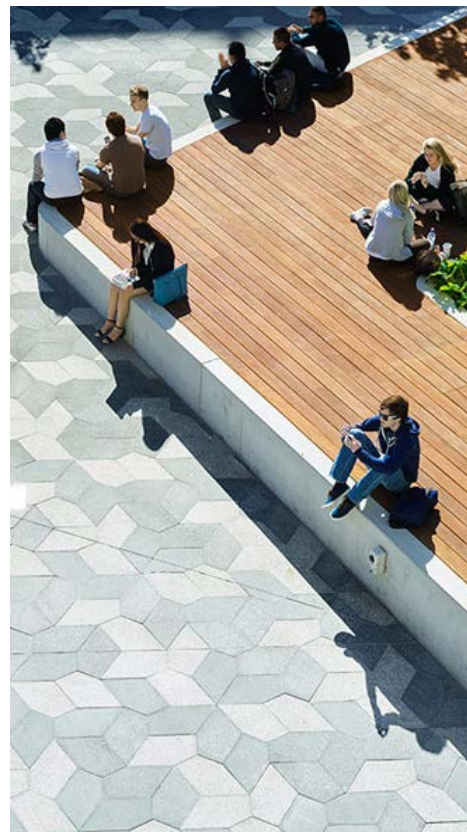


SHORE PHYSICAL EDUCATION CENTRE NORTH SYDNEY

LANDSCAPE DESIGN REPORT

DEVELOPMENT APPLICATION



O C U L U S

landscape architecture | urban design
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CLIENT



ARCHITECT



LANDSCAPE ARCHITECT

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w w w . o c u l u s . i n f o

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INTRODUCTION

This Landscape Design Report has been prepared by OCULUS Landscape Architecture and Urban Design in association with COX architects. This document sets forth the guiding principles for the landscape design of spaces for the development of SHORE School Physical Education Centre, North Sydney. The proposal outlined within this report is intended to create a verdant, attractive landscape through engaging memorable landscapes which support and nourish students creativity while providing amenity for staff and visitors.

The landscape spaces are bound by the proposed development, existing library and Robson Boarding house. It features a series of courtyards and terraces stepping up to the north arriving at the existing BH Travers courtyard. These spaces will foster students learning and creativity through flexible outdoor classrooms, function spaces, areas for visitors, viewing and seating spaces whilst aiding connectivity, circulation and DDA requirements. In the south western area of the site lies the proposed extension to the Bishopsgate Carpark. This area will provide space for an extension of the Barry and Hodges Boarding House lawn as a rooftop landscape.

Careful consideration of the architectural elements and conceptual collaboration with the client and consultant team has lead to a holistic design that encourages use and promotes the new school spaces.

CONTEXT PLAN



LANDSCAPE APPROACH

The landscape architectural design for the Shore Physical Education Centre development aims to create a contemporary, functional and aesthetically pleasing landscape that seamlessly blends with the built form.

The following principles form the landscape approach to the site:

- Integrate the proposed development through the variety of landscape spaces;
- Provide tree cover where possible
- Maintain views to the harbour;
- Design spaces that will encourage use, dwelling and occupation;
- Ensure a mix of spaces have access to sun light whilst also providing adequate shelter and wind protection;
- Maximise opportunities for social interaction through arrangement of seating and views;
- Contribute to local biodiversity by increasing the biomass and diversity of plant species included in the landscape;
- Provide sufficient soil depths through the clever use of level changes to enable trees and large shrubs to be grown over podiums, creating the impression the garden is not located over a basement structure.
- Create a robust landscape made from simple materials, proven planting and bold forms that can be managed and maintained;
- Provide clear and integrated access for all abilities;
- Make boundaries and interfaces green, verdant and alive;
- Consider the landscape as a composition to be viewed down upon from above.

LANDSCAPE MASTERPLAN

Courtyards

The courtyards are connected spaces that serve as circulation and access space whilst providing areas to relax where possible. These spaces are enclosed by buildings on at least 2 sides and will therefore be predominantly in shade. It has been designed to be shady and tranquil in character, offering a peaceful sanctuary from the busy adjacent buildings. The courtyards link Hunter Crescent and the terraces above and to the north. Each space incorporates stairs to the level above or below and where possible introduces planting to contribute to the overall green link present throughout the site. It is important in these spaces to retain clear access to each building as weekend sport brings a large number of people to the site. These spaces will be highly trafficked as each team/squad and their minders await the next game.

Terraces

The roof terraces are located outside the religious education classrooms and outside as an extension of the existing library. Both terraces face south with stunning views towards the harbour and city beyond providing the perfect viewing space over the proposed buildings. The design of the terraces will encourage use, dwelling and occupation by providing a variety of different types of spaces and seating opportunities for different sized groups of people. The design approach proposes an overlapping of functions to provide a dynamic and flexible space that would be activated throughout the day. Both spaces present the opportunity for flexible learning spaces where classes can be taught outside or students can study or read on outdoor desks or in smaller seating groups. As these spaces have spectacular views they can also be used as function spaces. Low planting will provide greenery whilst retaining views to the harbour.

Rooftop Carpark

The rooftop carpark is located on top of the proposed Bishopsgate carpark to the south of the Barry and Hodges Boarding House. This space serves as an extension to the lawn outside the boarding house. The rooftop provides the opportunity for a BBQ and turf area for use by the boarders and visitors on the weekend as well as external seating spaces that look over the existing courts below. The rooftop is accessible via the existing stairs to the east of the car park and an upgraded path from the school’s internal street system.

Green Façades

The Shore School development will be integrated into the surrounding streets in a way that embraces the existing neighbourhood character. Existing planting along William Street will be enhanced. Horizontal planters along the edges of the terraces will allow green to spill over the edges. These green edges will soften the large mass of the building whilst also provide space to set back balustrades and reduce their visual dominance. Along Hunter Crescent a green facade will wrap around from the internal site to the street. The design of the interfaces with the public streets will take on the council’s material palette in order to create a seamless transition.



Travers courtyard

Existing planting to be removed and replanted

Classroom terrace

Library terrace

William st planting

balcony and courtyard

lower courtyard

entry courtyard

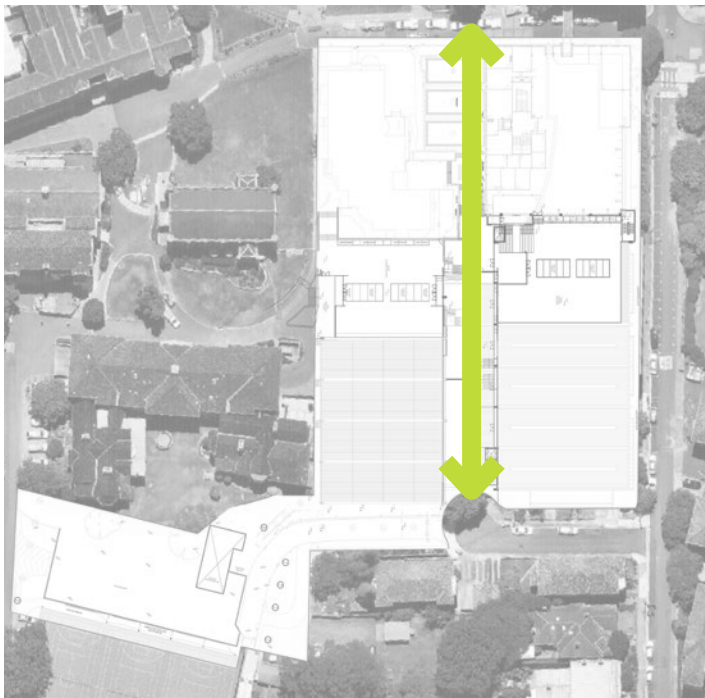
sunken courtyard

Hunter crescent entry

New stair location

Bishopsgate carpark

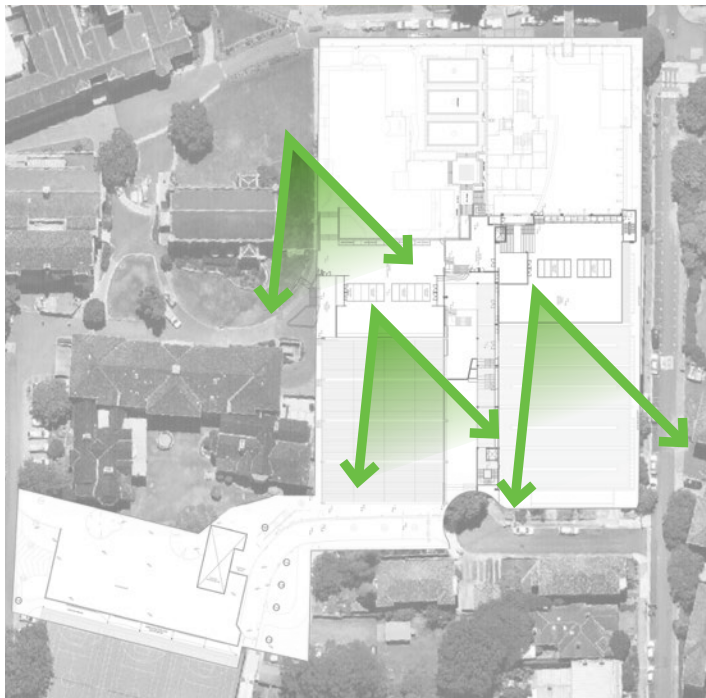
OVERALL SITE PRINCIPLES



GREEN LINK



FLEXIBLE LEARNING



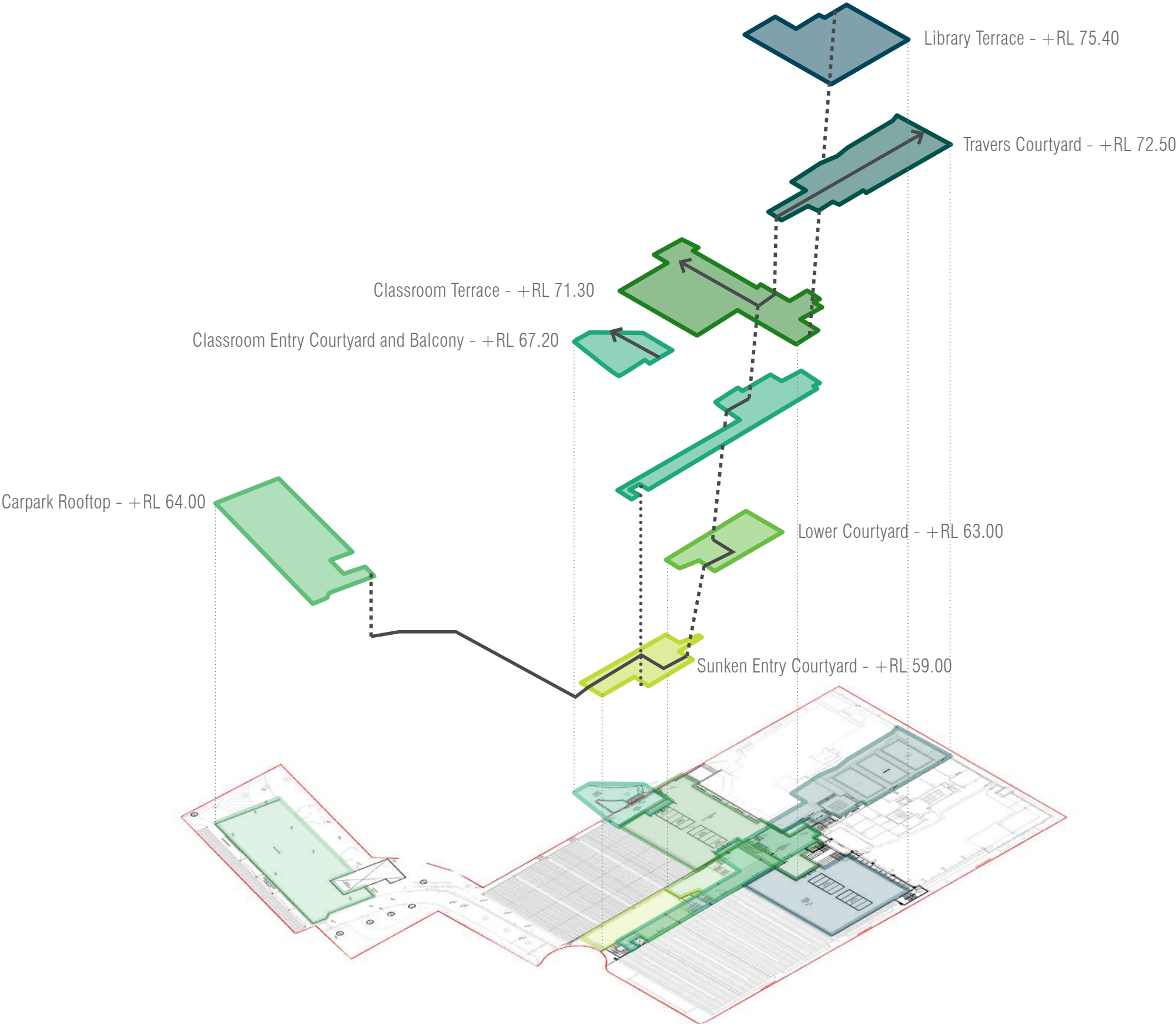
CELEBRATE VIEWS



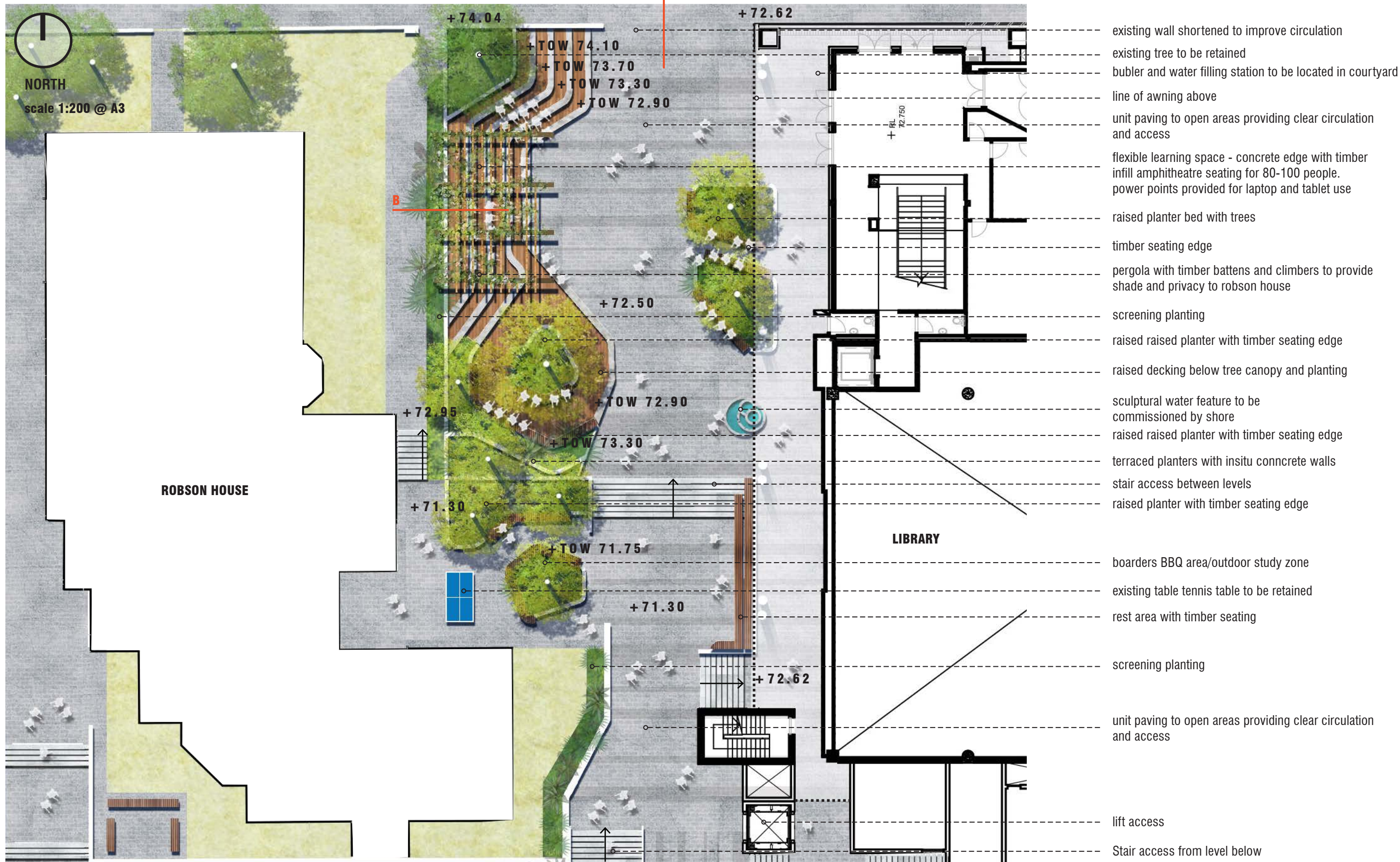
GREEN THE EDGE

OVERALL SITE LEVELS BREAK DOWN

- Stairs
- Lift



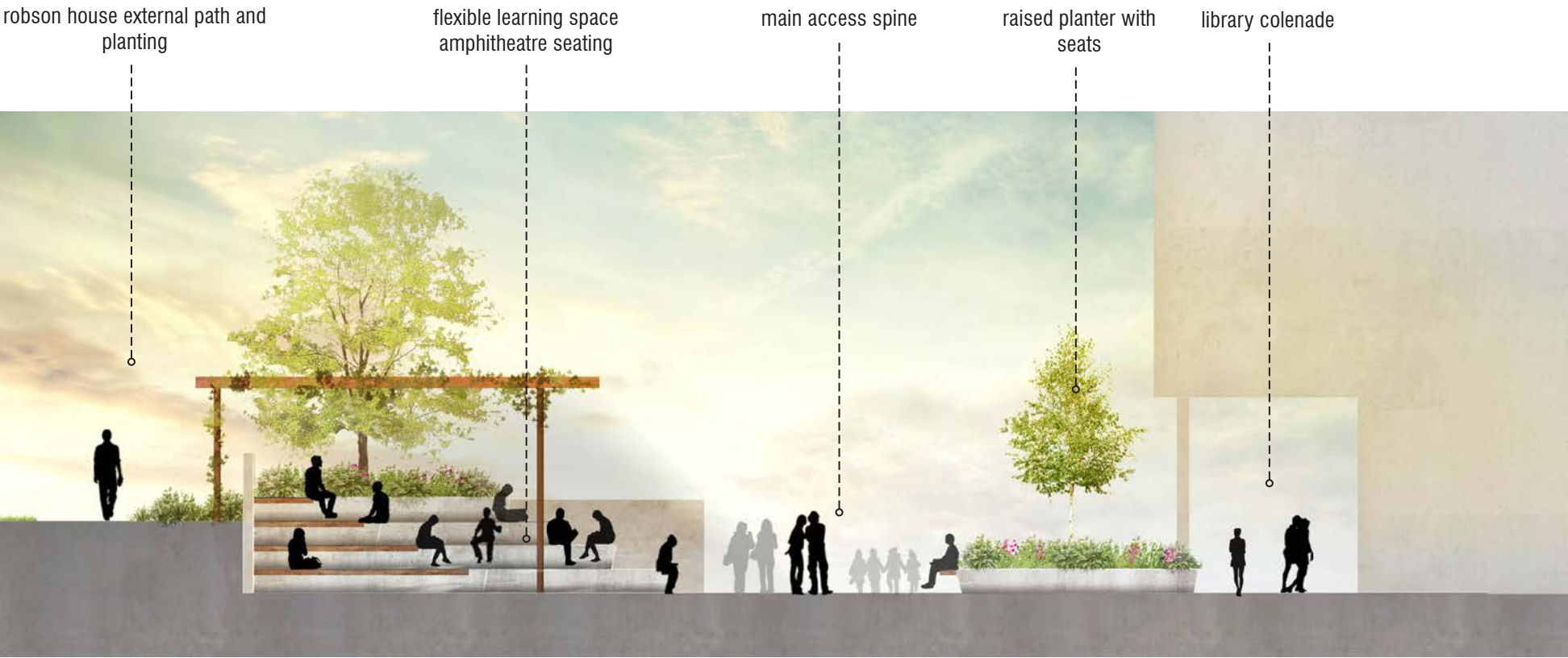
TRAVERS COURTYARD CONCEPT PLAN



TRAVERS COURTYARD SECTIONS



SECTION A



SECTION B
OCULUS

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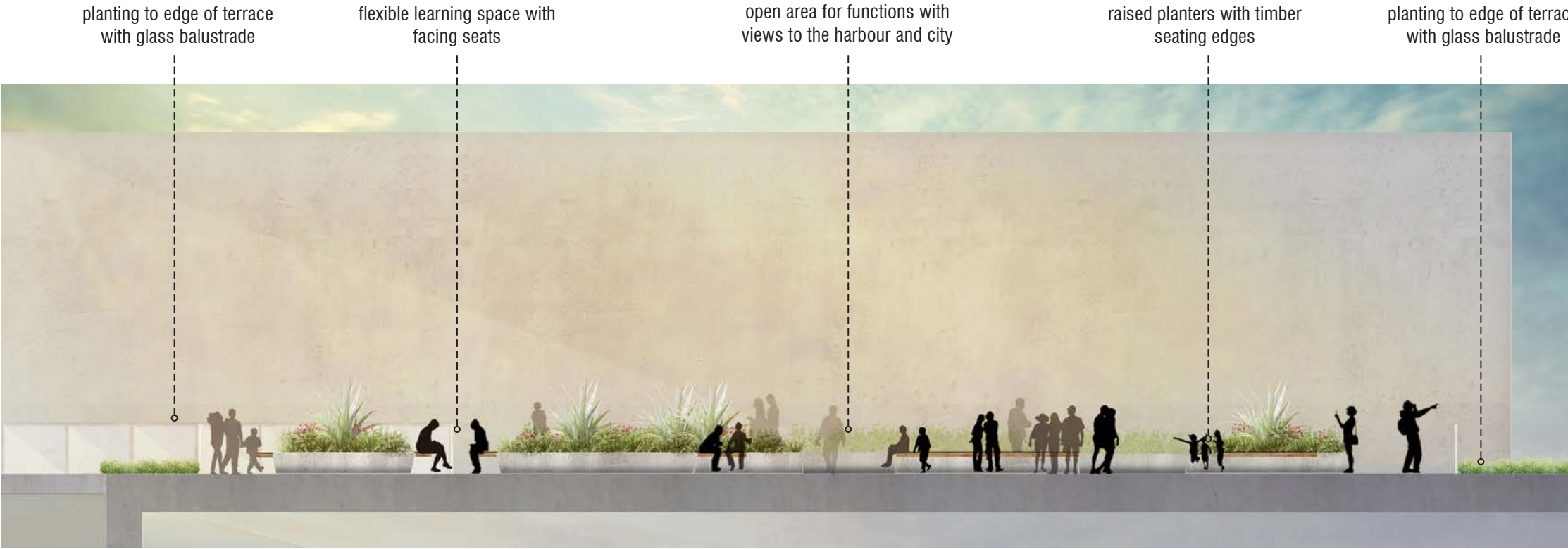
CHARACTER IMAGES



LIBRARY TERRACE CONCEPT PLAN

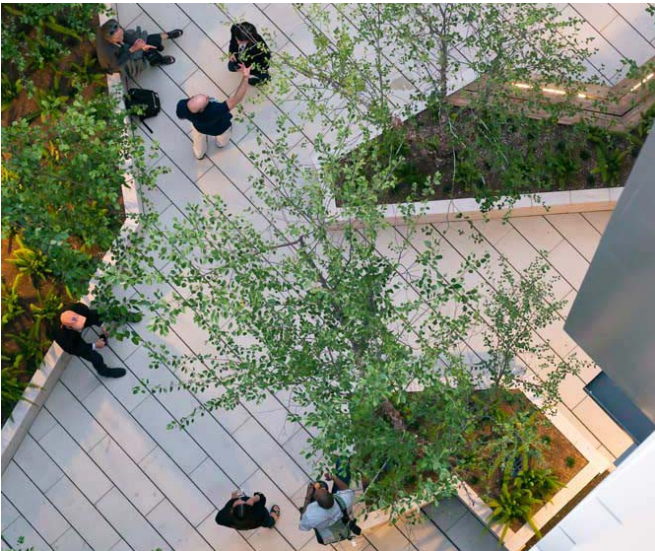


LIBRARY TERRACE SECTION

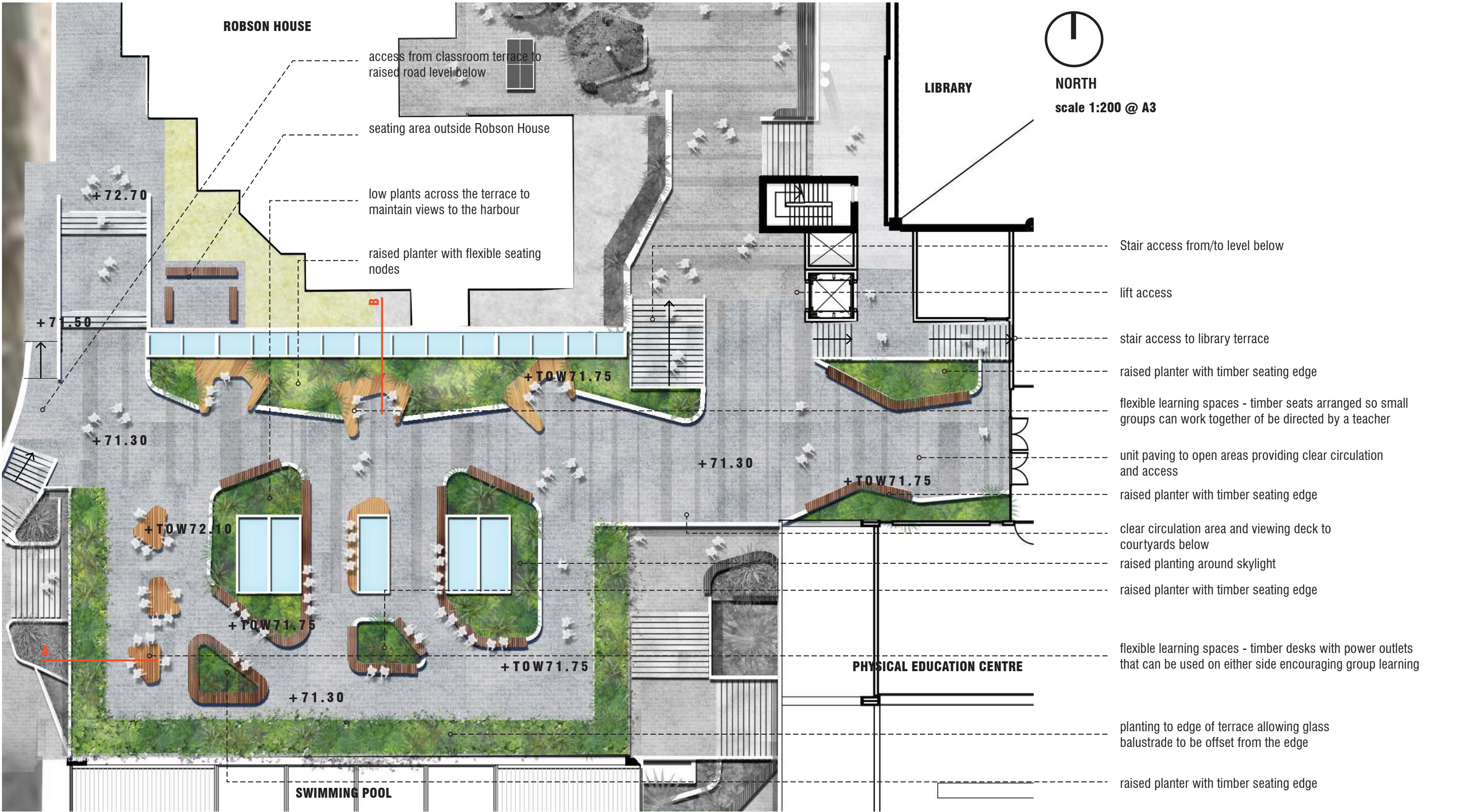


SECTION A

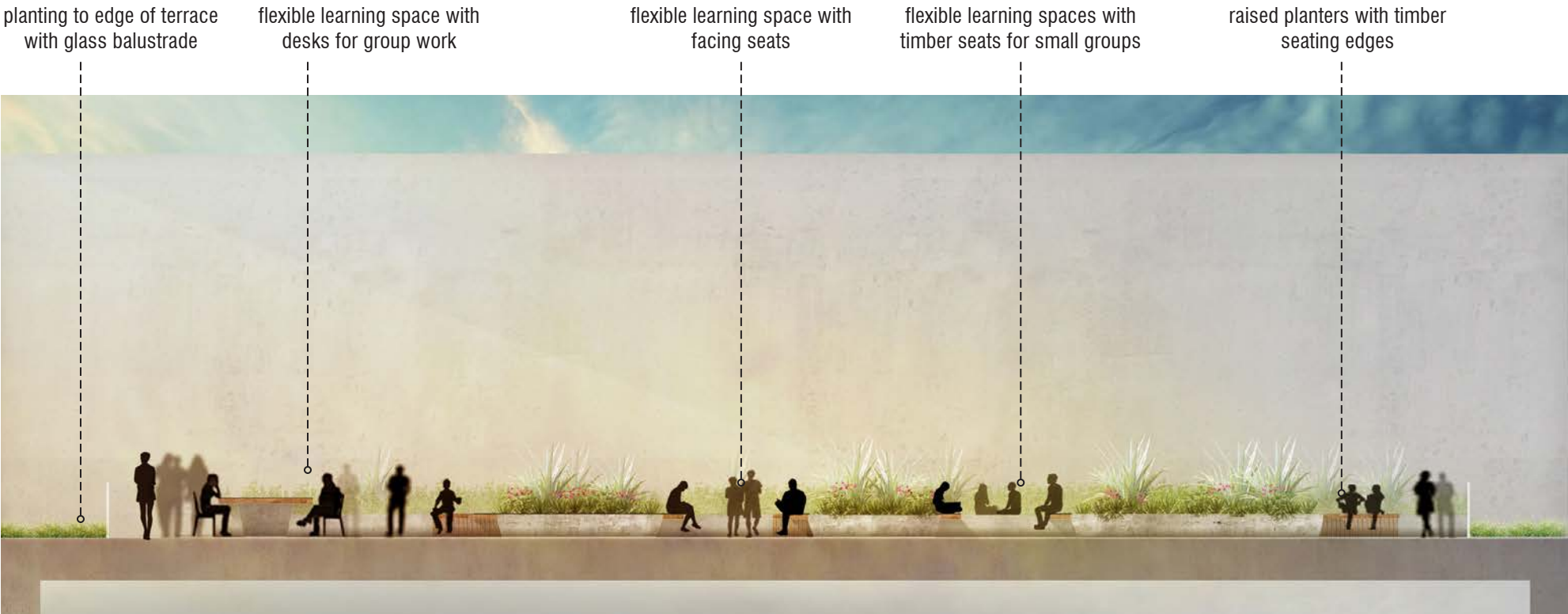
CHARACTER IMAGES



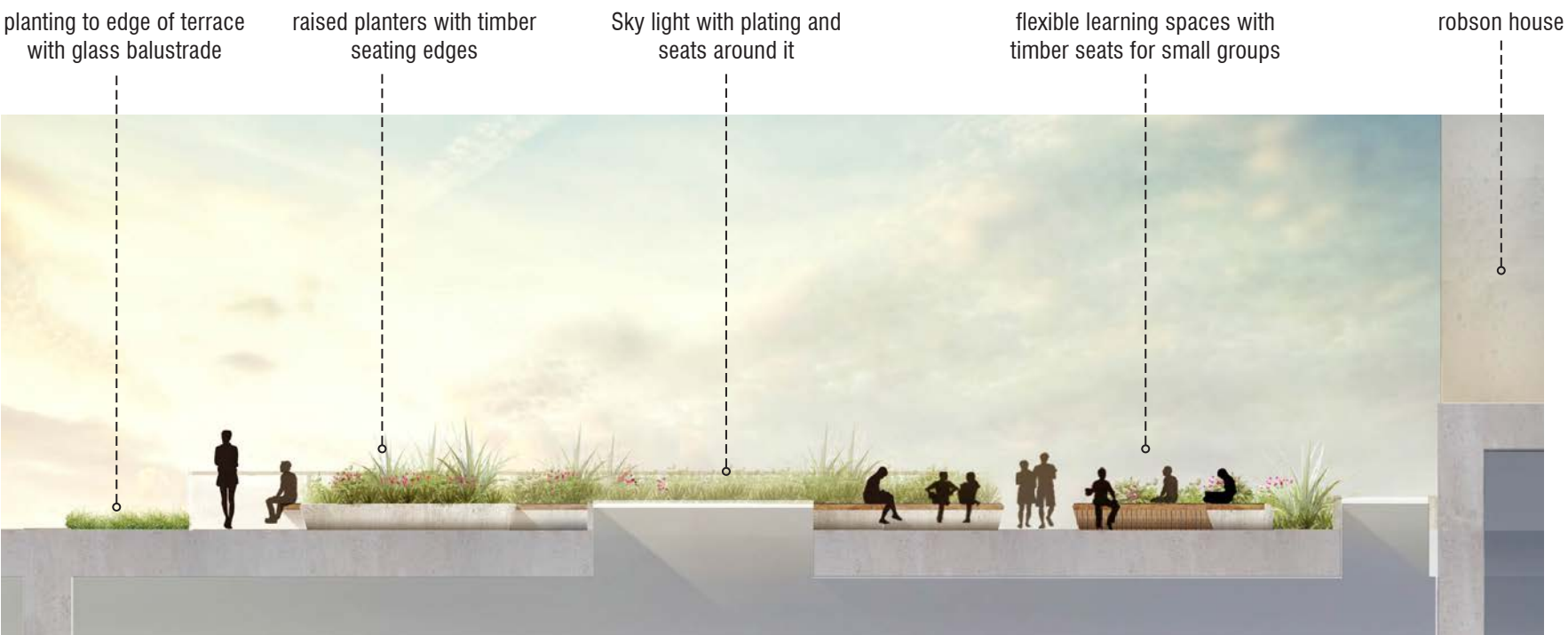
CLASSROOM TERRACE CONCEPT PLAN



CLASSROOM TERRACE SECTIONS

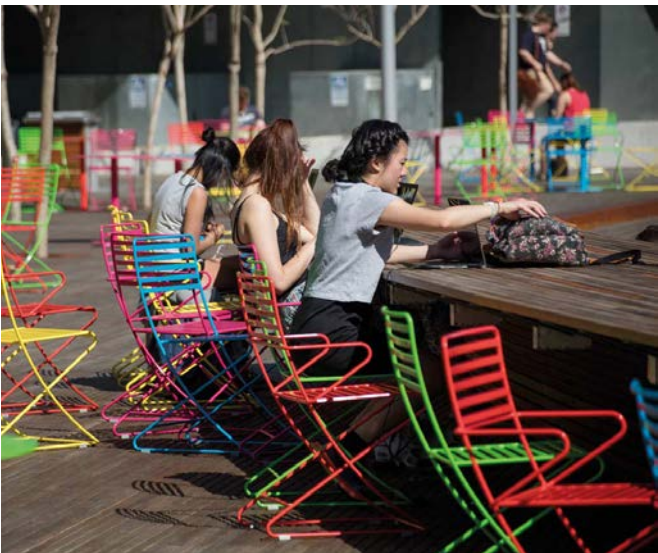


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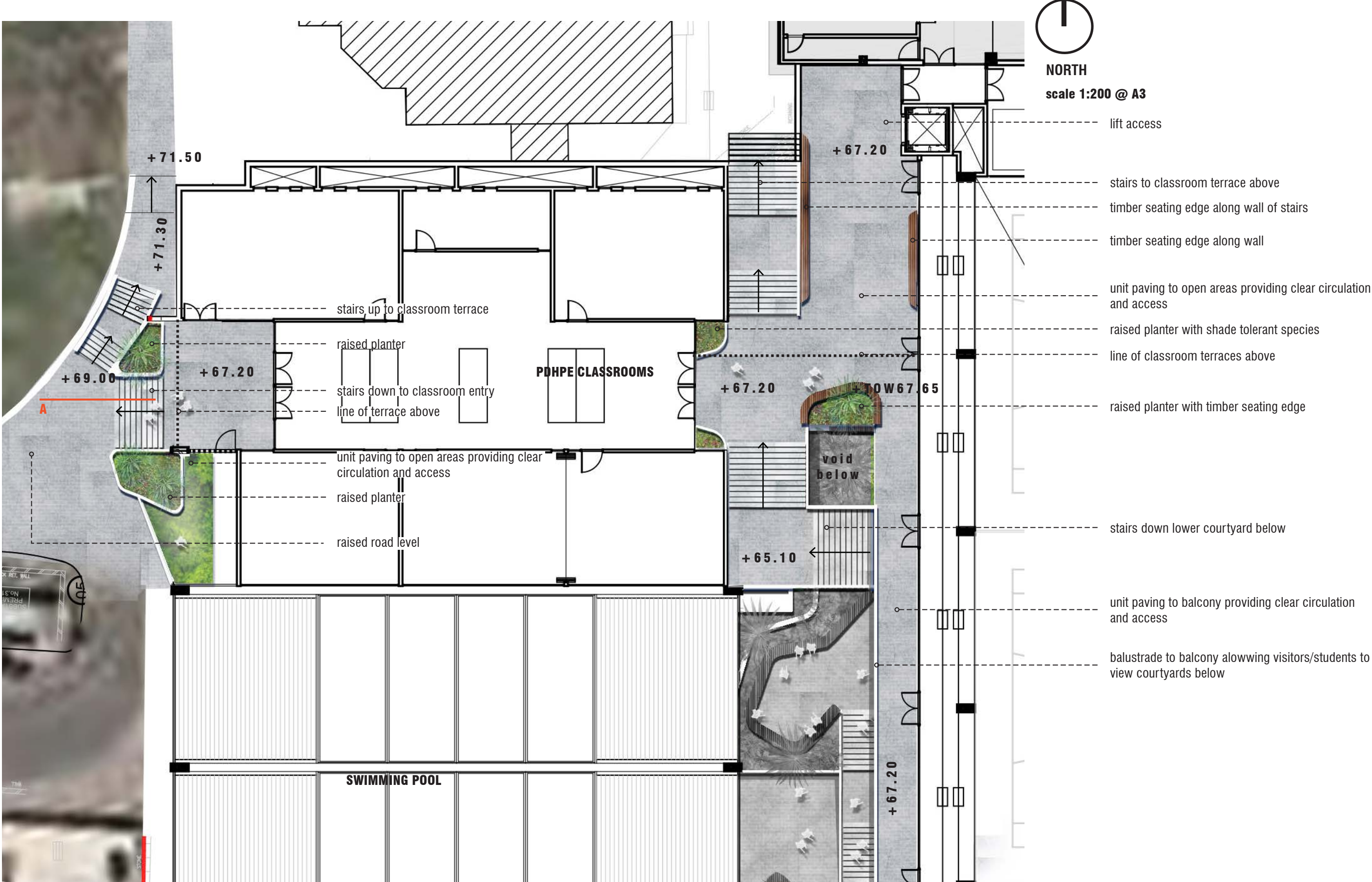


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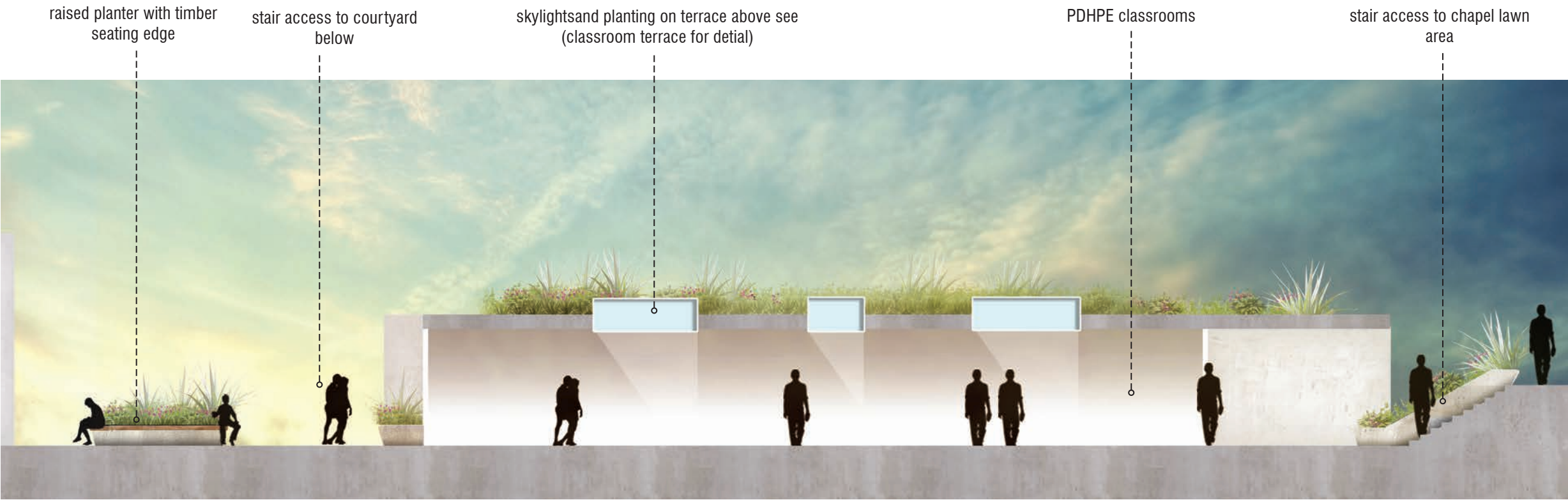
CHARACTER IMAGES



BALCONY AND CLASSROOM ENTRY CONCEPT PLAN



BALCONY AND CLASSROOM ENTRY SECTION

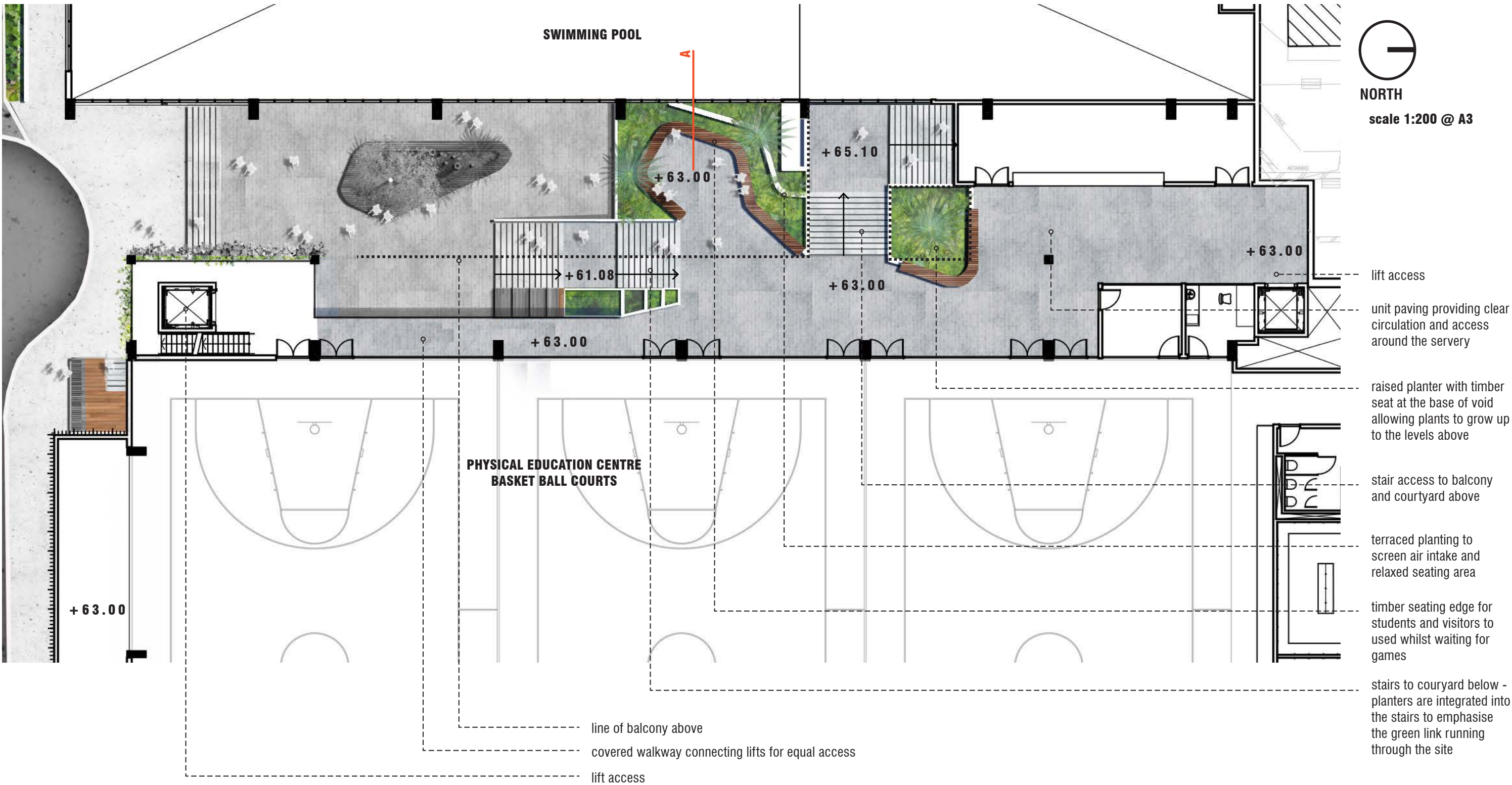


SECTION A

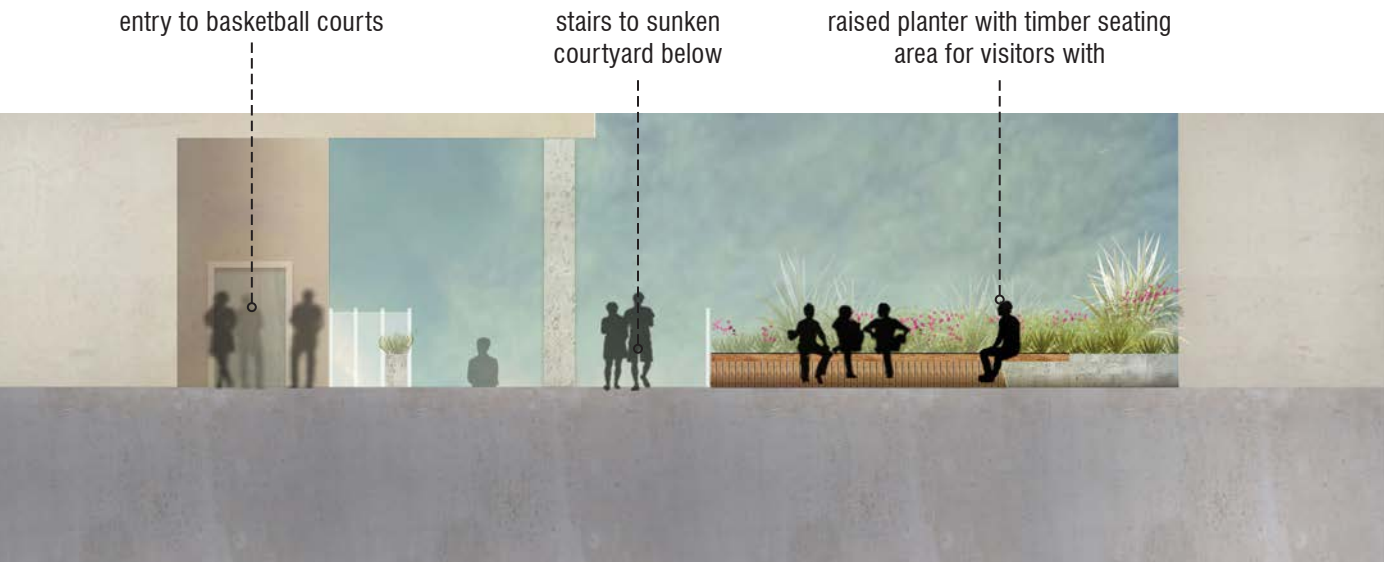
CHARACTER IMAGES



LOWER COURTYARD CONCEPT PLAN



LOWER COURTYARDS SECTION

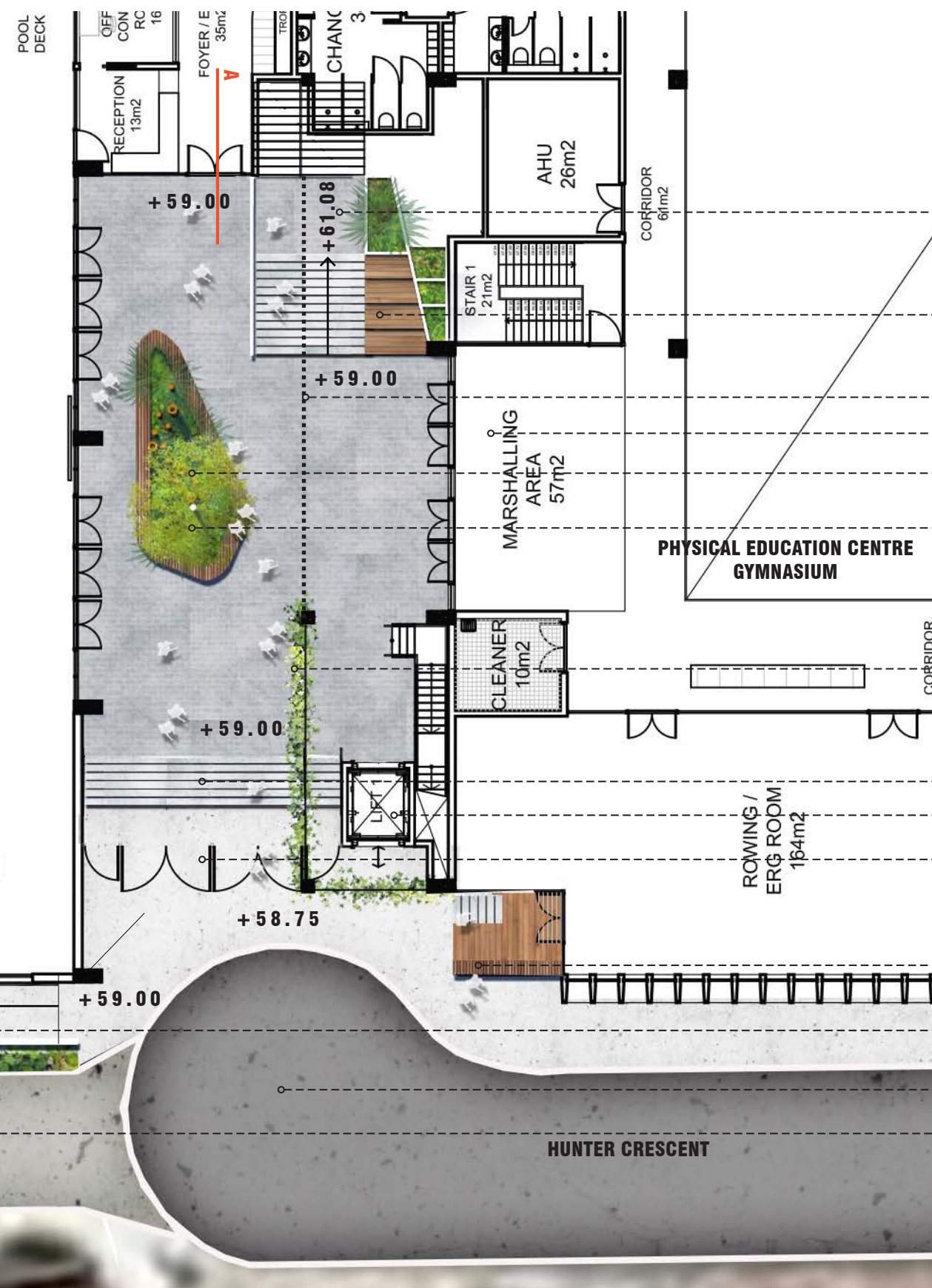
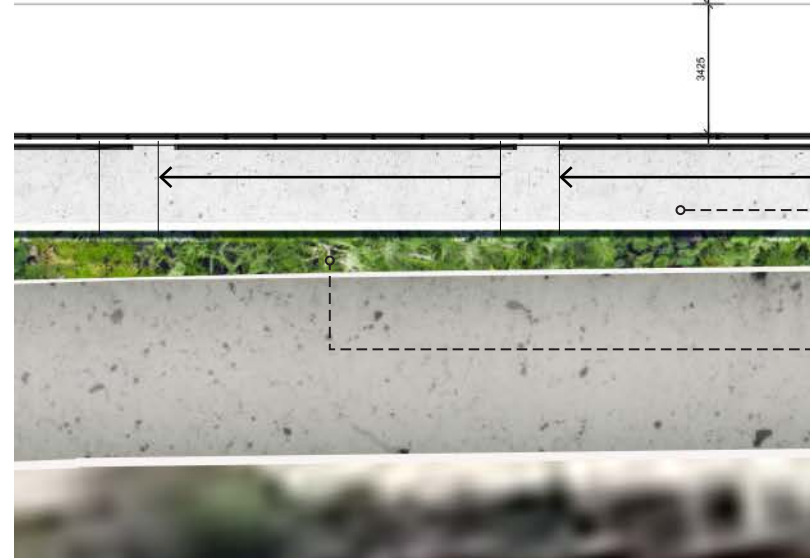
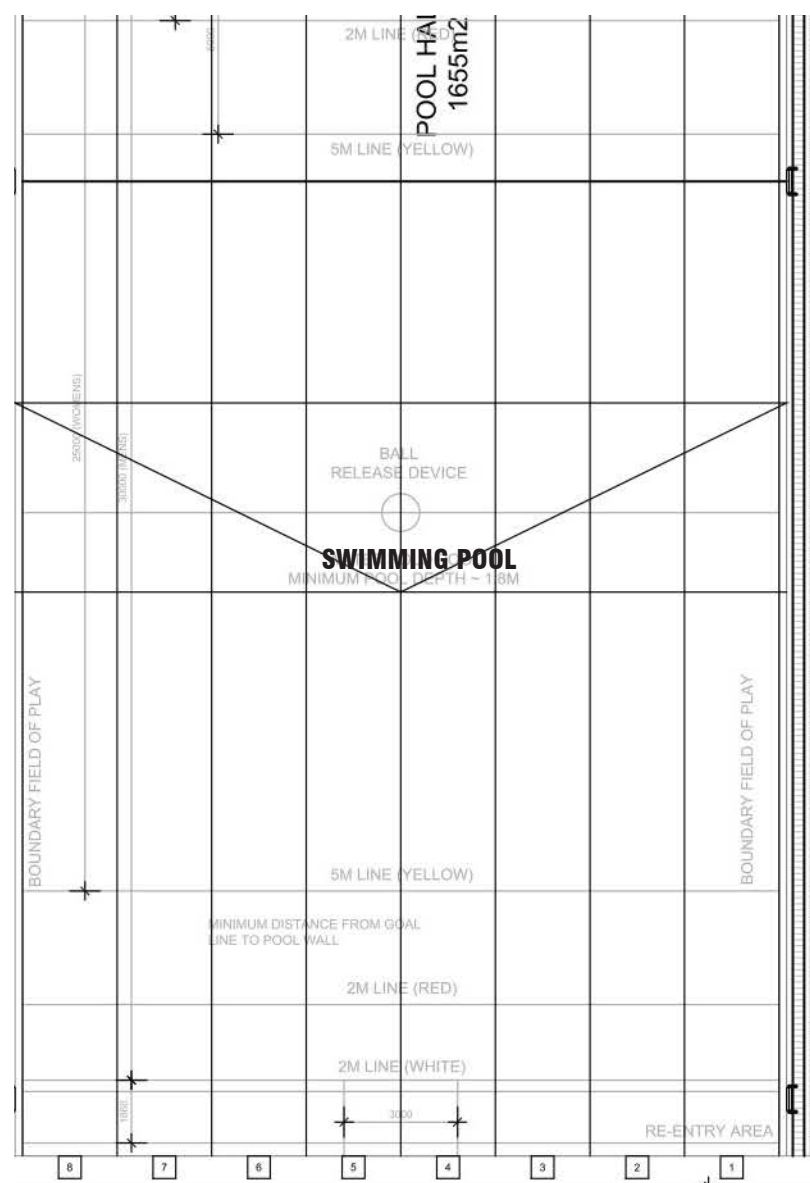


SECTION A

CHARACTER IMAGES



SUNKEN COURTYARD CONCEPT PLAN



NORTH

scale 1:200 @ A3

stairs to courtyard above - planters are integrated into the stairs to emphasise the green link running through the site. plants will be shade tolerant

- stepped timber seating for used by students and visitors during weekend sport or events

- line of balcony above

- marshalling area

- entry sculpture to be commissioned by shore

- raised planter with timber seating edge and small tree

- green wall above to lift shaft and stairwell

- stairs from street level into school

- lift access

- controlled gate access into school

- timber bench seat

- 1:14 ramp access to carpark and drop off

- hunter crescent

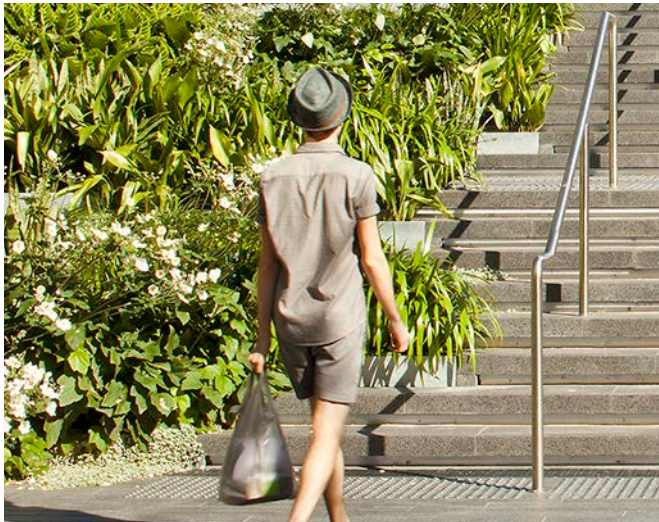
- planting between road and ramp wall

SUNKEN COURTYARD SECTION

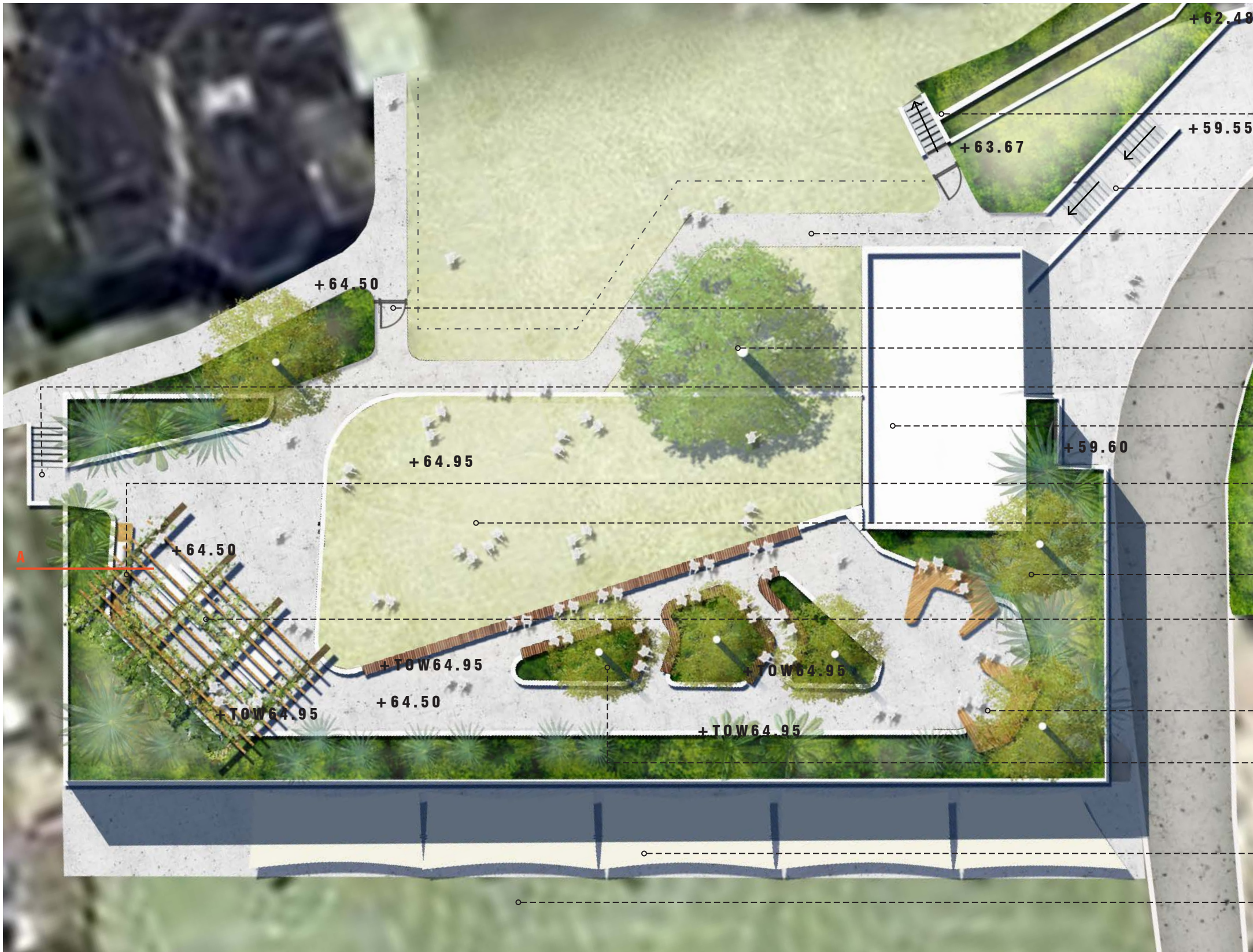


SECTION A

CHARACTER IMAGES



CARPARK ROOFTOP CONCEPT PLAN

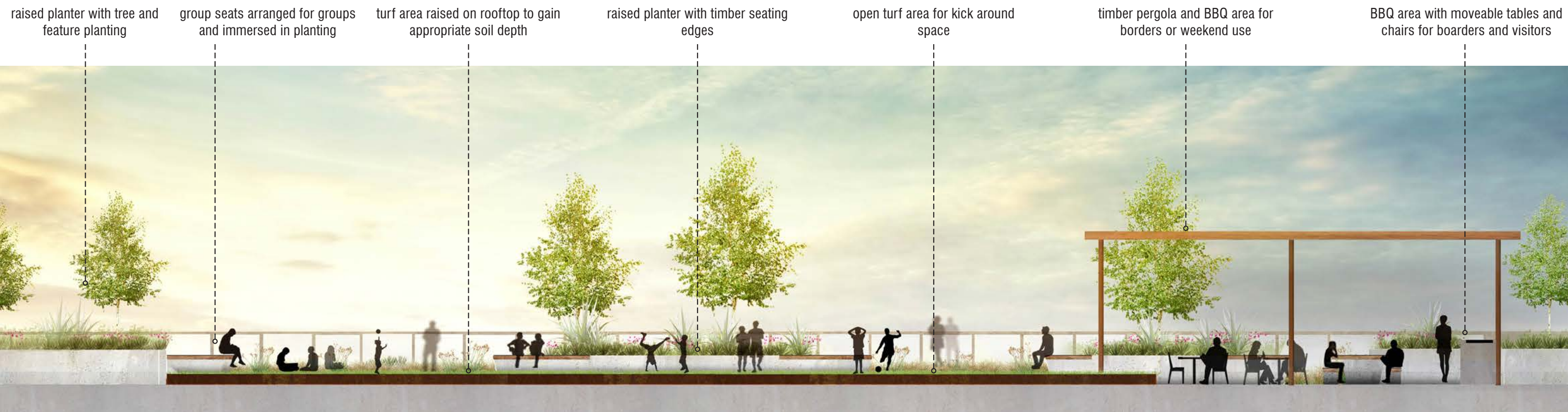


NORTH

scale 1:200 @ A3

- existing stair access to barry and hodes boarding house retained
- proposed new stair to barry and hodes boarding house
- path connecting street and drop off zone
- gated path to rooftop and boarding house from the street
- existing tree to be replaced with new tree
- stair access to rooftop
- cooling towers
- BBQ and pizza oven area with moveable tables and chairs for boarders and visitors
- turf area raised on rooftop to gain appropriate soil depth
- raised planter with tree and feature planting
- timber pergola and BBQ area for borders or weekend use
- group seats arranged for groups and immersed in planting
- raised planter with timber seating edges
- shade structures below
- existing courts below

CARPARK ROOFTOP SECTION

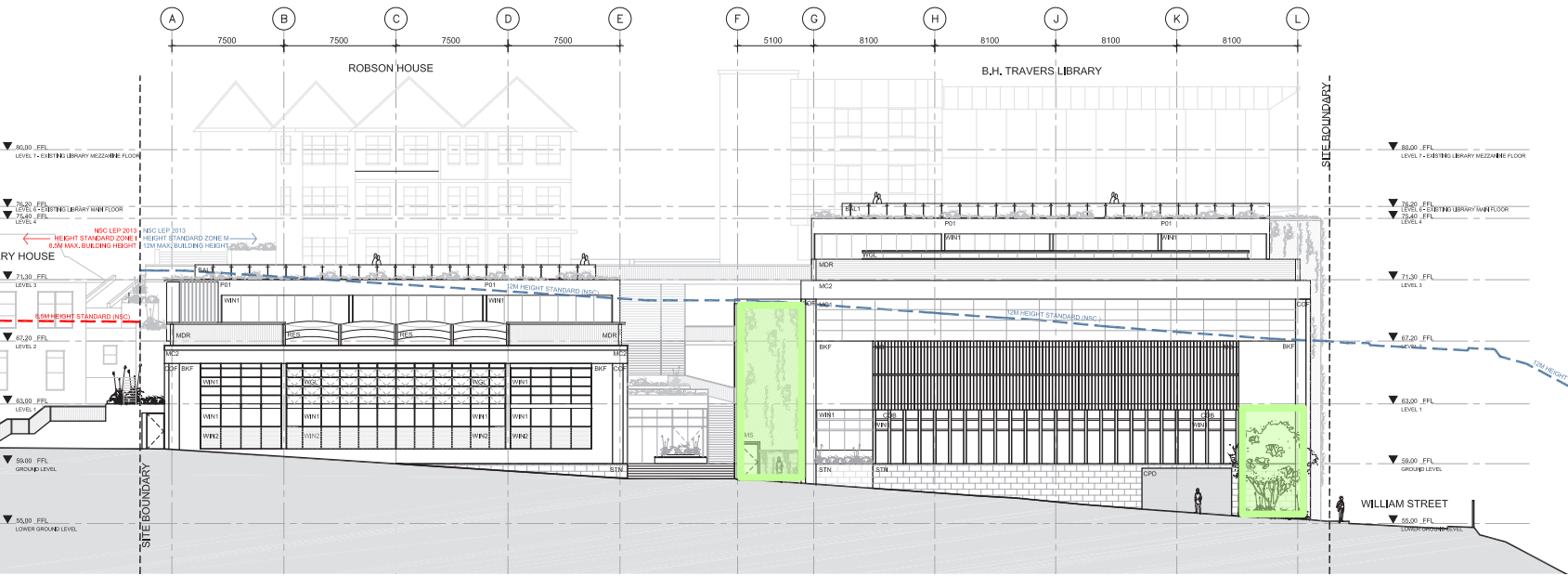


SECTION A

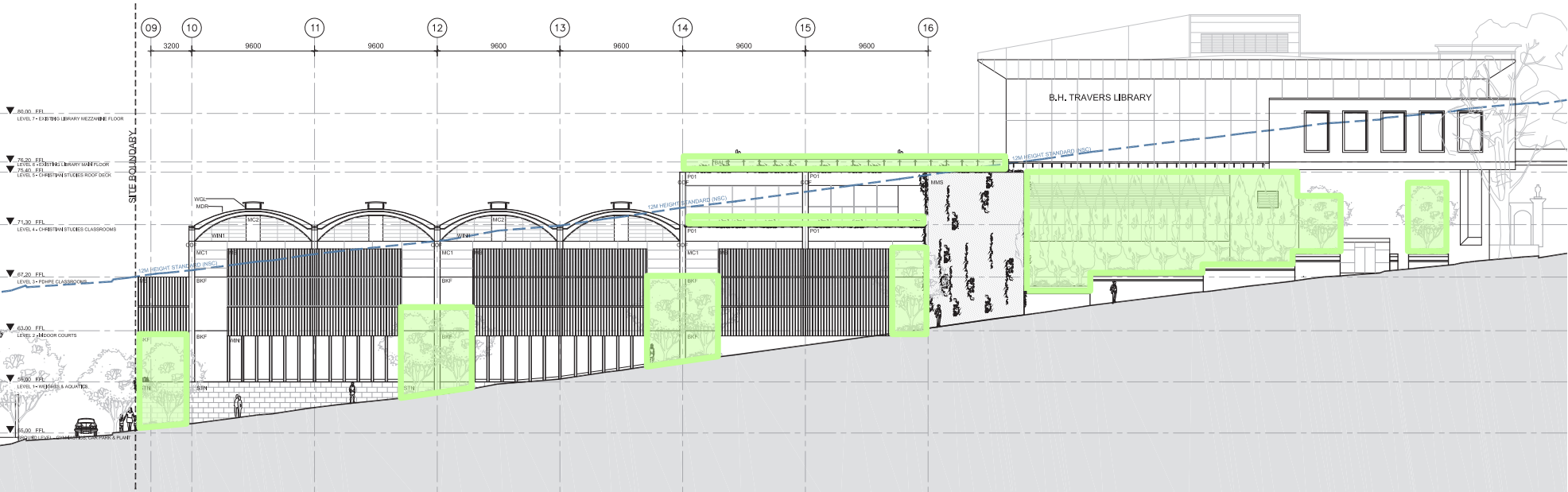
CHARACTER IMAGES



GREEN FACADE AND STREET PLANTING



HUNTER CRESNET



WILLIAM STREET

GREEN FACADES - CHARACTER IMAGES

MESH AND CLIMBERS WITH PLANTERS



PLANTING DESIGN

The planting scheme for Shore School uses a shade tolerant, native and low species palette. Planting is intended to:

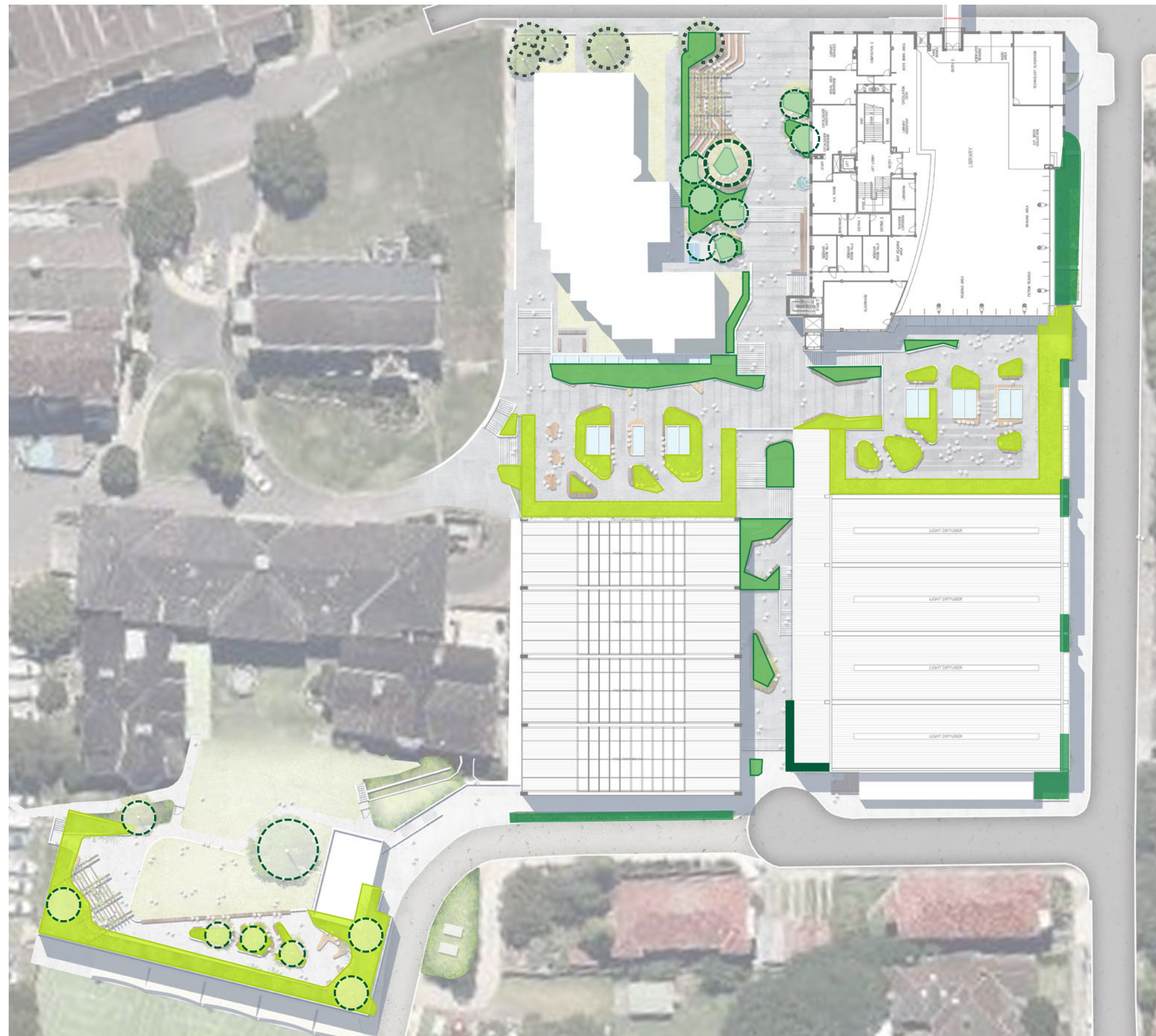
- Establish a green link through the site;
- Incorporate soil volume and irrigation within the constraints of the podium and interface with private open space;
- Use landscape elegantly to create identity and maximise amenity; and
- Be robust, suited to the available aspect, will work with ambient wind levels and will minimise water use.

Maintenance

The maintenance needs of any landscape are absolutely tied to the resolution of the design at planning level. This proposal attempts to negotiate the desire for a verdant planted areas with the need to ensure that these plantings have longevity within a low-maintenance environment. The proposal includes:

- A strong palette of proven performing plants which are tolerant of low-water conditions and limited light;
- A planting palette that utilises several species for each application ensuring seasonal change as well a consistent level of amenity should one of the species under perform;
- Small scale mass planting within a well-designed suite of hardscape elements ensuring that the failure of an individual specimen will be contained, permitting delayed maintenance;
- Allowance for irrigation and maintenance of all communal spaces by the body corporate or owners corporation.

- RETAIN EXISTING TREE
- PROPOSED TREE
- COURTYARD PLANTING
- TERRACE PLANTING
- STREET PLANTING
- GREEN FACADES



COURTYARD PLANTS / GREEN SPINE

The planting scheme for the central courtyards relies heavily on species with foliage interest which will create a lush garden character with year round interest. Feature plants with structural forms have been selected to help define and individualise private spaces within the garden.

Selected tree species provide bold flowering events for the proposed spaces at a manageable scale.

Shrubs + Groundcovers

Image	Species	Common Name	Mature Height	Mature Spread
01	<i>Acanthus mollis</i>	Bear's Breaches	1.0m	1.0m
02	<i>Anemone x hybrida</i>	Japanese Anemone	1.2m	1.0m
03	<i>Arthropodium cirratum</i>	Renga Renga Lily	0.8m	1.0m
04	<i>Aspidistra elatior</i>	Cast Iron Plant	0.8m	0.8m
05	<i>Calathea zebrinus</i>	Zebera Plant	1.0m	0.8m
06	<i>Ctenanthe 'Silver-Maroon'</i>	Never-never plant	0.5m	0.5m
	<i>Ctenanthe oppenheimiana</i>	Never-never plant	0.5m	0.5m
07	<i>Blechnum nudum 'Silver Lady'</i>	Silver Lady Fern	1.0m	1.0m
08	<i>Neomarica gracilis</i>	Walking iris	0.8m	0.6m

Feature Plants & Trees

Image	Species	Common Name	Mature Height	Mature Spread
09	<i>Asplenium australasicum</i>	Birds Nest Fern	1.0m	2.0m
10	<i>Cycas revoluta</i>	Cycad	1.0m	1.5m
11	<i>Phormium 'Maori Maiden'</i>	NZ Flax	1.5m	1.5m
12	<i>Doryanthes excelsa</i>	Gymea Lily	2.0m	2.0m
13	<i>Mangolia 'Little Gem'</i>	NZ Flax	4.0m	2.5m
14	<i>Metrosideros thomasi</i>	NZ Christmas Bush	5.0m	3.0m



ROOFTOP PLANTS

The roof terrace will utilize low growing, predominantly native sun loving plants that can tolerate low water to reduce maintenance requirements. Plants have been selected that will not obstruct district views.

Planting has been selected to respond the potential for breezes in a more exposed location, creating movement and excitement in the space, set against sculptural feature plants that offer rich textural contrasts.

Shrubs + Groundcovers

Image	Species	Common Name	Mature Height	Mature Spread
01	<i>Acacia cognata</i>	Lime Light Acacia	0.8m	1.0m
02	<i>Anigozanthos 'Gold Velvet'</i>	Kangaroo Paw	0.8m	0.6m
03	<i>Casuarina glauca 'Cousin it'</i>	Prostrate Casuarina	0.4m	1.0m
04	<i>Dianella revoluta 'Little Rev'</i>	Native Flax	0.3m	0.3m
05	<i>Eremophila nivea</i>	Silky Eremophila	1.5m	1.5m
06	<i>Hardenbergia violacea 'meema'</i>	False sarsparilla	0.5m	0.5m
07	<i>Leucophyta brownii</i>	Cushion Bush	0.8m	0.8m
08	<i>Lomandra tanika</i>	Mat Rush	0.6m	0.6m
19	<i>Myoporum parvifolium</i>	Black Hellebore	0.4m	0.4m
10	<i>Pennisetum alopecuroides 'Nafray'</i>	Fountain Grass	0.7m	1.0m
11	<i>Sedum 'Autumn Joy'</i>	Sedum	0.4m	0.8m
12	<i>Senecio mandraliscae</i>	Blue Chalk Sticks	0.2m	0.8m

Feature Plants

Image	Species	Common Name	Mature Height	Mature Spread
13	<i>Agave attenuata</i>	Agave	0.8m	0.8m
14	<i>Agave geminiflora</i>	Twin Flowered Agave	0.8m	0.6m
15	<i>Echinocactus grusonii</i>	Golden Barrel Cactus	0.3m	0.3m
16	<i>Xanthorrea arborea</i>	Grass Tree	1m	1m



STREETSCAPE PLANTING

Streetscape planting has been selected which offers tough, lough maintenance options with subtle contrasts to provide an increased aesthetic presence along street frontages.

Shrubs + Groundcovers

Image	Species	Common Name	Mature Height	Mature Spread
01	<i>Liriope muscari</i> 'Evergreen Giant'	Lily Turf	0.8m	1.0m
02	<i>Philodendron xanadu</i>	Philodendron	0.8m	0.8m
03	<i>Syzgium</i> 'cascade'	Lilli Pilli	2.0m	1.5m
04	<i>Sansevieria trifasciata</i>	Snake Plant	0.6m	0.6m
05	<i>Trachelospermum asiaticum</i>	Variegated Star Jasmine	0.5m	1.0m

Feature Trees

Image	Species	Common Name	Mature Height	Mature Spread
06-07	<i>Eleocarpus reticulatus</i>	Blueberry Ash	4.0m	2.5m
08	<i>Prunus cerasifera</i> 'Oakville'	Purple Leaf Plum	6.0m	2.0m



MATERIALS

A suite of hard landscape materials have been selected to provide a robust and long lasting finish that will provide a quality exterior setting for the project and its wider site. Materials such as stone, concrete, timber and steel that do not require unnecessary amounts of repainting and upkeep.

SURFACES

- Insitu Concrete
- Stone
- Timber with concrete Edge



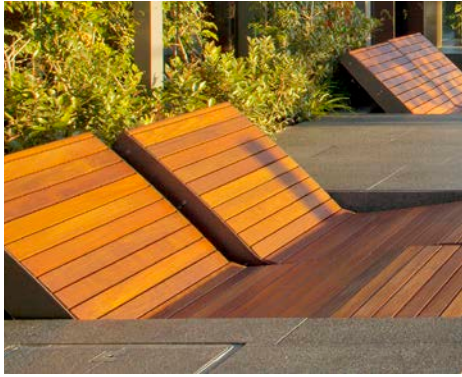
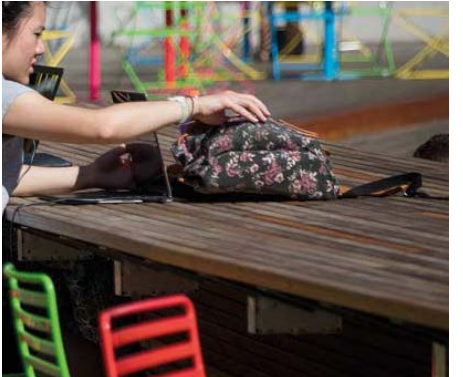
VERTICAL ELEMENTS

- Pergola
- Wires with Vines
- Insitu Concrete Walls
- Timber Seats Edge



FURNITURE

- Timber Desks
- Group Seating
- Moveable Stackable Chairs



LIGHTING

Lighting is an important aspect of the design of the landscape and creates a dynamic overlay that activates the space at night. Lighting will be used for safety reasons, with continuous illumination along paths and feature lighting to signify building entrances. As well as these functional purposes, lighting will also be used in an artistic way, to draw attention to landscapes features such as sculptural trees and planting, and furniture elements. Lighting in these areas will be located so that it does not cause light spill to neighbouring residents, properties or roads and will be designed in future stages to conform to Australian Standards including AS 4282:1997.

LIGHTING

- Light Poles
- Lights Fixed to Building
- Uplight to Trees
- Illuminated Seating Edges
- Fairy Lights

