



PENDLE HILL HIGH SCHOOL
LANDSCAPE
DESIGN
REPORT

Prepared for

Pendle Hill High School

Prepared by



Ground Ink Pty Ltd
Suite 201, 75 Archer Street Chatswood NSW 2067
(02) 9411 3279

www.groundink.com.au

Submission for

Development Application

Revision	Status	Date	By	Checked
DRAFT	FOR REVIEW	10.03.2021	ML	RL
A	FOR APPROVAL	19.03.2021	ML	RL
B	FOR APPROVAL	25.03.2021	ML	RL
C	FOR APPROVAL	26.03.2021	ML	RL
D	FOR APPROVAL	30.03.2021	ML	RL
E	FOR APPROVAL	06.04.2021	ML	RL
F	FOR APPROVAL	30.04.2021	ML	RL

© Ground Ink Pty Ltd This design and drawing is protected by copyright.


Disclaimer:
This report is for the confidential use of the party to whom it is addressed (the Client) for the purposes outlined within this documentation. GI disclaim any responsibility of a third party acting or using any part of this document without prior written approval of the form and content to which the information will appear in. This study is based on estimations and assumptions sourced by Groundink and other consultants. GI have presented these assumptions and estimates as a basis for the reader's interpretation and analysis and rely upon these interpretations to dictate the likelihood of these designs. Within this study GI has relied upon information relating to the subject area provided by the Client and have not independently verified this information except where noted in the document.



Table of Contents

- 1. Context
- 2. Analysis
- 3. Design Approach
- 4. Design Impression & Landscape Master Plan
- 5. Landscape Details & Palette



The background consists of several overlapping rectangular blocks of color. At the top left is a dark grey block. To its right is a light beige block, and further right is a light tan block. Below the dark grey block is a light tan block. The central area is a large white rectangle. To the right of the white rectangle is a light blue block. Below the white rectangle is a light beige block, followed by a bright yellow block. At the bottom left is a dark red block, and to its right is a dark grey block. The bottom right corner is white.

1

Context

Background

Pendle Hill High School is located in the outer western Sydney suburb of Toongabbie approximately 30km from Sydney's CBD. The school is also a member of the Toongabbie Learning Community which consists of a number of partner schools across the region. The site also acknowledges and respects the traditional custodians of Toongabbie for which Pendle Hill High School is situated, the Tugagal clan of the Durag.

Toongabbie is also located within the Cumberland Plain Woodland which is one of six remaining indigenous woodland communities located within the Sydney region. The Cumberland Plain Woodland has been impacted severely by urban pressures and farming in recent history and has been reduced to a mere 6% across the Western Sydney suburbs of Sydney.

Pendle Hill High School is a coeducational secondary school housing students from years 7-12. The school has a strong percentage of students who have a background other than English creating a diverse community with a range of languages represented. Pendle Hill High School is proposing to increase their student capacity to around 1320 students by the year 2023. They intend to capture this through the refurbishment of existing buildings on site as well as the introduction of a new development. The completed project will provide spaces for learning and core facilities for all High School students as well opportunities for further connectivity through interconnecting open spaces and green pathways.

Sydney Map

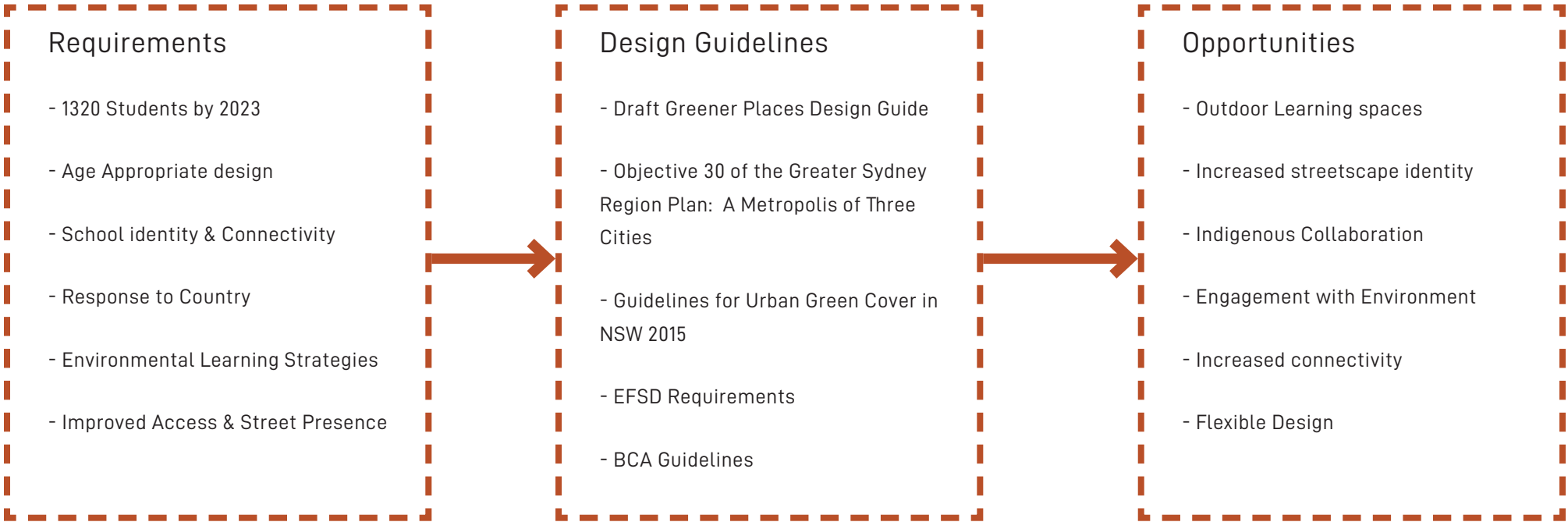




Project Understanding

Pendle Hill High School is proposing to increase their student capacity to around 1320 students by the year 2023. They intend to capture this through the refurbishment of existing buildings on site as well as the introduction of a new development. The completed project will provide spaces for learning and core facilities for all High School students as well opportunities for further connectivity through interconnecting open spaces and green pathways. The requirements for Stage 1 aim to ensure that the spaces designed cater for the population of high school students, capturing their needs and responses to curriculum. This in turn requires spaces that provide the opportunity for learning that engages students beyond the confines of the classroom and is directly related to the required spaces for different year groups. The proposal for Pendle Hill High School also requires a strong connection to environment and the learning benefits and wellbeing that it can provide to staff and students. Within this requirement is the importance of connecting to Country and providing a link to the natural past of Pendle Hill. The school is currently located on land traditionally owned by the Durag people of which still remains a strong culture to which to build upon within the school curriculum. Furthermore the school is located within the Cumberland Plain Woodland that still remains one of the oldest ecological communities in NSW.

The proposal for Pendle Hill High School aims to meet the various requirements of the school community in order to create a holistic design approach. In regards to understanding the ecological benefits within the school environment documents such as the 'Draft for Greener Places' and 'Guideline for Urban Green Cover helps to frame the school within the greater surrounding suburbs, culture and community. Furthermore, promotion of green space and canopy cover are extremely necessary in the school environment with the growing effects of climate change and urban growth. Furthermore, documents such as the EFSG and BCA have been referenced in order to ensure fundamental requirements relating to access, materiality and safety are considered through the design approach.



Site Context

Location




Site Plan



Site Photos



Pendle Hill High School is located within walking distance of multiple residential communities, open space parklands and urban developments. The school is also located nearby various transport routes that allow students to travel to the site whilst also link to connecting routes to Western Sydney and the CBD metropolitan areas.

The background consists of several overlapping rectangular blocks of color. At the top left is a dark grey block. To its right is a light beige block, and further right is a light tan block. Below the dark grey block is a light beige block. The central area is a large white rectangle containing the text. To the right of the white rectangle is a light blue block. Below the white rectangle is a light beige block, followed by a bright yellow block, and then a light blue block. At the bottom left is a dark red block, and at the bottom right is a dark grey block.

2

Analysis

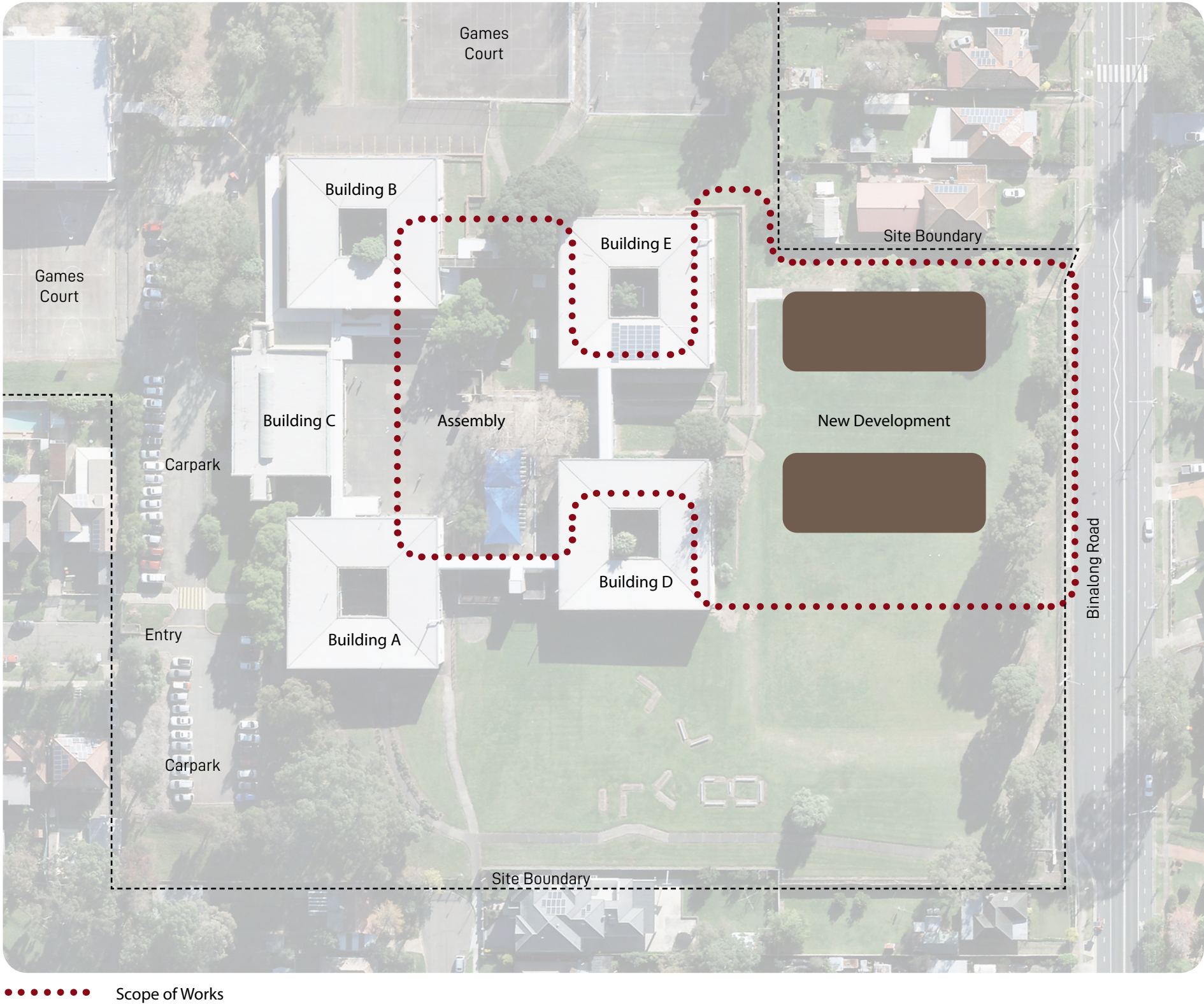
Scope of Works

Pendle Hill High School is an existing secondary school established in 1965

School Infrastructure NSW (SINSW) and the Department of Education (DOE) engaged Architectus to develop a long-term masterplan for the re-development of the site. The resulting masterplan aims to increase the capacity of the school to 2000 students over the course of a number of stages, of which this is the first. Following the completion of the masterplan and concept design phases Fulton Trotter Architects were engaged to develop the details of this project – which forms the scope of work covered by this development application.

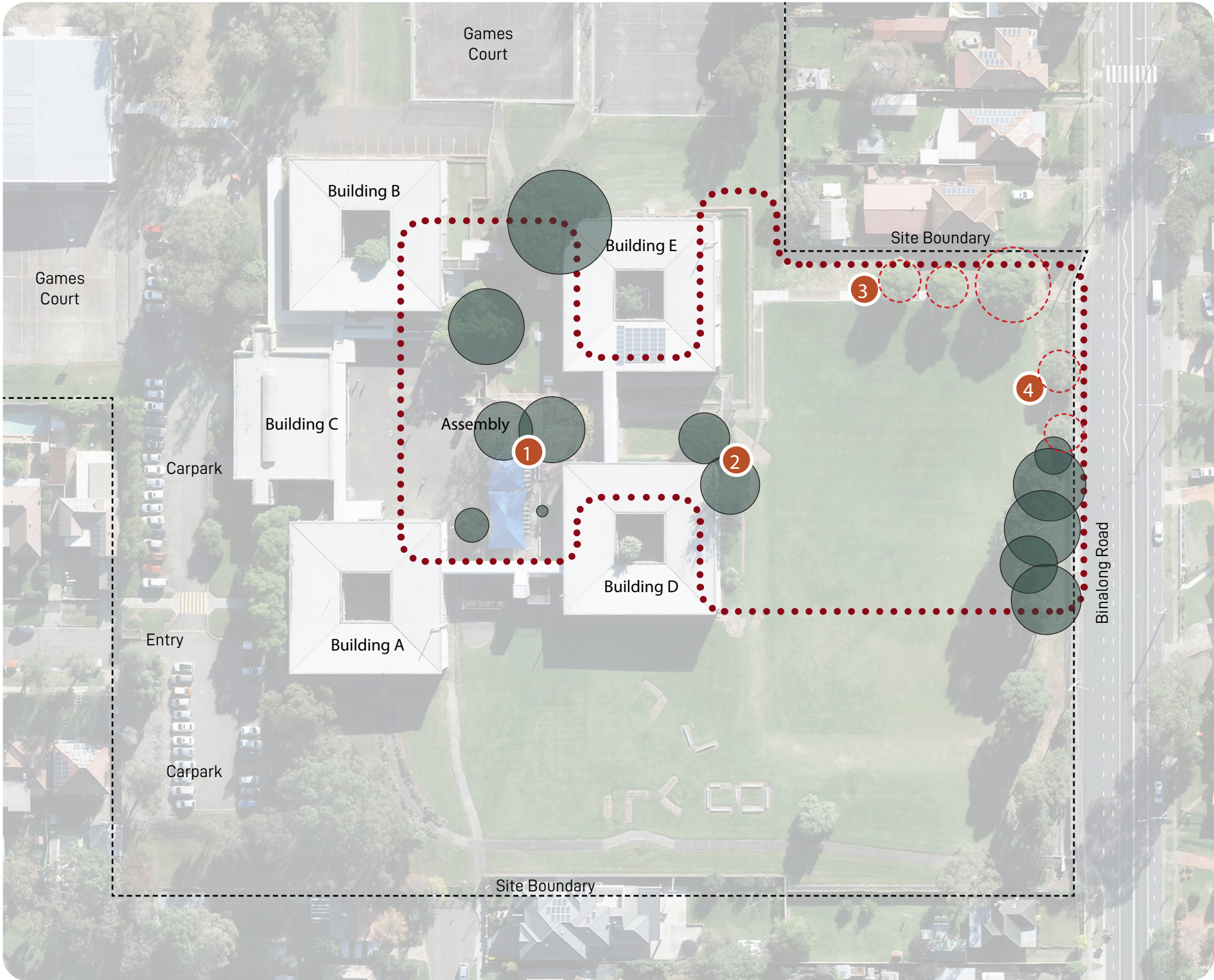
This project will increase the capacity of the school 1320 students and will involve the construction of the following:

- Construction of a new three-storey courtyard building on Binalong Road comprising two (2) three-storey wings under a connected roof which will accommodate a library, staff unit, lecture theatre, multimedia and senior learning spaces, administration unit and student amenities;
- External transport infrastructure upgrade works;
- New covered walkways and upgraded landscaping; and
- New hard stand areas for bicycle parking.



Existing Trees

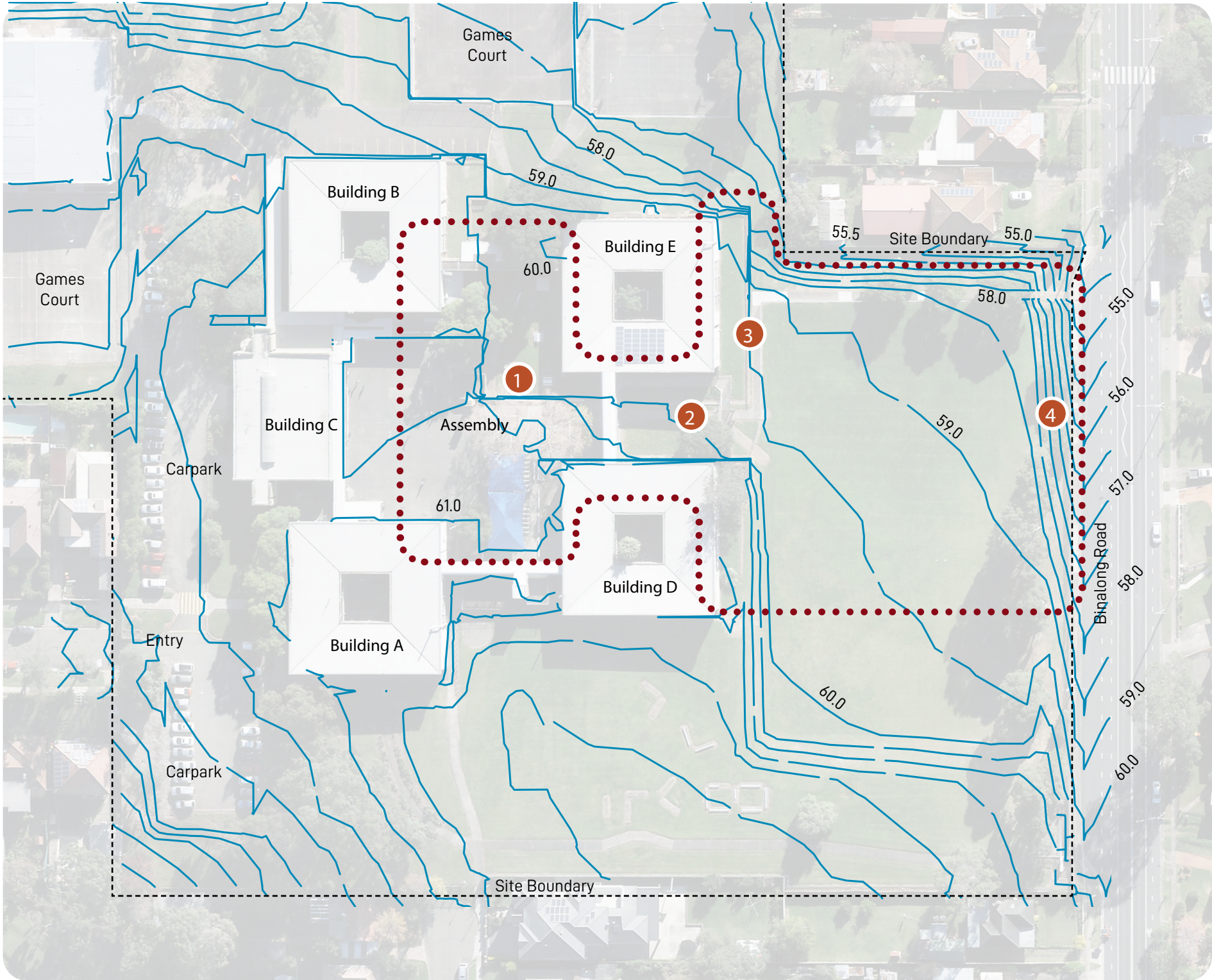
Pendle Hill High School has a variety of existing trees across the site providing mature canopy and shade amenity to various areas of the campus. These trees range from endemic to the Cumberland Plain Woodland to a variety of exotic trees that provide some seasonal colour and solar access in the winter months. In accordance with the Arborist report prepared by McArdle Arboricultural Consultancy dated 28/04/2020, 5 trees are being proposed to be removed due to the proposed works. The landscape proposal for Pendle Hill High School is considerate of the tree planting being removed through the proposal of species endemic to the Cumberland Plain Woodland providing canopy height to the areas of removed trees. The proposed trees are also in keeping with the overall canopy cover of the School through the introduction of wide spread canopy tree species that provide the necessary additional shade cover and amenity to the school campus.



..... Scope of Works

Existing Levels

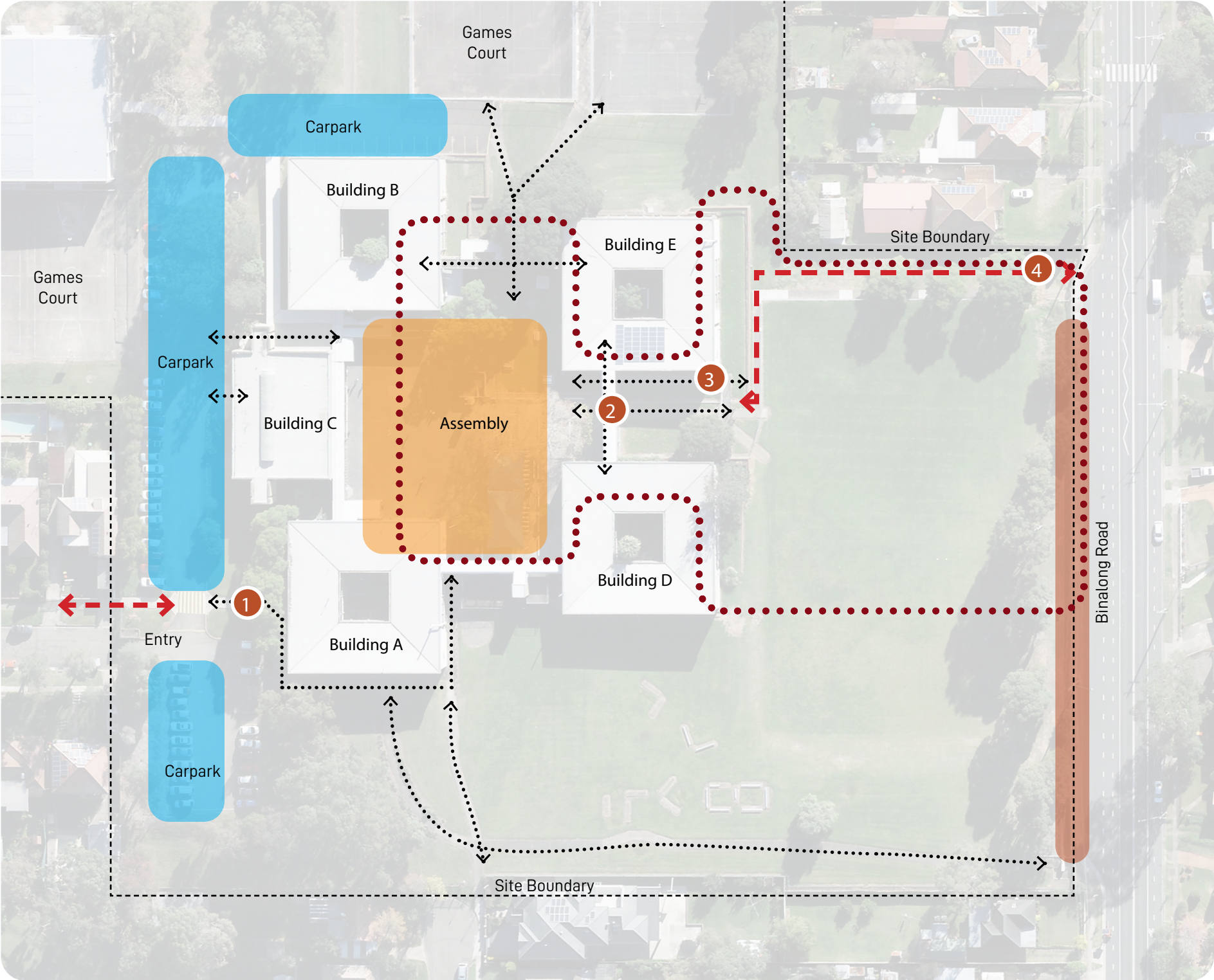
The proposed works for Pendle Hill High School are largely in keeping with the existing levels across the site. With the levels sloping across the site diagonally the proposal requires incorporation of steps and ramps in order to traverse the level change. The main impact to levels is pertinent to the proposed works along Binalong Road due to the existing level change from the road to the open turf area. This area is required to be accessible to all as it is a main entry to the College and will require DDA accessibility



..... Scope of Works

Existing Circulation

The existing circulation of Pendle Hill High School focuses around the central spine of the Assembly area. This area acts as a natural central area of the school to which the buildings and pathways begin to flow and situate themselves off. The current main entry of the school is off Cornock Street, a residentially dominated strip creating an unorthodox entry to the school at the end of the road. The entry is also dominated by existing carpark to the north and south of the entry which creates an extended area of hard paving into the campus. In regards to pick up zones the school currently utilises both Cornock Street and Binalong road. Binalong Road located on the far eastern side of the site is utilised for buses and other kiss and drop areas, whilst Cornock street mainly focuses on kiss n drop and main visitors into the campus.



..... Scope of Works

← - - - ->

Primary Entry Path

Open Space

School Bus Stop

Carpark

← - - - ->

Internal Circulation

Existing Open Area

The existing open play areas of the school are largely dominated by open turf areas. These areas provide opportunities for open recreation and sporting opportunities. The campus also provides open areas of hard stand that is utilised for handball and other activities during break out times. During school times the area is used mainly for circulation, gathering and assembly. The introduction of the proposed works will eliminate a portion of open turf area along Binalong road which is currently utilised by some students during break out times. However the removal of this open area will allow the introduction of new social gathering spaces incorporated within the new development. The existing playing fields to the north of the site are to be maintained during the proposed works providing necessary recreational and play opportunities to the students.



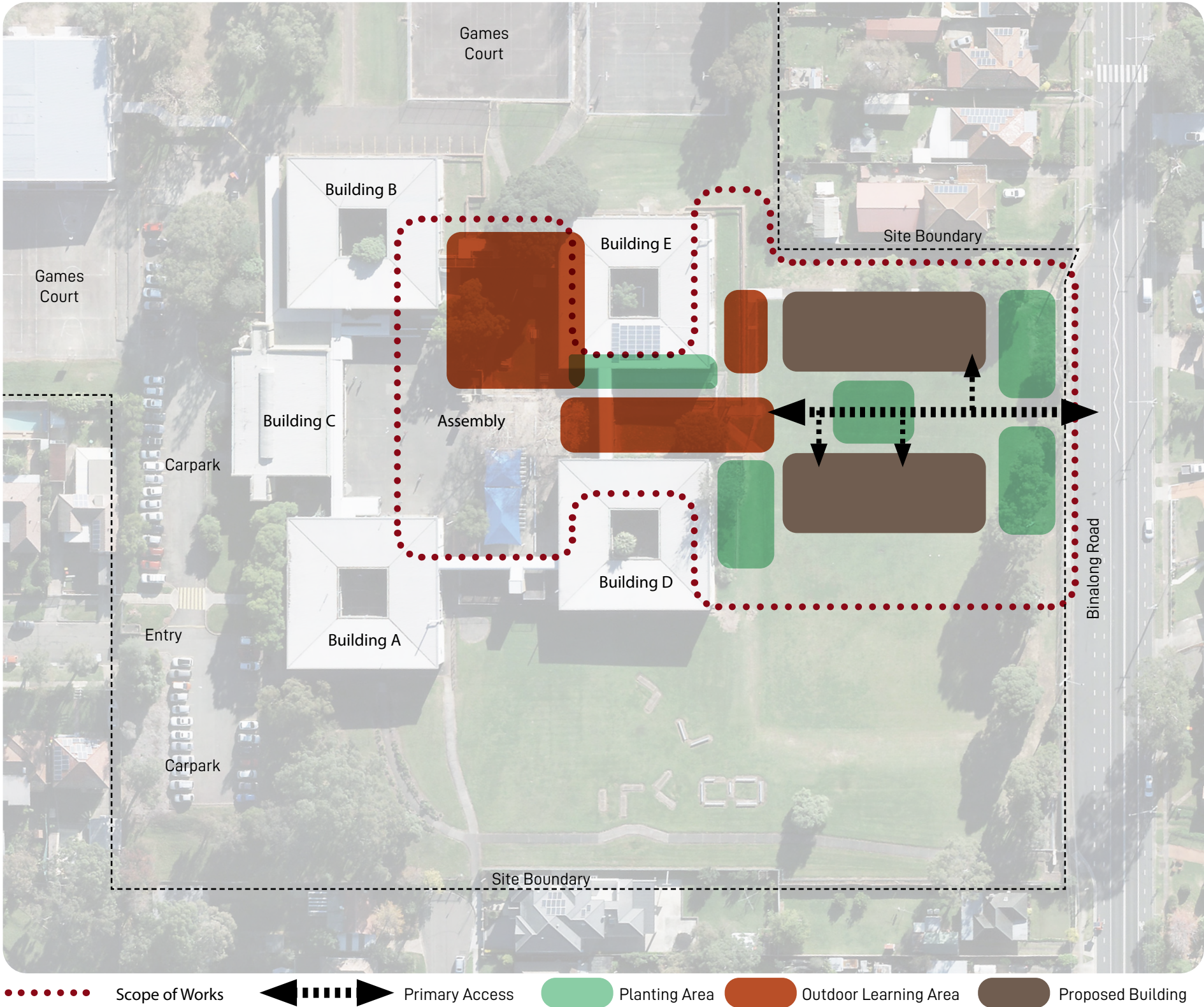
Design Opportunities

The proposed development for Pendle Hill High School provides multiple opportunities for landscape design that relates to curriculum, campus life and program. The main opportunities provided by the proposal are in relation to the new proposed entry along Binalong Road, the spaces within and adjacent to the new buildings and the connection between the new development and existing buildings across the site.

The development along Binalong road provides opportunities for planting to act as an accentuation of the entry. This area is conducive to planting that allows for a strong street presence and character whilst also maintaining necessary sight lines and visual markers for the campus. Due to the existing levels, equal opportunity and accessibility for both visitors and students is a driving force for this area as well as the greater campus design.

The spaces around the new development provide opportunities for planting that allows for screening to neighbouring properties. Planting around this area also provide necessary shade amenity with the use native canopy species, whilst also providing an opportunity for the incorporation of exotic species that provide seasonal colour and solar access during the winter months. The new development provides opportunities for communal gathering and outdoor learning spaces that connect to the indoor learning spaces. The central atrium space created by the proposed building allows for natural gathering areas that can be utilised by both students, parents and visitors as they enter the campus.

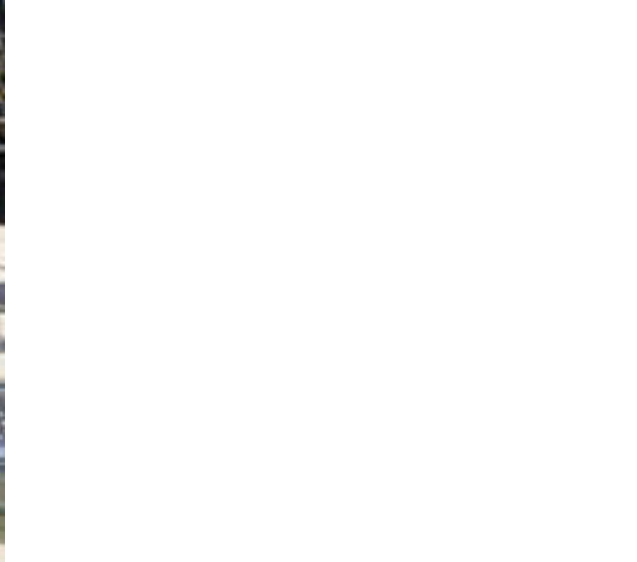
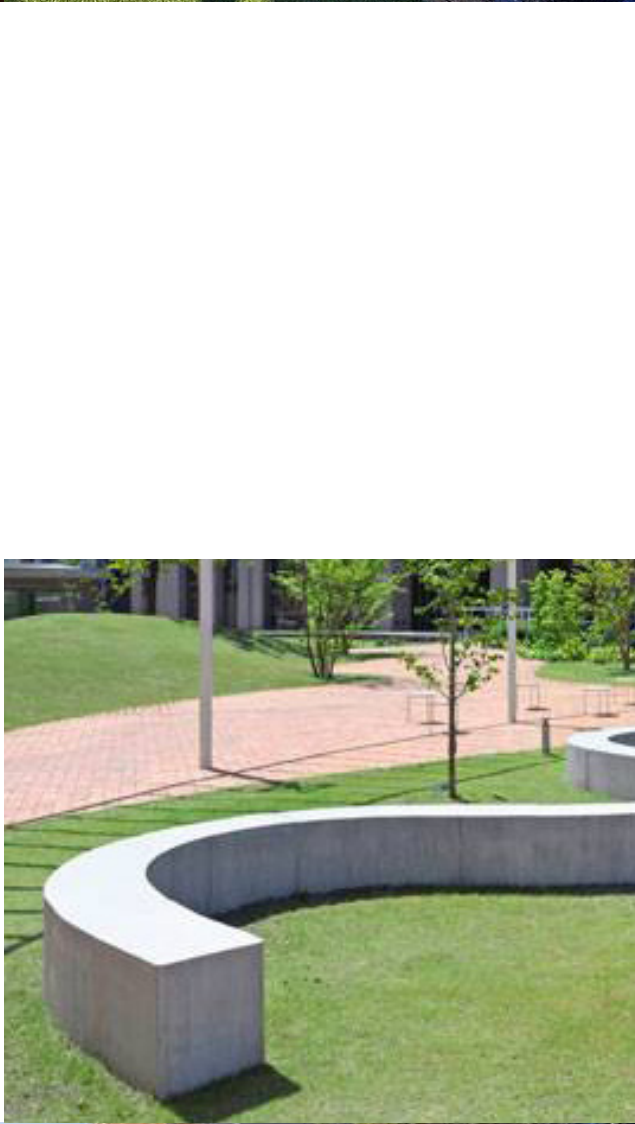
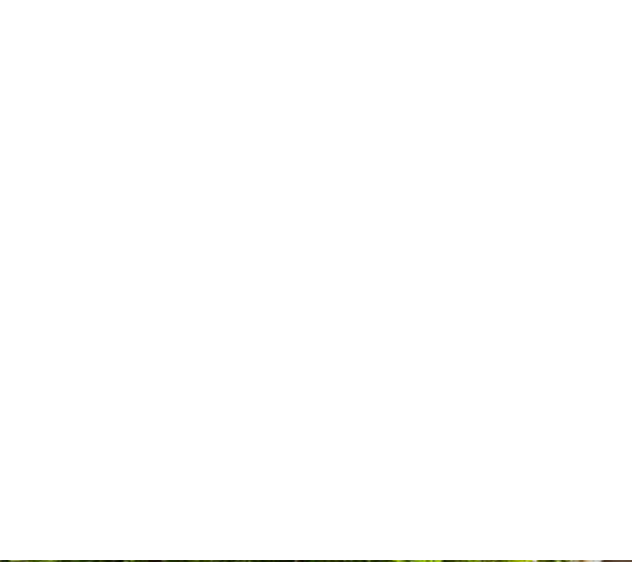
The central axis connection between the proposed building and existing buildings allows opportunities for both planting and communal spaces to interconnect. These spaces allow students to circulate from either side of the campus whilst also providing spaces for outdoor collaboration, social gatherings and intimate study spaces.



The background consists of several overlapping rectangular blocks of color. At the top left is a dark grey block. To its right is a light beige block, and further right is a light tan block. Below the dark grey block is a light beige block. The central area is a large white rectangle. To the right of the white rectangle is a light blue block. Below the white rectangle is a light beige block, followed by a bright yellow block, and then a light blue block. At the bottom left is a dark red block, and at the bottom right is a dark grey block.

3

Design Approach



Design Approach

The Design Approach for Pendle Hill High School aims to provide a stronger street presence for the school with the surrounding streetscapes. The design also aims to strengthen the connectivity of the outdoor walkways and open areas with the main entry. The current entry of the site at Cornock street is located at the rear of the site at the end of a residential street creating a disjointed street presence for the School. Students and staff are currently required to access the site of the school via this street and carpark creating an increased hardscape experience into the Admin building.

The Proposed building located on Binalong Road aims to provide for a stronger school identity and street presence. The proposal allows for one main open entry that is accentuated through formalised access and planting, creating a statement to the surrounding suburb. The proposed entry also allows for a more efficient approach to student pick up and drop off allowing students to access these locations via the entry rather than a back of house access.

The Design Approach for Pendle Hill High School also aimed to strengthen the school's interaction with the environment through outdoor learning and embellishment. The current school site consists of large areas of hard paving and open turf areas for mixed use spread across the campus. The current site has a central assembly area that acts as the main meeting area for the students and staff to congregate. The design approach for the internal courtyards for Pendle Hill aims to ensure that this assembly area is maintained as a key meeting point for staff and students, with the proposed building providing a bookend for the site. The central axis allows these two points to maintain a sense of uniformity and connection providing a clear access route. The area also allows for the introduction of outdoor learning and gathering spaces that can be utilised both during break out times and class time.



EXISTING SCHOOL ENTRY OFF CORNOCK STREET



EXTENSIVE HARD PAVED AREAS LEADING TO ADMIN BUILDING



CENTRAL ASSEMBLY HARD PAVED AREA



OPEN TURF AREAS FOR MIXED USE AND AMENITY



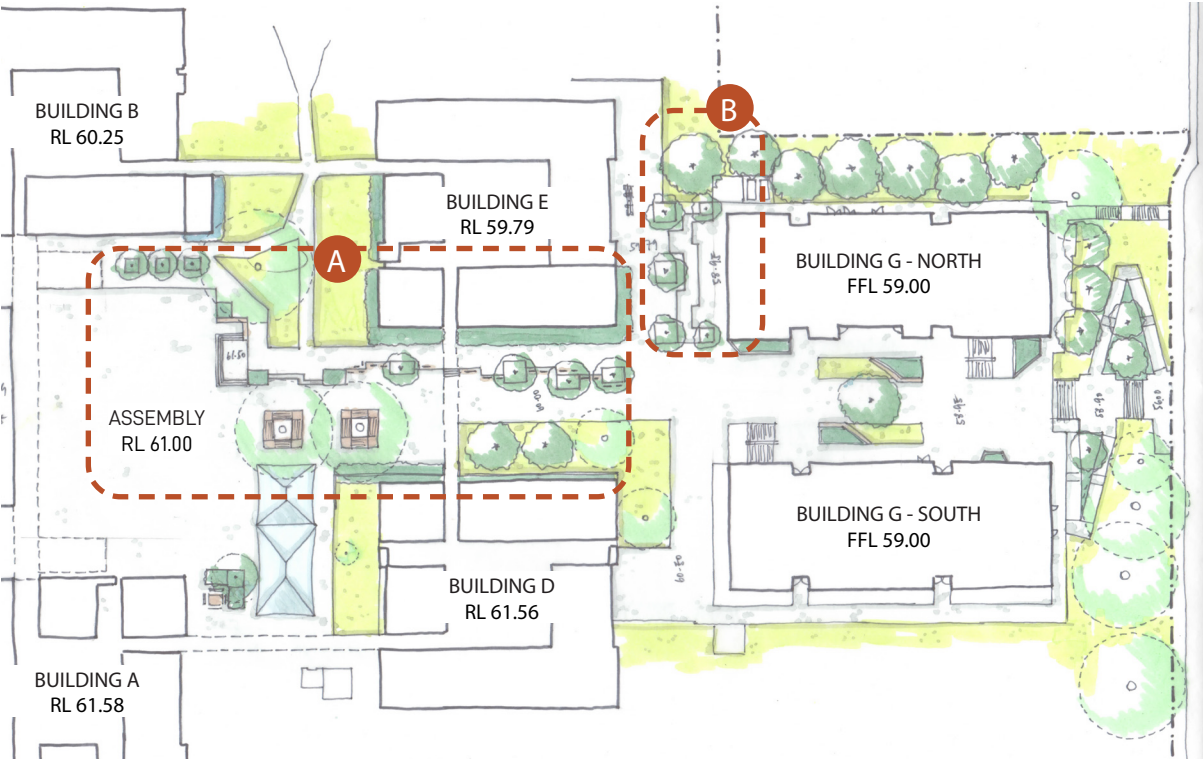
CURRENT CENTRAL AXIS



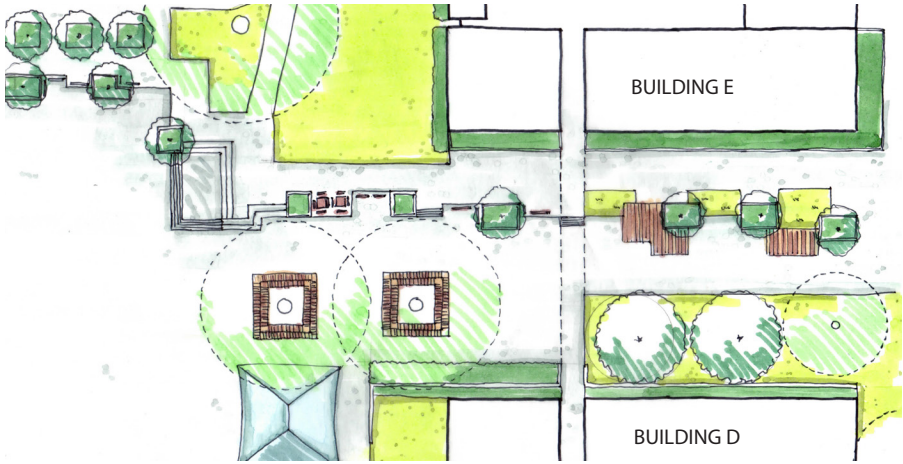
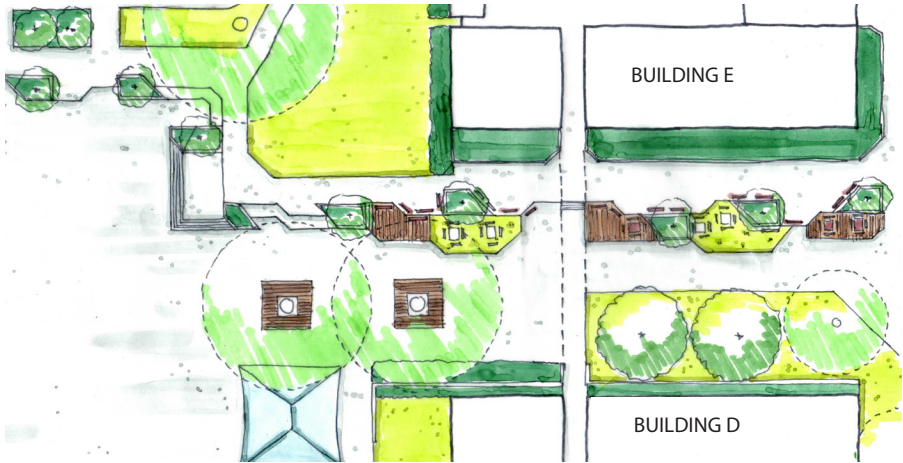
BINALONG ROAD CURRENT SITE CONDITIONS

Conceptual Master Plan & Options

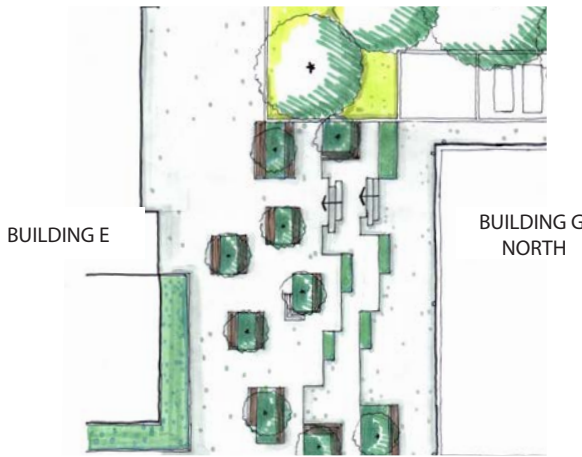
The conceptual approach for Pendle Hill High School aims to acknowledge the existing site levels and provide an opportunity for landscape to bleed between these levels creating various spaces for outdoor learning, collaboration, social gathering and intimate study opportunities. The conceptual approach also aimed to incorporate pockets of greenery through the site in order to break up the hard paving conditions of the existing site. This was explored through the use of tree planting and natural materials such as timber and turf in order to strike a balance of soft and hardscaping areas through the site.



Conceptual Master Plan



A Assembly Design Options



B Library Design Options



TIMBER LEVEL TIERS



TIERED CONCRETE LEVELS WITH
TIMBER SEATS



TIERED CONCRETE SEAT



TIMBER PLATFORM



TIMBER BENCH SEAT



TIMBER PLATFORM

Sustainable Design

The promotion of sustainability and awareness is an important design principle for Pendle Hill High School and all school campuses in this day and age. Sustainability has become an increasing factor of design due to the increasing effects of climate change. Providing opportunities for sustainable design and learning opportunities allows students and staff to develop their own sense of awareness, responsibility and environmental ownership which is highly important for generations moving through. Furthermore, sustainable design promotes student wellbeing by allowing a greater connection with environmental learning outside of the typical classroom confines.

The key methods of sustainability and awareness explored and incorporated in the design framework include:

- Outdoor learning opportunities linked to curriculum that allows students and staff to conduct lessons outside the typical classroom
- Sensory and endemic planting incorporated into the planting palette providing further awareness of the native character of the Toongabbie and Cumberland Plain Woodland regions
- Incorporation of canopy tree species that provide necessary shading and cooling to the open pathways and seating whilst also providing cooling effects to the proposed buildings
- Incorporation of natural turf and timber surfaces to reduce the impact of extensive hard paved areas through the school, reducing effects of heat island during the warmer months of the year
- A rainwater tank is proposed to capture and recycle rainwater from the roof for the use of irrigation of landscape area



OUTDOOR LEARNING PROVIDING ENVIRONMENTAL AWARENESS



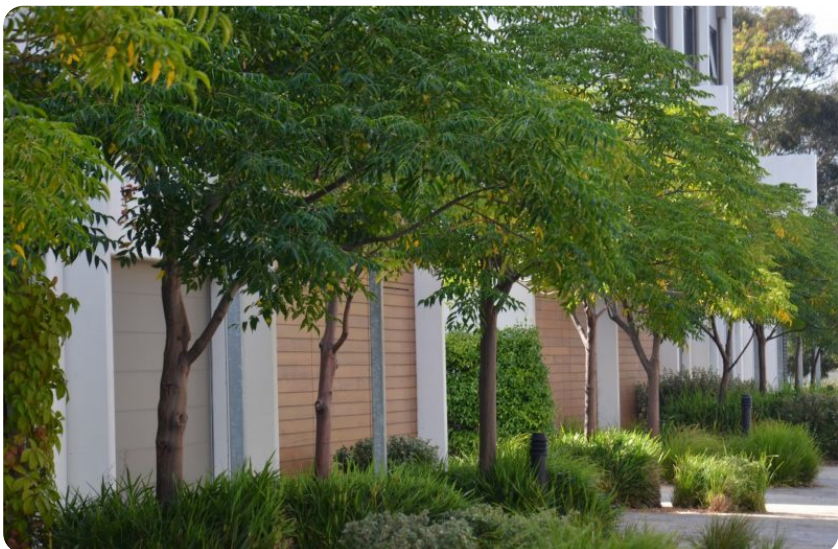
NATIVE SENSORY PLANTING INCORPORATED INTO THE GARDEN BEDS



ENDEMIC PLANTING FROM THE CUMBERLAND PLAIN WOODLAND



INCORPORATION OF CANOPY TREE PLANTING FOR SHADE AMENITY



SCREEN PLANTING TO BUILDING PROVIDING NATURAL COOLING



NATURAL MATERIALS TO REDUCE HEAT ISLAND EFFECT

Indigenous Culture & Representation

The design for Pendle Hill High School acknowledges and pays respects to the traditional custodians of the land to which the school sits, the Tugagal clan of the Durag people. The design for Pendle Hill High School aims to represent and acknowledge the local indigenous culture and provide an opportunity for collaboration and understanding. Important to the understanding of indigenous representation in design is collaboration, with both elders and the college to understand how tradition is/ or can be further incorporated into the curriculum. Opportunities for incorporation include visual representation through murals and other surfaces treatments that allow local artists and students to express cultural story and expression. Furthermore, introduction of endemic planting from Cumberland Plain Woodland allow students to understand the native character of the site to which their school sits, developing further recognition and environmental awareness. In addition to this, planting of bush tucker and medicine species into outdoor learning areas allows further recognition and education of Indigenous culture to be present in the campus and curriculum. Incorporation of outdoor learning areas such as a Yarning Circle allow for an avenue for Indigenous outdoor learning such as the '8 ways Pedagogy' and other cultural theologies.



INDIGENOUS APPLIED FINISH & MURALS



PLANTING ENDEMIC TO CUMBERLAND PLAIN WOODLAND



BUSH MEDICINE & TUCKER PLANTING FOR OUTDOOR LEARNING



YARNING CIRCLE OUTDOOR LEARNING SPACES

The background consists of several large, solid-colored rectangles. At the top left is a dark grey rectangle. To its right is a light beige rectangle, and further right is a light tan rectangle. Below the dark grey rectangle is a light tan rectangle. The central area is a large white rectangle containing the text. To the right of the white rectangle is a light blue rectangle. Below the white rectangle is a light beige rectangle, followed by a bright yellow rectangle, and then a light blue rectangle. At the bottom left is a dark red rectangle, and at the bottom right is a dark grey rectangle.

4

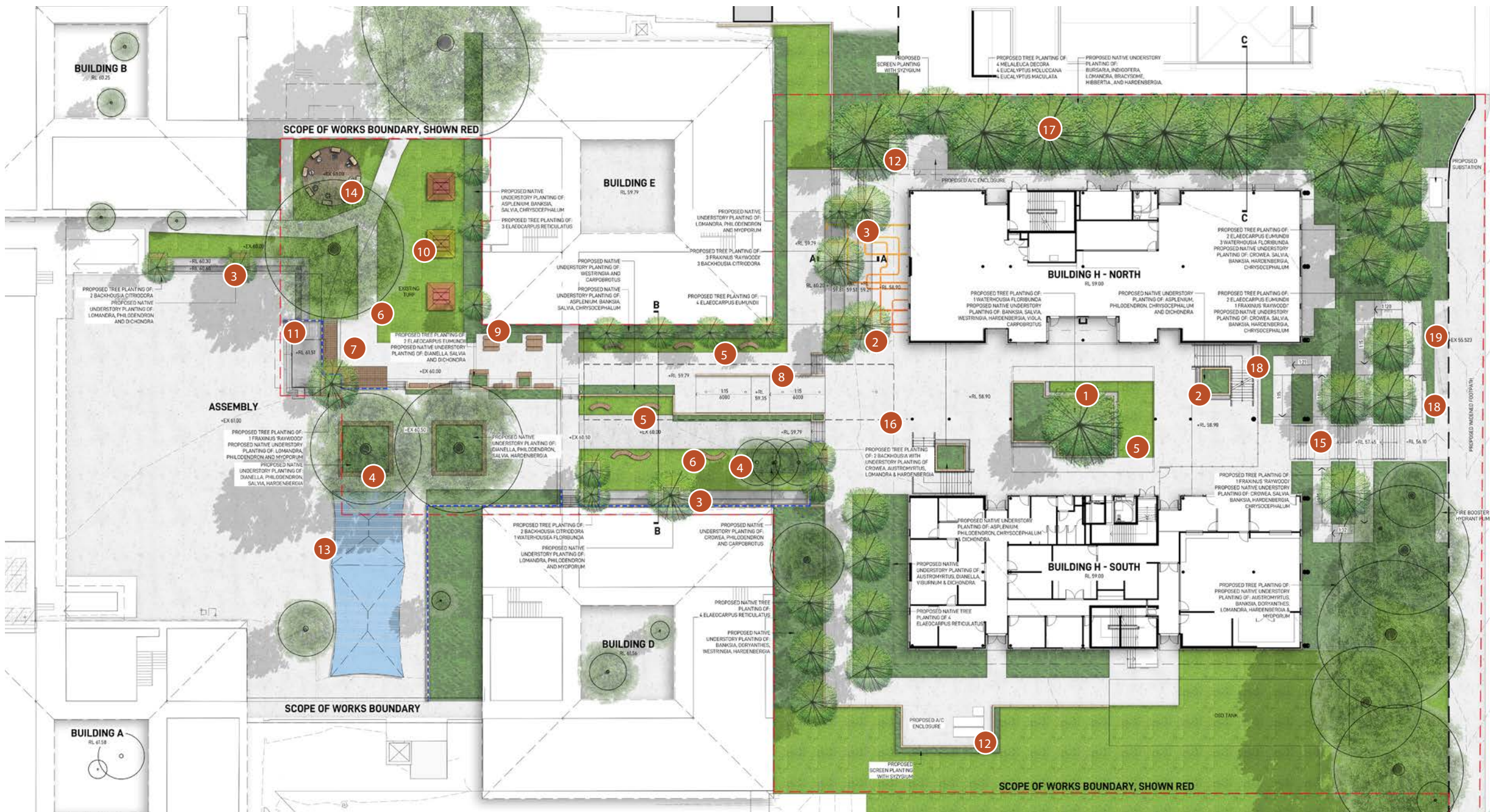
Design Impression &
Landscape Master Plan

Existing Tree Plan



- Legend
- SITE BOUNDARY
 - - - SCOPE OF WORKS BOUNDARY
 - EXISTING TREES TO BE RETAINED
 - EXISTING TREES TO BE REMOVED

Landscape Master Plan



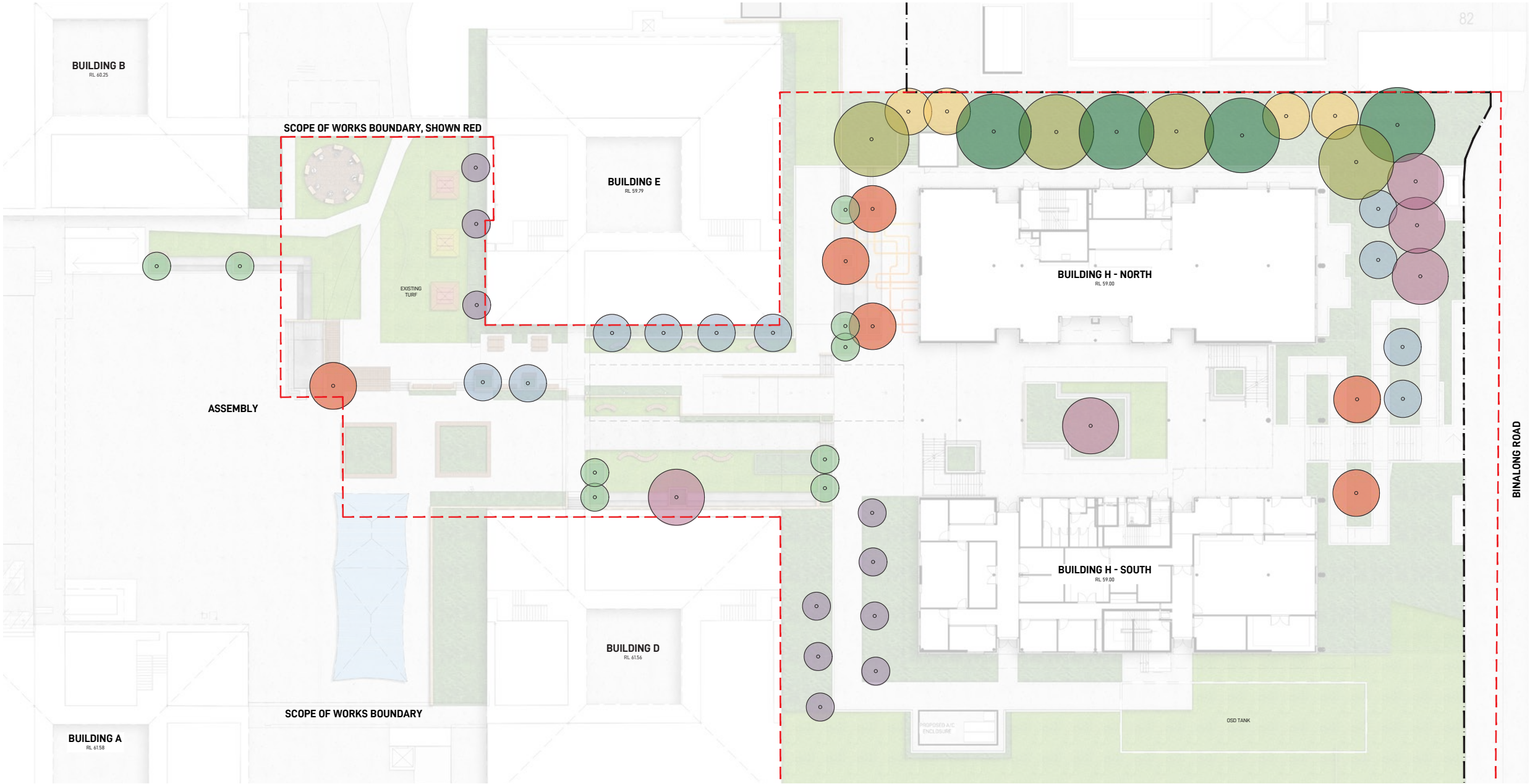
Legend

- SITE BOUNDARY
- SCOPE OF WORKS BOUNDARY
- PROPOSED BALUSTRADE TO MITIGATE LEVEL CHANGE IN ACCORDANCE WITH EFSG REQUIREMENTS
- EXISTING TREES TO BE RETAINED
- PROPOSED TREES
- 1 PROPOSED RAISED PLANTER WITH FEATURE CANOPY TREE
- 2 PROPOSED RAISED PLANTER BOX WITH CONCRETE SEATING
- 3 PROPOSED CONCRETE BLEACHER SEATING WITH APPLIED FINISH

- 4 EXISTING TREE TO BE RETAINED WITH SEATING AROUND
- 5 PROPOSED SYNTHETIC TURF
- 6 PROPOSED NATURAL TURF
- 7 PROPOSED TIMBER DECKING
- 8 PROPOSED FEATURE RAMP PROVIDING ACCESS TO CENTRAL COURTYARD
- 9 PROPOSED TABLE SETTING
- 10 PROPOSED OUTDOOR UMBRELLAS
- 11 PROPOSED CONCRETE STAGE
- 12 PROPOSED RELOCATION OF A/C UNITS WITH SCREEN PLANTING
- 13 EXISTING SHADE SAIL TO BE RETAINED

- 14 PROPOSED YARNING CIRCLE FOR INDIGENOUS AND OUTDOOR LEARNING
- 15 PROPOSED MAIN ENTRY STAIRS WITH FEATURE PLANTING
- 16 PROPOSED FEATURE PERGOLA PROVIDING CANOPY COVER FROM BUILDING H TO BUILDING E, SHOWN DASHED
- 17 PROPOSED 9-12M NATIVE CANOPY TREES TO PROVIDE VISUAL SCREENING OF NEIGHBOURING PROPERTIES
- 18 PROPOSED SLIDING GATE TO ARCHITECT'S DETAILS
- 19 PROPOSED ENTRY SIGNAGE ON WALL TO ACCENTUATE NEW ENTRY STAIRS AND RAMP

Proposed Tree Plan



Legend

- SITE BOUNDARY
- SCOPE OF WORKS BOUNDARY
- FRAXINUS 'RAYWOODI' (CLARET ASH)
- ELAEOCARPUS RETICULATUS (BLUEBERRY ASH)
- BACKHOUSIA CITRIODORA (LEMON MYRTLE)
- EUCALYPTUS MACULATA (SPOTTED GUM)
- EUCALYPTUS MOLUCCANA (GREY BOX)
- MELALEUCA DECORA (WHITE FEATHER HONEY MYRTLE)
- ELAEOCARPUS EUMUNDII (QUANDONG)
- WATERHOUSEA FLORIBUNDA (WEEPING LILLY PILLY)

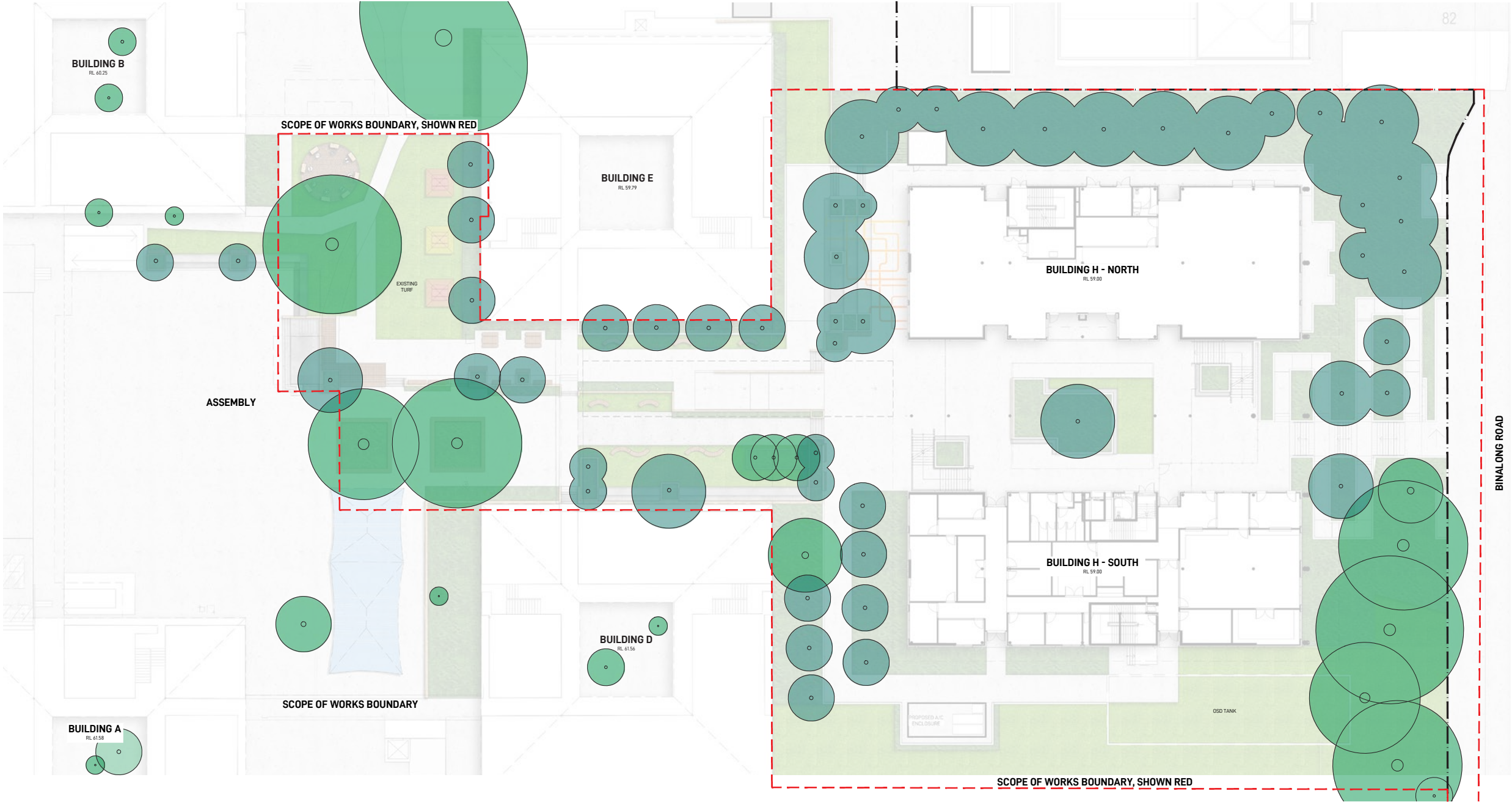
SCOPE OF WORKS TOTAL SITE AREA: 7,451m²

SCOPE OF WORKS PROPOSED TREE CANOPY COVERAGE: 912.9m² (12.3%)

The tree planting strategy for Pendle Hill High School aims to provide a mix of native and Cumberland Plain Woodland species that allow for a strong ecological link to environment, culture and history. Species, such as Eucalyptus and Melaleuca, endemic to the Cumberland Plain have been incorporated to provide necessary screening and scale to the boundaries of the site to tie into the local character of the school and surrounding community. Due to the impacts of limb drops and other safety reasons, the use of large scale Eucalyptus have been proven difficult to incorporate into the school environment. Therefore, alternative native species that are more conducive to campus environments

have been selected to maintain a strong native ecological link while also providing necessary canopy cover to the site. Species such as Waterhousea, Elaeocarpus and Backhousia have been utilised to create a strong native palette to the open areas and to ensure sight lines and other safety concerns are met. The tree palette also includes one exotic tree species to provide seasonal colour to the palette but also to provide key solar access during the winter months.

Canopy Coverage Plan



Legend

- SITE BOUNDARY
- - - SCOPE OF WORKS BOUNDARY
- EXISTING TREES TO BE RETAINED
- PROPOSED TREES

STAGE 1 CANOPY PERCENTAGES

	TREES	TREE CANOPY
CURRENT	17	1437m2 (14.4%)
RETAIN	12	940m2 (12.6%)
REMOVE	5	497m2 (4.99%)
ADDITIONAL	54	1319m2 (13.2%)
TOTAL	66	1862m2 (24.9%)
DIFFERENCE	+49	921.9m2 (12.3%)

The proposed canopy coverage of Pendle Hill High School aims to strengthen the existing tree species within the school. The school currently houses a mix of native and exotic tree species that are relatively established across the site. The proposed scope of works include the retention of these established tree specimens as well as the proposal of a mix of native and exotic trees that aim to promote additional canopy coverage. The current existing tree canopy coverage sits at 12.6% in accordance with the scope of works boundary due to the vast open turf area utilised by the school. The proposed works surrounding Building H promote the use large scale canopy trees that allow for necessary

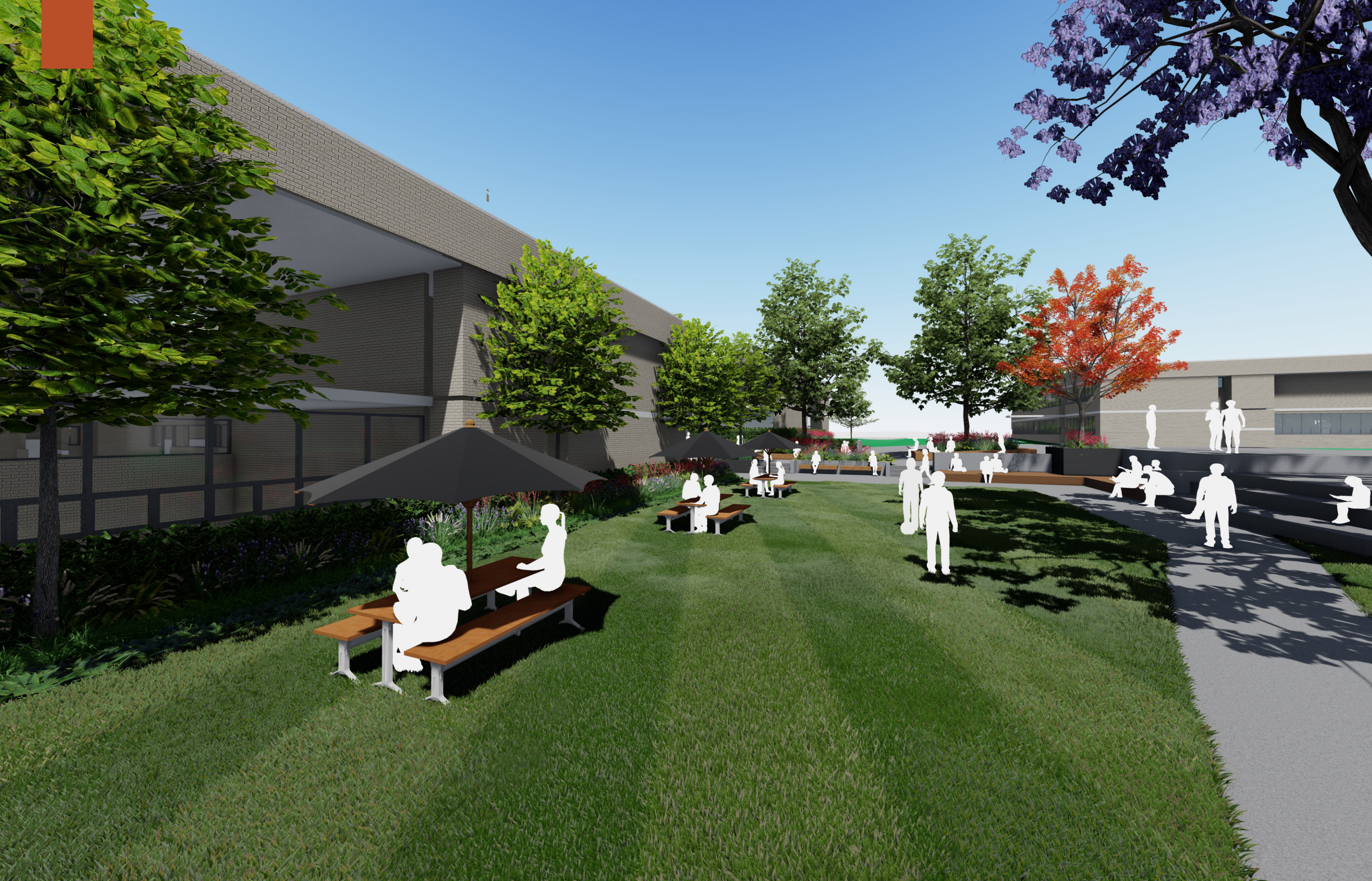
solar protection and shade amenity to the building. The proposed canopy coverage sits at 12.3% to show a similar level of cover to the existing conditions of the site. Furthermore, trees have also been proposed to the site to further add additional canopy coverage to the overall site.











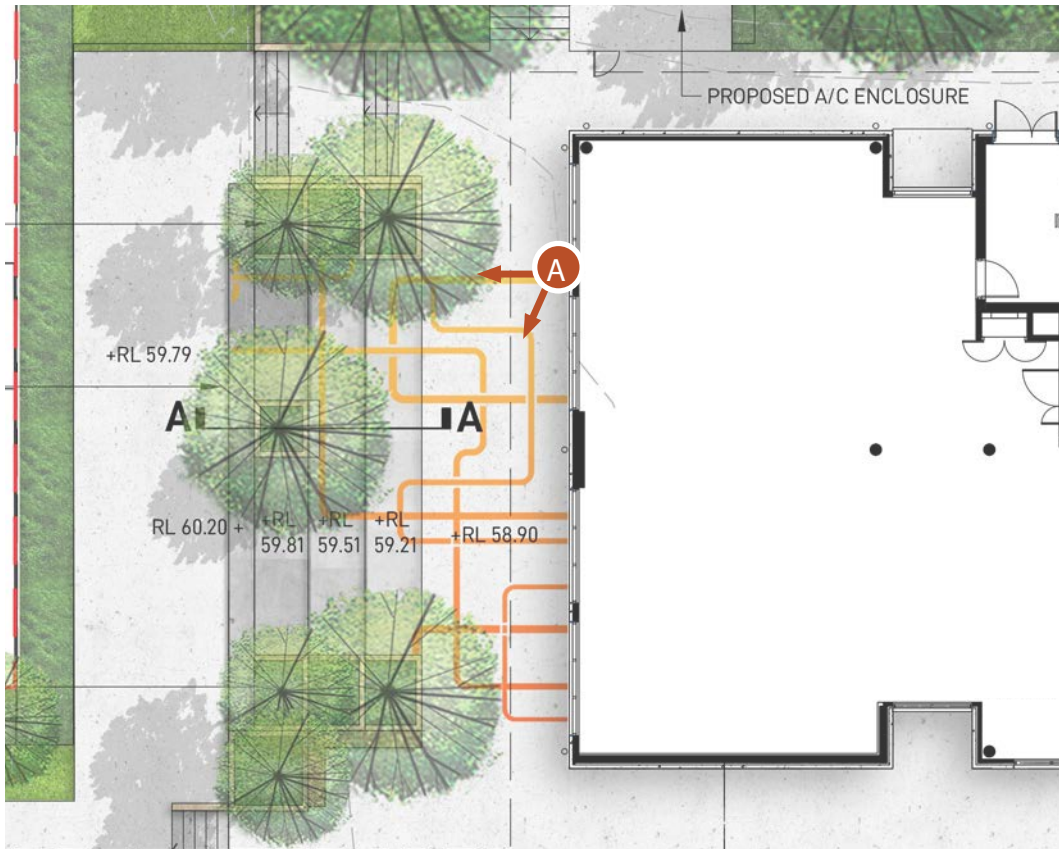
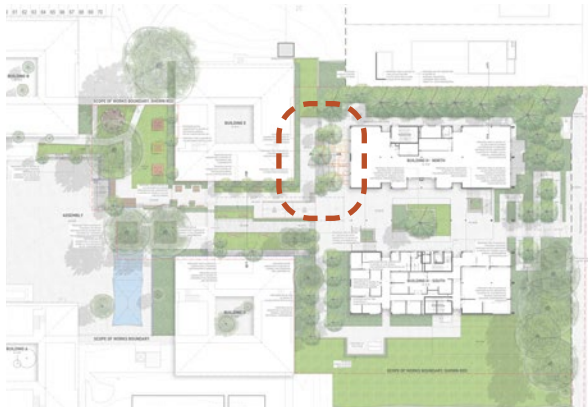
The background consists of several overlapping rectangular blocks of color. At the top left is a dark grey block. To its right is a light beige block, and further right is a light tan block. Below the dark grey block is a light tan block. The central area is a large white rectangle containing the text. To the right of the white rectangle is a light blue block. Below the white rectangle is a light beige block, followed by a bright yellow block. At the bottom left is a dark red block, and at the bottom right is a dark grey block.

5

Landscape Details &
Planting Palette

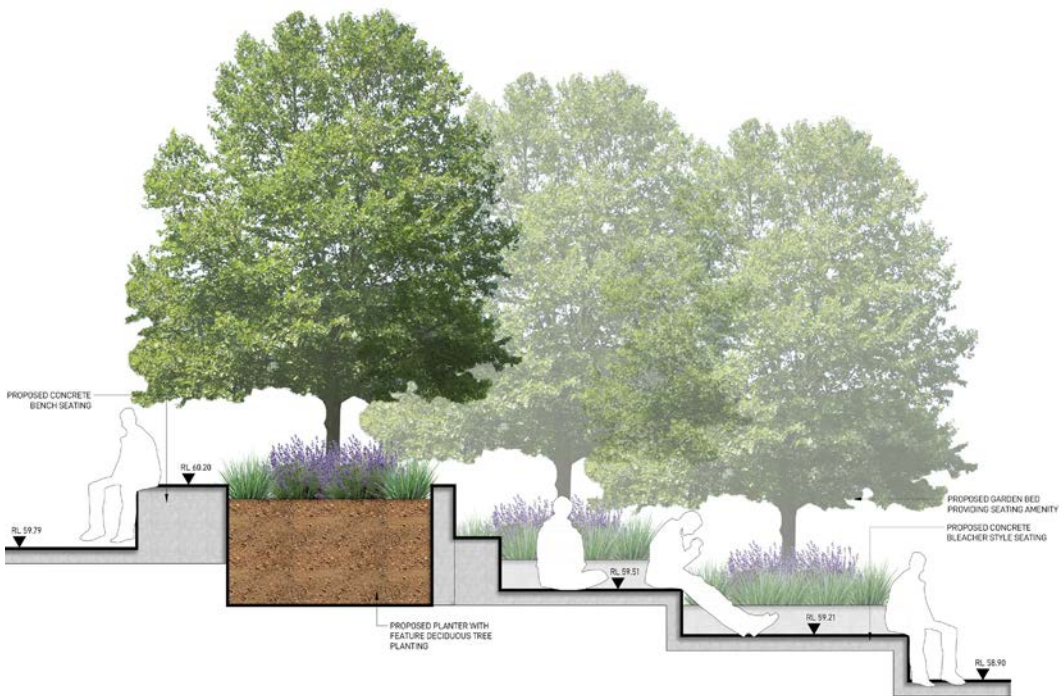
Outdoor Terrace Seating

Key Plan



Detail Plan 1:200

The Outdoor Terrace Seating space creates an open outdoor learning area connected to the proposed Knowledge Centre. Due to the existing level change of the current site the area lends itself to an amphitheatre style bleacher seating space allowing for a classroom space to gather. The space is also activated through applied surface treatment allowing the opportunity for Indigenous engagement and collaboration, which can represent various cultural theologies that can become a canvas for learning. The planting selections within this space look to incorporate both Backhousia and Fraxinus tree species providing a mix of native and exotic specimens that allow for both canopy coverage and solar access during the winter months.

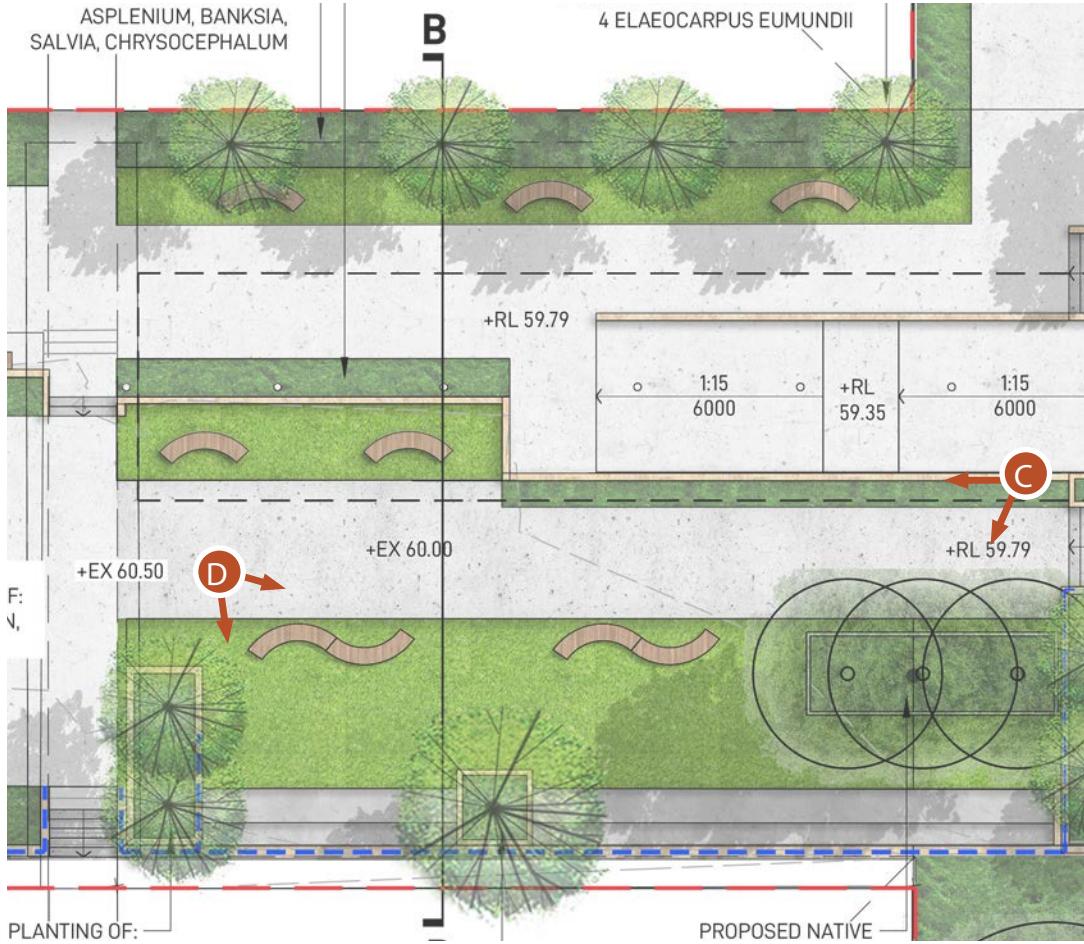


Section A-A 1:50



Rendering A

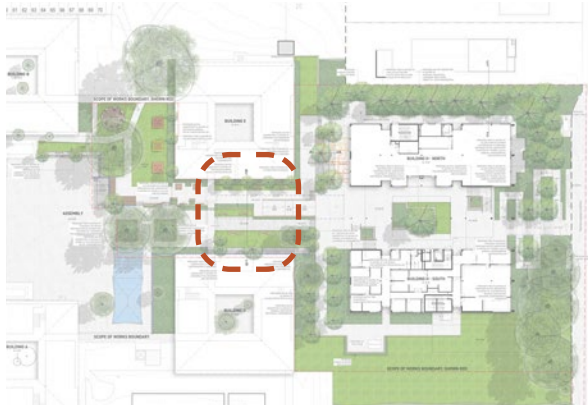
Passive Courtyard



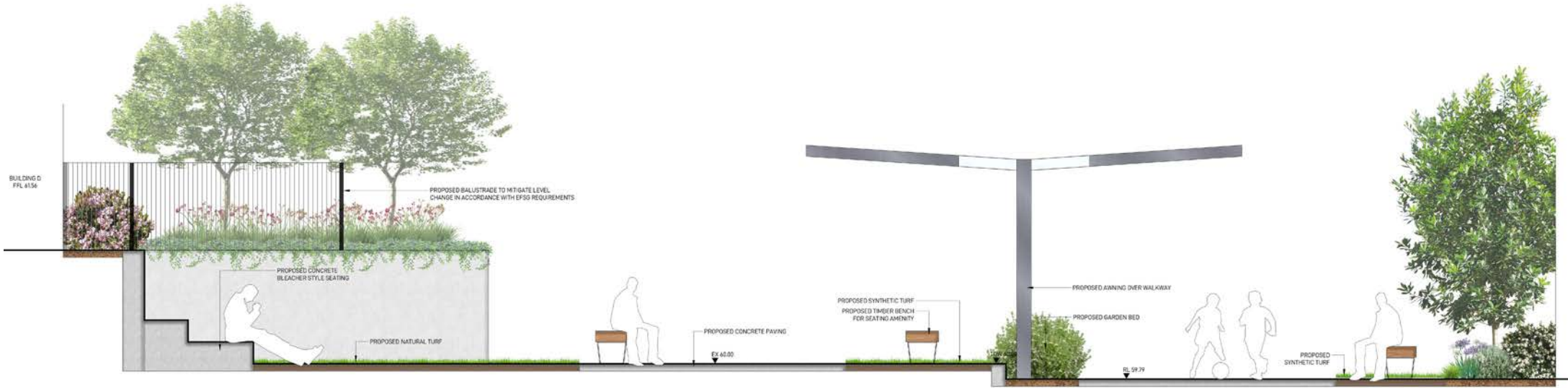
Detail Plan1:200

The passive courtyard spaces aim to activate the connective route between the existing assembly area and the proposed Building of Block H. The existing site currently expresses a disjointed level change to an open grass area, creating no destination. A key design approach for the Passive Courtyard spaces included utilising this level change in order to create a cohesive walkway space that is activated by a variety of passive learning and intimate study spaces. The space is also considerate of DDA requirements through a 4m wide central access ramp that acts as the main walkway through the courtyard. The courtyard also looks to retain some established Callistemon species, whilst also providing new native tree planting of Waterhousia and Elaeocarpus to provide necessary canopy coverage and shade amenity to the various open spaces. The Passive Courtyard aims to utilise various bleacher style and bench seating to provide an outdoor learning area for more intimate groups as well a place of gathering during break out times.

Key Plan



Rendering C

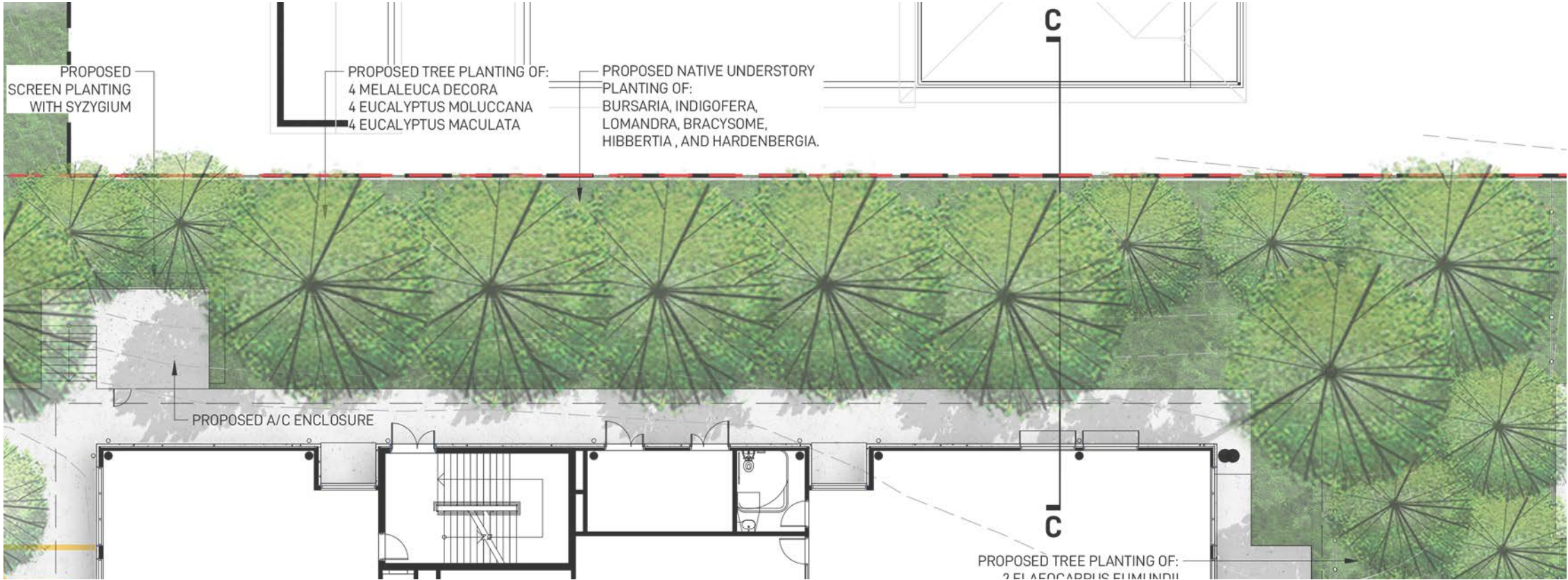


Section B-B 1:50



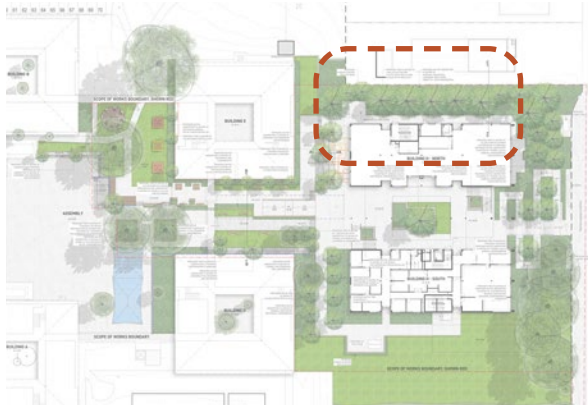
Rendering D

Site Boundary Planting

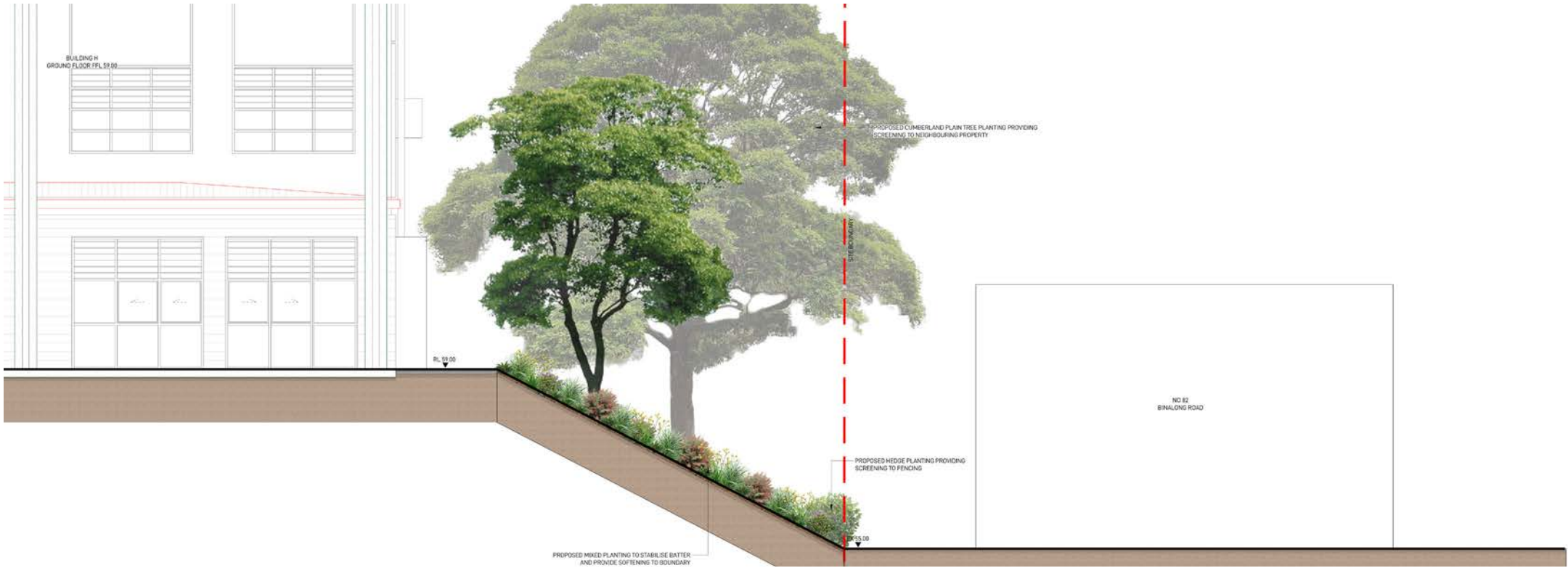


Detail Plan 1:200

Key Plan



The Site Boundary planting to the north of the site aims to provide necessary screening to the proposed building and increased privacy to the northern neighbours in coming years. The planting selected for this area is endemic to the Cumberland Plain Woodland providing necessary ecological links. Tree species such as Eucalyptus maculata, molucana and Melaleuca decora have been selected to soften the scale of the proposed building. Furthermore low mixed understorey planting native to the Cumberland Plain have also been utilised on the embankment in order to promote a strong ecological community through this northern corridor.



Section C-C 1:50

Planting Palette

The planting palette for Pendle Hill High School has been selected to complement the surrounding environment and reflect the necessary requirements for the school campus. The species selected include species endemic to the Cumberland Plain Woodland in order to further strengthen the ecological ties with the existing natural environment. Furthermore other native and exotic species have been incorporated into the palette to provide seasonal colour and solar access during the winter months. The tree species selection have also been mindful of concerns in relation to limb drop in

schools and therefore the location of these species are to be away from main circulation pathways and seating areas in order to minimise these impacts. The plant palette also incorporates species for Indigenous cultural learning through bush tucker and medicine plants conducive to the area in order to provide awareness and curriculum involvement. These plants include but are not limited to *Austromyrtus dulcis* (Midgen Berry), *Dianella longifolia* (Pale Flax Lily), *Indigofera australis* (Australian Indigo), and *Syzygium 'Australe'* (Lilly Pilly).

Trees



BACKHOUSIA CITRIODORA



ELAEOCARPUS EUMUNDII



ELAEOCARPUS RETICULATUS



EUCALYPTUS MACULATA



EUCALYPTUS MOLUCCANA



MELALEUCA DECORA



PYRUS 'CAPITAL'



WATERHOUSEA FLORIBUNDA

Shrubs



ADENANTHOS 'SILVER LINING'



ASPENIUM NIDUS



AUSTROMYRTUS DULCIS



BANKSIA SPINULOSA



BURSARIA SPINOSA



CROWEA EXALATA



DIANELLA LONGIFOLIA



DORYANTHES EXCELSA



INDIGOFERA AUSTRALIS



LOMANDRA FILIFORMIS



LOMANDRA 'LIME TUFF'



PHILODENDRON 'LITTLE PHIL'



SALVIA 'SANTA BARBARA'



SYZYGIIUM 'AUSTRALE'



VIBURNUM 'DENSE FENCE'



WESTRINGIA 'GREY BOX'

Groundcovers



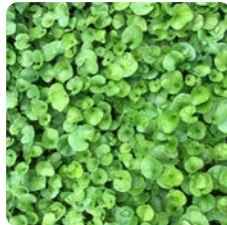
BRACYSCOME MULTIFIDA



CARPOBROTUS GLAUDESCENS



CHRYSOCEPHALUM APICULATUM



DICHONDRA REPENS



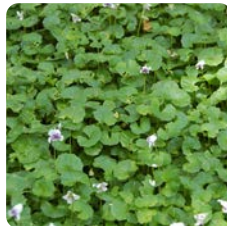
HIBBERTIA SCANDENS



HARDENBERGIA VIOLACEA



MYOPORUM PARVIFOLIUM



VIOLA HEDERACEA