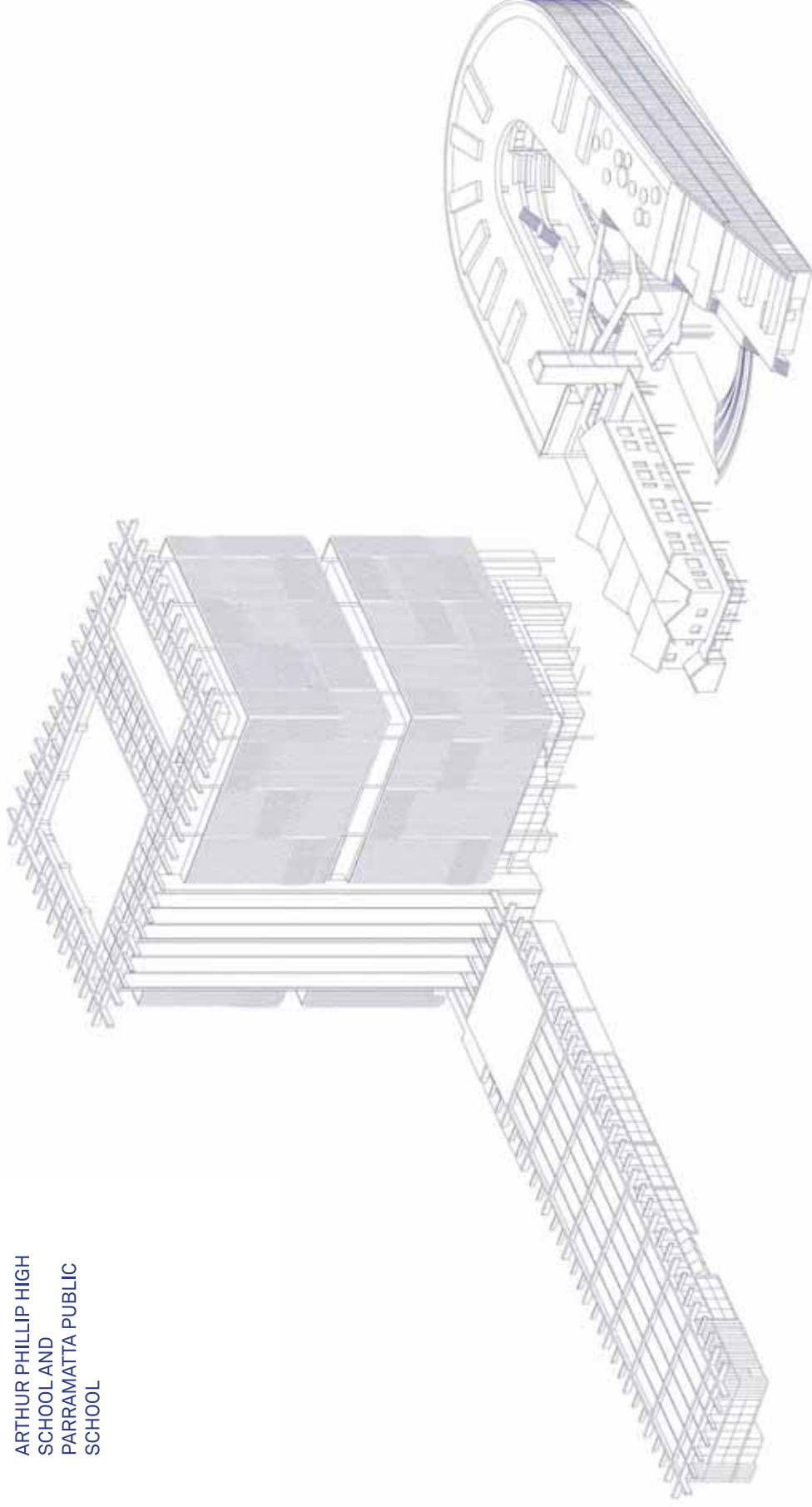


APHS & PPS

ARTHUR PHILLIP HIGH
SCHOOL AND
PARRAMATTA PUBLIC
SCHOOL



SSD Submission Design Intent Report_Rev 01
April 2016

GRIMSHAW | BVN

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Exterior materiality

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Executive Summary

Purpose of this Document

The Design Intent Report has been prepared by Grimshaw and BVN's architectural team.

This report documents the proposal for the redevelopment of Arthur Phillip High School (APHS) and Parramatta Public School (PPS) for the state significant development (SSD) planning application.

This design report reflects the work undertaken within a multidisciplinary design team including the following disciplines:

- Architecture
- Education consultants
- Structure
- Building services
- Façades
- ESD
- Fire engineering
- Civil engineering
- Traffic engineering
- Heritage, Archaeology and Aboriginal heritage consultants
- Landscape design
- Geotechnical
- Wind and reflectivity studies
- Waste management

Project Background

The Parramatta Learning Precinct defines a new vision for learning centred on the learner. The development of two new schools, accommodating up to 3000 learners, provides an unparalleled opportunity to redefine the learning experience for the highly diverse demographic in the Parramatta catchment. The overall form of the buildings within the precinct is defined by future learners and educators in creating a life-long learning opportunities for the whole community.

“Welcome to the school that Sydney needs now, and in the future.”

A school built with a focus on inspired learning through great teaching. A school that wraps itself around the learner and supports them through their journey to mastery of knowledge and skills. A school that actively engages the community in a meaningful way through its facilities and its curriculum. A school which is built on principles of flexibility, engagement, and real-world experiential learning. A school that partners with other local, regional and global institutions such as universities and museums to bring astonishing learning opportunities to all learners.

In short, a school that provides global opportunities in a local context.

The design of this place of learning aligns with the aspirations of the Parramatta area in order to be future focused and provide a bedrock for innovation and growth in coming years. The respect for the land, for the community and for learners of all ages is evident through elegant and inspiring facilities and experiences.





View of Entry Space - APHS

The Parramatta Learning Precinct

From the outset of the Parramatta Schools' project, the team reviewed a wide range of literature and documented practice, they conducted a number of informal interviews with leading thinkers, educationalists, teachers and designers engaged in making learning better through the design of space for future focused learning, together with congruent pedagogies and organisational practices. That investigation resulted in a set of proven educational principles and design principles, which have been used as the foundation of our approach to this project.

Australian schools are on the cusp of system wide transformation, in terms of how learning and teaching is organised but also in relation to a congruency with the spaces where learning takes place. At the end of the last century many schools still reflected a 'one size fits all' approach to education in very literal way; schools as a physical manifestation of a mass production model of education. The current century however has seen a revolution in educational theory, science and practice.

Contemporary literature on learning environments has brought to light the importance of the connection between teaching and learning styles and spatial organisation. An understanding of spatial theories and how they support educational philosophies should lead to the creation of enhanced future focused learning environments. It becomes clear that it is important to first understand the underlying spatial themes which will support an educational philosophy and then, following this, one can then begin to understand the more detailed components that might create more specific spaces supporting pedagogies and activities.

Modern environments for future focused learning are breaking down the traditional notions of how to deliver education by blurring the boundaries between learner and teacher, between subjects, between timetabled blocks, and allow for increased shared learning space control. Spatial changes in the learning environment and the organisation of Furniture, Fittings and Equipment (FF&E) within it have an enabling role in changing the traditional structures and strictures and allow for the adoption of proven innovative approaches to teaching and learning.

"We need to equip our students for the world of tomorrow"



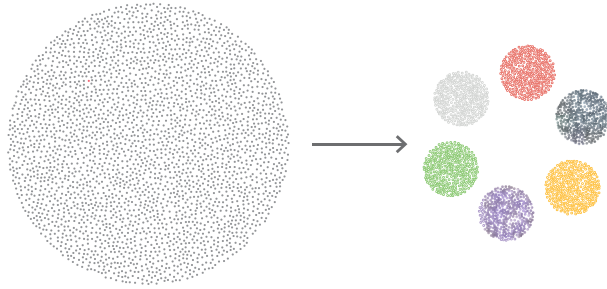
Educational Foundations

School within a School

Subdividing a large school into smaller communities, each with genuine autonomy and their own leader is successful for good reason - it is engaging.

School within a School (SWiS) gives a structure which, unlike a House system for example, extends across the curriculum as well as the pastoral dimensions of the school.

As a student, of whatever age, you very much identify with your "school" and have a stable relationship with the staff and students in your community. SWiS tend to aim for a community size of around 350 although other models exist too.



Stage not Age

In the larger learning spaces of many modern schools, working with students who, despite being older, or younger, are at about the stage that you have reached is easy: a good 6 year old reader, reading at the same level as 8 year old students, might be able to simply sit, and read, with others at the same "stage" level.

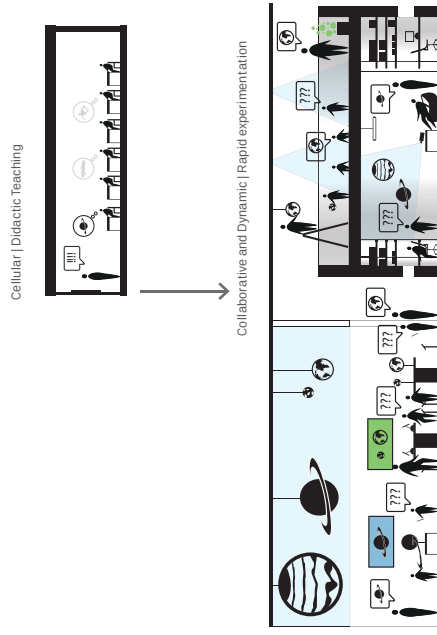
Stage not age Learning (SNA) is not setting streaming or hot-housing. Fundamentally, it is about the students not having to wait to progress.



Project Based Learning

With so much curriculum to cover, many schools have found that by overlapping subjects where there is a common topic, new understandings emerge, and time in a crowded timetable is saved. Alongside those gains the research promises better engagement.

Many schools have become Project Based Learning (PBL) champions and the concept is widely pursued around the world. Students seem to really enjoy this as they put their art, sport and maths together in a single project.





View of Homebase - APHS

Development of Parramatta

The City of Parramatta is the economic capital for Greater Western Sydney and the geographic centre of Sydney. Its evolution as one Australia's foremost central business districts is a strategic necessity to enable the future economic growth and prosperity of New South Wales.

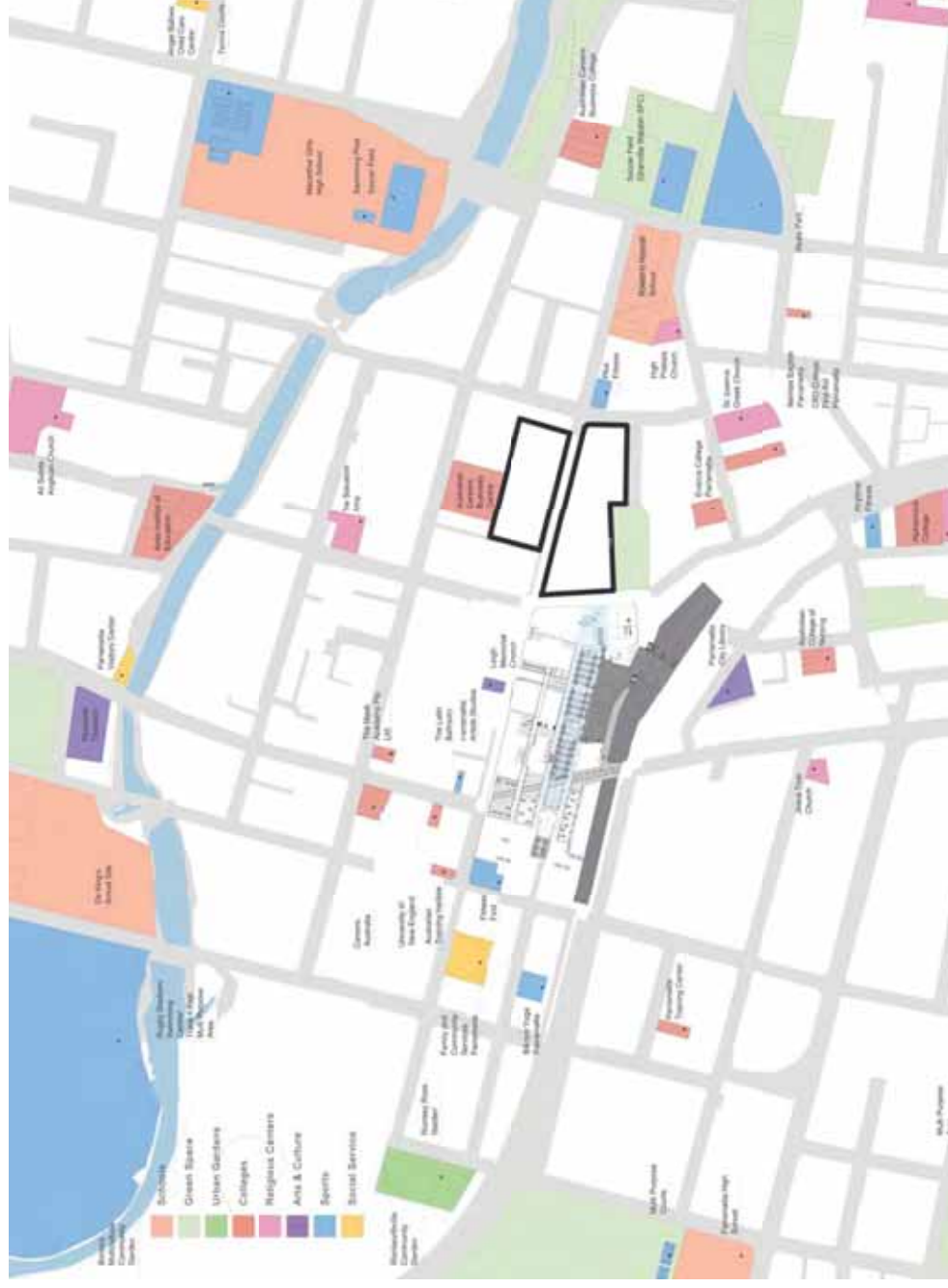
It's CBD is rapidly growing as a high rise city of the future, to accommodate the needs of projected population growth with urban intensification of high amenity. A place for its future inhabitants to live work and grow in the city - central to this place is the Parramatta Learning Precinct with the redevelopment of APHS and PPS.



Social Infrastructure

Arthur Phillip High School and Public School are centrally located within the heart of the Parramatta CBD. The School site is approximately 500m from Parramatta train station and is well serviced by train, bus and ferry, all within walking distance. The site is also located at the eastern edge of Parramatta Square which is set to become the rich and vibrant heart of the city.

Proposed residential and commercial development lining a large new large urban square 'Parramatta Square' will shift the focus of Parramatta CBD away from Westfield to the north side of Parramatta Station.



Map showing local amenities and social Infrastructure

Site Opportunities + Constraints

The learning precinct of Arthur Phillip High School and Parramatta Public Schools is located at the heart of Parramatta's CBD, directly adjacent to Parramatta Square.

The proposal seeks to connect the school grounds to the public realm of Parramatta square. Visually connecting the open space of the square with the largely open eastern grounds of the school. The school grounds within the southern portion of the site is proposed to be a largely open landscaped area adjacent to the turfed area of Lancer Barracks, providing a green swathe within the city.

The schools sit with close proximity to Parramatta Train Station and bus depot and the future light rail stop to be located adjacent to Parramatta Square.

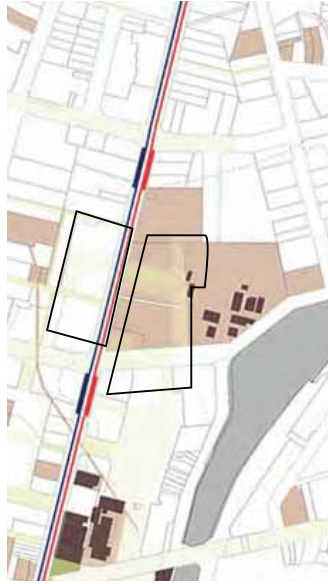


Potential light rail integration and Macquarie street upgrade

The site straddles Macquarie street which has been designated as the future Parramatta Light Rail route. Our proposal seeks to look at potential upgrades to Macquarie street into a tree lined pedestrian friendly zone.

The light rail will run in both directions (2 lanes) which will leave the potential for only a single lane of traffic. Therefore existing and future traffic flow through the CBD along

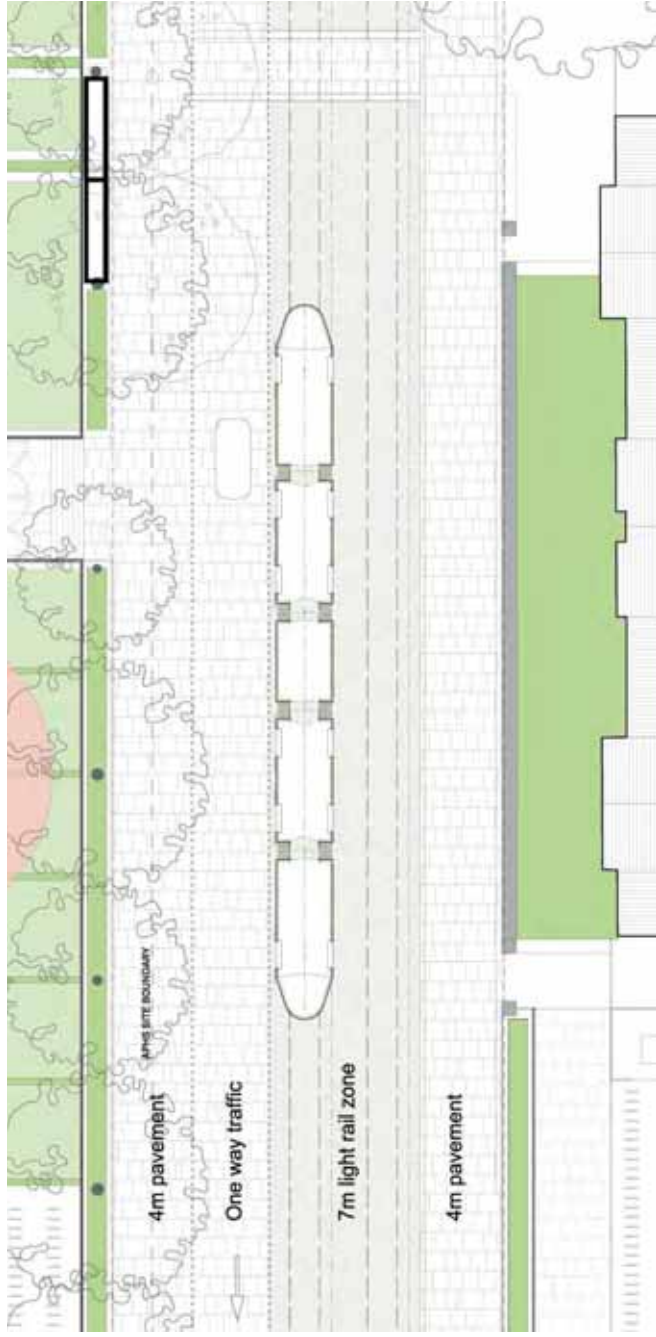
Macquarie street may not be fully accommodated along this route and thus redirected. The proposal shows the area to the south of APHS as a paved shared zone with a single lane of traffic as a service route. The reduced traffic flow and frequency of the light rail at approx 5min peak intervals or similar will mean that this area will become a safe and attractive pedestrian domain. It is proposed that there would be two pedestrian crossings along the street - to the east connecting APHS to PPS and to the west connecting the grounds of APHS to the shared landscaped zone to the east of the southern portion of the site. The design of these pedestrian crossings and street upgrades would need to be developed in conjunction with Parramatta City Council and Light rail.



Potential future Parramatta Light rail route (stops to be located)



Precedent images of light rail



Plan showing proposed arrangement of Macquarie street

Public domain and crossing points



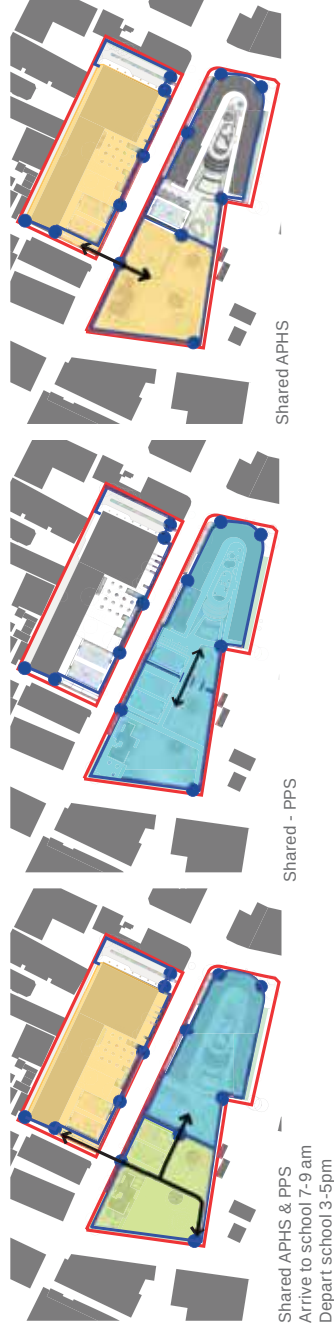
Site plan showing public domain and pedestrian crossing points

Entries, boundaries and access

There are several entrances to the APHS and PPS site providing a permeable perimeter and easy access into the school from all directions.

Parramatta Public School

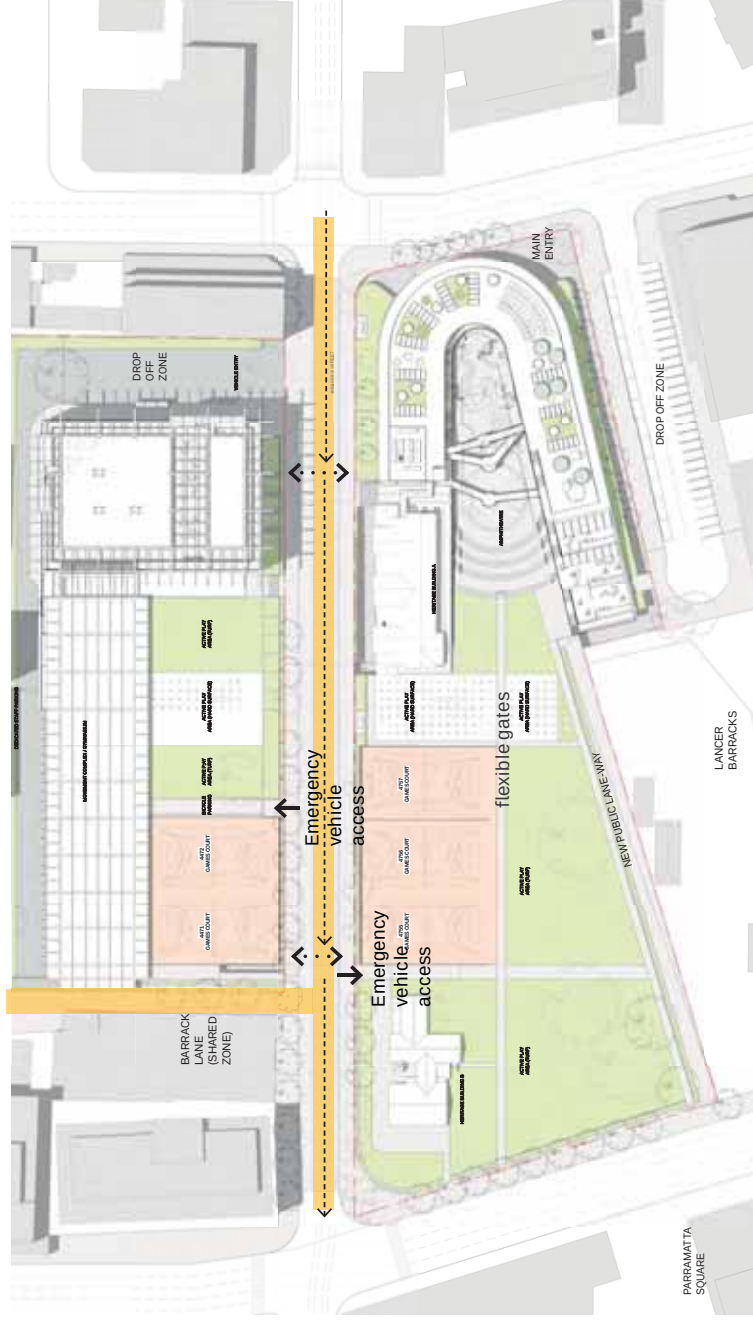
Primary access points for the PPS site are from Charles Street with smaller entries off Macquarie Street to the north and Little Street to the south. After hours and parent access is via Macquarie Street between the heritage building & the New School building.



The architectural curved form of the primary school creates a boundary to 3 sides. Where there is no building, the boundary condition is comprised of a 1500mm wide planted edge with an integrated security fence of 2100mm high to secure the school grounds. Around the sports courts a higher 3.6m fence is provided.

Arthur Phillip High School

Primary access points for the APHS are all from Macquarie Street with a smaller entry off Barrack Lane to the west. The whole site is raised on a 360mm plinth separating it in level from the surrounding pavements. The boundary condition is comprised of a 1500mm wide planted edge with an integrated security fence of 2100mm to secure the school grounds. Around the sports courts a higher 3.6m fence is provided.

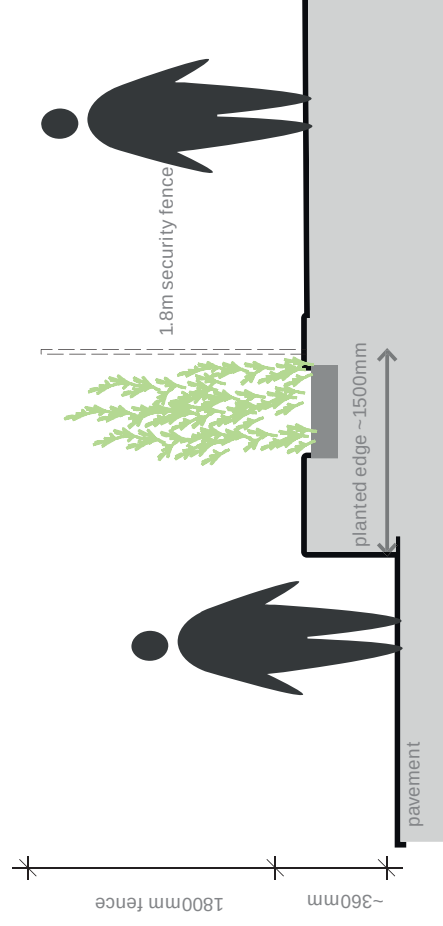




Perimeter fence arrangement



Detail of perimeter fence arrangement



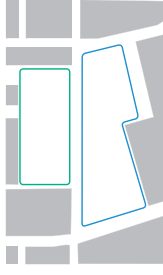
Existing site conditions



Existing Site Conditions



Existing site condition / Aerial view of Parramatta Public School & Arthur Phillip High School



View Analysis



Existing site condition / Parramatta Public School heritage building Macquarie Street



Proposed site condition / Parramatta Public School heritage building Macquarie Street



Existing site condition / Parramatta Public School corner of Charles & Macquarie Street



Proposed site condition / Parramatta Public School corner of Charles & Macquarie Street

View Analysis



Existing site condition / Parramatta Public School view from corner of Charles & Little Street



Proposed site condition / Parramatta Public School view from corner of Charles & Little Street



Existing site condition / Arthur Phillip High School view down Macquarie Street



Proposed site condition / Corner of Barrack Lane & Macquarie Street

Urban Response

Our proposal gives back to the city a large green open space, ameliorating the potential impact of the proposed future density with the city.

The urban design strategy for the morphological configuration of the two new schools preserves and consolidates the open space of central Parramatta. The landscape strategy integrates the two schools of various built form and scales whilst giving a distinct identity to the learning precinct with the heart of the city.

The Primary school and High school are positioned so that they engage the street with active frontages, seeking to entice learners and their communities with a sense of openness and outreach, optimistic contemporaneity, and a place for civic pride with an engaging playfulness.

Arthur Phillip High school (APHS) is configured as a vertical high school and the tower is positioned to the eastern end of the APHS site, rising to a height of 68m. The sports courts, COLA and playgrounds occupy the open space the south west opening up onto Macquarie street.

The Primary School (PPS) U-shaped building form nestles within a landscaped setting. The building wraps around and encloses the outdoor learning and play spaces. The landscape extends onto the rooftop, so as where possible every available surface can be used as space for learning and play.



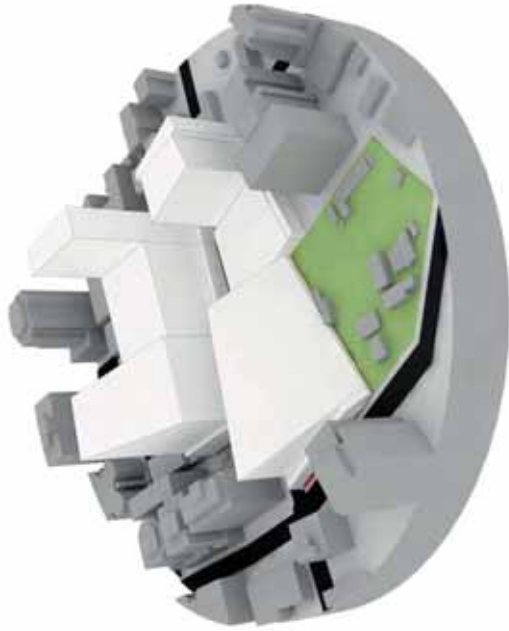
Aerial view of Learning Precinct - APHS and PPS

INTRODUCTION

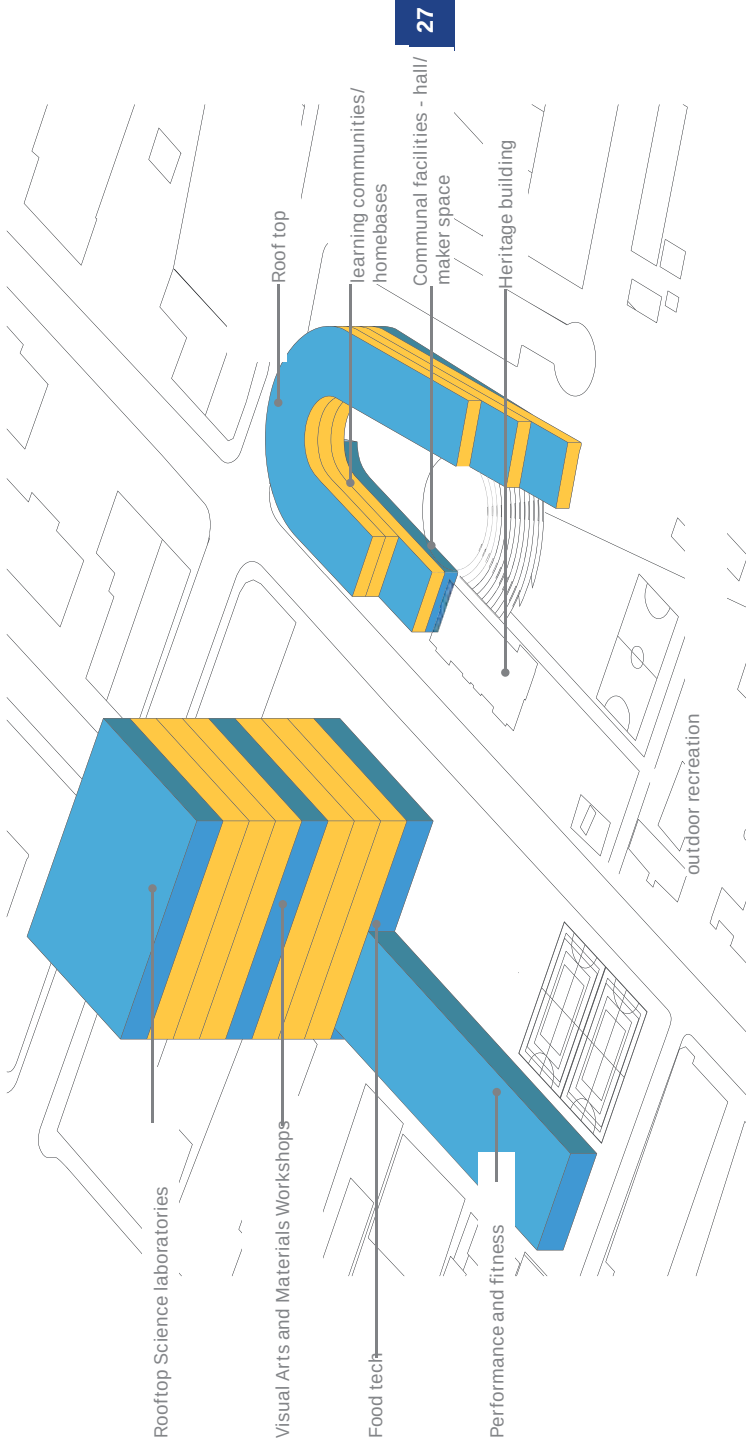
The Arthur Phillip High School form is composed of 6 double height volumes with single height levels interspersed between forming a 17 storey tower. A single level sports and gym hall extends the length of the site to the north intersecting the main building at the upper ground level.

Each double height space forms one of the schools homebases. Whilst the STEAM Science, Technology, Engineering, Arts, and Maths are located at lower, mid and roof level.

Similarly the Parramatta Public School has 3 stacked learning communities which with communal spaces at rooftop level and ground level. The existing heritage building will be re-purposed with administrative and specialised learning spaces.



Planning envelope - showing allowable building envelope according to max heights in LEP and permissible solar envelope to minimise overshadowing to adjacent properties



Site principles

Parramatta Public School

The Parramatta Public school is located on Macquarie Street, Charles Street & Little Street with entries from Macquarie Street & Charles Street. The existing infant school building from 1923 will continue to play a significant part in the proposed school and also in the siting of the building. The new part of the school Parramatta Public School will align to the facade of the heritage building resulting in a 6m setback from Macquarie from Macquarie Street.

The new entry on Macquarie Street between the Heritage building & the New School building will create a separation of new & old and a cohesion at the same time.

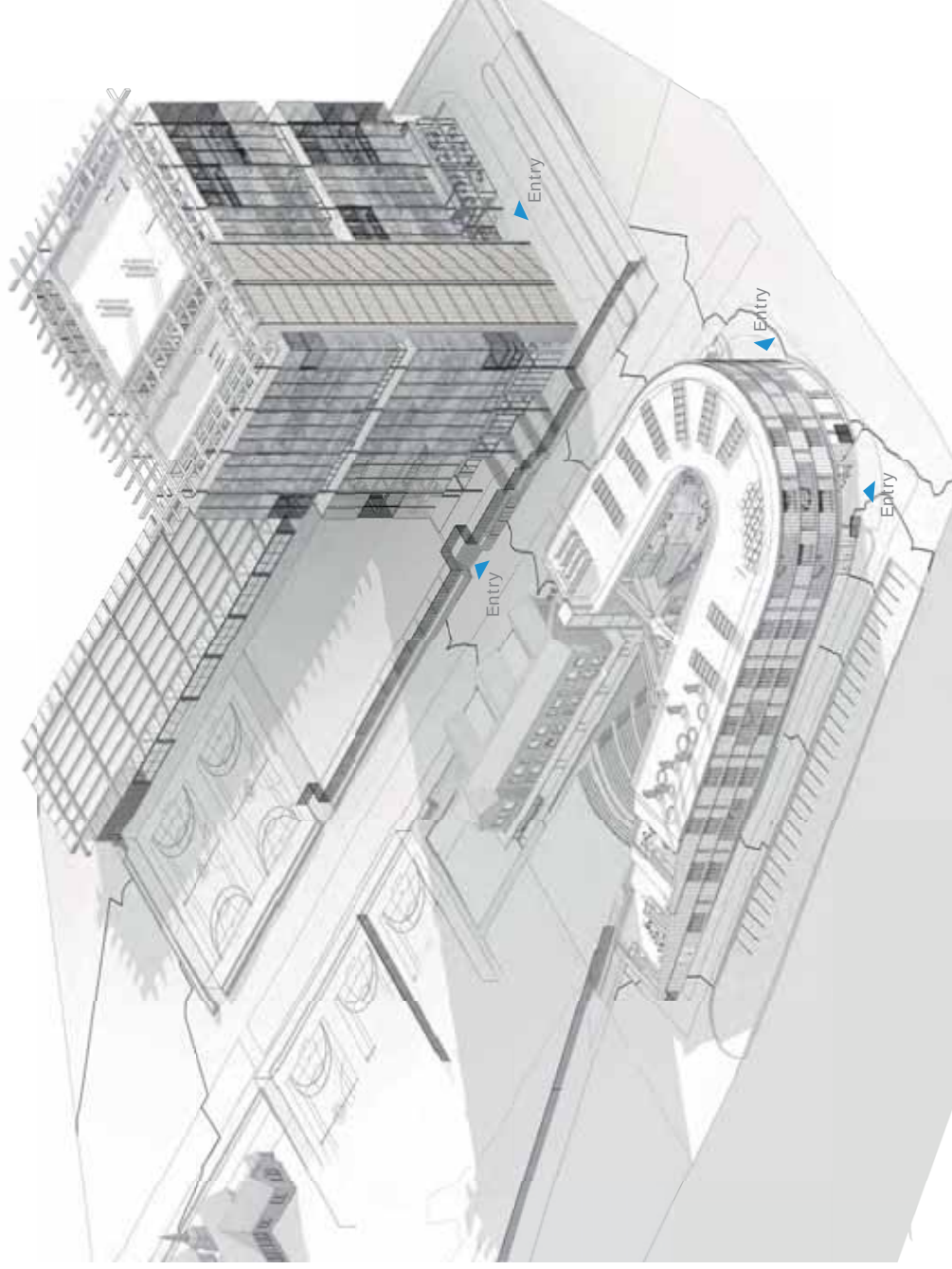
Due to a large fall of the natural terrain across the site from west to east, the entry on Macquarie street enters the new building on Level 1, the other 2 entries on Charles street enter the building on the Ground floor. In the courtyard a large open air amphitheatre responds to the slope of the terrain.

Arthur Phillip High School

The tower is positioned to the eastern end of the APHS site. It is sited with a 6m setback to the street and generous setbacks to the surrounding towers to the east and north.

The tower rises to a height of 68m above the lowest point of the site with the gym hall positioned as a 9m volume along the length of the site towards the north. The sports courts, COLA and playgrounds occupy the open space to the south west opening up onto Macquarie Street.

The rear service lane provides a 8.4m setback from the properties to the north.



Building Volume - Parramatta Public School

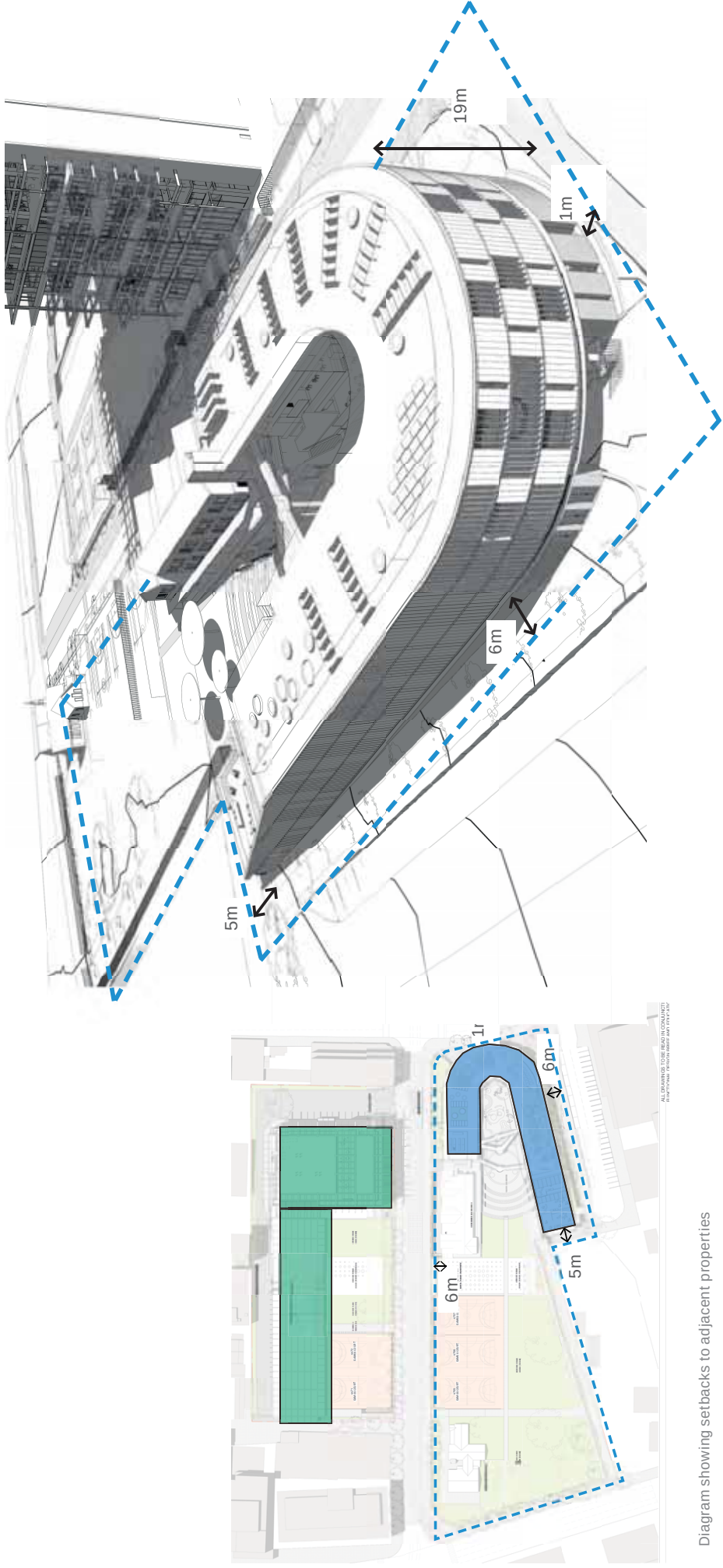


Diagram showing setbacks to adjacent properties

Building Volume - Arthur Phillip High School

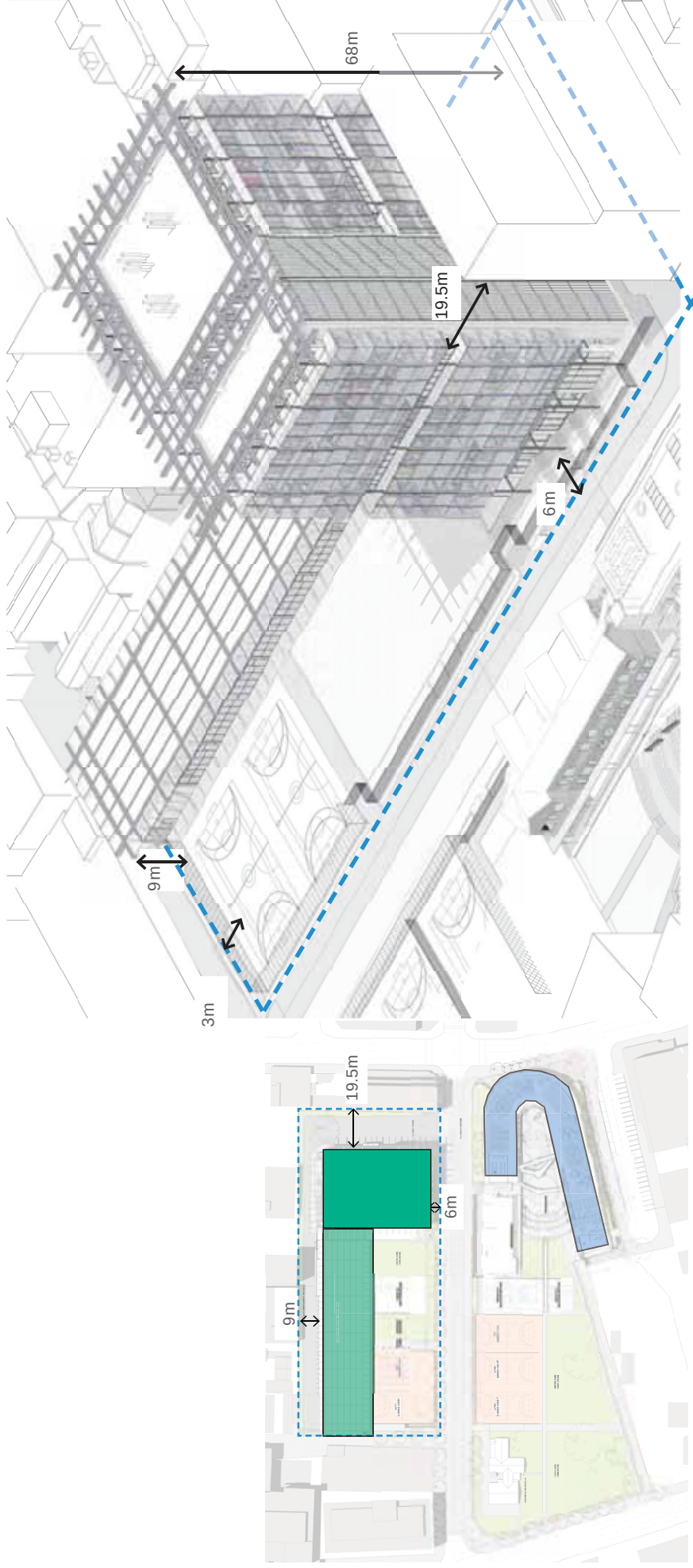


Diagram showing setbacks to adjacent properties

Staging plan 2016-2019

Parramatta Public School

- The Old Kings School (OKS) is available for the relocation of all PPS students in July 2017
- A 1.5 year construction period for APHS commencing in July 2017

Arthur Phillip High School

- The Rolland Hassall School (RHS) site is available for the relocation of APHS students in Jan 2017
- A 2 year construction period for APHS commencing in December 2016

STAGE 1 - NOVEMBER 2016 TO MARCH 2017



- Relocate APHS students to RHS site (operational Term 1, 2017)
- Commence early works and demolition on Northern APHS site (from end of Term 4, 2016)

STAGE 2 - MARCH 2017 TO DECEMBER 2018



- Commence construction of new building works for APHS
- APHS Western site operational until Dec 2018
- PPS operational until Jul 2017

STAGE 3 - JULY 2017 TO NOVEMBER 2017



- Relocate PPS to OKS
- Commence mobilisation, early works and demolition on Southern PPS site
- APHS Western site operational until Dec 2018

STAGE 4 - NOVEMBER 2017 TO DECEMBER 2018



- Commence new building works at PPS
- APHS Western site operational until Dec 2018

STAGE 5 - DECEMBER 2018 TO MARCH 2019



- APHS & PPS construction complete
- Demolish high school and associated facilities on Western APHS site
- Commence landscaping

STAGE 6 - JANUARY 2019 TO MARCH 2019



- APHS opens Day 1, Term 2019
- PPS opens Day 1, Term 1 2019
- Landscaping work completed March 2019



View of APHS from west



