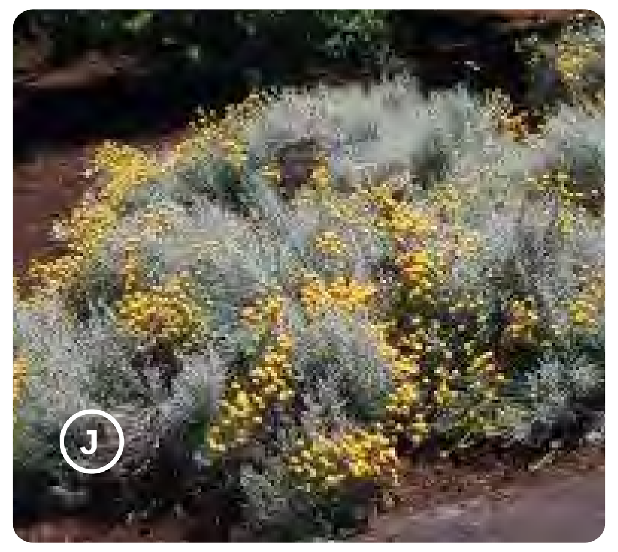
Ficus rubignosa

SHRUBS & FERNS

Acacia longifolia subsp. sophorae

Westringia fruticosa

Callistemon 'White Anzac'



Santolina chamaecyparissus

Artemisia arborescens 'Powis Castle'

Allocasuarina distyla

Lomandra longifolia

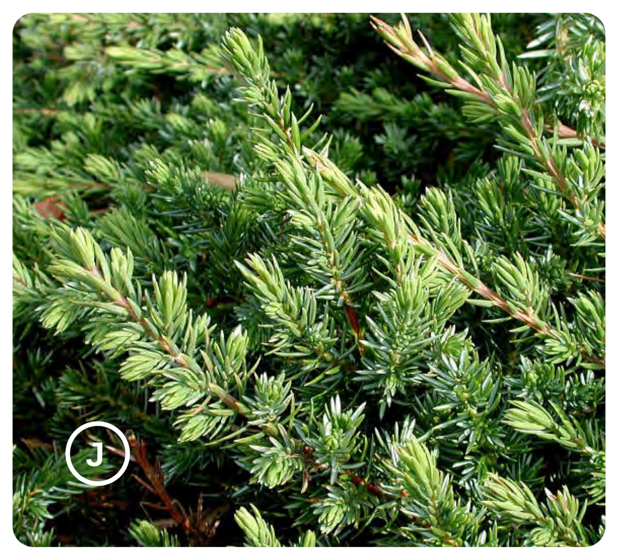
Doodia aspera

Asplenium australasicum

Banksia aemula

Banksia ericifolia

GRASSES, GROUNDCOVERS & CLIMBERS



Juniperus conferta

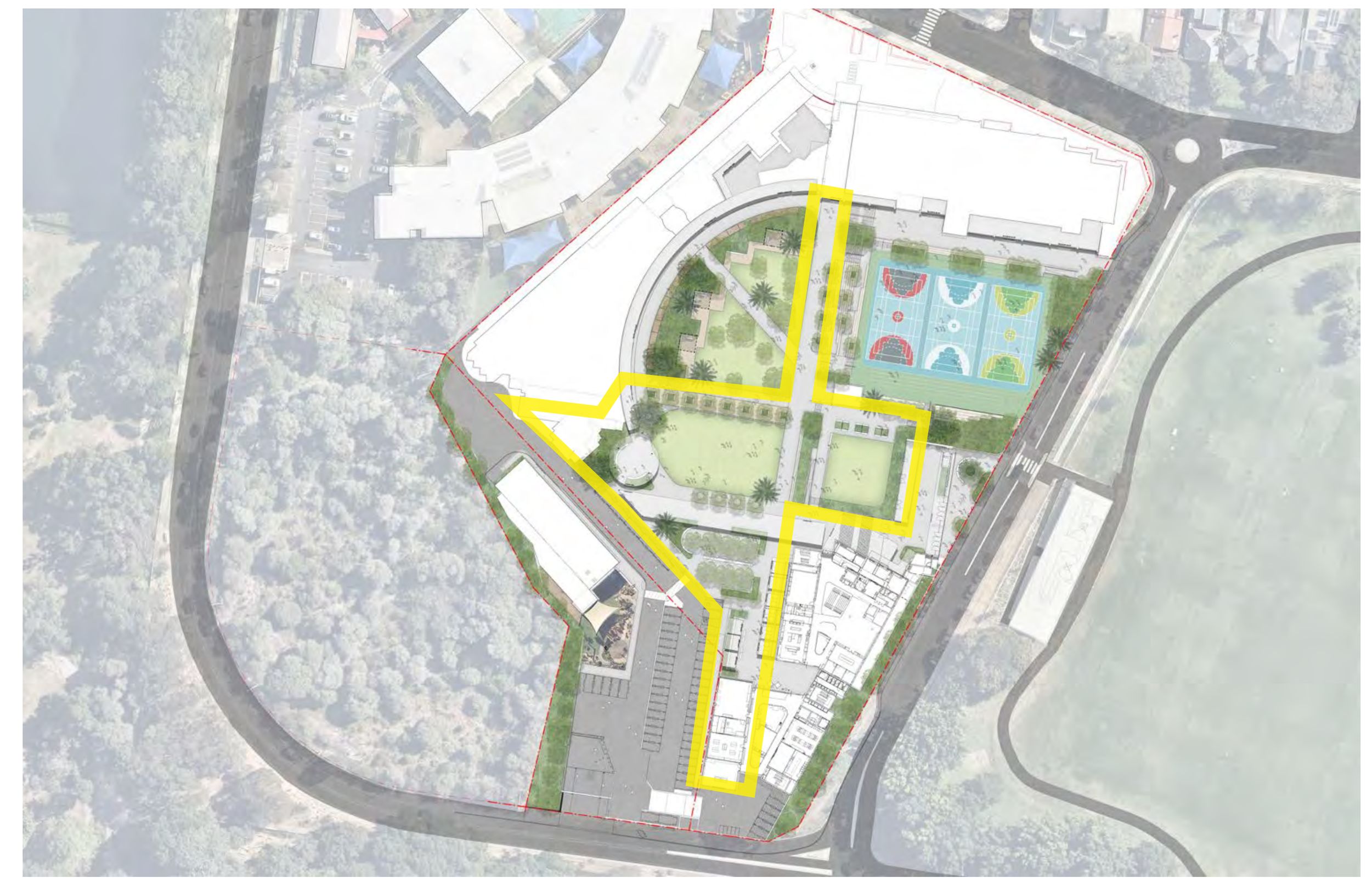

Senecio serpens


Rosmarinus 'Irene'

Viola hederacea

Casuarina glauca 'Cousin It'

Hibbertia scandens



KEY PLAN

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- (I) INDIGENOUS CULTURAL SIGNIFICANCE
- (E) EASTERN SUBURBS BANKSIA SCRUB
- (N) NATIVE
- (W) WAVERLEY COUNCIL APPROVED SPECIES

S455 CHANGES

- Decrease by 1 tree

PLANT SCHEDULE

Botanical Name	Common Name	Pot Size	Mature Height	Quantity
TREES & PALMS				
*Cupaniopsis anacardioides***	Tuckeroo	400L	5 - 8m	9
*Elaeocarpus reticulatus****	Blueberry Ash	200L	3-15m	3
Fraxinus urbanite	Urbanite Ash	300L	15m	10
*Ficus rubignosa***	Port Jackson Fig	800L	12m	1
*Glochidion ferdinandi***	Cheese Tree	400L	8m	2
Phoenix dactylifera	Date Palm	ex ground	8-10m	2
*Tristaniopsis laurina 'Luscious'***	Watergum	400L	8-10m	5
SHRUBS				
*Acacia longifolia subsp. Sophorae***	Coast Wattle	200mm	1m	80
Allocasuarina distyla	Scrub She-Oak	200mm	1.2m	80
Artemisia arborescens 'Powis Castle'	Wormwood Powis Castle	200mm	0.6 -0.9m	80
*Banksia aemula****	Wallum Banksia	200mm	0.6 -0.9m	60
*Banksia ericifolia****	Heath-leaved banksia	200mm	0.5 - 1.5m	60
*Callistemon 'White Anzac'**	White Anzac	200mm	0.5 - 1.5m	150
Santolina chamaecyparissus	Cotton Lavender	200mm	0.6m	120
*Westringia fruticosa***	Coastal Rosemary	200mm	1m	215
GRASSES & FERNS				
*Doodia aspera***	Prickly Rasp Fern	150mm	0.4m	120
*Asplenium australasicum***	Birds Nest Fern	200mm	0.6m	20
*Lomandra longifolia****	Spiny-head mat-rush	200mm	0.8m	250
GROUNDCOVERS				
*Casuarina glauca 'Cousin It'**	Cousin It	150mm	0.1-0.3m	120
Juniperus conferta	Shore Juniper	150mm	0.3m	150
Rosmarinus 'Irene'	Irene	150mm	0.1-0.3m	250
Senecio serpens	Chalksticks	150mm	0.1-0.3m	150
*Viola hederacea***	Native Violet	150mm	0.1-0.3m	300
CLIMBERS				
*Hibbertia scandens****	Snake Vine			

*** ESBS
** Annexure B3-1 Waverley DCP Planting List
* Native

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Queens Park Rd,
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SCALE: N/A
DRAWN: JR
ISSUE: S455

DWG. TITLE
PLANTING PALETTE - CENTRAL LAWN & WALKWAYS

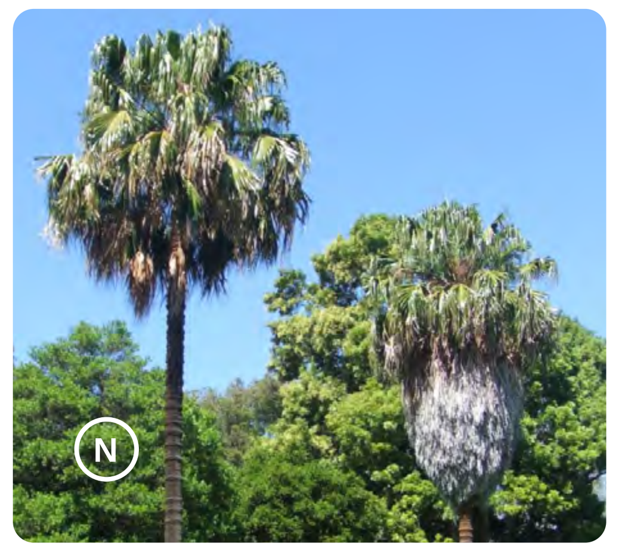
PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 90 146 901 322

TREES


Tristaniopsis laurina 'lushious'


Ficus rubignosa


Livistona australis


Leptospermum laevigatum

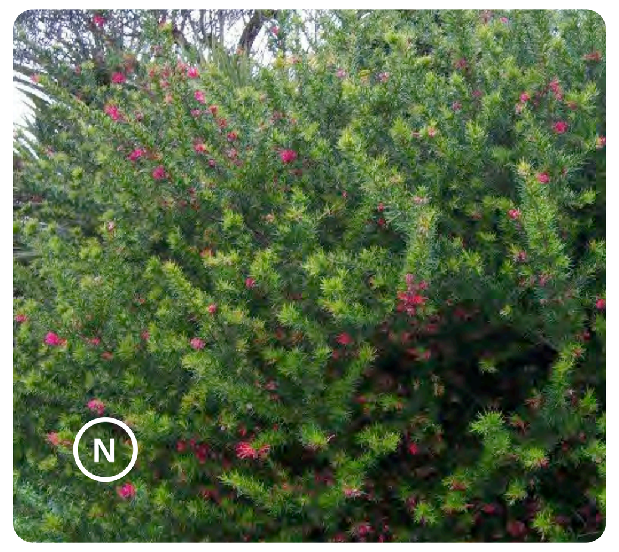

Angophora costata


Banksia integrifolia

SHRUBS & FERNS


Alyxia buxifolia


Banksia ericifolia


Grevillea rosmarinifolia


Correa alba


Westringia fruticosa


Crowea saligna

GRASSES, GROUNDCOVERS & CLIMBERS

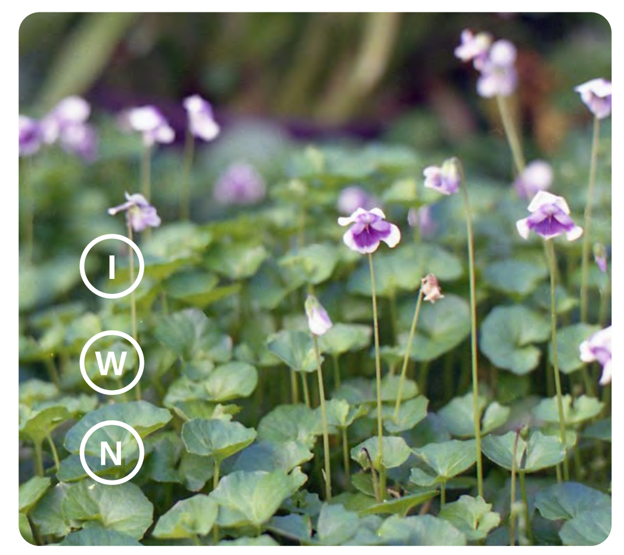

Carpobrotus glaucescens


Hibbertia scandens


Senecio serpens


Rosmarinus 'Irene'


Lomandra longifolia


Viola hederacea

KEY PLAN

- (J) JEWISH CULTURAL SIGNIFICANCE
- (I) INDIGENOUS CULTURAL SIGNIFICANCE
- (E) EASTERN SUBURBS BANKSIA SCRUB
- (N) NATIVE
- (W) WAVERLEY COUNCIL APPROVED SPECIES

S455 CHANGES
- Increase by 24 trees

PLANT SCHEDULE

Botanical Name	Common Name	Pot Size	Mature Height	Quantity
TREES & PALMS				
Angophora costata	Sydney Red Gum	400L	15m	2
*Banksia integrifolia****	Coast Banksia	200L	4 - 15m	8
*Callistemon citrinus****	Crimson Bottlebrush	200mm	4m	2
*Cupaniopsis anacardioides***	Tuckeroo	400L	5 - 8m	5
*Elaeocarpus reticulatus****	Blueberry Ash	200L	3-15m	1
*Ficus rubignosa***	Port Jackson Fig	800L	12m	1
*Livistona australis**	Cabbage Tree Palm	ex ground	15m	3
*Leptospermum laevigatum****	Coast Tea Tree	100L	15m	6
*Melaleuca nodosa****	Prickly-leaved paperbark	100L	3m	1
*Tristaniopsis laurina 'Luscious'***	Water Gum	400L	8m	15
SHRUBS				
*Alyxia buxifolia**	Sea Box	200mm	1.5-2m	35
*Banksia ericifolia****	Heath-Leaved Banksia	200mm	2 - 7m	15
*Correa alba***	White Correa	200mm	2m	~~45~~
*Crowea saligna***	Willow Leaved Crowea	200mm	0.8 - 1m	~~45~~
*Grevillea rosmarinifolia**	Rosemary Grevillea	200mm	0.75 - 1.5m	35
*Westringia fruticosa ***	Coastal Rosemary	200mm	1m	35
GRASSES & FERNS				
*Lomandra longifolia****	Spiny Mat-Rush	150mm	0.4 - 1m	125
GROUNDCOVERS				
*Carpobrotus glaucescens***	Pigface	150mm	0.1-0.3m	50
Rosmarinus 'Irene'	Irene	150mm	0.1-0.3m	25
Senecio serpens	Chalksticks	150mm	0.1-0.3m	25
*Viola hederacea***	Native Violet	150mm	0.1-0.3m	250
CLIMBERS				
*Hibbertia scandens****	Guinea Flower	150mm	0.1-0.3m	45

*** ESBS
** Annexure B3-1 Waverley DCP Planting List
* Native

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ISS.	AMENDMENT	DATE	BY
G	Amended Landscape SSDA Report	14.11.20	LB
H	S455	24.10.24	LB
I	Amended S455 - Address Council Comments	21.03.25	LB
J	Amended S455 - Address Council Comments	25.06.25	LB
K	S455 Modification	16.01.26	GD
L	S455 Modification	20.01.26	GD

ARCHITECT
fjc studio
Level 5, 70 King Street
Sydney, NSW, 2000, AUS
T +61 2 9251 7077

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DWG. TITLE
PLANTING PALETTE - SPORTS COURTS & TERRACES

PROJECT
MCMSC - MORIAH COLLEGE

360°
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Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
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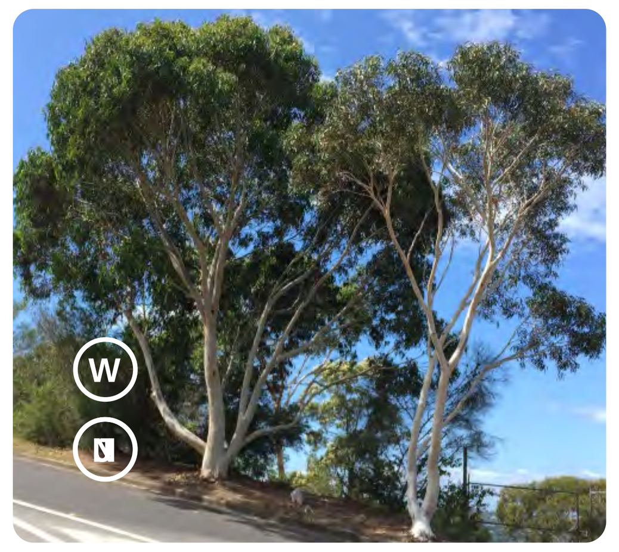
L-DA- 30

TREES

Leptospermum laevigatum

Corymbia gummifera



Eucalyptus haemastoma

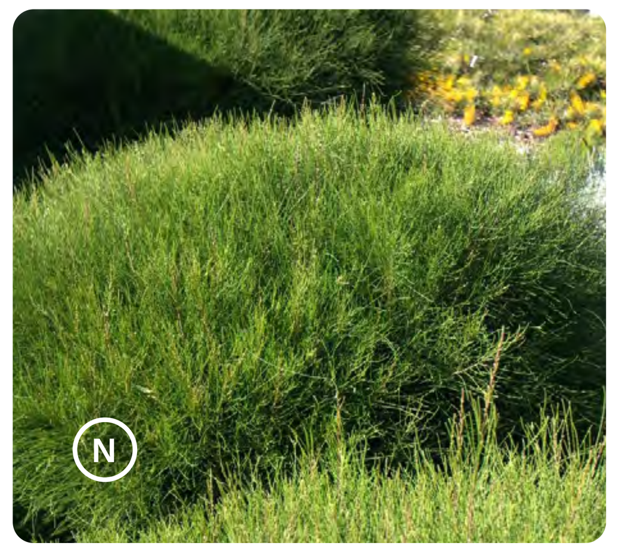
Elaeocarpus reticulatus

Olea Europea

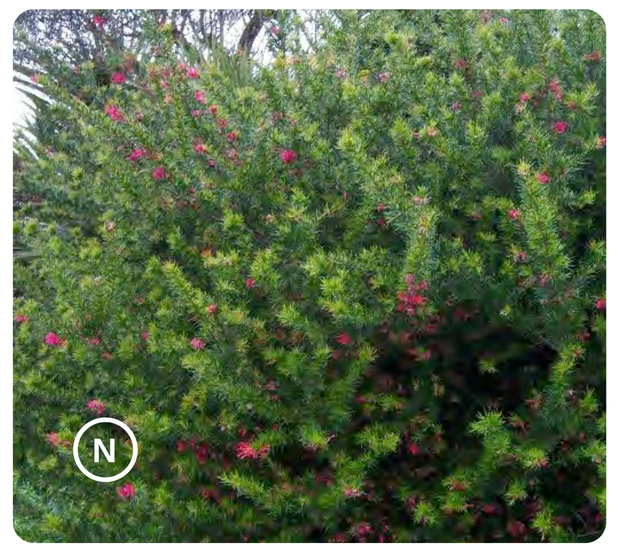
Leptospermum laevigatum

SHRUBS & FERNS

Alyxia buxifolia



Casuarina glauca 'greenwave'



Grevillea rosmarinifolia

Eriostemon australasius

Westringia fruticosa

Banksia aemula

Melaleuca thymifolia

Acacia binervia

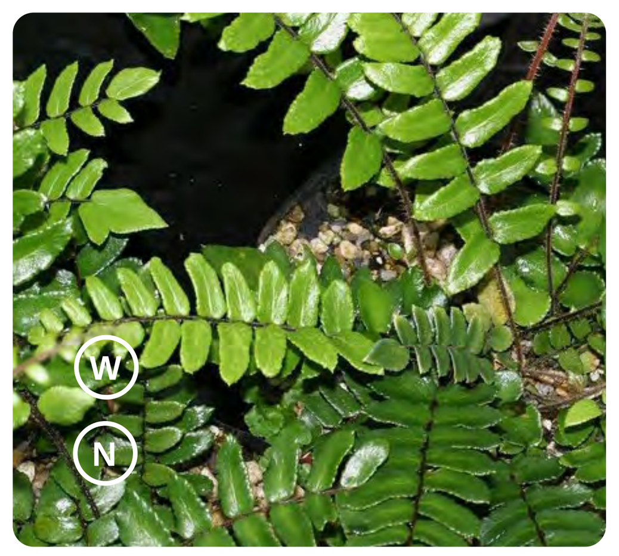
Allocasuarina distyla

Banksia ericifolia

Crowea saligna

Juniperus horizontalis 'Glauca'

Doodia aspera

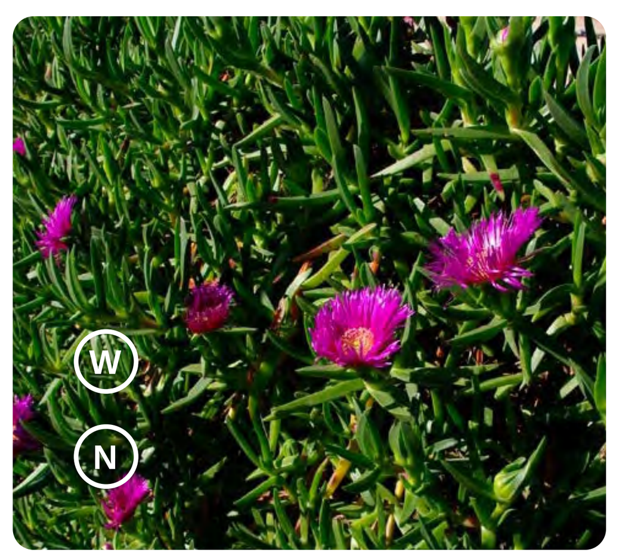


Pellaea falcata

Acacia longifolia

GRASSES, GROUNDCOVERS & CLIMBERS

Lomandra longifolia



Carpobrotus glaucescens

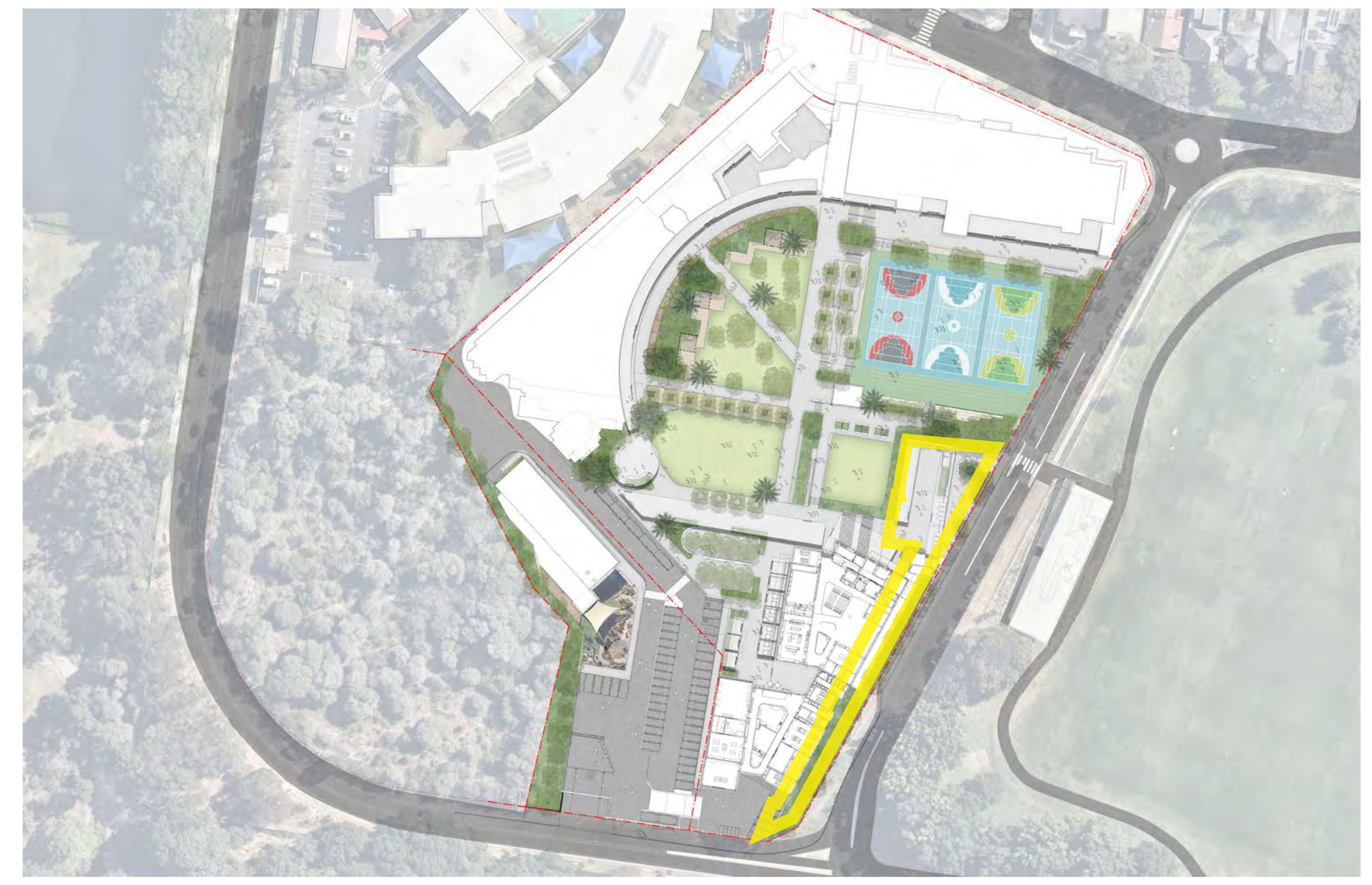
Casuarina glauca 'Cousin It'

Hibbertia scandens

Pandorea pondorana


Rosmarinus 'Irene'

NOTE.
QUANTITY AND LOCATION OF OLIVE TREES (*OLEA EUROPEA*) ARE SUBJECT TO WAVERLEY COUNCIL REVIEW AND APPROVAL AS PART OF CC DOCUMENTATION AND COORDINATION



KEY PLAN

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- (I) INDIGENOUS CULTURAL SIGNIFICANCE
- (E) EASTERN SUBURBS BANKSIA SCRUB
- (N) NATIVE
- (W) WAVERLEY COUNCIL APPROVED SPECIES

S455 CHANGES
- Increase by 4 trees

PLANT SCHEDULE

Botanical Name	Common Name	Pot Size	Mature Height	Quantity
TREES & PALMS				
*Banksia integrifolia****	Coast Banksia	100L	4 - 15m	3
*Corymbia gummifera****	Red Bloodwood	300L	20m	3
*Elaeocarpus reticulatus****	Blueberry Ash	200L	3-15m	3
*Eucalyptus haemastoma***	Scribbly Gum	400L	15m	1
*Leptospermum laevigatum****	Coast Tea Tree	100L	15m	2
Olea Europea	Olive Tree	300L	4 - 8m	1
*Tristaniopsis laurina 'Luscious'***	Water Gum	400L	8m	3
SHRUBS				
*Acacia binervia***	Coast Myall	200mm	4m	35
*Acacia longifolia***	Sydney Golden Wattle	200mm	6m	35
*Allocasuarina distyla****	Scrub She-Oak	200mm	1.2m	150
*Alyxia buxifolia**	Sea Box	200mm	1.5-2m	200
*Banksia ericifolia****	Heath-Leaved Banksia	200mm	2 - 7m	200
*Banksia aemula****	Wallum Banksia	200mm	0.6 -0.9m	50
*Casuarina glauca 'greenwave'**	Casuarina Greenwave	200mm	2m	150
*Crowea saligna***	Willow Leaved Crowea	200mm	0.8 - 1m	150
*Eriostemon australasius****	Pink Wax Flower	200mm	0.6 - 2m	180
*Grevillea rosmarinifolia**	Rosemary Grevillea	200mm	0.75 - 1.5m	250
*Leptospermum laevigatum****	Coastal Tea Tree	200mm	4m	200
*Melaleuca thymifolia***	Thyme Honey Myrtle	200mm	1.5m	50
*Westringia fruticosa***	Coastal Rosemary	200mm	1m	200
GRASSES & FERNS				
*Doodia aspera***	Prickly Rasp Fern	150mm	0.4m	150
*Lomandra longifolia****	Spiny Mat-Rush	150mm	0.4 - 1m	370
*Pellaea falcata***	Sickle Fern	150mm	0.3m	80
GROUNDCOVERS				
*Carpobrotus glaucescens***	Pigface	150mm	0.1-0.3m	225
*Casuarina glauca 'Cousin It'**	Cousin It	150mm	0.1-0.3m	225
Juniperus horizontalis Glauca	Creeping Juniper	150mm	0.1-0.3m	30
Rosmarinus 'Irene'	Irene	150mm	0.1-0.3m	80
CLIMBERS				
*Hibbertia scandens****	Guinea Flower	150mm	0.1-0.3m	100
*Pandorea pandorana***	Wonga Wonga Vine	150mm	2 - 2m	120

*** ESBS
** Annexure B3-1 Waverley DCP Planting List
* Native

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ARCHITECT
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DWG. TITLE
PLANTING PALETTE - STREET FRONT, ENTRIES & BUILDING COURTYARD

PROJECT
MCMSC - MORIAH COLLEGE

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ROOF TERRACE DELETED

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ARCHITECT

fjc studio

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SCALE N/A | **DRAWN** JR | **ISSUE** S455

DWG. TITLE
PLANTING PALETTE - ROOF TERRACE

PROJECT
MCMSC - MORIAH COLLEGE

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Surry Hills NSW 2010
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ABN: 90 146 901 322

L-DA-32

TREES

Angophora costata

Banksia integrifolia

Leptospermum laevigatum

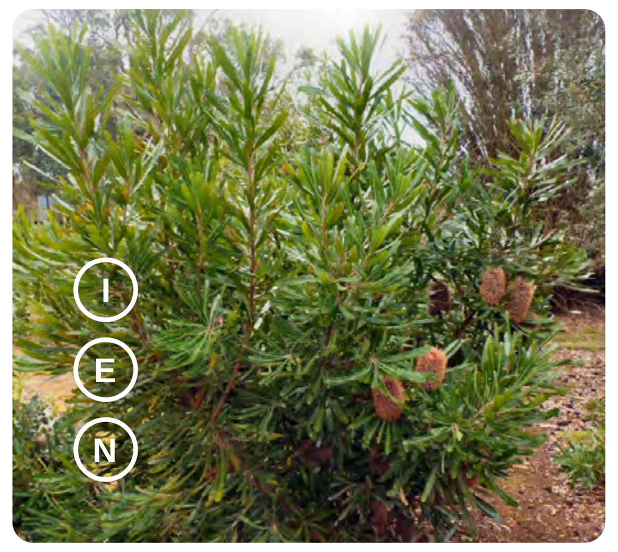
Melaleuca nodosa

Corymbia gummifera

Eucalyptus haemastoma

SHRUBS & GRASSES

Banksia ericifolia

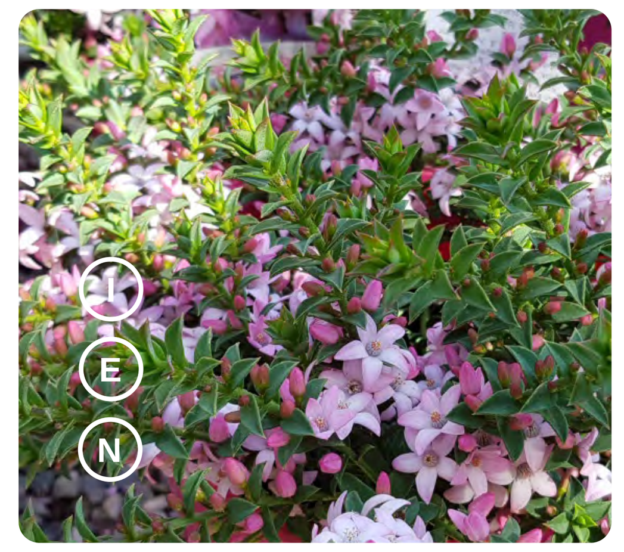


Banksia aemula

Isopogon anemonifolius

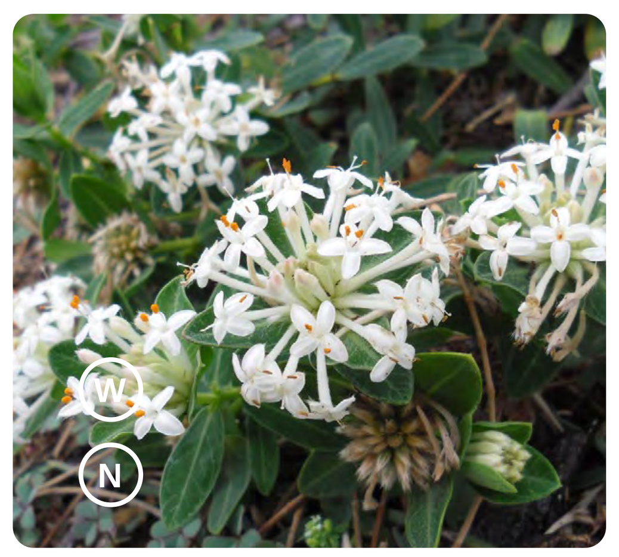
Grevillea speciosa

Kunzea ambigua



Philotheca buxifolia

Persoonia lanceolata

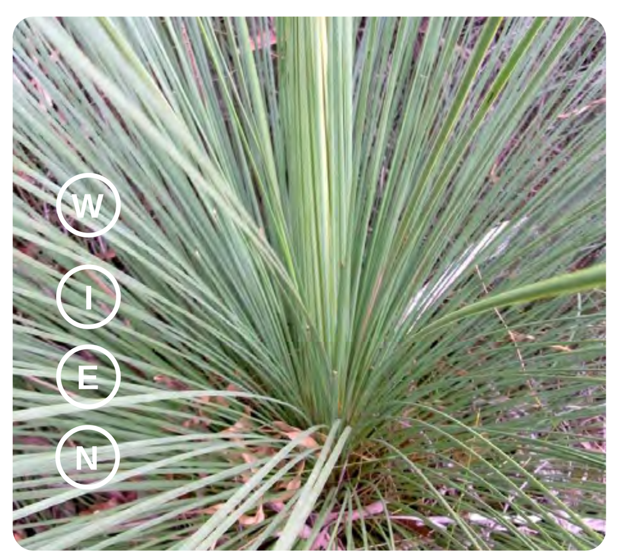


Pimelea linifolia

Acacia longifolia

GRASSES, GROUNDCOVERS & CLIMBERS

Dianella revoluta

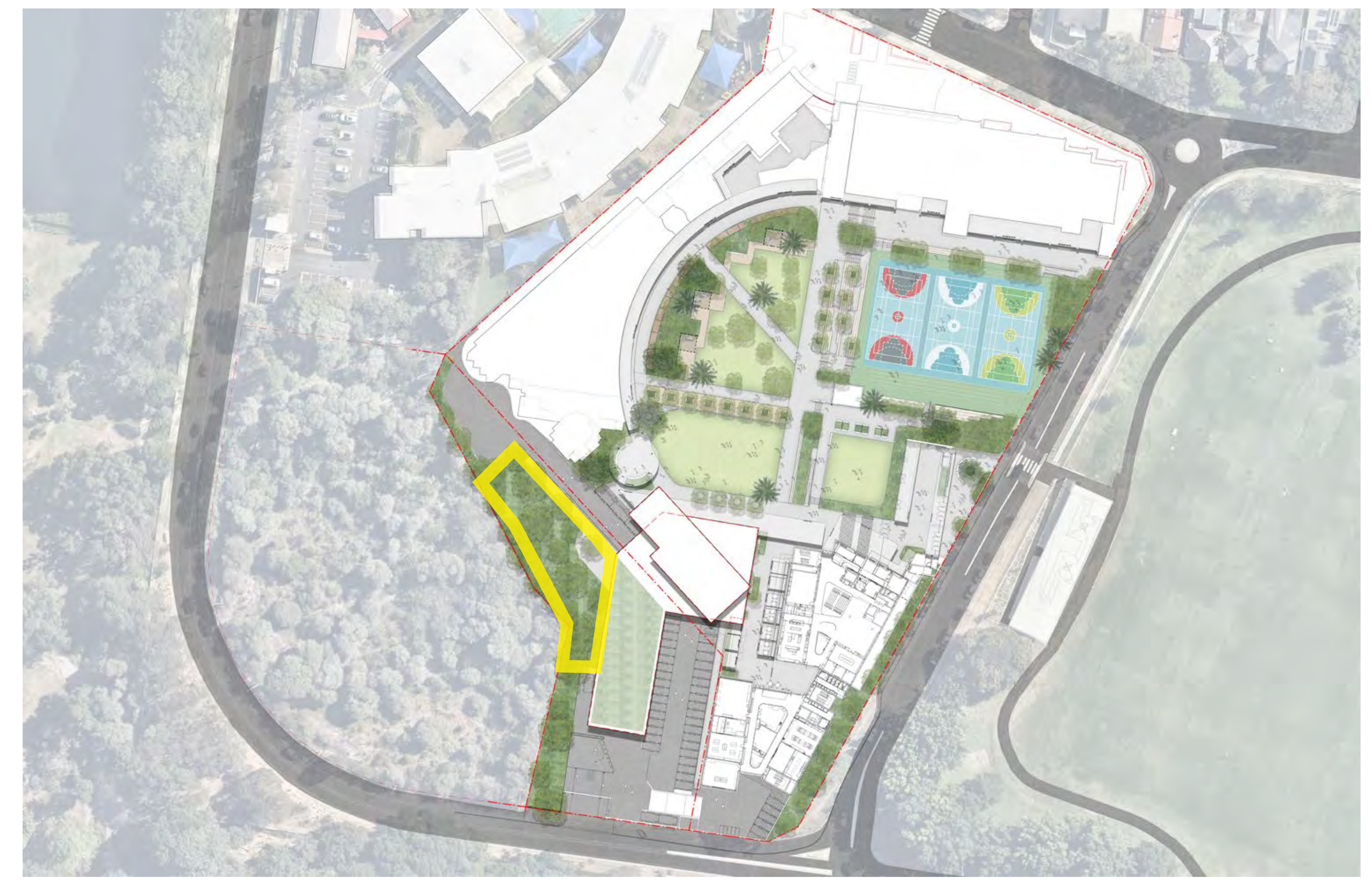


Xanthorrhoea resinosa

Lomandra longifolia

Myoporum parvifolium

Hardenbergia violacea



KEY PLAN

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- (E) EASTERN SUBURBS BANKSIA SCRUB
- (N) NATIVE
- (W) WAVERLEY COUNCIL APPROVED SPECIES

S455 CHANGES

- Increase by 5 trees

PLANT SCHEDULE

Botanical Name	Common Name	Pot Size	Mature Height	Quantity
TREES & PALMS				
*Angophora costata***	Smooth-barked Apple	300L	20m	1
*Banksia integrifolia****	Coast Banksia	100L	4 - 15m	3
*Corymbia gummifera***	Red Bloodwood	300L	20m	2
~~*Cupaniopsis anacardioides***~~	~~Tuckeroo~~	~~400L~~	~~5 - 8m~~	~~0~~
*Elaeocarpus reticulatus****	Blueberry Ash	45L	3-15m	5
*Eucalyptus haemastoma***	Scribbly Gum	400L	15m	1
*Leptospermum laevigatum****	Coast Tea Tree	100L	8m	3
Melaleuca nodosa	Prickley leaved paperbark	45L	4m	2
SHRUBS				
Banksia aemula ***	Wallum Banksia	200mm	3 - 5m	180
Banksia ericifolia ***	Heath-Leaved Banksia	200mm	2 - 7m	180
*Grevillea speciosa***	Red Spider Flower	200mm	1 - 2m	270
*Isopogon anemonifolius**	Broad-leaved Drumsticks	200mm	1 - 1.5m	90
*Kunzea ambigua****	Tick Bush	200mm	2-3m	180
Leptospermum laevigatum ***	Coastal Tea Tree	200mm	4m	270
*Philotheca buxifolia****	Box Leaf Waxflower	200mm	0.3m	180
*Pimelea linifolia***	Slender Rice Flower	200mm	1m	180
*Persoonia lanceolata****	Lance-Leaf Geebung	200mm	2m	180
GRASSES & GROUNDCOVERS				
*Dianella revoluta****	Blueberry Lily	150mm	0.3m	846
*Lomandra longifolia****	Spiny Mat-Rush	150mm	0.4 - 1m	846
Xanthorrhoea resinosa ***	Grass Tree	200mm	0.6m	564
*Myoporum parvifolium**	Creeping Boobialla	150mm	0.2m	1353
CLIMBERS				
*Hardenbergia violacea****	False sarsaparilla	150mm	0.5 - 2m	35

*** ESBS
** Annexure B3-1 Waverley DCP Planting List
* Native

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DWG. TITLE
PLANTING PALETTE - EARLY LEARNING CENTRE

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Surry Hills NSW 2010
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TREES

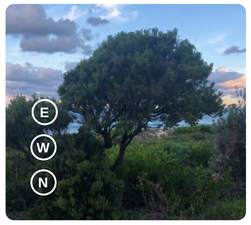
Elaeocarpus reticulatus

Banksia integrifolia

Melaleuca nodosa

Leptospermum laevigatum

Callistemon citrinus



Monotoca elliptica

SHRUBS & GRASSES

Banksia ericifolia

Banksia aemula

Allocasuarina distyla

Philorheca buxifolia

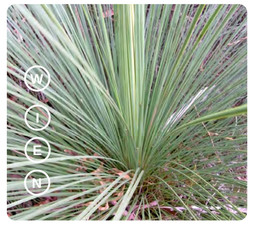
Eriostemon australasius

Kunzea ambigua

Persoonia lanceolata

GRASSES, GROUNDCOVERS & CLIMBERS

Dianella revoluta



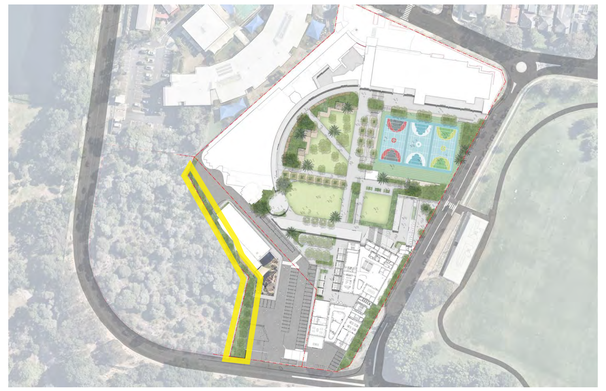
Xanthorrhoea resinosa

Lomandra longifolia

Hibbertia scandens

Billardiera scanden

Goodenia paniculata



KEY PLAN

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- (I) INDIGENOUS CULTURAL SIGNIFICANCE
- (E) EASTERN SUBURBS BANKSIA SCRUB
- (N) NATIVE
- (W) WAVERLEY COUNCIL APPROVED SPECIES

NOTES.
A 'vegetation protection buffer zone' within Lot 22 along its common boundary with Lot 23 to buffer the Eastern Suburbs Banksia Scrub critically endangered ecological community has been incorporated in accordance with conditions associated with development application LD 282/00.

Planting within the 'vegetation protection buffer zone' will be completed in accordance with a revised Vegetation Management Plan (VMP) that is endorsed by Environment, Energy and Science Group of DPIE, Waverley Council, and Centennial Park and Moore Park Trust (CPMPT).

Revegetation will be undertaken by a suitably qualified bush regenerator with experience in restoring and maintaining the Eastern Suburbs Banksia Scrub in the Sydney Basin Bioregion (ESBS) vegetation community.

- Plants used are to be ESBS local provenance.
- ESBS plants are to be sourced from within a 10km range of the site.

The VMP Area will be managed, maintained and monitored in perpetuity by a suitably qualified bush regenerator with experience in restoring and maintaining the Eastern Suburbs Banksia Scrub in the Sydney Basin Bioregion (ESBS) vegetation community.

NO CHANGE

PLANT SCHEDULE

Botanical Name	Common Name	Pot Size	Mature Height	Quantity
TREES & PALMS				
*Banksia integrifolia****	Coast Banksia	100L	4 - 15m	3
*Callistemon citrinus****	Crimson Bottlebrush	200mm	4m	2
*Elaeocarpus reticulatus****	Blueberry Ash	200L	3-15m	4
*Leptospermum laevigatum****	Coast Tea Tree	100L	8m	4
*Monotoca elliptica****	Broom Heath	100L	4-8m	2
*Melaleuca nodosa****	Prickly-leaved paperbark	100L	3m	4
SHRUBS				
*Allocasuarina distyla****	Scrub She-Oak	200mm	1.2m	144
Banksia aemula ***	Wallum Banksia	200mm	3 - 5m	144
Banksia ericifolia ***	Heath-Leaved Banksia	200mm	2 - 7m	144
*Eriostemon australasius****	Pink Wax Flower	200mm	0.6 - 2m	144
*Kunzea ambigua****	Tick Bush	200mm	2-3m	144
*Philotheca buxifolia****	Box Leaf Waxflower	200mm	0.3m	144
*Persoonia lanceolata****	Lance-Leaf Geebung	200mm	2m	144
GRASSES & GROUNDCOVERS				
*Billardiera scandens****	Apple Berry	150mm	0.2 - 0.5m	720
*Dianella revoluta****	Blueberry Lily	150mm	0.3m	675
*Goodenia paniculata****	Branched goodenia	150mm	0.3m	245
*Lomandra longifolia****	Spiny Mat-Rush	150mm	0.4 - 1m	675
Xanthorrhoea resinosa ***	Grass Tree	200mm	0.6m	450
*Hibbertia scandens****	Creeping Boobialla	150mm	0.2m	1080

*** ESBS
** Annexure B3-1 Waverley DCP Planting List
* Native

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J	Amended S455 - Address Council Comments	25.06.25	LB
K	S455 Modification	16.01.26	GD
L	S455 Modification	20.01.26	GD

ARCHITECT
fjc studio
Level 5, 70 King Street
Sydney, NSW, 2000, AUS
T +61 2 9251 7077

IMPORTANT NOTES:
Do not scale from drawings
All discrepancies to be brought to the attention of the Landscape Architect.
All dimensions are in millimetres unless noted otherwise. Dimensions take preference. All dimensions in mm unless otherwise stated.
All tree dimensions and RLs in metres.
Use figured dimensions only.
All RLs to be confirmed on site before the commencement of any works.
Contractors shall locate and protect all services prior to construction.
All work shall be carried out in accordance with ASA, BCA and Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
All Hydraulic Shop Drawing Details shall be subject to Hydraulic Engineer's Specifications.
All work shall be executed in a professional manner by Qualified Tradesmen according to Landscape Drawings and Engineer's Specifications.
No responsibility will be taken by 360 degrees. for any variations in design, construction method, materials specified, and workmanship executed which differ from the Project Engineer or Landscape Architect.
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	ISSUE S455

DWG. TITLE
PLANTING PALETTE - EASTERN SUBURBS BANKSIA SHRUB BUFFER

PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 9332 3601
w www.360.net.au
ABN: 80 148 801 322

L-DA- 34

STANDARDS OF MAINTENANCE

- Maintain whole of landscape works from the date of practical completion of "Landscape Works"
- All work is to be performed in accordance with all applicable laws, ordinances and regulations required by authorities having jurisdiction over such work and are to provide for all inspections and permits required by Federal, State and Local Governments and Authorities in procuring and transporting materials.
- Unless otherwise specified, current relevant Australian Standards are to be observed.
- Ensure site is maintained in a safe, and as far as practicable, clean and tidy condition.
- Airborne dust is to be kept to a minimum.
- Ensure that no spillages or discharges of oil, fuel or other pollutants occur during servicing, refuelling or works operations.
- Driving of vehicles within council parks and reserves is to be minimised.
- Parking and driving of vehicles within TPZ is prohibited.
- Unless absolutely necessary to carry out works, the driving of plant and equipment in the following areas is to be avoided:
  - irrigated areas
  - landscaped areas
  - tree root zones
  - Council infrastructure areas.
- Access to open space areas for specific works is to be coordinated with the Superintendent.

RECTIFICATION OF DAMAGE

- Contractor is to rectify, at their own expense, any damage to landscaped areas, including compaction and wheel ruts
  - shrubs, plants and trees
  - footpaths
  - medians
  - kerb and channel
  - any other council or public property caused by maintenance operations or the movement of vehicles or plant.
- Uphold a no net loss of vegetation philosophy, and all plants that are damaged beyond rectification (as assessed by Project Arborist) are to be replaced at a minimum ratio of 1:1.
- If a tree is is removed in error or damaged beyond the point of rectification, a 'no net canopy loss offset' replacement is required. This offset considers the area of the tree canopy and number of new trees to achieve the same area of canopy within a given timeframe.

GENERAL MAINTENANCE

Throughout the planting establishment period, the Contractor is to carry out all maintenance work including:

- watering
- weeding
- rubbish removal
- fertilising
- pest and disease control
- reseeding
- staking and tying replanting
- cultivating
- pruning
- hedge clipping
- aerating
- mulch reinstatement
- renovation
- Trellis maintenance
- Provide the Superintendent with a report (at monthly intervals) of activities completed

WEED CONTROL

- Inspect garden beds and mass planting areas for weeds and rectify as required to prevent seeding, germination and competition.
- Weeds within tree basins are to be removed by hand.
- Retaining mulch levels within tree basins assists in keeping weed growth to a minimum.
- Stream banks, damp exposed areas and other weed prone areas are to have appropriate weed control measures enforced.
- Hand weeding should be part of an integrated approach to weed control, particularly if there is a possible risk to waterways or damaging desirable plant species.
- Avoid herbicide residue leaching into nearby waterways.
- Eradicate weeds using an approved herbicide.
- Adhere strictly to manufacturers application instruction, rates and safety procedures.
- Herbicides are to be applied outside normal operating areas, but not during extreme temperature or high wind periods.
- Watering is to be delayed for the recommended period after application.

PEST AND DISEASE CONTROL

- Immediate notice is to be given to Superintendent when evidence of significant insect attack or disease amongst plant material is found.
- If pests and diseases are identified, affected portions are to be removed from the plant and disposed of off site.
- Chemical methods are to be secondary control measures where pruning is not successful. Where required, spray with non-toxic organic pesticide, fungicide, or both, at the discretion of the Superintendent / Arborist.
- Approval is to be obtained from Superintendent 5 days prior to the use of pest and disease control chemicals.
- Adhere strictly to manufacturers application instructions, rates and safety procedures.
- Pesticides are to be applied outside normal operating hours.
- Pesticides are not to be applied during extreme temperature, high wind or rain periods.
- Irrigation is to be delayed for the recommended period after application.

LITTER COLLECTION AND REMOVAL

- Waste from contractors activities is to be removed from site.
- In hardstand areas, vegetative matter is to be removed from around trees and shrubs.
- Mulch spilt from garden areas is to be reinstated
- Collection of all hard waste and litter from within the subject site
- Sweep/vacuum leaf litter

WATERING

- Mass planted areas, trees and palms are to be sufficiently watered to maintain adequate soil moisture during the specified maintenance period. This should be achieved using low pressure with adequate volume.
- Generally every two to three days in summer.
- Generally every three to four days in winter.
- Allow soil surface to partially dry out between watering.
- Watering shall be increased during periods of wind, drought and/or where soils have low moisture retaining characteristics.
- Rates may be decreased during periods of high rainfall.
- Ensure moisture is maintained in planting media in sufficient quantities to promote plant growth and minimise stress after installation.
- Watering is to be prioritised for early morning or night application to lessen evaporation.
- Water used for plant establishment and maintenance is to have:
  - a pH of between 5.5 – 7.5
  - total soluble salts less than 1000mg/L
  - no phytotoxic substances.

PLANT MAINTENANCE

GENERAL PRUNING

- Prior to pruning activities, plants are to be evaluated for natural growth habit and relationship to total landscape.
- Shrubs and groundcovers are to be pruned to encourage natural plant form.
- Smooth, clean cuts are to be used to encourage fast healing.
- Equipment is to be sharp and sized appropriately for pruning requirements.
- Generally, plants are to be pruned after flowering.
- The combined techniques of thinning out and dead heading are to be used to encourage natural growth habit.
- Remove dead organic matter and diseased plant material.
- Remove branches and foliage overhanging pavements and paths, in line with current standards for road and footpath clearances.
- All vines and creepers are to be pruned to keep clear of all tree trunks and canopies

SPECIFIC PRUNING TECHNIQUES

- Shrubs
- Prune in a manner that encourages natural form.
- Allow skirt to grow down to ground level.
- Do not prune off bottom growth.
- Groundcovers
- Prune to encourage dense coverage.
- Vines
- Encourage horizontal spread by removing vertical growth.
- Allow spreading to form a dense mat.
- Trim groundcovers in planter boxes to formalise cascading beyond the planter.
- Prune to keep the height and spread in scale with surrounding planter boxes and remove runners that have a tangled appearance

FERTILISING

- A general purpose fertiliser is to be applied as per the manufacturers application instructions, rates and safety procedures.
- Soils are to be moist.
- Irrigation systems or hand held hoses are to be used to wash excess fertiliser from plants to prevent burning.
- Landscaped areas are to have repeat irrigation the morning following the fertiliser application.

REPLACEMENT

- Where plants fail or die during the 'on maintenance' period, it is the contractors responsibility to replace those plants, as soon as practicable.
- Approval is required by the Superintendent prior to purchasing and planting of replacement plants.
- Replacement plants are to be the same size as described in the contract, plant schedule and/or landscape drawings.

VMP

The VMP Area must be managed, maintained and monitored in perpetuity by a suitably qualified bush regenerator with experience in restoring and maintaining the Eastern Suburbs Banksia Scrub in the Sydney Basin Bioregion (ESBS) vegetation community.

TREE MAINTENANCE

GENERAL PRUNING

- All tree pruning, maintenance, pest and disease control, etc. is to be undertaken under the guidance and supervision of a council approved Arborist.
- Prior to commencing any pruning operation, evaluate trees for their natural growth habit and relationship to the total landscape.
- Pruned trees are to be left in an aesthetically pleasing condition.
- Trees are to maintain a shape and character appropriate for the species and the environment.
- Tree pruning may be required to:
  - enhance tree health and structure
  - reduce failure risk
  - meet specified clearance requirements
  - meet traffic visibility requirements
  - improve form
  - encourage growth direction in young trees.
- Pruning is to be undertaken by a qualified Arborist, experienced in the formative pruning of young trees and in a manner that minimises damage to trees, in accordance with AS 4373:2007 – Pruning of Amenity Trees.
- Key elements of this include:
  - no lopping or topping of trees
  - no flush cuts
  - no greater than 25% of tree crown removed.
- generally to be pruned to maintain clearances and access beneath the canopy
- remove lower branches where required, to provide clearance over footpaths and roads to improve visibility and maintain CPTED guidelines
- remove dead, diseased or damaged limbs
- remove suckers from the base of tree
- improve the structure of tree, e.g. pruning to define a leader in a codominant tree.
- formative pruning works are to focus on defining a leading stem or to improve the overall branching framework or structure of a tree.

DAMAGE

- Where damage occurs to trees as a result of the actions of the contractor, the contractor will be held responsible for the repair or replacement of tree or palm stock.

DISPOSAL OF PLANT MATERIAL

- Dead timber, dead trees and large diameter trunks are to be removed from site by the contractor and delivered to green waste dumps
- Contaminated or infected materials must be taken directly to a tipping site

SOIL AERATION

- Deep aeration of the soil should be conducted to decompact tree root zones, where required.
- Equipment that uses compressed air to fracture the soil is to be utilised for decompaction work e.g. Air spade or equivalent.

FERTILISiNG

Large trees:

- Core 50mm holes around the drip line perimeter 500mm apart and 500mm deep.
- Backfill holes with a mixture of 50% soil and 50% Dynamic Lifter (or equivalent) granular form.
- Use a liquid soil injection system at the same spacing around the dripline, as described above.

Smaller, young trees:

- Surface fertiliser with Dynamic Lifter (or equivalent) and cultivate lightly into the ground surface.

RE-MULCHING

- Replenish mulched areas to maintain a consistent depth of 75mm–100mm.
- Mulch used is to match originally specified material.
- Mulch is to be raked to an even surface to the level of the surrounding finish.
- Spread mulch so that after settling it is smooth and evenly graded toward the base of plant stems, forming a shallow dish drain with the aim of preserving soil moisture, providing essential soil nutrients and suppressing weed growth.
- Mulch is not to be closer than 100mm from the plant stem / trunk

REPLACEMENT

- Replacement trees or palms are to be the same size and type as described in the contract

ROOF TERRACE PLANTING MAINTENANCE

Routine maintenance of the vertical mesh trellis systems are to be undertaken only by the manufacturer/provider or their nominated personnel. Following completion of the 'on' maintenance period, the contractor is to provide a detailed maintenance manual for the system. During the maintenance period, site visits are to be undertaken on a weekly basis for the initial period of 8 weeks post practical completion, then reducing to bi-monthly visits. Below is a summary of the observations and actions that are to be carried out during each visit.

Observations

- Comment on plant performance, make note of each species in reference to their appearance since last visit.
- Look for damage resulting from pests or disease on each species
- Check growth rate and performance
- Soil moisture level

Actions

- Check and adjust as appropriate pH or nutrient levels of the soil
- Treat for pests and disease as necessary
- Remove irrigation filter and clean (monthly)
- Adjust irrigation rates according to season and external factors
- check for dead or unhealthy foliage and remove using appropriate methods to avoid risk of infection to plants
- prune any plants that are growing too far from intended cable system
- Trim plants as necessary to encourage lateral or branching growth to avoid woody understory
- Remove weeds

Recording

- Observations of plant performance
- Current irrigation schedule and adjustments
- Document pictures
- Additions of nutrients etc
- Pest or disease presence and treatment

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ARCHITECT
fjc studio
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Sydney, NSW, 2000, AUS
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IMPORTANT NOTES:
Do not scale from drawings
Any discrepancies must be brought to the attention of the Landscape Architect
Larger scale drawings and written dimensions take preference. All dimensions in mm unless otherwise stated.
All tree dimensions and RLs in metres.
Use figured dimensions only.
Verify all dimensions on site before the commencement of any works.
Contractors shall locate and protect all services prior to construction.
All work shall be carried out in accordance with ASA, BCA and Local Government Regulations.
Structural Details shall be subject to Engineer's Specifications.
Waterproofing Details shall be subject to Waterproofing Engineer's Specifications.
All work shall be carried out in a professional manner by Qualified Tradesman according to Landscape Drawings and Engineer's Specifications.
No responsibility will be taken by 360 degrees for any variations in design, construction method, materials specified, and service specifications without permission from the Project Engineer or Landscape Architect.
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Queens Park NSW 2022

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LANDSCAPE MAINTENANCE STATEMENT

PROJECT
MCMSC - MORIAH COLLEGE

360°
Level 1, 1 Marys Place
Surry Hills NSW 2010
p +612 8362 3601
w www.360.net.au
ABN: 90 148 901 322

L-DA- 36

‘ON’ MAINTENANCE ACTIVITY SCHEDULE (ESTABLISHMENT & DEFECTS LIABILITY PERIOD)

ACTIVITY	OTHER	WEEKLY		MONTHLY	3 MONTHS	6 MONTHS	ACTION
GENERAL							
Logbook		☐ Summer	☐ Winter				Complete a logbook entry of maintenance work every day at site and at least every two weeks. All actions listed below require a logbook entry. Include details of any chemicals used. Make the log book available for inspection on request. Submit copies of new entries in the logbook to the Contract Administrator on a monthly basis.
PLANTS							
Plants		☐ Summer, Winter during weeks 1-12 from Practical Completion	☐ Winter after 12 weeks from Practical Completion				Inspect all garden beds and planter boxes and attend to all softworks maintenance requirements as required. Inspect and remove spent flowers and dead stalks as they become apparent.
Hand Watering	Every day irrigation does not run during weeks 1-12 after Practical Completion. Afterwards as required.						Supplement irrigation with handwatering during the establishment period. Watering will be dependant on plant requirements, seasonal changes and prolonged periods of dry and windy weather. Adjust as required for optimal plant growth. Do not allow soil and plants to dehydrate. Water in the early morning or late afternoon to avoid excessive evaporation during the heat of the day. Comply with authority regulations for water use where applicable.
Stakes and Ties		☐ Summer	☐ Winter				Inspect and adjust and/ or replace as necessary but remove as plants mature and are able to support themselves.
Trailing Plants		☐ Summer	☐ Winter				Inspect groundcovers are trailing and train or prune as required
Overgrown vegetation		☐ Summer	☐ Winter				Inspect and remove overgrown vegetation including that growing on paths and hardscapes
Pruning		☐ Summer	☐ Winter				Inspect and prune as necessary to remove dead wood, improve plant shape and promote healthy vigorous new growth.
Leaf Litter		☐ Summer	☐ Winter				Remove leaf litter as necessary
Pest and Disease Control		☐ Summer	☐ Winter				Inspect and action as necessary. Use pesticides only if non-chemical methods will not be effective. Spray for disease control only when absolutely necessary.
Plant Replacement		☐ Summer	☐ Winter				Inspect and replace failed, damaged or stolen plants within 2 weeks of observation. Match species, original size and location of new with old.
Fertilising					☐		Fertilise gardens every 3 months or other frequency in accordance with fertiliser manufacturer's directions.

GARDEN BEDS AND PLANTER BOXES							
Weeding		☐ Summer	☐ Winter				Remove all weeds and dispose off site legally
Erosion Control		☐ Summer	☐ Winter				Inspect and repair ground, soil and mulch immediately. Maintain erosion control device as necessary.
Remulching		☐ Summer	☐ Winter		☐ Topup		Inspect and replace mulch deficiencies within 2 weeks of observation. Prior to placing new mulch aerate the soil by fork turning to a depth of at least 100mm, roughly level the soil and then place mulch. Do not disturb major plant roots while aerating soil. Top up mulch every 3 months.
Soilworks					☐		Check soil depths for slumping and top up to design levels using original specified soils
IRRIGATION AND DRAINAGE							
Inspect irrigation system		☐ Summer	☐ Winter				Inspect and adjust the irrigation system to suit plant requirements, seasonal changes and prolonged periods of dry and windy weather.
Inspect and clear drains			☐				Inspect clear drains immediately. Additional inspections are required after heavy rainfall.
HARDWORKS							
Inspect all fixtures and fittings		☐					Inspect and adjust all fixtures and fittings to original specification. Replace as necessary
Oil timber						☐	Oil timber every 6 months or to manufacturer's recommendations
MISCELLANEOUS WORKS							
Litter		☐					Remove all litter, rubbish and debris and the like offsite. Dispose of legally. Do not place in public or other residents bins.
Clean Site		☐					Remove all grass clippings, weeds, dead plant material and the like offsite. Dispose of legally. Do not place in public or other residents bins.
Urgent Works							As required. Complete immediately and within 24hrs of notification

‘ON’ MAINTENANCE IRRIGATION SYSTEM MINIMUM REQUIREMENTS

IRRIGATION	SUMMER	WINTER	ACTION
WEEKS 1-12 AFTER PC			
Plants	4x per week 20mins each run at 5am	3x per week 20mins each run at 5am	Inspect irrigation system weekly at a minimum and adjust to suit zoning and plant requirements, seasonal changes and prolonged periods of wet or dry and windy weather.
AFTER 12 WEEKS FROM PC			
Plants	3x per week 20mins each run at 5am	3x per week 20mins each run at 5am	Inspect irrigation system weekly at a minimum and adjust to suit zoning and plant requirements, seasonal changes and prolonged periods of wet or dry and windy weather.