

THE UNIVERSITY OF SYDNEY BUSINESS SCHOOL & STUDENT HOUSING REDEVELOPMENT FACULTY OF ECONOMICS AND BUSINESS



PART 3A Preferred Project Report April 2012

360°

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INTRODUCTION

360 Degrees Landscape Architects have been engaged by the University of Sydney to prepare a Landscape Design Intent for the proposed development of the University of Sydney Business School & Student Housing. This statement will describe the landscape concept for the site and provide a framework for detailed design and documentation.

As part of a collaborative design team, 360 Degrees Landscape Architects propose to provide a generous public domain and intimate, but well defined private spaces, through an engaging and memorable landscape design.

Proposed landscape design elements described in this statement will include the hard and softscape elements of street frontages and within active and passive public spaces and communal courtyards spaces associated with the development.

LANDSCAPE DESIGN PHILOSOPHY

The Landscape Design supports the Project’s Value Proposition of “establishing an environment that will foster the next generation of creative business thinkers in Australia”. The over arching landscape concept is for an external environment that supplements and connects the spectrum of learning and social spaces created by the architecture.

The spatial and material resolution of the landscape for the new Abercrombie Precinct Redevelopment will:

- provide inspiration, respite, amenity, functionality and privacy, as appropriate to each landscape space.
- provide landscape continuity for the site, its adjacent buildings and the wider context
- maximise accessibility, clarity and ease of movement
- contribute positively to the Abercrombie Street and Codrington Street streetscapes and public domain
- provide varied and seasonal amenity for students, staff and visitors
- complement the architecture
- incorporate ESD and WSUD principles
- be low-maintenance
- incorporate CPTED principles
- demonstrate design excellence by the use and fine detailing of a restrained material palette

SPATIAL ORGANISATION & PEDESTRIAN MOVEMENT

A series of spaces with a clear hierarchy have been developed to create excitement and activation to all building and site interfaces. The precinct and its buildings are immersed in a verdant and dynamic landscape. Generous public plazas create precinct identity and allow for a diversity of interaction between the campus and community. Connected courtyard spaces offer intimate and enchanting areas variously for students and the public to utilise.

The buildings edges will seamlessly transition into the surrounding landscape, offering a unified internal and external spatial experience.

All spaces intend to be tangible and flexible to service the needs of its user. Either creating an exciting and interesting path of travel, a quiet area for study, an open gathering space for discussion and interaction or a teaching environment for inspirational learning.

The design has a strong public and community orientation and focus to delivering a design response that caters to the growing needs of the

surrounding community. In doing so, the proposed Abercrombie precinct development offers a generous plaza forecourt that addresses the community interface and provides a seamless transition from public to private.

The extensive network of pedestrian corridors offers varied experiential travel within and through the campus. This enables free flowing movement of both residents and students in a congruous stream with a series of landscapes facilitating user needs. Whilst the campus buildings are not permanently accessible, the current design enables strong public connections through the site, creating a unified public and private space.

VEGETATION MANAGEMENT

This document intends to build upon the previous arborist reports and submissions made during public exhibition to deliver a concise interpretation of their recommendations and the design response to retain trees identified of significance.

Initially an Arborist report was prepared for the site and submissions received in response to a development application for the site. The report, dated January 2008, was prepared by The Tree School for Jones Lang Lasalle, Cox Richardson and Campus Property and Services and details all trees located within the site.

In response to the previous development proposal, a total of 9 submissions from Authorities were received, 2 of these raised issues regarding tree removal as follows:

- * Sydney Metropolitan Development Authority (SMDA) raised concerns regarding the proposed removal of a mature Sydney Blue Gum (Eucaltptus saligna) near Rose Street; and
- * City of Sydney raised a number of issues regarding removal/retention of trees, making specific reference to a number of individual trees and groups of trees including the mature Sydney Blue Gum near Rose Street referred to by the SMDA.

As part of the current application process another Arborcultural Impact Report has been compiled. Prepared by Landscape Matrix, dated February 2012, this report identifies potential impacts of the proposed development and assesses 30 trees or groups of trees on the site identified in the previous submissions as being of importance.

This document builds upon the findings and recommendations identified in both Arborist Reports and presents the design response to retain, relocate trees of significant value, replace existing trees with species in accordance with the City’s Street Tree Masterplan, and remove trees not considered of significance or of poor health.

PLANTING DESIGN PRINCIPLES

The Landscape Design incorporates the following planting design principles:

- Memory of site, including local native species suitable to the environments and micro climates generated by the new buildings
- Cohesiveness with the character of new University campus planting
- The use of predominantly low maintenance, low water use species
- The transplanting of existing trees where possible and the retention and protection of the existing Blue Gum



NOTES:	Iss.	Amendment	Date	By	
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PUBLIC PLAZA/FORECOURT PRECINCT

The site is a gateway to the University being at the southern end of the Eastern Avenue axis. Therein the building and its surrounding landscape will provide a strong visual connection to the broader campus. This is a statement space. It is an invitation to the campus as well as a public open space shared with the local residential community. The space is a fundamental component of the whole campus private open space network and demonstrates community interaction with the university.

Preserving and celebrating this space, creating a strong public interface and an attractive park/plaza are paramount to this space. To achieve this, the architecture and landscape have delivered a unified response that offers a sanctuary to the existing tree amongst a landscape of shifted planes. These create a subtle transition between the public and private realms. In this precinct the students and residents are invited to relax, reflect and interact in a series of open spaces, which offer glimpses within and out of the campus.

This space provides the flexibility to provide for personal, group or crowd interaction. As the landscape rises up, and diverts downward the line of ownership becomes blurred and the campus is united with the community.

To the corner of Codrington and Abercrombie Streets a generous informal public plaza has been proposed. The retained turf embankment provides a protected recess offering opportunities for quiet seating, social interaction and a meeting point. The grove of Birch trees will provide cooling shade during the summer months and allow solar access in winter.

CAMPUS BOULEVARD/PLAZA PRECINCT

The primary entry point to the campus off Abercrombie Street occurs between the existing economics building H69 and the proposed building. Here a generous boulevard has been incorporated to accommodate the anticipated pedestrian traffic. Adjacent to the boulevard is a series of communal seating nodes to ensure that the space becomes not only a thoroughfare but a destination space.

The dynamic form of the building is reflected down onto the floor plain which ensures the public space has a lively relationship to the facades of the architecture that bound and define that space. Robust materials will be used for paving and an uninterrupted thoroughfare for pedestrian traffic is maintained. Seating areas are associated with a rhythmic central grove of Cabbage Palms (*Livistonia australis*) which subtly and appropriately dissect the space while still ensuring important circulation and visual permeability. A series of seating terraces will provide amenity for varying levels of social gathering and activity. These seating podiums also provide areas of refuge that support vantage points to view passing pedestrian traffic and interesting filtered views through the Cabbage Palms towards the adjacent glass façade and activities within.

INFORMAL TIERED LANDSCAPE

An identity landscape, this hub sustains the energy of the new precinct. It enables gathering, events, and is activated by a few or many. This space is a terraced landscape which enables large group gatherings and interaction whilst seamlessly accounting for the change in levels and creating a strong link to the adjacent landscape.

The unification of open space and level changes creates a tangible environment capable of providing personal gathering space and an ability to transform into a learning theatre by binding the pockets of space.

The landscape intends to spill up and out of the buildings and down upon the surrounding area. The area has enabled public accessibility, and may be utilised as much by the surrounding residential community as the student body. The planting palette has been developed to enable privacy whilst not impeding upon the spaces ability to cater for large groups or create any CPTED concerns. It consists predominantly of shade tolerant ground covers such as *cissus antartica* and *philodendron xanadu* to account for the low light level, and mature tree ferns to provide vertical distinction which softens the built form and encourages the development of a micro climate.

INTIMATE POCKET GARDENS

The unification of the internal and external environments are paramount to 'maintaining the conversation' and promoting informal learning. A series of spatial interactions which activate the building edges provide informal areas for students and the community to gather, interact and socialise. They incorporate a mix of built elements including furniture, soft verdant landscapes and the buildings structure. They blend between internal and external and enable seamless travel between the buildings creating a unified cohesive space.

These spaces are nestled throughout the campus, amongst the wider gardens of the precinct and vary in scale as the pockets allow. They offer students places of respite and intrigue. They are quiet and solitary, offering students and public areas of rest and relaxation. The identity of these pockets are unknown, they are discovered by its users and often an oasis amongst nature. They make use of the corners and corridors and transform a typically unused space into a lush landscape that conveys tranquillity.

STUDENT HOUSING

A simple planting palette and design approach has been developed to complement the proposed student housing accommodation building by Nettleton Tribe. The design language of the campus carries through the development, blurring the boundaries between public and private areas, providing key visual access while implementing necessary security measures. The compounded topography offers a natural separation between the two spaces and generates exciting, active and usable spaces.

Corresponding with the scale of the building and allowing the maximum capacity of natural light, Pencil Cedars *Polyscias murrayi* have been nominated for the private internal courtyards. There has also been particular attention paid to ensure the building

ROOFTOP LANDSCAPES

It is proposed to landscape the rooftop of the building to promote the Precinct's ESD principles and to add a significant layer to the social sustainability of the buildings. In addition to rainwater absorption collection, building insulation and habitat benefits, the fully accessible rooftops will provide valuable additional usable space.

Designed as an island in the inner-city sky, the rooftops are intended for respite and private study for individuals and small group. The landscape will be predominantly planted with hardy native shrub and groundcover species creating a buffer to the external building edges, with timber deck paths floating over the landscape to varied pockets of space, immersed in the landscape. The spaces will be of varied character. Social spaces associated with building access points will have permanent shade and fixed bench seating, small turf pockets with daybed benches will provide passive recreation areas for small groups and small ornamental trees will provide natural shade to informal seating areas. The roof gardens will be particularly valuable outdoor space in the milder seasons of winter, spring and autumn.

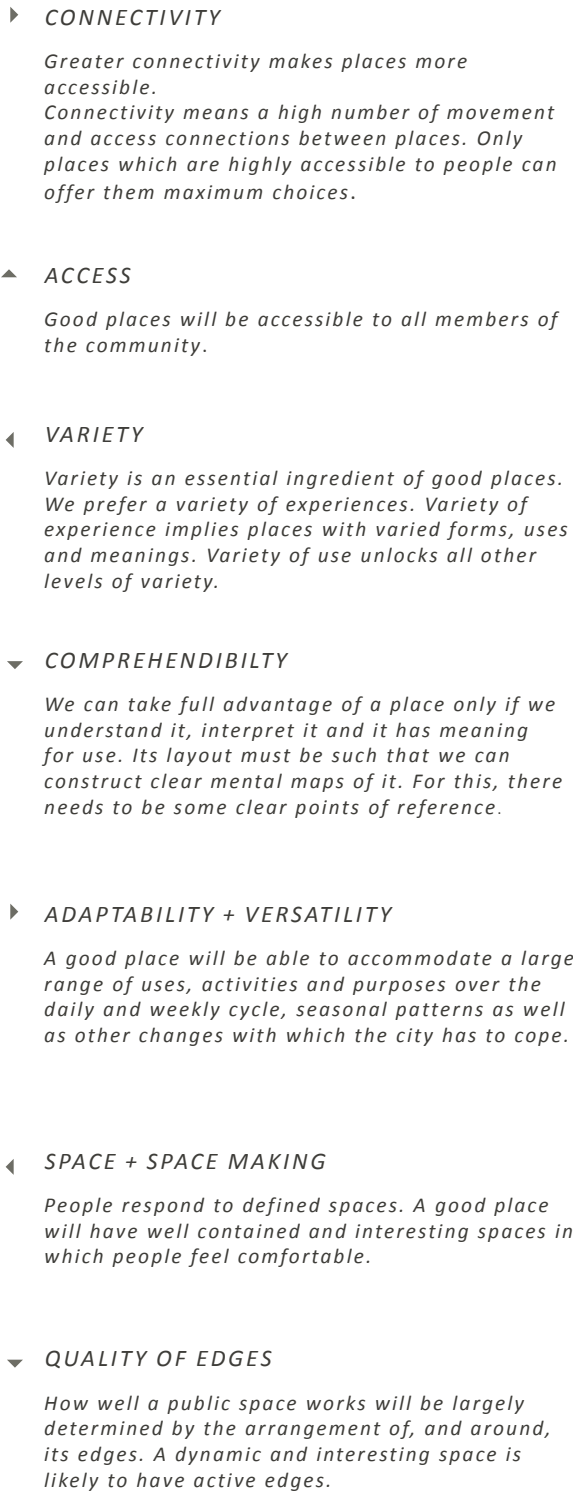
PUBLIC CONNECTION/LINK

The landscape strategy proposes an integrated approach to environmental and social sustainability to create a dynamic 'living' campus. Social sustainability is achieved by creating a precinct integrated of its community, a series of diverse external spaces based on CPTED principles.

These are spaces shared between the campus and the local community. A sequence of linear parks to the western edge of the precinct ensures collective ownership and diverse activation of the precinct. The spaces will offer a diversity of active and passive recreation. This through-site link provides clear passage with articulated passive seating zones. It enables safe travel between Darlington Lane and Abercrombie Street for the greater public community with particular emphasis on providing a safe alternative path of travel for children attending Darlington Public School.

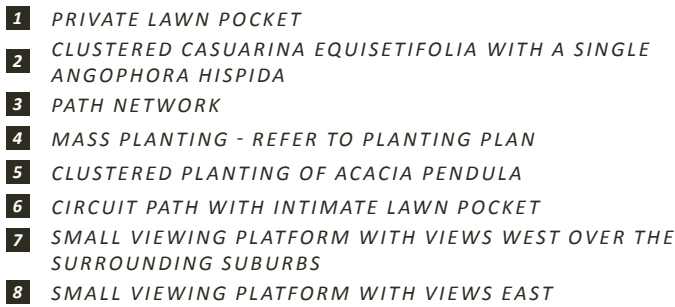


NOTES:	Iss.	Amendment	Date	By	 	IMPORTANT NOTES: Do not take from drawings All improvements to be shown in the attention of the Landscape Architect Larger scale drawings and section elevations take professional dimensions in mm unless otherwise stated. All sec. dimensions and ft to mm. Unhappy dimensions only Confirm to what extent and profile of services are to be installed All work shall be carried out in accordance with AS/NZS 3000 and Australian Regulations. Detailed Details shall be added in separate Specifications. Grouped all Best Practice Details shall be submitted to Council Engineer's Specifications. Grouped all Best Practice Details shall be submitted to Council Engineer's Specifications. Engineer's Specifications. Not responsible and liable to 300 drawings for any variations in design, construction method, materials specified, and general specifications without permission from Project Engineer or Landscape Architect. This Drawing is intended for 300 drawings.	DATE APRIL 2012	SHEET 2 of 8	CHECKED DB	DWG. TITLE Landscape Precincts PROJECT THE UNIVERSITY OF SYDNEY Business School Redevelopment	 Level 5 Ballroom House 68-72 Wentworth Ave. Sydney NSW 2000 p 011 881 18 8204 f 011 881 18 2595 a 360@360.net.au Adv. 60 418 301 3119
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|----|--|----|---|----|--|
| 1 | DARLINGTON PUBLIC SCHOOL | 11 | STREET TREE PLANTING WITH INTEGRATED STORMWATER GARDENS | 21 | SECONDARY PEDESTRIAN ENTRY/CIRCULATION |
| 2 | DARLINGTON LANE | 12 | CORTEN RETAINED TURF MOUND WITH BURMED EDGE TO PROVIDE SEATING AND GATHERING SPACE | 22 | SUNKEN GARDEN BREAKOUT SPACE |
| 3 | INFORMAL TIERED LANDSCAPE INCORPORATING RAMP AND STEP ACCESS | 13 | RETAINED SYDNEY BLUE GUM (EUCALYPTUS SALIGNA) | 23 | INTIMATE POCKET GARDENS |
| 4 | GROVE OF TREE FERNS (CYATHEA COOPERI) | 14 | CODRINGTON STREET | 24 | PEDESTRIAN CONNECTION/CIRCULATION PATH |
| 5 | FORMAL STAIR ENTRY OFF DARLINGTON LANE | 15 | FORMAL PEDESTRIAN BUILDING ENTRY | 25 | BASEMENT ENTRY RAMP |
| 6 | COMMUNAL PRODUCE GARDEN | 16 | SANDSTONE RETAINING/SEATING WALL | 26 | RETAINED STREET TREE PLANTING |
| 7 | SCREEN PLANTING + FEATURE ART WALL TO BOUNDARY | 17 | PUBLIC LAWN FORECOURT | 27 | PRIVACY/SCREENING PLANTING TO STUDENT ACCOMMODATION BUILDING |
| 8 | CAMPUS BOULEVARD ENTRY | 18 | PUBLIC PLAZA/FORECOURT RETAINED BY CORTEN WITH INFORMAL SEATING AND DECIDUOUS GROVE | 28 | PRIVATE COURTYARDS TO STUDENT ACCOMMODATION |
| 9 | LIVISTONIA PALM GROVE WITH INFORMAL SEATING BENEATH | 19 | DECIDUOUS FOREST (BETULA NIGRA) | 29 | TERRACED LANDSCAPE WITH INTEGRATED FENCE BETWEEN CAMPUS AND STUDENT ACCOMMODATION. |
| 10 | ENTRY SIGNAGE/SEATING WALL | 20 | ABERCROMBIE STREET | 30 | FORMAL PUBLIC CIRCULATION PATH BETWEEN ABERCROMBIE ST AND DALINGTON LANE |

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A good place will be able to accommodate a large range of uses, activities and purposes over the daily and weekly cycle, seasonal patterns as well as other changes with which the city has to cope.

It is important that private spaces and utility areas are not immediately adjacent to public spaces. They have incompatibilities that are difficult to resolve. It is best that private spaces are adjacent and only public fronts or edges address public spaces.

A good urban place is one which enhances the sense of the community, social interaction and strengthens the self-image and identity of the people who use it. While acknowledging differences, it will focus on the shared and the common.

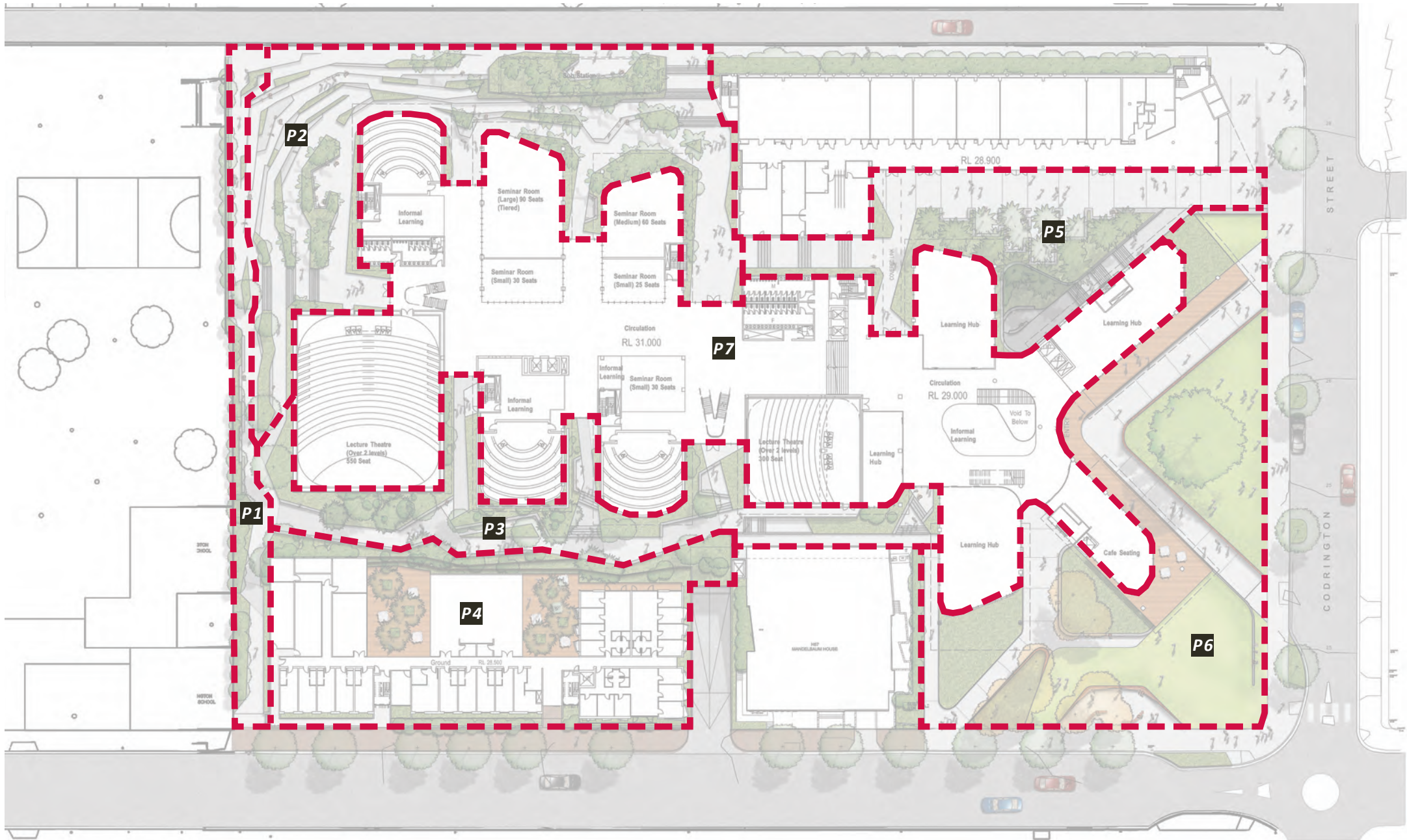
The greenscape of the city is an integral part of the urban fabric and a continuous medium rather than local or site related plantscape enhancement

A good place will consider and provide for all human needs.

A good urban place will be sensitive to the environment and the setting, be it natural or made by humans. This sensitivity will be at the local as well as global scale.

Very often sustainability is thought of largely only in terms of energy and greenhouse gasses. Urban sustainability encompasses not only energy but also economic, social, cultural and ecological terms.

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- P1** COMMUNAL PRODUCE GARDEN
P2 TERRACED GARDENS
P3 INTIMATE POCKET GARDENS
P4 STUDENT HOUSING PLANTING
P5 CAMPUS BOULEVARD/PLAZA PLANTING
P6 PUBLIC PLAZA/FORECOURT PLANTING
P7 ROOFTOP PLANTING

INDICATIVE PLANT SCHEDULE- University of Sydney			
Abercrombie Precinct Redevelopment			
Botanical Name	Common Name	Size	Density
PLANTING TYPE 1 - COMMUNAL PRODUCE GARDEN			
Trees/ Palms			
<i>Backhousia citriodora</i>	Lemon Scented Myrtle	8 x 8	As shown
<i>Citrus x meyeri</i>	Meyer lemon	2 x 1.5	As shown
<i>Citrus sinensis</i>	Valencia Orange	4 x 3	As shown
<i>Citrus latifolia</i>	Tahitian Lime	3 x 2	As shown
<i>Citrus x paradisi 'Star Ruby'</i>	Star Ruby Grapefruit	5 x 3	As shown
<i>Citrus australasica</i>	Finger Lime	3 x 3	As shown
<i>Fortunella margarita</i>	Kumquat	3 x 3	As shown
<i>Malus domestica</i>	Apple	5 x 5	As shown
<i>Olea europaea</i>	Olive	8 x 5	As shown
<i>Punica granatum</i>	Pomegranate	3 x 4	As shown
Mixed Species Planting / Understorey			
<i>Alpinia caerulea</i>	Native Ginger	2 x 1	4 / m2
<i>Chamomile</i>	Chamomile	0.5 x 0.5	7 / m2
<i>Correa Alba</i>	White Correa	1.5 x 1.5	7 / m2
<i>Capsicum annum</i>	Chili pepper	0.45 x 0.45	4 / m2
<i>Fragaria sp.</i>	Strawberry	0.3 x 0.3	8 / m2
<i>Feijoa sellowiana</i>	Feijoa	3 x 3	2 / m2
<i>Laurus nobilis</i>	Bay Laurel	8 x 4	2 / m2
<i>Lavandula angustifolia</i>	Common Lavender	1 x 1	4 / m2
<i>Melissa officinalis</i>	Lemon balm	0.6 x 0.6	2 / m2
<i>Mentha ssp</i>	Mint	0.3 x 0.3	5 / m2
<i>Oreganum vulgare</i>	Oregano	0.3 x 0.3	5 / m2
<i>Ocimum basilicum</i>	Basil	0.5 x 0.5	5 / m2
<i>Petroselinum crispum</i>	Parsley	0.3 x 0.3	5 / m2
<i>Rosmarinus officinalis</i>	Rosemary	1.5 x 1.5	4 / m2
<i>Syzygium luehmannii</i>	Riberry	8 x 5	2 / m2
<i>Salvia officinalis</i>	Sage	0.5 x 0.5	4 / m2
<i>Tasmannia insipida</i>	Brush Pepperbush	2 x 1.5	4 / m2
<i>Thymus sp</i>	Thyme	0.5 x 0.5	5 / m2
<i>Thymus vulgare</i>	Thyme	0.5 x 0.5	5 / m2

PLANTING TYPE 2 - TERRACE GARDENS			
Trees/ Palms			
<i>Cyathea cooperi</i>	Tree Fern	10 x 4	As Shown
Mixed Species Planting / Understorey			
<i>Asplenium australasicum</i>	Birds Nest Fern	1.5 x 2	7 / m2
<i>Austromyrtus dulcis</i>	Midgen Berry	0.5 x 0.8	4 / m2
<i>Cissus antarctica</i>	Kangaroo Vine	12	7 / m2
<i>Doodia aspera</i>	Rasp Fern	0.3 x 0.3	7 / m2
<i>Philodendron xanadu</i>	Xanadu	0.1 x 1.2	7 / m2
<i>Trachelospermum asiaticum</i>	Japanese Star Jasmine	0.2 x 0.5	8 / m2
<i>Viola hederacea</i>	Native Violet	0.15 x 0.5	8 / m2
PLANTING TYPE 3 - INTIMATE POCKET GARDENS			
Trees/ Palms			
<i>Cyathea cooperi</i>	Tree Fern	10 x 4	As Shown
Mixed Species Planting / Understorey			
<i>Asplenium bulbiferum</i>	Hen and chicken fern	0.3 x 0.3	7 / m2
<i>Asplenium australasicum</i>	Birds Nest Fern	1.5 x 2	7 / m2
<i>Alocasia sp.</i>	Alocasia	1.5 x 1.5	4 / m2
<i>Alcantarea imperialis rubra</i>	Giant Bromeliad	1 x 1	3 / m2
<i>Cordyline stricta</i>	Narrow Leafed Palm Lily	2 x 3	5 / m2
<i>Correa baeuerlenii</i>	Chefs cap	1.5 x 1.5	6 / m2
<i>Dianella caerulea 'little jess'</i>	Dianella 'little jess'	0.5 x 0.5	7 / m2
<i>Fatsia japonica</i>	Japanese Aralia	1.5 x 4	4 / m2
<i>Lomandra hystrix</i>	Spiny-headed mat-rush	0.9 x 0.9	5 / m2
<i>Macrorhiza communis</i>	Burrawang	2 x 2	3 / m2
<i>Plectranthus argentatus</i>	Silver Plectranthus	0.6 x 1.2	5 / m2
<i>Spathiphyllum sp.</i>	Peace Lily	1 x 1	5 / m2
<i>Syngeium nana</i>	Arrowhead vine	0.2 x 0.5	7 / m2
<i>Sansevieria trifasciata</i>	Mother in law's tongue	0.6 x 0.4	7 / m2
<i>Thysanotus maxima</i>	Tiger Grass	2 x 2	4 / m2
<i>Trachelospermum asiaticum</i>	Japanese Star Jasmine	0.2 x 0.5	7 / m2

PLANTING TYPE 4 - STUDENT HOUSING PLANTING			
Trees/ Palms			
<i>Acer palmatum</i>	Japanese maple	5 x 5	As Shown
<i>Lagerstroemia indica</i>	Crepe myrtle	8 x 6	As Shown
<i>Magnolia 'Little Gem'</i>	Little Gem Magnolia	6 x 3	As Shown
<i>Tristanopsis laurina</i>	Water Gum	15 x 8	As Shown
Mixed Species Planting / Understorey			
<i>Acmena smithii</i>	Creek Lily Pily	12 x 8	As shown
<i>Arthropodium cirratum</i>	Renga Renga Lily	0.8 x 0.8	5 / m2
<i>Correa baeuerlenii</i>	Chefs cap	1.5 x 1.5	4 / m2
<i>Dianella caerulea 'little jess'</i>	Dianella 'little jess'	0.5 x 0.5	7 / m2
<i>Fatsia japonica</i>	Japanese Aralia	1.5 x 4	4 / m2
<i>Neomarica spp.</i>	Walking Iris	0.4 x 0.6	7 / m2
<i>Raphiolepis indica</i>	Indian Hawthorn	1.5 x 1.5	3 / m2
<i>Rhapis humilis</i>	Slender Lady Palm	5 x 2.5	3 / m2
<i>Plectranthus argentatus</i>	Silver Plectranthus	0.6 x 1.2	5 / m2
<i>Philodendron 'Congo'</i>	Philodendron Congo	1 x 1	3 / m2
PLANTING TYPE 5 - CAMPUS BOULEVARD / PLAZA PLANTING			
Trees/ Palms			
<i>Livingstonia australis</i>	Illawarra Flame Tree	15 x 8	As Shown
Mixed Species Planting / Understorey			
<i>Austromyrtus dulcis</i>	Midgen Berry	0.5 x 0.8	4 / m2
<i>Baeckea virgata dwarf</i>	Heath Myrtle Dwarf	1 x 1	4 / m2
<i>Correa baeuerlenii</i>	Chefs cap	1.5 x 1.5	4 / m2
<i>Dianella caerulea 'little jess'</i>	Dianella 'little jess'	0.5 x 0.5	7 / m2
<i>Dichondra 'Silver Falls'</i>	Silver Dichondra	0.2 x 1.5	7 / m2
<i>Ficus pumila</i>	Climbing Fig	10	7 / m2
<i>Lomandra 'Tanika'</i>	Tanika Mat Rush	0.6 x 0.6	7 / m2
<i>Plectranthus argentatus</i>	Silver Plectranthus	0.6 x 1.2	5 / m2
<i>Philodendron xanadu</i>	Xanadu	0.1 x 1.2	7 / m2
<i>Russelia equisetiformis</i>	Coral Plant	1 x 2	7 / m2
<i>Senecio serpens</i>	Blue chalkstick	0.3 x 1	7 / m2
<i>Trachelospermum asiaticum</i>	Japanese Star Jasmine	0.2 x 0.5	7 / m2

PLANTING TYPE 6 - PUBLIC PLAZA / FORECOURT PLANTING			
Trees			
<i>Betula nigra</i>	River Birch	15 x 7	As Shown
<i>Stenocarpus sinuatus</i>	Queensland Firewheel Tree	12 x 6	As Shown
<i>Ulmus parvifolia</i>	Chinese Weeping Elm	15 x 10	As Shown
Mixed Species Planting / Understorey			
<i>Acacia pravissima</i>	Ovens wattle	8 x 3	3 / m2
<i>Alpinia caerulea</i>	Native Ginger	2 x 1	4 / m2
<i>Baeckea imbricata</i>	Heath Myrtle	1 x 1	4 / m2
<i>Baeckea virgata dwarf</i>	Heath Myrtle Dwarf	1 x 1	4 / m2
<i>Dichondra 'Silver Falls'</i>	Silver Dichondra	0.2 x 1.5	3 / m2
<i>Philodendron 'Xanadu'</i>	Xanadu	0.1 x 1.2	7 / m2
<i>Russelia equisetiformis</i>	Coral Plant	1 x 2	5 / m2
<i>Senecio serpens</i>	Blue chalkstick	0.3 x 1	7 / m2
<i>Trachelospermum asiaticum</i>	Japanese Star Jasmine	0.2 x 0.5	7 / m2
<i>Telopea sp.</i>	New South Wales waratah	3 x 1.5	7 / m2
<i>Viola hederacea</i>	Native Violet	0.15 x 0.5	8 / m2
PLANTING TYPE 7 - ROOFTOP PLANTING			
Trees/ Palms			
<i>Acacia pendula</i>	Weeping Myall	12 x 8	As Shown
<i>Angophora hispida</i>	Dwarf Apple	8 x 5	As Shown
<i>Banksia serrata</i>	Old Man Banksia	10 x 8	As Shown
<i>Casuarina equisetifolia</i>	Coast She Oak	30 x 8	As Shown
<i>Melaleuca armillaris</i>	Bracelet Honey Myrtle	7 x 4	As Shown
Mixed Species Planting / Understorey			
<i>Allocasuarina 'nana'</i>	Stunted She Oak	1.5 x 1.5	4 / m2
<i>Baeckea imbricata</i>	Heath Myrtle	1 x 1	4 / m2
<i>Correa Alba</i>	White Correa	1.5 x 1.5	4 / m2
<i>Chrysocochlam apiculatum</i>	Yellow Buttons	1 x 1	8 / m2
<i>Isoplexis nodosa</i>	Knobby Clubbush	1.5 x 1.5	7 / m2
<i>Westringia 'jervis gem'</i>	Coastal Rosemary	1 x 1	4 / m2
Mass Planting			
<i>Lomandra 'Tanika'</i>	Tanika Mat Rush	0.6 x 0.6	7 / m2

[illegible]

A horizontal strip of nine small images showing various types of plants and foliage. From left to right: a tree with green leaves; a tree with a thick, textured trunk; a large, dark green, deeply lobed leaf; a branch with small, round, light-colored fruits; a dense, dark green shrub; a cluster of ferns with reddish-brown fronds; a large, bright green, deeply lobed leaf; a dense, dark green shrub; and a cluster of small, white, star-shaped flowers.

A horizontal strip of 12 small images showing various plants and flowers. From left to right: a potted tree with yellow-green foliage; a close-up of green leaves with red veins; a tree with vibrant red flowers; a tall, narrow evergreen shrub; a single white orchid flower; a row of trees in a park; a close-up of green leaves with purple flowers; a close-up of green leaves with yellow flowers; a close-up of green leaves with purple flowers; a close-up of green leaves with white flowers; a close-up of green leaves with red flowers; and a close-up of green leaves with purple flowers.

A horizontal strip of 10 small images showing various tropical plants and flowers. From left to right: a palm tree against a blue sky; a branch with green leaves and small white flowers; a cluster of white flowers; a plant with long, narrow green leaves and yellow flowers; a plant with long, narrow green leaves and purple flowers; a dense green hedge; a tall, thin green plant; a plant with large green leaves and purple flowers; a plant with large green leaves and orange flowers; and a plant with large green leaves and yellow flowers.

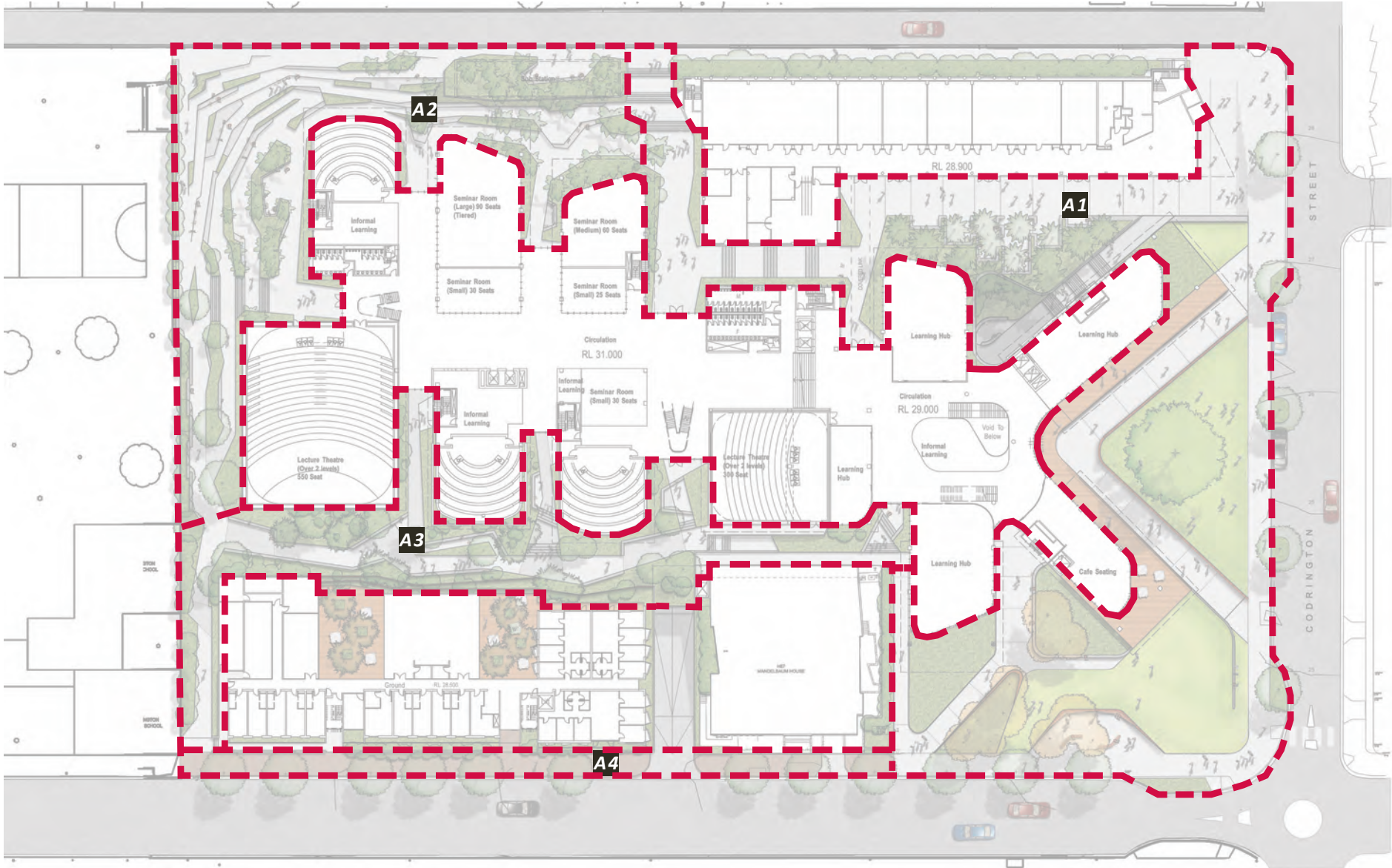
<i>Acacia pendula</i>	<i>Angophora hispida</i>	<i>Angophora hispida</i> flower	<i>Banksia serrata</i>	<i>Casuarina equisetifolia</i>	<i>Melaleuca amillarlis</i>	<i>Melaleuca amillarlis</i> flower	<i>Allocasuarina nana</i>	<i>Baeckea imbricata</i>	<i>Correa alba</i>	<i>Chrysocephalum apiculatum</i>	<i>Chrysocephalum apiculatum</i>	<i>Isolepis nodosa</i>	<i>Westringia 'Jervis Gem'</i>	<i>Lomandra tanika</i>
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[illegible]



There are 2 trees included amongst these that have been noted as having high significance value. These include a *Corymbia citriodora* (Lemon Scented Gum) located to the South of Boundary Lane immediately adjacent to several structures including Boundary Lane roadway, a building and a drainage culvert, the other is a *Eucalyptus scoparia* (Wallangarra White Gum) located in the centre of the existing child care centre. The specimens due to their proximity to existing structures and conflict with the proposed building are designated for removal.

LP-3A-07



- A1** STONE PAVING WITH SANDSTONE WALLS, CORTEN WALLS AND CONCRETE STAIRS/SEATS
A2 CONCRETE PAVING WITH CONCRETE WALLS AND CONCRETE STAIRS/SEATS
A3 CONCRETE PAVING WITH CONCRETE STAIRS/SEATS
A4 BRICK PAVING



LARGE FORMAT STONE PAVEMENT



CONCRETE PAVEMENT



BRICK PAVING



SANDSTONE WALLS



CORTEN WALLS



CONCRETE WALLS



CONCRETE STEPS/SEATING



NOTES:

Iss.	Amendment	Date	By
A	Part 3A	04/04/12	LB



IMPORTANT NOTES:
All dimensions are to be taken to the center of the element unless otherwise stated.
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DATE
APRIL 2012
SCALE

SHEET
8 of 8
DRAWN
LB

CHECKED
DB
ISSUE
DA

DWG. TITLE
Landscape Finishes Plan
PROJECT
THE UNIVERSITY OF SYDNEY
Business School Redevelopment

360°
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LP-3A-08