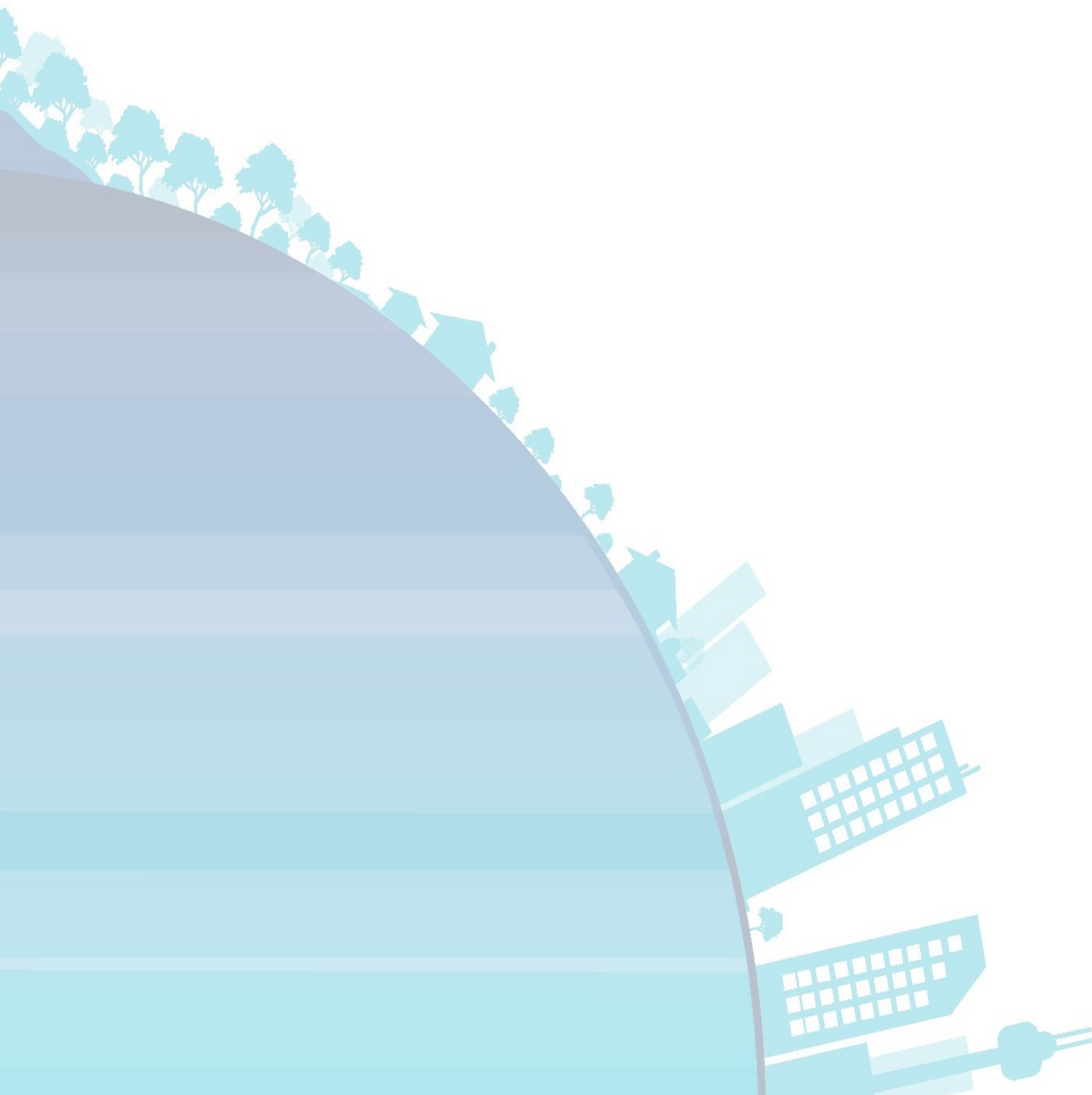


Appendix K. Updated Landscape Plan



University of Wollongong Molecular + Life Science Building

Landscape Design Development

A16060-SK01-Rev H

October 2017

ASPECT Studios™

ASPECT Studios Pty Ltd ABN 11 120 219 561

Existing Landscape Character and Context



Landscape Character Statement

The existing landscape character of the campus is defined by its unique setting at the base of the Illawarra escarpment and its adjacency to the Wollongong Botanic Gardens which together frame a campus that is rich with stands of mature native trees and low plantings.

The setting for the new Molecular + Life Sciences Building provides a great opportunity to extend the horticultural legacy established over many years of landscape curation of the campus, providing a new external learning space within a rich garden setting of predominantly Australian native and indigenous species.

Master Plan Context

The 2016 Campus Master Plan (MGS Architects) puts a considerable focus on elevating the value of external spaces within the campus, through the following key strategies:

- Introducing outdoor informal learning areas.
- Build on the rich legacy of public art, Indigenous culture and cultural diversity of university staff and students.
- Introduce a hierarchy of key pedestrian paths, establishing a combination of primary civic walks, primary green walks and a secondary network of quality paved laneways.
- Celebrate the rich flora of the campus.
- Create a hierarchy of external spaces - Civic plazas, formal lawns and garden courtyards.

The MLSB site provides the opportunity to deliver on a number of these public realm strategies.

Landscape Design Standard

The schematic design has been developed in accordance with the University of Wollongong's Landscape Design Standards, specifically with regard to materials & planting selections to ensure compatibility with the existing campus palette.

Landscape Design Vision Statement



The landscape design for the Molecular + Life Sciences Building and surrounds draws on the rich curated temperate rainforest garden character established throughout the campus.

Setting the new building in an elevated position within a garden, the landscape proposal has four key directions:

01. Garden Lawns

This key landscaped space provides an informal gathering space and quiet gardens.

02. Informal Learning Space

A predominantly hard surface area, this space fringed with gardens incorporates a feature paving pattern that draws on the dramatic qualities of the surrounding landscape through the use of 'etched' contours in stone. Within this space, long timber plank seats provide an informal point to gather and meet with views to nearby sporting fields.

03. Periphery Gardens

A combination of gardens and lawn areas, these spaces provide a suite of smaller gathering and seating areas adjacent to a connected path network.

04. Sciences Road

The proposal for Sciences Road envisages a true pedestrian oriented circulation space where flush kerbs replace existing kerb and gutter and where a pedestrian pavement surface connects this service road to the adjoining landscaped areas. (Master Plan integration item)

05. Endemic Rainforest Display Gardens

A combination of gravel trails and rainforest plantings with opportunities for interpretation of local natural and indigenous history.



Landscape Design Plan



Key

- 01 Lawn with edge tree planting of Sassafras (*Doryphora sassafras*)
- 02 Garden bed mass planted in character of Campus understorey planting
- 03 Signature tree: Small-leaved Fig (*Ficus obliqua*)
- 04 Raised planter with feature planting
- 05 Outdoor learning / meeting space with timber plank benches
- 06 Rainforest planting with patterned gravel garden
- 07 Science on Display (refer to Denton Corker Marshall concepts)
- 08 Green roof (extent to be confirmed)
- 09 Building 66 (To be removed)
- 10 Existing car parking
- 11 Existing Planting
- 12 Lawn with tree planting of Eucalyptus botryoides

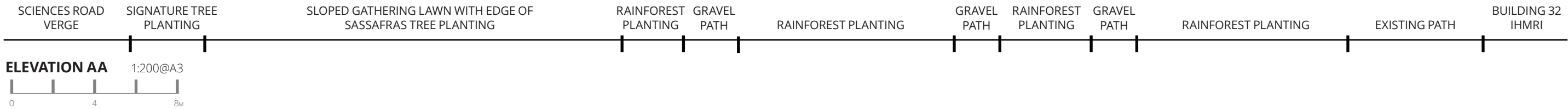
Legend

- Existing Trees
- Proposed Trees
- Irrigated Turf
- Existing Garden Bed
- Native Garden Bed
- Rain Garden
- Concrete Block Paving
- Stone Paving
- Extent of works

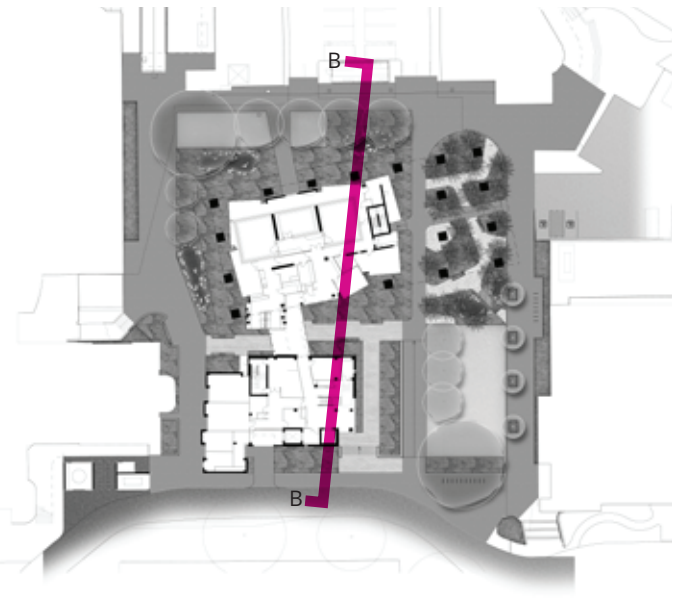
+EX21.65 Existing Level
+RL21.65 Proposed Level



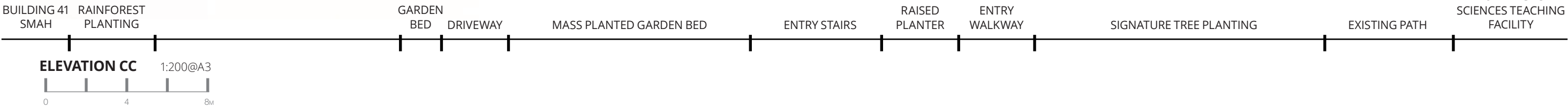
Landscape Elevations & Sections



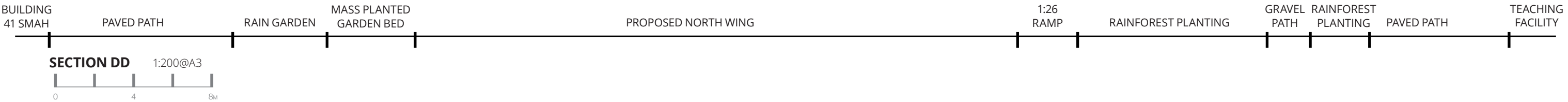
Landscape Elevations & Sections



Landscape Elevations & Sections



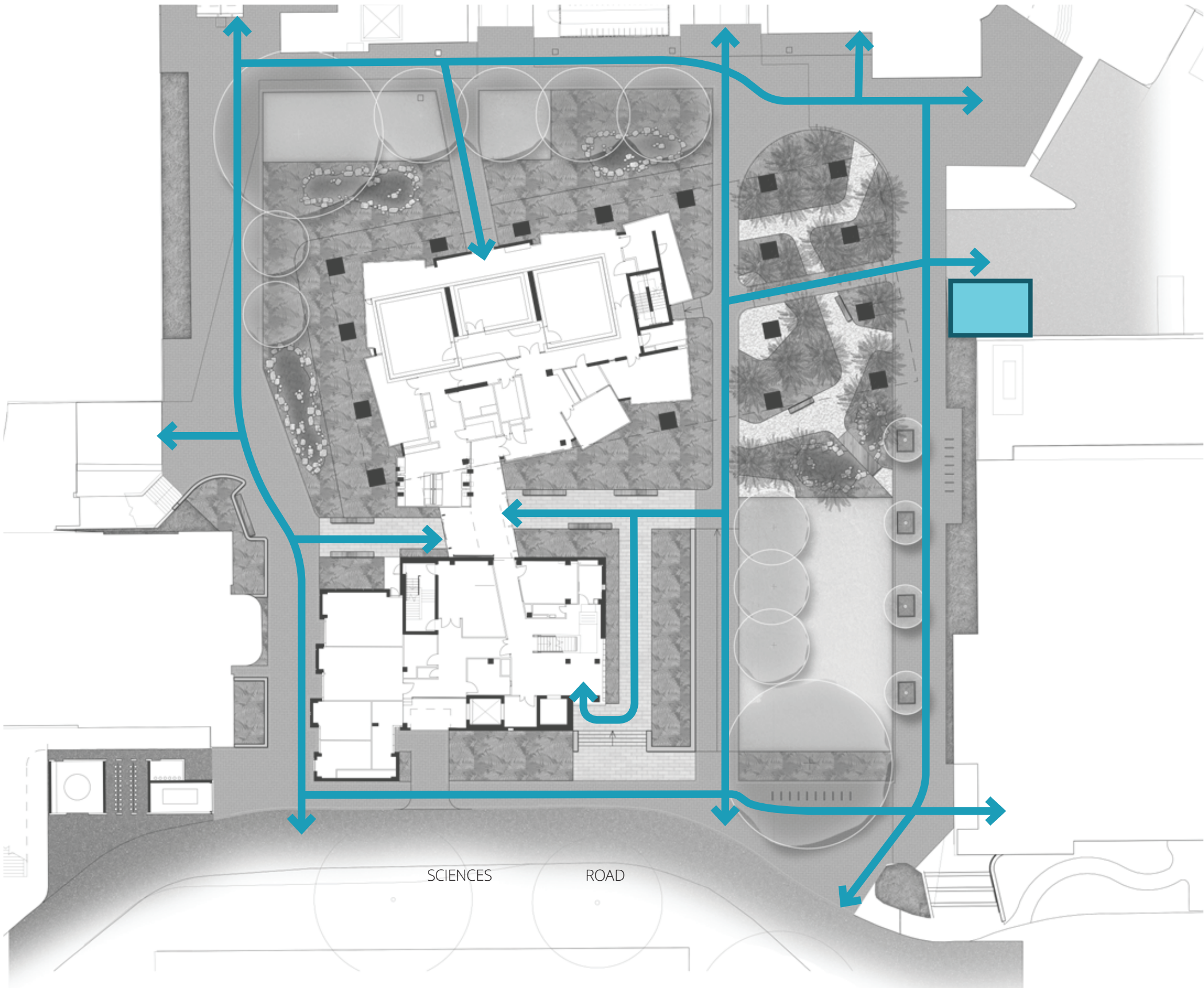
Landscape Elevations & Sections



Landscape Elevations & Sections



DDA Access Diagram



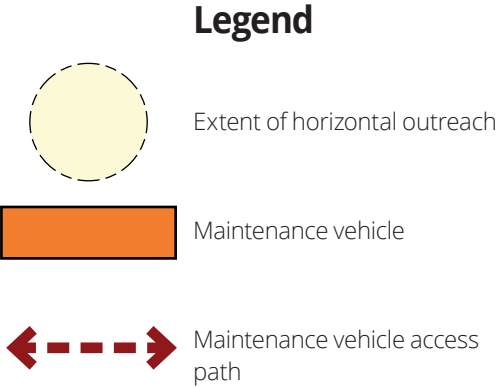
Legend

 DDA compliant access route (max. 1:21 grade)

 DDA car parks



Façade Maintenance Access



Material Palette



Entry Wall



Timber Bench Seat



Existing Brick format Concrete Block Paving



Brick Retaining Walls



Step tread - Steel Inlay - Op 1 Step tread - Stone Inlay - Op 2



Bluestone Paving



Bio-retention Basin with Deck Bridge



Brushed Stainless Steel Step Handrail



Corten Steel Turf Edge

The proposed hardscape material palette is drawn from the existing Campus palette of timber, concrete pavers and Guernsey brick walls.

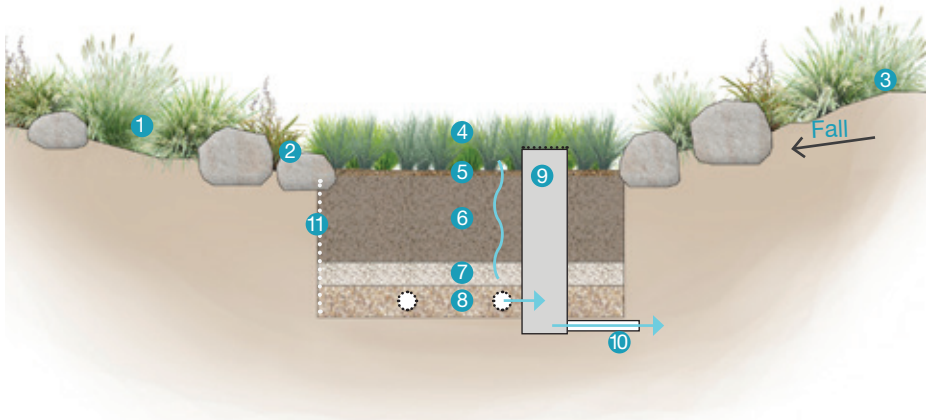
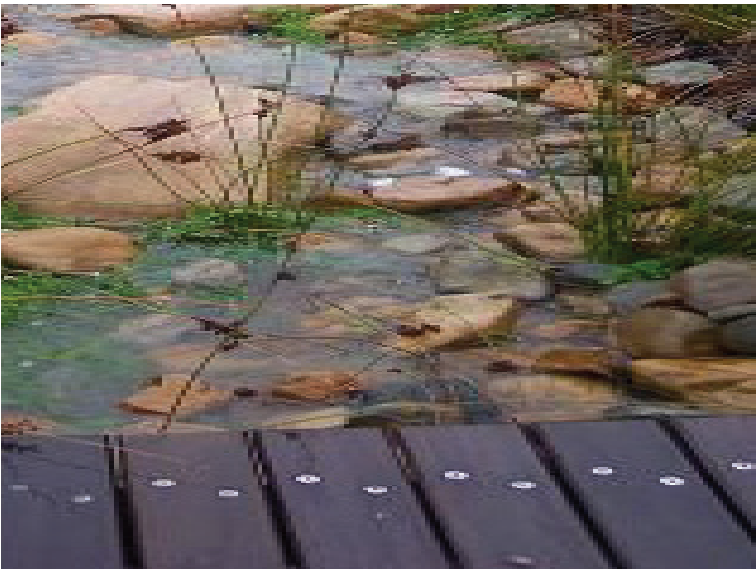
In keeping with the landscape concept, the proposal is to maximise the amount of gardens & lawns around the site with pathways & other landscape elements that punctuate these spaces.

Due to budget constraints, there is no allowance for the incorporation of public art however the following are highlighted as opportunities beyond the :

- Opportunity to use timber milled from any existing gum trees on the Campus that may be required to be removed for use as timber plank seating.
- Opportunities for signature paving treatments around the building that incorporate etchings or features that interpret the local landscape setting (Mt. Keira and escarpment). This could involve input from the Woolyungah Indigenous Centre.

Bio-retention Basins

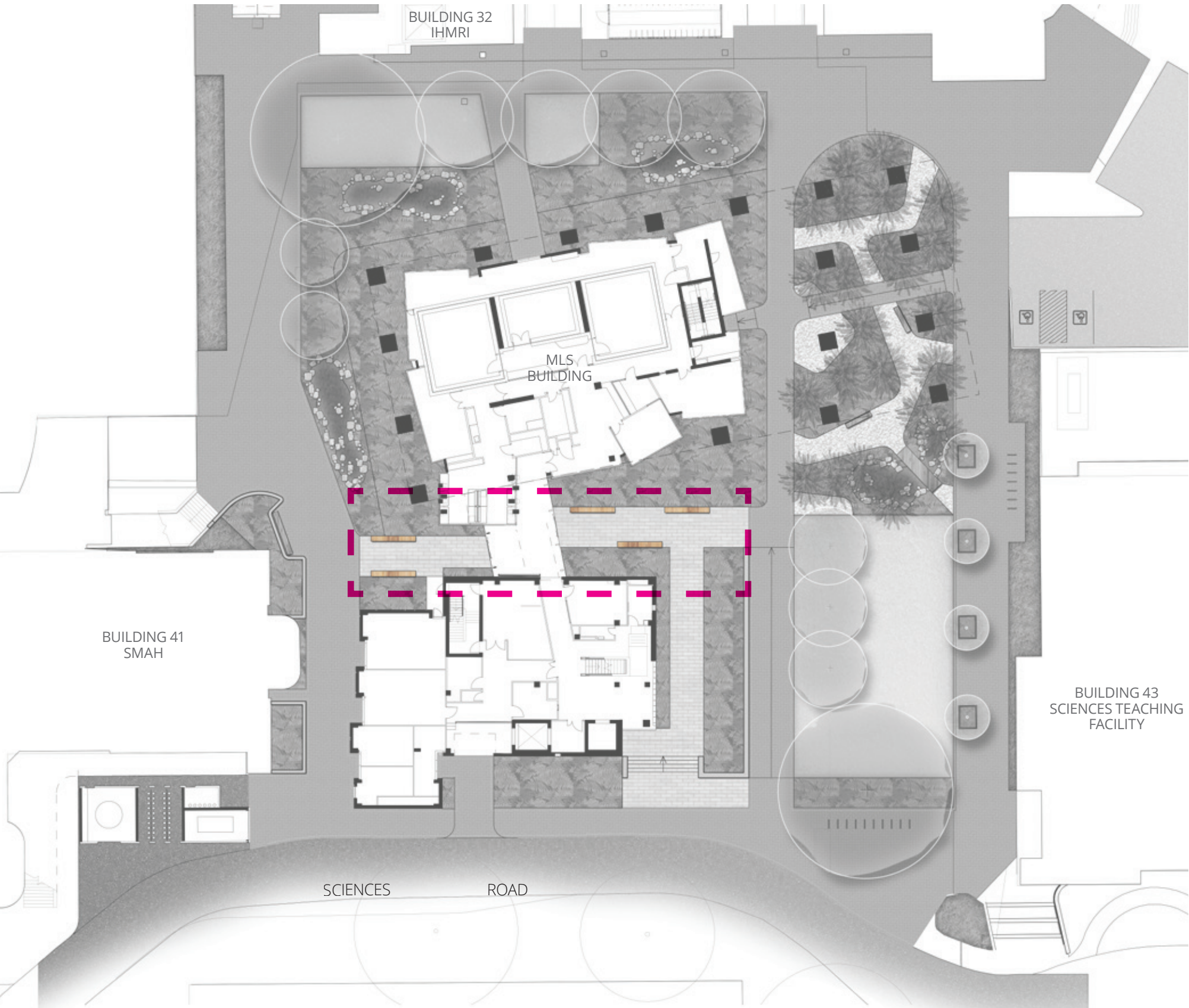
Located within gardens to manage and filter stormwater quality.



- KEY**
- 1 Landscape Garden
 - 2 Rock edge protection
 - 3 Surface grading to basin
 - 4 Planting
 - 5 Inorganic ballast mulch
 - 6 Filter media
 - 7 Transition layer
 - 8 Drainage layer with perforated pipes connected to outlet pit
 - 9 Overflow/outlet pit with grate
 - 10 Pipe connection to stormwater system
 - 11 Impervious protection layer

Custom Seats

A feature of the Outdoor Learning Spaces are the custom 4m long hardwood timber sleeper seats which provide opportunities for students to meet. The form of the custom seats is reflective of the scale and geometry of the contemporary architecture of the new MLS Building.



Planting Palette

The plant palette is drawn primarily from species that naturally occur in the Illawarra region and have been selected for their durability and low maintenance attributes. Many of these plant selections are currently used throughout the Campus.

TREES & PALMS



Ficus obliqua
Small Leaved Fig



Polyscias murrayi
Pencil Cedar



Eucalyptus botryoides
Bangalay



Livistona australis
Cabbage Palm



Doryphora sassafras
Sassafras



Ficus obliqua
Small Leaved Fig



Planting Palette

CAMPUS UNDERSTOREY PLANTING



Aspidistra elatior
Cast Iron Plant



Blechnum cartilagineum
Gristle Fern



Curculigo capitulata
Palm Grass



Crinum pedunculatum
Swamp Lily



Alpinia caerulea 'Red Back'
Red Back Native Ginger



Aspidistra elatior
Cast Iron Plant



Viola hederacea
Native Violet



Doryanthes excelsa
Gymea Lily



Crinum pedunculatum
Swamp Lily



Poa labillardieri
Tussock Grass



Ficinia nodosa
Knobbly Club Rush



Lomandra hystrix
Green Mat Rush



Aspidistra elatior
Cast Iron Plant



Asplenium australasicum
Bird's Nest Fern



Blechnum cartilagineum
Gristle Fern



Philodendron 'Xanadu'
Xanadu Philodendron



Philodendron 'Xanadu'
Xanadu Philodendron



Dianella 'Tas Red'
Tas Red Flax Lily



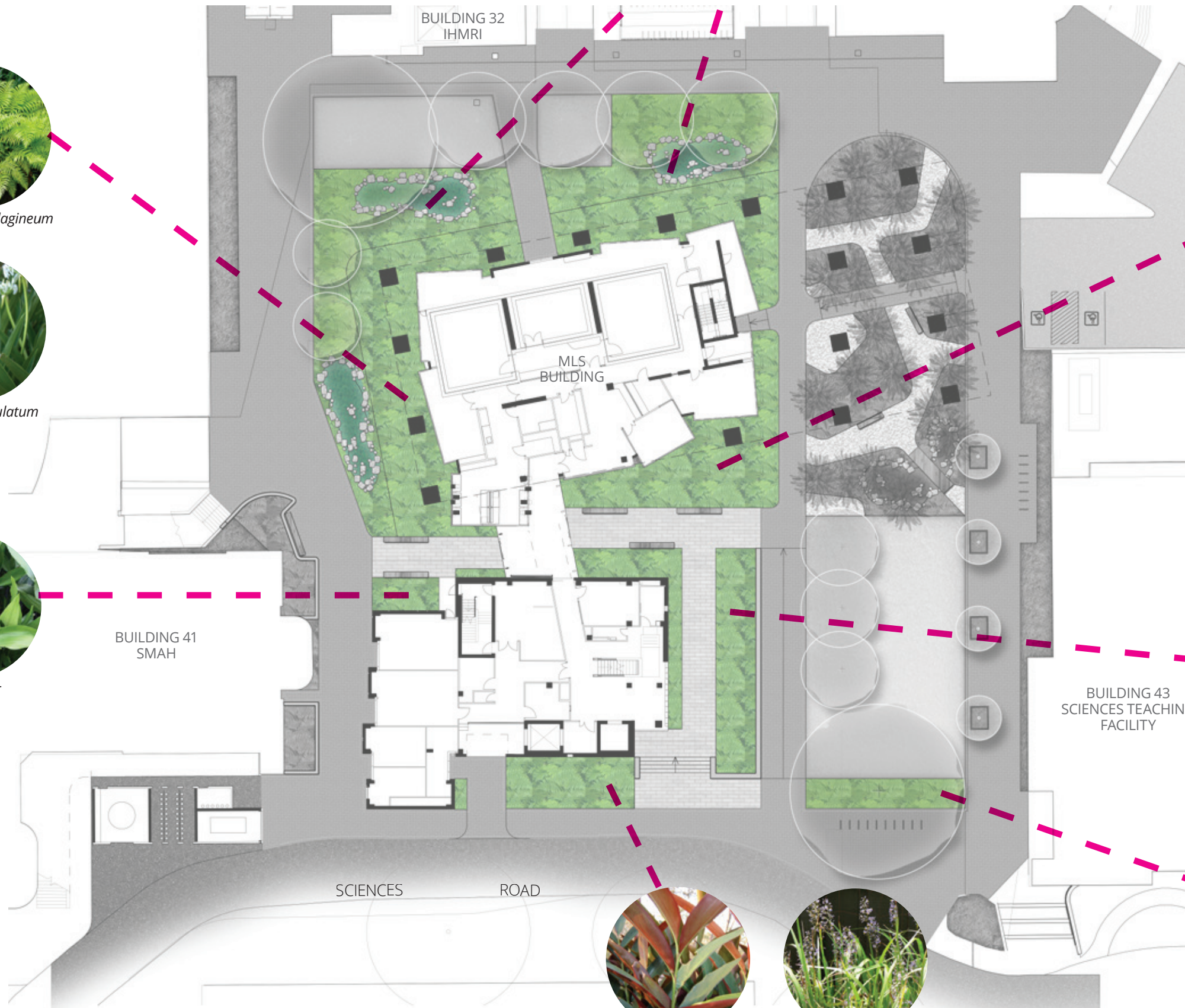
Dianella caerulea
Blue Flax-Lily



Alpinia caerulea 'Red Back'
Red Back Native Ginger

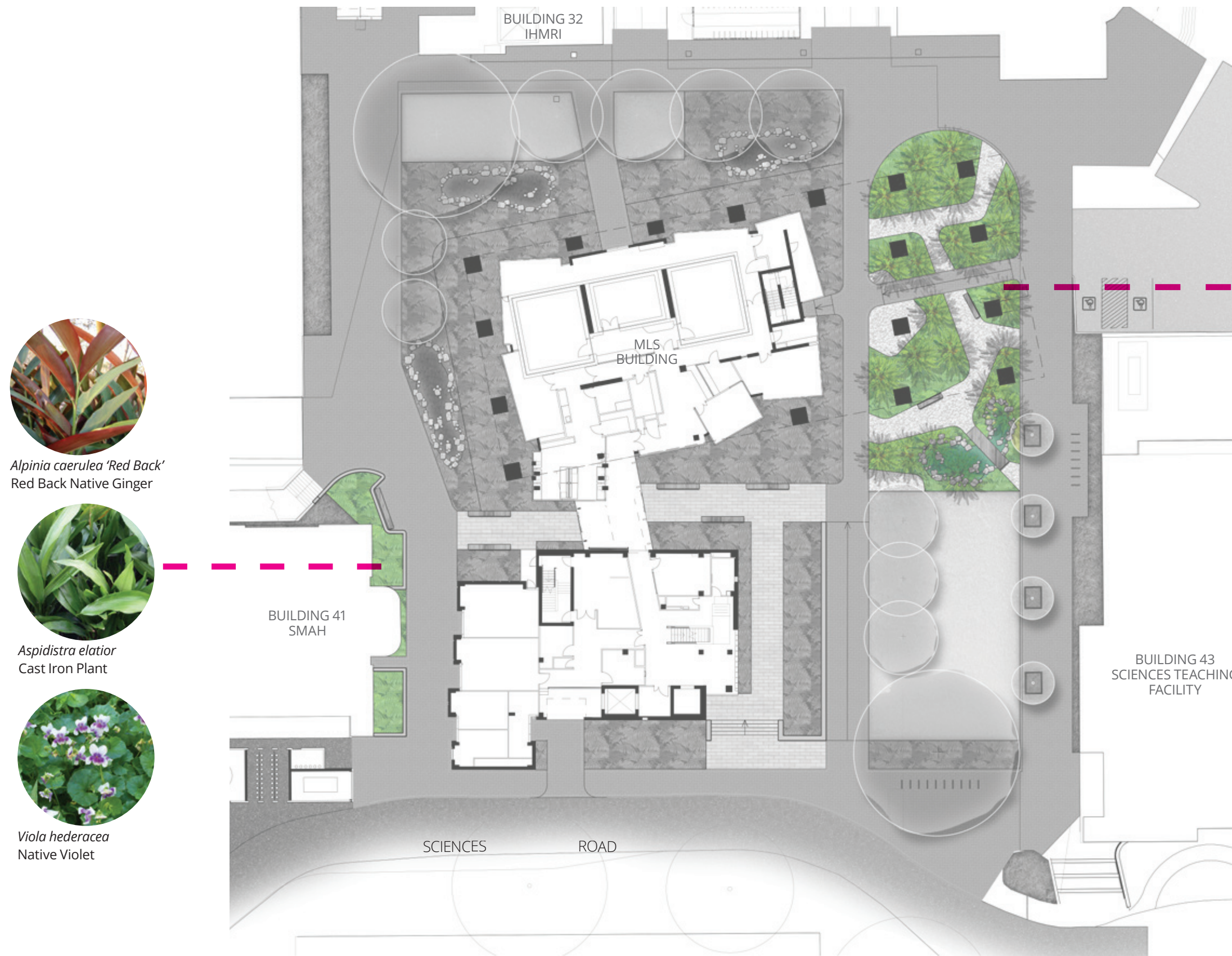


Dianella caerulea
Blue Flax-Lily



Planting Palette

RAINFOREST GARDEN PLANTING



Alpinia caerulea 'Red Back'
Red Back Native Ginger



Aspidistra elatior
Cast Iron Plant



Viola hederacea
Native Violet



Aspidistra elatior
Cast Iron Plant



Asplenium australasicum
Bird's Nest Fern



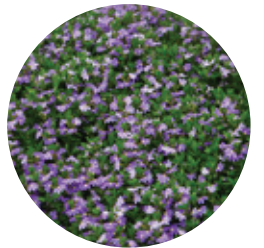
Adiantum aethiopicum
Maidenhair Fern



Blechnum cartilagineum
Gristle Fern



Philodendron 'Xanadu'
Xanadu Philodendron



Homalanthus populifolius
Small Leaved Bleeding



Philodendron 'Xanadu'
Xanadu Philodendron



Lobelia alata
Angled lobelia



Hymenanthera dentata
Tree Violet



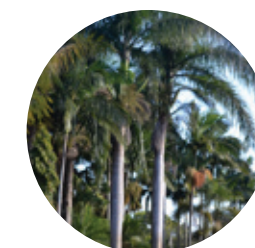
Dianella caerulea
Blue Flax-Lily



Crinum pedunculatum
Swamp Lily



Macrozamia communis
Burrawang



Aarchontophoenix
cunninghamiana



Viola hederacea
Native Violet



Solanum aviculare
Kangaroo Apple



Pellaea falcata
Sickle Fern



Cyathea australis
Rough Tree Fern



Elaeocarpus reticulatus
Blueberry Ash