

SOUTHERN SUBURBS CLUSTER PHASE 03 SCHEMATIC DESIGN

PREPARED FOR: STATE DESIGN REVIEW PANEL SUBMISSION

NEW LIVERPOOL PRIMARY SCHOOL

FORBES STREET, LIVERPOOL NSW 2170 AUSTRALIA

STATE SIGNIFICANT DESIGN REPORT REVISION: D DATE: 27 MAY 2021

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ACKNOWLEDGEMENTS

We would like to acknowledge the traditional custodians of the land, the Darug Nation. We acknowledge that this land was also accessed by peoples of the Dhurawal Nations.

We acknowledge the input of the SINSW, DOE and CBRE personnel and particularly the members of the local school communities.



As signatories to this declaration, fitzpatrick+partners seek to:

- Raise awareness of the climate and biodiversity emergencies and the urgent need for action amongst our clients and supply chains
- Advocate for faster change in our industry towards regenerative design practices and a higher Governmental funding priority to support this.
- Establish climate and biodiversity mitigation principles as the key measure of our industry's success: demonstrated through awards, prizes and listings.
- Share knowledge and research to that end on an open source basis.
- Evaluate all new projects against the aspiration to contribute positively to mitigating climate breakdown, and encourage our clients to adopt this approach.
- Upgrade existing buildings for extended use as a more carbon efficient alternative to demolition and new build whenever there is a viable choice.
- Include life cycle costing, whole life carbon modelling and post occupancy evaluation as part of our basic scope of work, to reduce both embodied and operational resource use.
- Adopt more regenerative design principles in our studios, with the aim of designing architecture and urbanism that goes beyond the standard of net zero carbon in use.
- Collaborate with engineers, contractors and clients to further reduce construction waste.
- Accelerate the shift to low embodied carbon materials in all our work.
- Minimise wasteful use of resources in architecture and urban planning, both in quantum and in detail.
- In Australia, we as architects are aware that Aboriginal and Torres Strait Islander peoples have long espoused the cultural, social, economic and environmental benefits embedded in the holistic relationship of Caring for Country.





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PROJECT OVERVIEW

BACKGROUND

SINSW have identified key drivers facilitating the need for a new public primary school in the Southern Suburbs of Sydney.

These drivers primarily relate to predicted population growth in the Liverpool district beyond the capacity of existing DoE assets.

SITE

The new Liverpool Primary School is located within the grounds of the existing Liverpool Boys and Girls High School in the Liverpool Central Business District (CBD), at 18 Forbes Street, Liverpool. The proposed new Liverpool Primary School is located in the eastern portion of the existing school grounds. The site is legally described as Lot 1 in DP 1137425.

DEVELOPMENT OVERVIEW

This application seeks consent for the construction and operation of a new Liverpool Primary School. This will include construction of a new school building for core school facilities, teaching spaces, support units, preschools as well as associated landscaping and open space improvements. A detailed description of development is provided by Ethos Urban within the EIS.

PROJECT INFORMATION

New Liverpool Primary School					
	Address:	18 Forbes Street Liverpool NSW 2170			
	Campus Site Area: (Lot 1 in DP 1137425) 74,800m ²				
	New Liverpool Primary School Site Area: 19,865m ²				
	Existing GFA:	18,400m ²			
	Proposed GFA:	8,180m ²			
	Use:	Public Primary Education to cater for: 1200 Students (K-6) + 40 Support Unit Students + 40 Pre School Students 98 Staff			
	Zoning:	SP2 - Infrastructure (health services facility and educational establishment)			
	Height:	The overall building height of the proposed is 14.8m and sits within the LEP Height Co (35m height limit)			
	Density:	The proposed density of the New School is 0.35:1 FSR			
	Parking:	33 on grade dedicated staff parking spaces delivered under seperate approval			
	ESD:	The project is targeting an equivalent / self certified 4 Star Green Star rating.			
	Flooding:	The site is affected by the Liverpool City Centre PMF, so the building RL is set at a cor RL of 9.3 which also allows for reasonably seamless transitions from the surrounding footpaths. The Georges River PMF sits at 10.8, but as this peak is expected to take 48h reach any risk will be mitigated with an appropriate management plan. See 2-05 .			
	Bushfire:	The proposed developm	nent does not fall under any Bushfire Protection controls.		
	Outdoor Play:	The open play areas are	e designed in accordance with the EFSG's 10m ² per student		
		UNENCUMBERED PLAY A PRIMARY SCHOOL SUPPORT UNIT PRESCHOOL	REA $12,000m^2 = 10m^2$ per student open space $400m^2 = 10m^2$ per student open space $400m^2 = 10m^2$ per student open space		
		HIGH SCHOOLS	23,000m ² = 13m ² per student open space		

The allocation of open play space does not adversly impact the existing High School's open playspace requirements. Student capacity for the High Schools is up to 2000 students, conservative calculations allow for 23000m² of unencumbered play inlcuding grassed area sized to accommodate a full sized rugby field.



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ol City Centre PMF, so the building RL is set at a compliant sonably seamless transitions from the surrounding sits at 10.8, but as this peak is expected to take 48hrs to th an appropriate management plan. See 2-05.

proposed is 14.8m and sits within the LEP Height Control

DESIGN PRINCIPLES

The following design principles have been developed by the Project Design Team, Schools Infrastructure NSW and the Project Reference Group to outline the objectives and vision for the New Liverpool Primary School.



Student Focused

Provide secure and safe spaces for students to collaborate and prosper.





Education Focused

Well designed learning communities allow for both traditional and contemporary pedagogies.





Community Focused Design

Design for inclusiveness by providing community accessible facilties.





Minimise Disruption

Minimise where possible disruption to surrounding operations through the use of modular design and off-site fabrication.





Value for Investment

Maximise return on investment through efficiency in design and clear prioritisation of project objectives.

Responsive Design

The design of the school should be durable and responsive for longevity and future generational needs.

Considered Landscape Approach

A landscape that provides a variety of spaces for play, social interaction, outdoor learning and connection to nature.

Indigenous Overlay

Engage with the local community to establish design strategies that both celebrate and welcome First Nations People

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COMMUNITY FOCUSED DESIGN

Schools were traditionally a place of gathering for the community. With busy lives, this concept has been shortened to the quick wave at the drop off.

Yet in communities affected by financial, cultural, health or immigration issues, the concept of community is sometimes the only helping hand offered.

The existing schools within the Liverpool Education Precinct have reinvented this concept of community meeting place as one of their core responsibilities. Their direct school community is affected not by one but in many cases all of these core issues. The schools acts as a healing place, a place to shelter, to learn, to make new relationships, and act as a gateway for the children, the immediate family, and even the remote family. It is a place that fosters safe connections.

The school is seen as a place that acts openly in the best interests of not only its students, but their families. These activities are directed by the staff of the school, outside experts and sometimes even the students. These duties often exceed the traditional, and the building design has a role to support not only the student and their families, but the staff that create this environment of caring.

It is key to the success of the New Primary School that the root concerns and the process of recovery or just accepting such are expressed as understood. This will reinforce the school within its community.

As generations pass, these concerns will change, and the built form will need to respond to these different concerns, but with the right approach, the school community will remain forever strong.

Design for inclusiveness by providing community accessible facilities encourages the community to collectively create a sense of belonging and a safe place for young learners (in reference to NSW DoE Education Principle 2). As such, schools should be designed with clear planning techniques.

- Design with a social consciousness to create positive • environmental, social and economic outcomes;
- Design good wayfinding by providing clear directional and navigational signs and graphics;
- Design to cater for various age groups;
- Design a clear internal pedestrian axis in the form of a continuous path that connects all other internal pedestrian streets and buildings;
- Planning for after hours use of school facilities while maintaing security and safety also.

THE SCHOOL ACTS AS THE **CRITICAL CONNECTOR BETWEEN THE SCHOOL FAMILIES & THE WIDER** COMMUNITY

R U OK?

LEARNING TO FIT IN

THE COMMUNITY

MENTAL AND PHYSICAL **HEALTH ISSUES**

HIGHLY SENSITIVE SOCIO ECONOMIC ISSUES



PERCEPTION VS REALITY OF LIVING SAFELY IN AUSTRALIA

LANGUAGE

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LIVERPOOL INNOVATION PRECINCT

fitzpatrick+partners were commissioned in the third quarter of 2018 to develop a master plan for the Liverpool Innovation Precinct which includes an expectation of future development of the health precinct associated with Liverpool Hospital to the south of the school site.

The Liverpool Innovation Precinct Vision is a long term strategy to reinforce the relationships between health, research and education.

This vision outlines a natural progression and hierarchy of educational facilities on the Forbes Street site with key linkages to tertiary and research facilities to the west and the hospital and university research and learning facilities to the south of the site.

Although this vision relies upon bigger picture developments, the proposal for the New Liverpool Primary School aligns with these future linkages and supports the flow of Primary, Secondary, Tertiary, Health philosophy.







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SITE LOCATION

The New Liverpool Primary School is located at the eastern boundary on the existing Liverpool Girls & Boys High School site on Forbes Street.

The proposed school sits within the Liverpool Innovation Precinct as identified by the Greater Sydney Commission (GSC).

Liverpool has been identified as a 'Collaboration Area' and a 'Health and Education Precinct' in the Greater Sydney's Commission's South West District Plan.

In 2016, the Liverpool Innovation Committee was formed comprising key stakeholders and decision makers with representatives across business, health, education, transport and local council.

In August 2017, the Liverpool Innovation Committee commissioned a report by PWC Australia titled 'Reimagining... the Liverpool Health, Education, Research and Innovation Precinct'. The report outlined a vision for the future of Liverpool including:

- Σ how health, education and research is undertaken individually and collaboratively to drive innovation
- Σ the industries that will drive the Liverpool economy
- Σ $% \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n$
- $\boldsymbol{\Sigma}$ $% \boldsymbol{\Sigma}$ the public's perception of Liverpool as an economic entity

The Liverpool Innovation Committee is commissioning a functional and viable strategy to successfully ensure Liverpool's future growth and eminence. It represents an alliance of stakeholders including:

- Σ South Western Sydney Local Health District
- Σ Liverpool Public Hospital
- Σ South West Sydney Primary Health Network
- Σ Ingham Institute of Applied Medical Research
- Σ Sydney Business Chamber
- Σ NSW Health Infrastructure
- Σ NSW Department of Education
- Σ Liverpool City Council
- Σ South West Sydney TAFE
- Σ University of Wollongong (UOW)
- Σ University of New South Wales (UNSW)
- Σ Western Sydney University (WSU)
- COLLABORATION AREA

LIVERPOOL INNOVATION PRECINCT

MAIN VEHICLE NETWORK

NEW PRIMARY SCHOOL





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SURROUNDING KEY SITES



LIVERPOOL INNOVATION PRECINCT

TRAIN STATION



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EXISTING SCHOOLS





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GREEN SPACE NETWORK









FLOOD



THE SITE

0 GEORGES RIVER PMF:10.8

0 LIVERPOOL CBD PMF: 9.3

|||| FLOOD PLANNING AREA



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ACTIVE TRANSPORT LINKAGES





BUS INTERCHANGE

TRAIN STATION



LIVERPOOL LOOP

0 THE SITE

NEW LIVERPOOL PRIMARY SCHOOL CATCHMENT ZONE

fitzpatrick +partners

0

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ZONING HIERARCHY

The precinct surrounding the New Liverpool primary school site is strongly positioned to develop

- complimentary industries with a focus on:
- medical technology and innovation
- specialist education and clinical skills training
- specialist medical clinics
- private sector hospital health providers

- tertiary education institutions (note that UNSW & UWS have teaching functions at Liverpool Hospital with the University of Wollongong recently establishing a major campus within the Liverpool CBD), and specialist research institutions (currently the Ingham Institute) is centred in the Liverpool CBD adjacent to the Hospital campus and Forbes Street site)

The development of the masterplan for Liverpool Hospital Campus has also addressed the future development of the surrounding precinct allowing new clinical and support services on the campus to better integrate to future education, research and commercial development within the Liverpool City.

Existing educational and research hub and future continual development forms a natural progression and hierarchy of educational facilities on the Forbes Street site with key linkages to tertiary and research facilities to the west of the site, and the hospital and university research and learning facilities to the south of the site.





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CAMPBELI STREET

EXISTING SITE CONDITIONS

An investigation into the site's existing condition has been undertaken including existing grades, sun & wind orientation, flood impact and existing infrastructure.

An understanding of the site's inherent characteristics is important in establishing building placement, orientation and scale.













WARM NORTH EASTERLY WINDS DURING SUMMER



EXISTING SITE CONDITIONS

The New Liverpool Primary School is located on the north east portion of the existing Liverpool Boys High School and Liverpool Girls High School site on Forbes Street.

Generally, four storey brick "walk up" apartment buildings surround the site to the north. The Liverpool Hospital Precinct and its proposed multilevel car park are located at the site's southern boundary.

The eastern boundary fronts the existing rail corridor along Burnside Drive. The southern most point of Burnside Drive is one of three main vehicle entry points for Liverpool Hospital including visitor parking, staff parking, loading and delivery and service vehicles.



1. LOOKING EAST @ LACHLAN STREET TOWARDS BURNSIDE DRIVE



4. LOOKING WEST @ BURNSIDE DRIVE







3. LOOKING SOUTH @ NORTHEAST CORNER OF SITE





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6. LOOKING NORTH @ SITE CONTEXT @ LACHLAN STREET



5. LOOKING NORTH @ HOSPITAL ROUNDABOUT

PLANNING CONTROLS

As outlined in the Liverpool LEP 2008, the site has a height limit of 35 metres.

Vehicle entry points are allowed at Lachlan Street, Burnside Drive and to the southern boundary of the site.

Forbes Street is considered a high priority pedestrian route.

DCP setbacks and provisions are provided on this plan - see key below for details.





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EXISTING ON SITE STAFF PARKING fitzpatrick +partners

TWO WAY PRIVATE ROAD

CAMPBELL STREET (POTENTIAL FUTURE SHARED ZONE) \bigcirc

LIVERPOOL HOSPITAL ENTRY

HIGH CONGESTION 8-9AM & 3-4PM

ADJACENT VEHICLE ENTRY POINTS U

VEHICLE APPROACH TO HOSPITAL V

MAIN VEHICLE APPROACH U

BUS STOP

DROP OFF/BUS ZONE ON STREET (HIGH SCHOOLS) 00

THE SITE



EXISTING TRAFFIC CONDITIONS

NEW LIVERPOOL PRIMARY SCHOOL

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BUILDING CONFIGURATION STUDY

The placement of built form on the site has been determined with consideration of site constraints, brief requirements, stakeholder input and the overarching design objectives established in Masterplanning and Concept Design Phases.

Key criteria were established to grade the success of the proposed footprint against the above and to rationalise the location and orientation of the building and ultimately identified the C shaped footprint as the most successful for the site and brief.







- SITE PLANNING - ORIENTATION
- TRAIN TRAFFIC NOISE MITIGATION
- SUPPORTS DFMA EDUCATION PLANNING
- SUPPORT DFMA CONSTRUCTION PLANNING

PRG & SINSW CRITERIA ESTABLISHED MARCH 2020

- RETAINS HIGH SCHOOL RUGBY FIELD
- FULL SOCCER FIELD TO PRIMARY
- RETAINS HIGH SCHOOL HARD COURTS
- IMPROVES HS ACCESS TO FIELDS
- PS EQUITY OF ACCESS TO FIELDS

SDRP FEEDBACK

- DIRECT PUBLIC ACCESS TO SHARED FACILITIES
- CREATES SAFE AND WELCOMING ENTRY
- BUILT FORM SEPARATION BETWEEN HS AND PS

SITE PLANNING

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- ORIENTATION
- TRAIN TRAFFIC NOISE MITIGATION
- SUPPORTS DFMA EDUCATION PLANNING
- G - SUPPORT DFMA CONSTRUCTION PLANNING

PRG & SINSW CRITERIA ESTABLISHED MARCH 2020

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SITE PLANNING

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- ORIENTATION
- TRAIN TRAFFIC NOISE MITIGATION
- G - SUPPORTS DFMA EDUCATION PLANNING
 - SUPPORT DFMA CONSTRUCTION PLANNING

PRG & SINSW CRITERIA ESTABLISHED MARCH 2020

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- G - PS EQUITY OF ACCESS TO FIELDS

SDRP FEEDBACK

- DIRECT PUBLIC ACCESS TO SHARED FACILITIES
- CREATES SAFE AND WELCOMING ENTRY
- BUILT FORM SEPARATION BETWEEN HS AND PS

G GREEN - GOOD OUTCOME

AMBER - SATISFACTORY OUTCOME

R RED - POOR OUTCOME



G A

SDRP FEEDBACK (\mathbf{R})

- ORIENTATION	G
- TRAIN TRAFFIC NOISE MITIGATION	R
- SUPPORTS DFMA EDUCATION PLANNING	G
- SUPPORT DFMA CONSTRUCTION PLANNING	R
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PRG & SINSW CRITERIA ESTABLISHED MARCH 2020

- RETAINS HIGH SCHOOL RUGBY FIELD
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SDRP FEEDBACK

- DIRECT PUBLIC ACCESS TO SHARED FACILITIES
- CREATES SAFE AND WELCOMING ENTRY
- BUILT FORM SEPARATION BETWEEN HS AND PS

THE DESIGN STORY



1. BUILDING PLACEMENT BULK AND SCALE

2. CIRCULATION VIA SEPARATION

3. ARTICULATION AND ADD ON ELEMENTS

4. THE BUILT FORM



SOUTHERN SUBURBS CLUSTER

THE DESIGN INTENT

OVERVIEW

Our design approach encompasses architectural and educational design objectives that drive the creation of successful school planning.

We have referenced and consolidated the NSW DoE Education Principles, New PS Education Rationale and Government Architect NSW Guide for Schools Design into two key components that inform our design;

- Architectural Design Objectives; •
- Education Planning Principles. •

We understand that education design should logically centre on educational needs, and not be directed by aesthetic or form influences.

It is logical that the form and aesthetic of educational buildings reflects the internal function of the building and also enhance the user's experience.

This aligns with The NSW DoE Education Principle 1: "First and foremost, focus on the needs of learners and learning".

This creates buildings which are designed in response to current social issues; we simply refer to this as designing with a social awareness. Through this process we respectively address the functional, environmental and cultural issues within the community of users.

Our solution considers the well being of the building users, aided by providing balance between sun and shade, open and closed, private and public, warm and cool, and always safe, always logical.

When these simple rules are followed, the buildings created are understood, a delight to use, have an inherent responsiveness to change and therefore achieve the ultimate environmental outcome; longevity and active use.

MASSING AND BUILT FORM

The building form and proportion takes its cues from both the neighbouring context and its logical programme.

The purposefully defines an approach which sits comfortably as a well-mannered element in keeping with the surrounding residential fabric, and balances its scale and function in an aesthetic with which responds to the future adjacent context.

SIMPLICITY

The school building has been carefully defined both in plan and vertical dimension to create an overall volume which has a visually pleasing proportion and balance and rarely (and purposefully) deviates on all four facades. This is further enhanced by the regular modularisation of the façade; the object is pure and repetitive in all elevations.

The volume is then broken into subsets of the overall form, responding to the structural grid, vertical stacking and internal functions.

FACADE SCALE AND MODULATION

The modulerisation of the facade is further articulated by vertical and horizontal shade devices which have been carefully placed to maximise the buildings performance and mitigate heat gain, especially on the east and west elevations.

At Lachlan Street, the facade line is set in at the main entry, acting as a directional indicator or "signage" as to where to go. This creates a playfulness and interest to an otherwise formal façade.

ENVIRONMENTAL

The façade also addresses the necessary environmental performance criteria as an integral part of the solution. The use of double glazing and shade devices appropriately address the issues of light penetration to the homebases, and minimise internal glare.

Operable windows are also provided on all elevations, taking advantage of cool north easterly breezes where possible.

The ratio of solid panels and glazed panels appropriately address BCA requirements. The verticality of these panels enhance and contribute to the regular patternation of the facade.

MATERIALITY

The building is comprised of brick, fibre cement panels and metal sun shades in warm hues, complimenting the native landscape and surrounding buildings. The selection is warm and textural while also providing a robust and durable material palette.





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STAGING

Stage 1

CONSTRUCTION OF NEW CARPARK, PLAYING FIELD, HARDSTAND WASTE AREA TO SOUTH OF SITE, INCLUDING EARTH WORKS, STORMWATER SYSTEMS (INCLUDING OSD) AND FINISH TREATMENTS.

STAGE 2

WIDENING OF BURNSIDE DRIVE, NEW ON STREET PARKING / KISS & DROP.

RELOCATION OF IN GROUND ELECTRICAL ASSET AND EXISTING LIGHT POLES.

NEW ROUNDABOUT

STAGE 3

CONSTRUCTION OF IN GROUND WATER AND SEWER PIPEWORK TO EXISTING STREET CONNECTIONS

CONSTRUCTION OF NEW PADMOUNT KIOSK SUBSTATION AND CONNECTIONS

CONSTRUCTION OF COMMS CONNECTIONS TO STREET

HATCHED AREAS DENOTE WORKS TO BE DELIVERED UNDER ALTERNATE PLANNING PATHWAYS





STAGING

STAGE 4

NEW BUILDING WORKS, ASSOCIATED CIVIL, STORMWATER AND LANDSCAPING WORKS AND TREE PLANTING WITHIN THE HATCHED ZONE.

BUS BAY TO LACHLAN STREET (NOT PART OF SSDA APPROVAL).



STAGE 4 WORKS



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GROUND PLAN: ACCESS AND CIRCULATION

Main Entry for New Liverpool Primary School is located on the prominent Lachlan Street frontage, on an established bus route and linking to Warwick Park Train Station via Hart Street. Established trees to this frontage are to be retained where possible with a 6 meter building setback from the already generous public footpath creating an attractive, comfortable shaded space at the front of the school.

After Hours Entry from Lachlan Street gives controlled access to the Hall, Canteen, OSHC and lift / stairs to access the Library and Special Programme areas on L1.

Main student access is via Burnside Drive, with direct access from kerb side drop off. Students enter through the school gates, under the COLA into the courtyard area.

There is also direct access from Burnside Drive to the Preschool and Support Unit.



AFTER HOURS SECURE LINE



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LEVEL 1 PLAN

Level 01 houses homebases, student amenities.

The library and staff areas are located within the northern portion of the building so that they are centrally located within the "heart" of the school.

The library and special programs unit can be accessed after hours via the lift or stairs adjacent.



AFTER HOURS SECURE LINE





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LEVEL 2 PLAN







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LANDSCAPE PLAN

The landscape concept for the New Liverpool Primary School provides a variety of active, passive and flexible play spaces for children of different ages, genders and backgrounds.

It includes a hierarchy of spaces radiating from the central assembly area including intimate places for smaller groups and wide open spaces for large gatherings and active play.

Trees and understory planting are maximised across the site to provide shade and encourage students to connect with nature.

While some exotic feature trees are proposed, there is a predominance of native plant species from the Cumberland Plain Woodland Community, which reinforces the native ecology and encourages habitat for local fauna.

A key Design Principle for New Liverpool Primary School is the connection it makes with the community it serves. Entries on Lachlan Street seek to both manage and welcome visitors and users, creating a public domain which is flexible and inviting to socialise around pick up & drop off.

The public domain on Lachlan Street seeks to protect and enhance the quality of space created by existing mature trees while indroducing amenities such as seating and further planting to encourage activation of the space.

Refer to Spackman Mossop Michaels Landscape Design Package for more details.

KEY

PROPOSED NATIVE TREE PROPOSED NATIVE FEATURE TREE EXISTING TREE (MEDIUM RETENTION VALUE) (•) TREE TO BE REMOVED TURF/ ACTIVE PLAY NATIVE SHRUB/GROUND COVER/GRASS PLANTING SYNTHETIC TURF CONCRETE (NON REFLECTIVE OXIDE TBC) CONCRETE PAVING ORGANIC MULCH TIMBER FURNITURE (SPOTTED GUM) RUBBER SOFTFALL RAINWATER TANK SITE BOUNDARY ---- ROOF/ SHADE STRUCTURE FENCE fitzpatrick -+partners



LIVERPOOL GIRLS AND BOYS HIGH SCHOOL



SOUTHERN SUBURBS CLUSTER

BUILDING SERVICES, WAYFINDING & SIGNAGE STRATEGY

BUILDING SERVICES STRATEGY

The plant strategy adopted involves a localised strategy which aims to limit the amount of reticulation within the building. The majority of the plant is located within the six amenities pods (two per floor). These are stacked to optimise riser locations and create an ease of maintenance access.

The plant is strategically integrated into the building and concealed behind the façade. Ventilation is maintained by louvres, whilst appropriate acoustic strategies are to be implemented such as vibration dampening and acoustically rated walls in order to achieve appropriate learning conditions to home bases and adjacent schools.

The main plant includes mainly condenser units in order to meet the requirements for air-conditioning in every space. The plant also incorporates exhaust units, comms rooms, distribution boards, and electrical and mechanical risers. The ground floor houses MMC, and PV inverters, servicing the roof PV cells.

4500 1200

WAYFINDING & SIGNAGE STRATEGY

FRONT ENTRY SIGNAGE SCHOOL NAME + LOGO BRUSHED CHARCOAL METAL FINISH APPROX 1200 x 4500





PLANT AND SERVICES 3-10





SIDE ENTRY INFORMATION SIGNAGE PYLON CHARCOAL POWERCOATED METAL CLADDING APPROX 8000 x 1500 1500 x 1200 ZONE FOR PIN FIXED SCHOOL LOGO WITH LED BACK LIGHTING 3600 x 1200 DIGITAL DISPLAY PANEL WHITE POWDERCOATED METAL WAYFINDING LETTERING

SIDE ENTRY DROP OFF ZONE SIGNAGE SCHOOL NAME + LOGO BRUSHED CHARCOAL METAL FINISH APPROX 4500 x 1200



SOUTHERN SUBURBS CLUSTER

NUMPERIC School

ARTIST IMPRESSION LACHLAN STREET ENTRY

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ARTIST IMPRESSION BURNSIDE ROAD ENTRY



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STATE SIGNIFICANT DESIGN REPORT

FIRST NATIONS ENGAGEMENT

The first inhabitants of Western Sydney were the Dharug people, approximately 40,000 years ago. The Cabrogal clan of the Dharug were more specific to the Liverpool district, named after the cohbra grubs they harvested on the banks of the waterways (Leane, 2014).

In 2011, 2,677 people in Liverpool identified as Aboriginal or Torres Strait Islander, making up 1.5 per cent of the population (Liverpool City Council, 2016).

With such a long and evolving Indigenous History, this new civic building has the opportunity to engage with the local community to establish design strategies to both celebrate and welcome First Nations People.

With the support of SINSW the design team have begun the process of identifying the most appropriate representative to collaborate with on the New School and are committed to a process which aligns with the principles established by the GANSW's 'Designing with Country' paper and the The Australian Indigenous Design Charter.

The below is particularly critical to ensure authentic representation of Indigenous Culture in the design:

- Indigenous Lead First Nations People should be leading or co-leading the indigenous elements in the design
- Community Involvement The local indigenous community should be engaged in the process
- Appropriate use of indigenous design All indigenous design elements must be approved by involved First Nations People / Community / Elders.

There are many opportunities for input in this project, including but not limited to imagery and public art, space and landscape design, and the use of local language in wayfinding and storytelling around the school. The design also priorities passive design strategies to connect users to the environment around them. See 4-05.

Our approach draws inspiration from the adjacent diagram, taken from the 'Designing with Country' paper which describes the essential relationships between design, people and nature and the opportunities which arise from those connections.





SOUTHERN SUBURBS CLUSTER

SEPP RESPONSE

DESIGN RESPONSE TO THE QUALITY PRINCIPLES ESTABLISHED BY THE STATE ENVIRONMENTAL PLANNING POLICY (EDUCATIONAL ESTABLISHMENTS AND CHILD CARE FACILITIES) 2017.

01. CONTEXT, BUILT FORM & LANDSCAPE

The design proposal for New Liverpool Primary School considers the existing and future potential of the site.

The design was developed with consideration of the following:

- Planning controls related to the site as described in the Liverpool LEP 2008 and DCP 2008. The architectural response proposes a building height which meets controls and is appropriate to the scale of neighbouring 3/4 storey residential properties, aligns with zoning controls and responds appropriately to site analysis of pedestrian, bike and traffic conditions in accordance with the abovementioned documents. See 2-10, 2-11.
- The site setbacks have been established to allow 6 meters clear to boundary which when added to the existing road reserve provides a generous public domain to Lachlan Avenue for the school community to passively gather and socialise at pick up and drop off. This setback balances the objective of minimising impacts to the existing High School sites by locating the Primary School building clear of their existing hardcourts and with enough green space for a full sized Rugby Field to be reserved. See 3-10, 4.02.
- The landscape design is an integral component of the school design. Every effort has been made to retain existing trees and propose new trees to increase naturally shaded areas and encourage students to connect with nature. See 3-10 + Landscape Design Package.

02. SUSTAINABLE, EFFICIENT, DURABLE

The design proposal for New Liverpool Primary School combines positive environmental, social and economic outcomes. See 4-05.

- The design provides natural ventilation where appropriate for better air circulation.
- ٠ The design provides well insulated external and internal walls to prevent excessive heat gain and loss.
- The design maximises natural light to internal learning spaces.
- The proposal will specify energy efficient fittings and fixtures including photovoltaic panels.
- The design allows for Rain water collection for landscape irrigation.
- The design will specify sustainable, low embodied energy materials where possible.

03. ACCESSIBLE & INCLUSIVE

The design proposal for New Liverpool Primary School provides good wayfinding and is welcome, accessible and inclusive to people with differing needs and capabilities. See 3-09.

- The proposal provides a strong street address to Lachlan Street and clearly deifined main entry point.
- The proposal separates after hours entry to facilitate clear access to out of hours and shared community facilities.
- Kiss & Ride drop off / pick up is located kerb side on Burnside Drive, with clear sight lines from cars to the school aate.
- Support Unit and PreSchool have dedicated entries and short term parking adjacent.
- The site is level, mitigating requirement for landscaped or ramped level changes to the ground plane
- The building form facilitates a range of outdoor play spaces, catering to students of various confidence levels from intimate contained play within the courtyard to large open green space to the south.

04. HEALTH & SAFFTY

The design proposal for New Liverpool Primary School optimises health, safety and security within it's boundaries and the surrounding public domain, while creating a welcoming and accessible environment.

- The design establishes clear site access strategy, open and visible entry for students at the beginning and end of the school day, controlled entry for visitors through the school day via administration with secure entry to specific school areas considered appropriate for after hours community use. See 3-06.
- The building promotes passive supervision by providing clear site lines between external and internal spaces.
- The ground plane planning limits private vehicle requirements on site by engaging with green travel strategies, connecting with safe pedestrian and bicycle routes, and easy connectivity to public transport. See 2-06.
- Landscape Design provides active courtyards and play areas. See 3-10 + Landscape Design Package.
- Site planning reduces building footprint to maximise ground plane play areas. See 3-01.
- Building configuration eliminates entrapment or secluded spots to deter anti-social activities. See 4-06.
- The proposal provides adequate night lighting solutions. See 4-02.

05. AMENITY

neiahbourhood.

- day.

06. WHOLE OF LIFE, FLEXIBLE & ADAPTIVE

- different teaching and learning modes.
- See 1-05.
- materials used.
- readily available. See 3-03.

07. AESTHETICS

and surrounds.



The design proposal for New Liverpool Primary School delivers pleasant and engaging spaces that are accessible for a wide range of educational, informal and community activities while also considering the amenity of adjacent developments and the local

 The design identifies and facilitates shared use of school assets for community use out of hours, including the Communal Hall, Special Programmes Rooms, Library and Southern Sports Field with access to adjacent amenities. See 3-06, 3-07. Homebase design considers both traditional and contemporary pedagogies where various teaching modes that can occur throughout the course of the school

The design allows for a range of different internal and external learning spaces. The site is adjacent to the south west rail corridor; the building facade will be treated appropriately to mitigate noise impacts.

The building form prioritises spatial planning to maximise connection of indoor space to nature, both directly with operable windows and spaces for outdoor learning, and indirectly with outlook to green space on all sides.

The design proposal for New Liverpool Primary School considers future needs and takes a whole of life approach underpinned by site wide strategic and spatial planning.

Internal planning designed for users to easily reconfigure homebase spaces to suit

• Planning supports modular design and construction methods which support future site developments being interchangeable and reusable.

Masterplanning aligns with the vision for the Liverpool Innovation Precinct.

The architectural and structural design solution seeks to reduce the volume of

Materials selection prioritises robust, durable and hard wearing products that are

The design proposal for New Liverpool Primary School is designed with good proportions and balanced composition of elements, responding to positive elements from the site

The proposal will provide a new multi level school facility that will renew and strengthen the school's presence within its locale.

Modularisation of the façade establishes a thoughtfully proportioned and

balanced design which can respond simplistically to the environmental

requirements of each façade aspect. See 3-03.

Materiality complements the natural and built surrounds.

SOUTHERN SUBURBS CLUSTER

SEARS RESPONSE

SEARs REQUIREMENTS	RELEVANT SECTION OF THE REPORT
4. Built Form and Urban Design	
Address the height, density, bulk and scale, setbacks and interface of the proposal in relation to the surrounding development, topography, streetscape and any public open spaces.	See SSD Report Section 2, 3, 4
Address design quality and built form, with specific consideration of the overall site layout, streetscape, open spaces, façade, rooftop, massing, setbacks, building articulation, materials and colours.	See SSD Report Section 3
Provide details of any digital signage boards, including size, location and finishes.	Drawing 0018 & SSD Report Section 3.10
Clearly demonstrate how design quality will be achieved in accordance with Schedule 4 Schools – Design Quality Principles of State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017 and the GANSW Design Guide for Schools.	SSD Report Section 3.15
Detail how services, including but not limited to waste management, loading zones, and mechanical plant are integrated into the design of the development.	SSD Report Section 3.10
Provide detailed site and context analysis to justify the proposed site planning and design approach including massing options and preferred strategy for future development.	SSD Report See section 2
 Provide a detailed landscape strategy, including: consideration of equity and amenity of outdoor play spaces, and integration with built form, security, shade, topography and existing vegetation having regard to the proposed and existing schools on the site. details of the number of trees to be removed and the number of trees to be planted on the site. 	See SSD Report Section 3.09 and Landscape report (appendix)
Provide a visual impact assessment that identifies any potential impacts on the surrounding built environment and landscape including views to and from the site and any adjoining heritage items.	SSD Report Section 4.03, 4.04
Address CPTED Principles.	SSD Report Section 4.06
Demonstrate good environmental amenity including access to natural daylight and ventilation, acoustic separation, access to landscape and outdoor spaces and future flexibility having regard to the proposed and existing schools on the site.	See SSD Report section 3
Demonstrate that Aboriginal culture and heritage is considered and incorporated holistically in the design proposal.	SSD Report Section 3.14
5. Environmental Amenity	
Assess amenity impacts on the surrounding locality, including solar access, visual privacy, visual amenity, overshadowing and acoustic impacts.	Section 4.01, 4.02
Conduct a view analysis to the site from key vantage points and streetscape locations (photomontages or perspectives should be provided showing the building and likely future development).	SSD Report Section 3.11, 3.12, 3.13
Include a lighting strategy and measures to reduce spill into the surrounding sensitive receivers.	Section 4.02

Identify any proposed use of the proposed facility outside of school hours (including weekends) and assess any resultant amenity impacts on the immediate locality and proposed mitigation measures.	See Drawing 0011 & SSD Report Section 4
Detailed outline of the nature and extent of the intensification of use associated with the increased floor space, particularly in relation to the proposed increase in staff and student numbers.	SSD Report Section 1.02
Detail amenity impacts including solar access, acoustic impacts, visual privacy, view loss, overshadowing and wind impacts. A high level of environmental amenity for any surrounding residential land uses must be demonstrated.	Section 4.01, 4.02 and acoustic and wind reports (appendix)
6. Staging	
Provide details regarding the staging of the proposed development (if any).	SSD Report Section Section 3.04, 3.05
Plans and Documents	
 Architectural drawings showing key dimensions, RLs, scale bar and north point, including: Plans, sections and elevation of the proposal at no less than 1:200 showing indicative furniture layouts and program illustrated materials schedule including physical or digital samples board with correct proportional representation of materials, nominated colours and finishes Details of proposed signage, including size, location and finishes Detailed annotated wall sections at 1:20 scale that demonstrate typical cladding, window and floor details, including materials and general construction quality Site plans and operations statement demonstrating the afterhours and community use strategy 	See SSD Report Section section 2 and accompanying Architectural SSDA Drawing Set
 Site Analysis and Context Plans, including: Any future development and expansion zones Open space network Active transport linkages with existing, proposed and potential footpaths and bicycle paths and public transport links precinct scale plans showing the relationship of the proposed development to any proposed development on surrounding land Provide a precinct scale plan showing relationship of the proposal to any proposed development on surrounding land 	See SSD Report Section Section 1.2 and accompanying Architectural SSDA drawing set
Cross sectional drawings showing ground surface, rail tracks, sub soil profile, and structural design of the proposed primary school with sub ground support adjacent to the rail corridor (land, assets and easements) Shadow diagrams View analysis, photomontages and architectural renders, including from those from public vantage points Landscape architectural drawings showing key dimensions, RLs, scale bar and north point, including:	See accompanying Architectural SSDA Drawing Set and Civil report (appendix) Section 4.01 Section 3.11, 3.12, 3.13, 4.03, 4.04 SSD Report Section 3.09 and Landscape
 Integrated landscape plans at appropriate scale, with detail of new and retained planting, shade structures, materials and finishes proposed, including articulation of playground spaces 	report (appendix)

 Plan identifying sig trees to be retaine
 Design report to demonstration

- in accordance with the a - architectural desig
 - Diagrams, structur
- clarify the design iDetailed site and a
- Analysis of options
- planning and desi
 Visual impact asse
 the surrounding but
- items - Summary of feedb
- State Design Review responses to this ac
- Summary report of
- response to any fe

gnificant trees, trees to be removed and ed or transplanted	
strate how design quality will be achieved above Key Issues including: ign statement ire plan, illustrations and drawings to intent of the proposal context analysis as considered to justify the proposed site sign approach essment identifying potential impacts on built environment and adjoining heritage	See SSD Report Sections1, 2, 3, 4
lback provided by GANSW and NSW iew Panel (SDRP) (where applicable) and advice of consultation with the community and eedback provided	

CHILDCARE PLANNING GUIDELINE ASSESSMENT

Component	Proposal	Component	Proposal	Component
Part 2 - Design Quality			The preschool is withing the secure fencing of the New Primary School with dedicated access	dedicated access school outdoor
Principle 1 - Context	The proposed preschool is located on ground level of the New Public School development at the southern end of the site alongside Burnside Drive.	Objective: To ensure that front fences and retaining walls respond to and complement the context and character of the area and do not dominate the public domain.	from Burnside Drive. The preschool outdoor area is securely fenced from the Primary School's play areas. Refer to SSDA Report.	
Principle 2 – Built form	The preschool is accommodated in the New Public School for Liverpool which is being assessed under SSDA.	3.3 Building orientation, envelope and design Objective: To respond to the streetscape and site, while optimizing solar access and opportunities for shade.	The building envelope is being assessed under SSDA. Refer to SSDA Report.	using low level landscaping to sol 3.5 Visual and acoustic privac Objective: To protect the privacy ar
Principle 3 – Adaptive learning spaces	The internal fitout and playground have been designed to align with the Child Care Guidelines.	Objective: To ensure that the scale of the child care facility is compatible with adjoining development and the impact on adjoining buildings is minimized.		facility. C20 Open balconies in mixed use develo
Principle 4 – Sustainability	Sustainability targets for the proposed building are aligned with the SINSW	Objective: To ensure that setbacks from the boundary of a child care facility are consistent with the predominant development within the immediate context.		facilities nor overhang outdoor play
Principle 5 – Landscape	Sustainability Pathway. Refer to the ESD report accompanying SSDA. The preschool outdoor area aligns with	Objective: To ensure that the built form, articulation and scale of development relates to its context and buildings are well designed to contribute to an area's character.		Minimize direct overlooking of indo from public areas through: • appropriate site and building layou • suitably locating pathways, windo
	the Child Care Guidelines.	Objective: To ensure that buildings are designed to create safe environments for all users.		permanent screening and landsca
Principle 6 – Amenity The preschool provides indoor and outdoor space to provide a variety of experiences.	outdoor space to provide a variety of experiences.	Objective: To ensure that child care facilities are designed to be accessible by all potential users.		
	Secure access is provided to the preschool.	3.4 Landscaping Objective: To provide landscape design that contributes to the	The proposed preschool is located within the school grounds. Refer Landscape	Objective: To minimize impacts on
Principle 7 – Safety	The preschool provides a welcoming, safe and accessible environment for all users.	streetscape and amenity.	Report prepared by Spackman Mossop Michaels included in SSDA for information regarding the streetscape landscaping.	C22 Minimize direct overlooking of main open spaces in adjoining developme
Part 3 - Matters for Consideration		C18	iunuscuping.	appropriate site and building layo
3.1 Site selection and location Objective: To ensure that appropriate zone considerations are assessed when selecting a site.	maximize security and accessibility, while complying with space requirements.	Appropriate planting should be provided along the boundary integrated with fencing. Screen planting should not be included in calculations of	The preschool playground area includes outdoor area that allow a variety of play	 suitable location of pathways, win landscape design and screening.
Objective: To ensure that the site selected for a proposed child care facility is suitable for the use.		unencumbered outdoor space. Use the existing landscape where feasible to provide a high quality	spaces, materials and surfaces including synthetic turf and softfall - the softscape design will explore options for small	Objective: To minimize the impact of privacy of neighboring residential d
Objective: To ensure that sites for child care facilities are appropriately located.		 Iandscaped area by: reflecting and reinforcing the local context incorporating natural features of the site, such as trees, rocky 	garden shortcuts and tactile/ aromatic plant species. Refer Landscape Report	A new development, or developmen than 50 per cent of the existing floo residential accommodation should: • provide an acoustic fence along an property contains a residential use. solid, gap free fence). • ensure that mechanical plant or ec free material and constructed to rec fence, building, or enclosure.
Objective: To ensure that sites for child care facilities do not incur risks from environmental, health or safety hazards.		outcrops and vegetation communities into landscaping.	prepared by Spackman Mossop Michaels.	
3.2 Local character, streetscape and the public domain interface Objective: To ensure that the child care facility is compatible with the local character and surrounding streetscape.	The Preschool is captured in the New Primary School building envelope. The SSDA Report for the New School demonstrates the building's consideration of local character and streetscape.			



Proposal
There is no onsite carparking proposed for the preschool.
As below.
The preschool is not within a mixed use development.
The preschool is setback 5 meters from Burnside Drive behind secure fencing. Staff areas are located to the north of the preschool minimizing overlooking from Primary School users.
The planting strategy outlined in the SSDA Landscape Report prepared by Spackman Mossop Michaels provides landscape buffers to the outdoor play area.
As below.
The Preschool is located within the New Liverpool Public School site, to the southern end of the building where there are no adjoining developments.
As below.
The Preschool is located within the New Liverpool Public School site, to the southern end of the building where there are no adjoining developments.

CHILDCARE PLANNING GUIDELINE ASSESSMENT

Component	Proposal	Component	Proposal	Component
C24 A suitably qualified acoustic professional should prepare an acoustic report which will cover the following matters: • identify an appropriate noise level for a child care facility located in residential and other zones	Refer to New Liverpool Primary School SSDA Acoustic Report (prepared by others).	C27 Locate child care facilities on sites which avoid or minimize the potential impact of external sources of air pollution such as major roads and industrial development.	The preschool is located adjacent to Burnside Drive which is a private road primarily used for access to Liverpool Hospital to the south of the site.	C31 Off-street car parking should be profacilities specified in a Development land.
 determine an appropriate background noise level for outdoor play areas during times they are proposed to be in use determine the appropriate height of any acoustic fence to enable the noise criteria to be met. 		C28 A suitably qualified air quality professional should prepare an air quality assessment report to demonstrate that proposed child care facilities close to major roads or industrial developments can meet air quality	The preschool is not located adjacent to a major road or in an industrial zone.	C32 In commercial or industrial zones ar street parking may only be consider with adjoining uses, that is, no high
3.6 Noise and air pollution Objective: To ensure that outside noise levels on the facility are minimised to acceptable levels.	As below.	standards in accordance with relevant legislation and guidelines. The air quality assessment report should evaluate design considerations to minimize air pollution such as:		potential conflicts with trucks and la C33 A Traffic and Parking Study should b
C25Adopt design solutions to minimise the impacts of noise, such as:• creating physical separation between buildings and the noise source• orienting the facility perpendicular to the noise source and where possible buffered by other uses• using landscaping to reduce the perception of noise• limiting the number and size of openings facing noise sources• using double or acoustic glazing, acoustic louvres or enclosed balconies (wintergardens)• using materials with mass and/or sound insulation or absorption properties, such as solid balcony balustrades, external screens and soffits• locating cot rooms, sleeping areas and play areas away from external noise sources.	 creating an appropriate separation distance between the facility and the pollution source. The location of play areas, sleeping areas and outdoor areas should be as far as practicable from the major source of air pollution using landscaping to act as a filter for air pollution generated by 		and demonstrate how impacts on an should also address any proposed v demonstrate that:	
	outside of preschool hours. There are residential buildings to the north of the	traffic and industry. Landscaping has the added benefit of improving aesthetics and minimizing visual intrusion from an adjacent roadwayincorporating ventilation design into the design of the facility.		 the amenity of the surrounding are there will be no impacts on the saf road network.
	buffered by the new building. The preschool playground is over 30 meter from a rail corridor to the east, refer to SSDA Acoustic Report for	3.7 Hours of operation Objective: To minimise the impact of the child care facility on the amenity of neighbouring residential developments.	As below.	Objective: To provide vehicle access environment that does not disrupt t
		C29 Hours of operation within areas where the predominant land use is	The preschool is expected to operate Monday to Friday, 8.30am - 3.30pm	C34 Alternate vehicular access should be facilities are on sites fronting:
C26An acoustic report should identify appropriate noise levels for sleeping areas and other non play areas and examine impacts and noise attenuation measures where a child care facility is proposed in any of the following locations: • on industrial zoned land • where the ANEF contour is between 20 and 25, consistent with AS 2021 – 2000 • along a railway or mass transit corridor, as defined by State Environmental Planning Policy (Infrastructure) 2007 • on a major or busy road • other land that is impacted by substantial external noise.Refer to New Liverpool Primary School SSDA Acoustic Report (prepared by others).Objective: To ensure air quality is acceptable where child care facilities are proposed close to external sources of air pollution such as major roads and industrial development.As below.	. ,	uses.	(staff), 9am -3pm (children) during school days, excluding public holidays.	 a classified road roads which carry freight traffic or hazardous materials.
		Within mixed use areas or predominantly commercial areas, the hours of operation for each child care facility should be assessed with respect to its compatibility with adjoining and co-located land uses.		The alternate access must have regative the prevailing traffic conditions • pedestrian and vehicle safety inclu
		3.8 Traffic, parking and pedestrian circulation Objective: To provide parking that satisfies the needs of users and demand generated by the center.	The preschool will be accessed directly from Burnside Drive where there will be a dedicated drop off and pick up zone.	impact of the development on traffi C35 Child care facilities proposed within roads should ensure that safe acces site, and to and from the wider loca
	As below.			Objective: To provide a safe and cor pedestrians both on and around the
		Objective: To provide vehicle access from the street in a safe environment that does not disrupt traffic flows.	As below.	



	Proposal
d be provided at the rates for child care opment Control Plan that applies to the	Refer Traffic Report
cones and mixed use developments, on considered where there are no conflicts no high levels of vehicle movement or ss and large vehicles.	The preschool is not located in commercial or industrial zone or mixed use development. Refer Traffic Report
should be prepared to support the al impacts on the surrounding land uses its on amenity will be minimized. The study posed variations to parking rates and uding area will not be affected a the safe operation of the surrounding	Refer Traffic Report
e access from the street in a safe lisrupt traffic flows.	As below.
nould be provided where child care g: raffic or transport dangerous goods or	The preschool is not located with frontage to a classified road or a road which carries freight traffic or transport of dangerous goods or hazardous material.
ave regard to: ions ty including bicycle movements • the likely on traffic.	
d within cul-de-sacs or narrow lanes or fe access can be provided to and from the der locality in times of emergency.	The preschool is not located within a cul- de-sac or narrow road. Refer Traffic Report
and connected environment for und the site.	As below.

CHILDCARE PLANNING GUIDELINE ASSESSMENT

Component	Proposal	Component	Proposal	Component	Proposal
C36 The following design solutions may be incorporated into a development to help provide a safe pedestrian environment: • separate pedestrian access from the car park to the facility • defined pedestrian crossings included within large car parking areas	The pedestrian path into the preschool is directly off Burnside Drive. With the exception of doors / gates the path of travel is wide enough to accommodate	It is recommended that a child care facility provide: • a minimum of 0.3m3 per child of external storage space • a minimum of 0.2m3 per child of internal storage space.	40 children @ 0.3m ³ = 12m ³ Proposed outdoor storage = 12m ³ 40 Children @ 0.2m ³ = 8m ³ Proposed indoor storage = 18m ³	4.5 Administrative space - Regulation 111 Education and Care Services National Regulations A service must provide adequate area or areas for the purposes of conducting the administrative functions of the service, consulting with parents of children and conducting private conversations.	Office, meeting and foyer spaces have been provided.
 separate pedestrian and vehicle entries from the street for parents, children and visitors pedestrian paths that enable two prams to pass each other delivery and loading areas located away from the main pedestrian access to the building and in clearly designated, separate facilities in commercial or industrial zones and mixed use developments, the path of travel from the car parking to the center entrance physically separated from any truck circulation or parking areas vehicles can enter and leave the site in a forward direction. 	two passing prams.	4.2 Laundry and hygiene facilities - Regulation 106 Education and Care Services National Regulations There must be laundry facilities or access to laundry facilities; or other arrangements for dealing with soiled clothing, nappies and linen, including hygienic facilities for storage prior to their disposal or laundering. The laundry and hygienic facilities must be located and maintained in a way that does not pose a risk to children. Child care facilities must also comply with the requirements for laundry facilities that are contained in the National Construction Code.	Laundry facilities are provided.	 4.6 Nappy change facilities - Regulation 112 Education and Care Services National Regulations Child care facilities must provide for children who wear nappies, including appropriate hygienic facilities for nappy changing and bathing. All nappy changing facilities should be designed and located in an area that prevents unsupervised access by children. Child care facilities must also comply with the requirements for nappy changing and bathing facilities that are contained in the National Construction Code. 	Nappy change facilities are not required as children are aged 3-5 years.
C37 Mixed use developments should include: • driveway access, manoeuvring areas and parking areas for the facility that are separate to parking and manoeuvring areas used by trucks • drop off and pick up zones that are exclusively available for use during the facility's operating hours with spaces clearly marked accordingly, close to the main entrance and preferably at the same floor level. Alternatively, direct access should avoid crossing driveways or manoeuvring areas used by vehicles accessing other parts of the	development.	On site laundry facilities should contain: • a washer or washers capable of dealing with the heavy requirements of the facility • a dryer • laundry sinks • adequate storage for soiled items prior to cleaning • an on site laundry cannot be calculated as usable unencumbered play space	As above, refer floor plans.	4.7 Premises designed to facilitate supervision - Regulation 115 Education and Care Services National Regulations A centre-based service must ensure that the rooms and facilities within the premises (including toilets, nappy change facilities, indoor and outdoor activity rooms and play spaces) are designed to facilitate supervision of children at all times, having regard to the need to maintain their rights and dignity.	All rooms and facilities will provide full and half height glazing appropriately locatedto allow for supervision of children.
site parking that is separate from other uses, located and grouped together and conveniently located near the entrance or access point to the facility.		 4.3 Toilet and hygiene facilities - Regulation 109 Education and Care Services National Regulations A service must ensure that adequate, developmentally and age- appropriate toilet, washing and drying facilities are provided for use by 	The toilet facilities have been designed as	Child care facilities must also comply with any requirements regarding the ability to facilitate supervision that are contained in the National Construction Code.	The proposed preschool design complie with requirements.
C38 Car parking design should: • include a child safe fence to separate car parking areas from the building entrance and play areas • provide clearly marked accessible parking as close as possible to the	There is no onsite carparking proposed for the preschool.	children being educated and cared for by the service; and the location and design of the toilet, washing and drying facilities enable safe use and convenient access by the children. Child care facilities must comply with the requirements for sanitary facilities that are contained in the National Construction Code.	per the requirements of the NCC. An adult hand basin has been provided in each of the children's toilet areas.	97 sets out the detail for what those procedures must cover including:instructions for what must be done in the event of an emergency	that will include an emergency evacuations procedure plan. The proposed preschool is located on Ground level.
primary entrance to the building in accordance with appropriate Australian Standards • include wheelchair and pram accessible parking.		Toilet and hygiene facilities should be designed to maintain the amenity and dignity of the occupants	Partitions between the toilet pans to a maximum of 900mm can be provided. Adequate sightlines have been achieved with the provision of half-height glazing		
Part 4 - Applying the National Regulations to development proposals			between the toilets and the activity room.		
4.1 Indoor space requirements - Regulation 107 - Education and Care Services National Regulations Every child being educated and cared for within a facility must have a minimum of 3.25m2 of unencumbered indoor space. If this requirement is not met, the concurrence of the regulatory authority is required under the SEPP.	40 children @ 3.25m ² = 130m ² (65m ² per activity room) Internal fit out provides for a minimum of 65m ² of unencumbered indoor space per activity room. Refer floor plans.	4.4 Ventilation and natural light - Regulation 110 Education and Care Services National Regulations Services must be well ventilated, have adequate natural light, and be maintained at a temperature that ensures the safety and wellbeing of children. Child care facilities must comply with the light and ventilation and minimum ceiling height requirements of the National Construction Code. Ceiling height requirements may be affected by the capacity of the facility.	Full height glazing between the activity rooms and outdoor play area allow for adequate natural light. The classrooms will also benefit from mechanical ventilation and ceiling fans.		
				An emergency and evacuation plan should be submitted with a DA	Refer to BCA Report.



CHILDCARE PLANNING GUIDELINE ASSESSMENT

Component	Proposal
4.9 Outdoor space requirements - Regulation 108 Education and Care Services National Regulations An education and care service premises must provide for every child being educated and cared for within the facility to have a minimum of 7.0m2 of unencumbered outdoor space.	40 children @ 7.m ² = 280m ² minimum. The total preschool playground area totals 400m ² . Refer to Landscape Report.
If this requirement is not met, the concurrence of the regulatory authority is required under the SEPP.	External play space complies with requirements.
4.10 Natural environment - Regulation 113 Education and Care Services National Regulations The approved provider of a centre-based service must ensure that the outdoor spaces allow children to explore and experience the natural environment. Creating a natural environment to meet this regulation includes the use of natural features such as trees, sand and natural vegetation within the outdoor space.	The preschool playground area includes outdoor area that allow a variety of play spaces, materials and surfaces including synthetic turf and softfall - the softscape design will explore options for small garden shortcuts and tactile/ aromatic plant species. Refer Landscape Report prepared by Spackman Mossop Michaels.
4.11 Shade - Regulation 114 Education and Care Services National Regulations	
The approved provider of a centre-based service must ensure that outdoor spaces include adequate shaded areas to protect children from overexposure to ultraviolet radiation from the sun.	The outdoor play space includes a large shade structure in the outdoor play area. Proposed trees provide additional dappled shade.
Outdoor play areas should: • have year-round solar access to at least 30 per cent of the ground area, with no more than 60 per cent of the outdoor space covered. • provide shade in the form of trees or built shade structures giving protection from ultraviolet radiation to at least 30 per cent of the outdoor play area • have evenly distributed shade structures over different activity spaces.	The preschool can achieve a yearly average of 30 per cent solar access to outdoor play area without taking into consideration the impact of built shade structure required for 30 per cent ultraviolet radiation protection.
4.12 Fencing - Regulation 104 Education and Care Services National Regulations	
Any outdoor space used by children must be enclosed by a fence or barrier that is of a height and design that children preschool age or under cannot go through, over or under it.	1200mm high fence is provided to the outdoor play area, which is enclosed within the school grounds.
Child care facilities must also comply with the requirements for fencing and protection of outdoor play spaces that are contained in the National Construction Code.	The balustrade complies with the NCC.
Design considerations for side and rear boundary fences could include: • being made from solid prefinished metal, timber or masonry • having a minimum height of 1.8 metres • having no rails or elements for climbing higher than 150mm from the ground.	1800mm high fence is provided to the eastern boundary facing Burnside Drive.

Component	Proposal
4.13 Soil assessment - Regulation 25 Education and Care Services National Regulations Subclause (d) of regulation 25 requires an assessment of soil at a proposed site, and in some cases, sites already in use for such purposes as part of an application for service approval. With every service application one of the following is required:	Refer Contamination Assessment for SSDA.
 a soil assessment for the site of the proposed education and care service premises if a soil assessment for the site of the proposed child care facility has previously been undertaken, a statement to that effect specifying when the soil assessment was undertaken a statement made by the applicant that states, to the best of the applicant's knowledge, the site history does not indicate that the site is likely to be contaminated in a way that poses an unacceptable risk to the health of children. 	Refer Contamination Assessment for SSDA.
An assessment of soil for a children's service approval application may require three levels of investigation: • Stage 1 - Preliminary investigation (with or without soil sampling) • Stage 2 - Detailed site investigation • Stage 3 - Site specific human health risk assessment.	



STATE SIGNIFICANT DESIGN REPORT

ENVIRONMENTAL IMPACTS

SOLAR IMPACT

The proposed school has minimal over-shadowing impact on neighbouring properties throughout the year with the majority of shadows contained on the school campus itself.

The school's own field located south of the building captures the bulk of the shadow. On the west there is no additional shadowing on the existing high school buildings, and the train line on the east receives some minor shadowing late in the winter afternoon.







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ENVIRONMENTAL IMPACTS

ACOUSTIC IMPACT

A Noise and Vibration Assessment has been carried out and included in this SSDA submission.

The report provides an assessment of potential noise from excavation, construction and ongoing operation of the school and the potential impacts on surrounding areas, including the Hospital to the south, the residential areas to the north and the neighbouring schools to the west.

VIEW IMPACT

The proposed school results in minimal loss of views from neighbouring buildings.

The apartment buildings along Lauchlan street typically have east and west oriented balconies and living spaces, with minimal views towards the school. There are no buildings directly north of the school

The new school proposes landscaped entry forecourts, gardens and tree plantings, greatly improving the overall appearence and visual amenity of Lachlan street and Burnside dr corner.

A View Impact Assessment of the building form has been caried out and included on page 4 -03 & 4 -04 of this report.

LIGHT SPILL

The lighting strategy for the school will be developed during the detail design phases of the project and will consider the environmental impact of light pollution and glare on the surrounding precinct.

All lighting shall be designed and documented in accordance with AS/NZs1680 and AS/NZs 4282-1997 Control of the obtrusive effects of outdoor lighting.

It is anticipated that the impact of light spill on neighbouring properties will be minimal due to the following:

> - The school faces south east onto the train line which would protect against the majority of the light spill into the northern residential areas

> - Balcony and courtyard lighting are internalised within the footprint of the building.

- School hours and management of the building are to be considered when balancing security and saftey measures

WIND IMPACT

A Wind Assessment has carried out and included in this SSDA submission.





SOUTHERN SUBURBS CLUSTER

VIEW IMPACT ASSESSMENT



EXISTING VIEW FROM HART STREET LOOKING SOUTH



VIEW WITH PROPOSED BUILDING IN PLACE





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PHASE 03 SCHEMATIC DESIGN

VIEW IMPACT ASSESSMENT



EXISTING VIEW FROM LACHLAN STREET LOOKING EAST



VIEW WITH PROPOSED BUILDING IN PLACE







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PHASE 03 SCHEMATIC DESIGN

SUSTAINABILITY

The project seeks to maximise environmental initiatives to reduce the carbon footprint of the Liverpool New Primary School, both during construction and operation.

The project team is committed to exceeding sustainability targets where possible and appropriate. An example of some of the initiatives being explored are listed adjacent.

The project is targeting an equivalent / self-certified 5 Star Green Star rating using the Green Building Council of Australia's (GBCA) Design and As-built rating tool (DAB) version 1.3.

Initiatives will be considered across all Green Star categories including:

- Management •
- Indoor environment quality (IEQ) ٠
- Energy
- Transport
- Water
- Materials ٠
- Land use and ecology •
- Emissions ٠
- Innovation

The key sustainability objectives for the new building include:

- Provision of a comfortable and healthy indoor environment
- Minimisation of non-renewable resource ٠ consumption
- Cost-effectiveness of energy usage over the • building life span
- Reliability and ease of maintenance of the
- building
- Minimisation of waste during the construction and operation of the building
- Identification and appropriate remediation /
- disposal of in-ground hazardous materials



Supporting and encouraging walking / cycling to school





Specify robust, durable and responsibly sourced materials



Access to natural light and ventillation





Interactive landcapes that encourage connection with nature



Rain water retention and reuse on site



Energy generation on site

SOUTHERN SUBURBS CLUSTER

CPTED

OVERVIEW

The Crime Prevention through Environmental Design (CPTED) guidelines under Section 79C of the EP&A Act 1979 are based on key principles for designing buildings and places that are safe, secure and deter criminal behaviour.

These key principles include:

- Surveillance
- Access Control
- Territorial Reinforcement
- Place Management & Maintenance
- Vulnerability

Liverpool New Primary School has adopted the principles of CPTED in developing the design through Masterplan to Schematic Design to establish a safe and secure environment for staff, students, carers, visitors and the community. Details for each of the principles are outlined adjacent:

SURVEILLANCE

Passive surveillance will be encouraged through the incorporation of design features that maximise visibility of users in common areas. The following principles will be adopted and / or addressed to achieve this:

- The building wraps around a central courtyard space, providing unrestricted sight lines between spaces and minimises blind spots.
- Open circulation corridors wrap the internal edge of the building, with visual connection into the courtyard spaces and around the building.
- Open stairs provide visual connection from both the building open courtyard
- Centralizing the Library on L1 provides an equity of access from Homebase areas, minimising distance for students to access.
- Providing opportunities for managed out of hours use, both of areas within the built form and the sports field to the south extending the hours of site activation.
- Providing lighting to ensure safe use and effective surveillance of the space after hours.

ACCESS CONTROL

Access Control delineates spaces open to the public from the main school areas. The design allows for this in the following ways:

- Limiting the number of public entries to the School and securing these outside of drop off / pick up hours.
- Providing a clear Main School Entry on Lachlan Street for visitors to check in through Reception without need to enter the main school area before gaining access to the main school areas.
- Providing a clear After Hours entry on Lachlan Street for OHSC and Community Use which limits access to those facilities approved for out of school hours access.
- Provision for CCTV monitoring of Main School Entry

TERRITORIAL REINFORCEMENT

Territoriality provides social regulation through definition of spaces. This has been addressed on the site in the following ways:

- Clearly defining spaces into public, shared and private school use through physical barriers and appropriate wayfinding.
- Clearly defining entry points
- Ensuring that circulation patterns are clear and do not allow for accidental access to restricted areas
- Reinforcing public areas by introducing amenities such as seating and other elements of activation attracting desired users of the space therefore deterring undesirable activity.
- Appropriate site enclosure strategy using fencing and built form.

PLACE MANAGEMENT AND MAINTENANCE

Maintenance is a reinforcement of ownership of property where as decline in space management and maintenance signifies reduced jurisdiction by the owners of the space and therefore less control in relation to access. The following principles are addressed to achieve this:

- •
- •

VULNERABILITY

The aspect of how vulnerable a person feels in a space will impact on the use of that space limiting its activation and value, this is particularly important for primary aged students and for those effected by cultural, health or immigration issues. The design addresses this in the following ways: Effective lighting of spaces both natural and artificial

- route out of an area.
- space.







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• Fall protection from open circulation areas with fully enclosed mesh

External spaces are designed with robust finishes requiring minimal maintenance Plant areas located off secured corridors

Appropriate enclosure of and clear observation lines to open areas that pose risk to students / public such as plant, loading and staff parking areas.

Provision of clear exit (escape) pathways allowing users of a space the option of more than one

Avoiding blind spots in spaces and ensuring that distance visibility is available to all users of the



SOUTHERN SUBURBS CLUSTER

GANSW & SDRP REVIEW

OVERVIEW

The State Design Review Panel (SDRP) program was established to deliver the principles and ambitions of Better Placed and to provide a consistent, state-wide approach to reviewing the desig quality of State Significant projects.

The Liverpool New Primary team have had the opportunity to present to the Panel on two occasions, once at Concept Design Phase and again recently in the Schematic Design Phase of the project.

Generally, the feedback has been supportive and complimentary of the design approach and work undertaken to date. The project team has welcomed the process and developed the design to take into account commentary provided where possible.

The following is a brief summary of the sessions held and the design response to commentary provided.

		The SDRP was compleme
esign	23.10.19	03.03.21
	SDRP REVIEW 1	SDRP REVIEW 2

The design and approach of the overall Liverpool New Primary Concept Design Plan was well received and supported, in particular:

- Inclusion of space for voids, circulation and building articulation within the block diagrams
- Location of the hall and other shared-use facilities to facilitate community access
- The opportunity for the library to be directly connected to the ground level outdoor space
- Masterplanning to facilitate incorporation of passive design strategies
- · Site permeability, including both east/west and north/south links

Based on the formal feedback from the SDRP, the following items were developed and incorporated into the final SSDA design submission:

- Clear separation between the High School and Primary School sites with appropriate fencing strategy
- · Clear location and expression of entry points creating flexible and inviting places for parents to socialise
- Expansion of opportunities for community use on the site to include playing fields
- Building configuration and Landscape Design which breaks down the scale of open space
- Open space which accommodates different users i.e., Support Unit and PreSchool Students
- Masterplan approach which supports the future vision of the Liverpool Innovation Precinct

- The separation of the High School and Primary School sites through built form • The location and expression of entry points

incorporated into the final SSDA design submission:

- •

- ٠
- •
- natural light to this area.

- Further clarification of outdoor learning areas within the built form and in the landscape. • Further clarification of materiality.
- ٠

- ITEMS FOR FUTURE SDRP REVIEW
- maintained through the very early contractor involvement (VECI) process.
- Further development of design opportunities identified in consultation with the local indigenous community.



The SDRP was complementary of the team's response to the commentary from SDRP 1 and generally supported the further development of the project, in particular: Landscape design considerations

- The proportion of spaces, architectural expression and overall planning, especially the location of the hall and other shared use facilities to facilitate community access.
- Based on the formal feedback from the SDRP, the following items were developed and
- Further detail of the central courtyard space to indicate break down of space using landscape, shade structures and programme.
- Clarification of ground cover materials in the courtyard space
- Planting to the Western boundary separating the High School from the Primary School. · Inclusion of east / west link to support future vision of the Liverpool Innovation Precinct Clear demonstration of fencing strategy and separation of After Hours access.
- Weather protection to open stairs and walkways
- · Further setback of the breezeway and building above the Main Entry to allow more
- Active frontages to the breezeways to support passive surveillance.
- Further development and demonstration of Sun Shading to the Western Facade.
 - Opportunity to reuse water collected on site for irrigation.
- Further demonstration of light and ventilation strategies

Review ahead of Schematic Design completion to ensure the design integrity is

WORKING GROUP ENGAGEMENT

OVERVIEW

Through all phases of the project, we have had the opportunity to meet with a Working Group made up of key staff from neighbouring schools and key members of SINSW's operations team to test design against the functional needs of future users.

The feedback received at these sessions has been invaluable in ensuring the buildings, access, services, layouts and landscape will be fit for purpose.

The adjacent table is the Comments Register developed out of the Schematic Design Working Groups. It tracks feedback and ensures all comments are addressed to the satisfaction of the group or otherwise clarified.

This is a live document which evolves as the project develops.



Торіс	Comment	Response/Action	Status	Topic	Comment
SITE & LANDSCAPE					Homebase FF&E lay
Site Security	Gates to separate main school grounds from Southern field, while allowing after hours access to southern amenities.	Included in latest planning for review. Supported by User Group at User Group 2.	Closed		demonstrating flexib Writing wall details feedback received. E
	Gates to separate community shared facilities from main school to support after hours use. Agree COLA can be accessed through Hall if appropriate.	Included in latest planning for review. Supported by User Group at User Group 2.	Closed		shelves for 30-36 tot lower storage (allow Smart Screen), large for writing and pin b
Site Drainage	Drainage issues on current site should be addressed in Schematic Design	Noted.	Noted.	Library	end. SPUs to open up to l
SCHOOL & COMMUNI	TY USE				use
Amenities	Distribution of Amenities including Staff facilities reviewed and supported	Noted.	Noted.		SPUs to have dual ac library and external
TEACHING & LEARNIN					
Homebase Units	Feedback on planning provided including: - Personal effects storage to be split to front and rear of PAA	Included in latest planning for review. Supported by User Group at User Group 2.	Closed		Group support void below but concerne impact on functiona
	 Preference for Personal effects storage to flip to Homebase walls with central circulation to withdrawal 	Note further design review required on PES / Withdrawal room to close out comments. User Group support current planning, PES to outer walls			Room configuration class groups to use a More consideration and visibility from Li
	 Option to divide Withdrawal Space into 2 smaller areas with sliding or folding doors 	of PAA supports Withdrawal Space division and centralised PAA wet area.		KLA Storage	Request for storage level.
	 More consideration to be given to operable walls, F+P 	Note: loose furniture in Homebases are indicative to demonstrate		ESL Teaching Space	CBRE confirm scope captured in the brief
	suggest sliding for regular use	flexibility of space for different		STAFF & ADMIN	1
	or stacking doors for less frequent use (operationally more cumbersome) - More detail to be given at next User Group to confirm Homebase layout and teaching wall taking into consideration feedback re. student sight lines. More detail to be given at next User Group to confirm homebase storage taking into consideration preference for storage to be consolidated and not obtrusive	teaching styles.		Administration planning NEXT STEPS	Feedback on plannir including: - Flip large int room - Large intervia accommoda table - Copy area to office space, issues. - Sick Bay to a students
	PAA basin to be set lower to Ground Floor Homebases to suit younger students.	Update planning	F+P to review and present	Present ar	nd Review of Administ nd Review Landscape S advise on opportunity



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Architecture is the fine balance between innovative design solutions and the practical importance of fitting buildings to people, the environment and budgets.

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that is independent of the self-conscious style based approach and is more about technical problem solving.

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> Our studio does not limit itself to a particular scale or and building uses, where we believe we can add value to the design and construction process.

Partners: James Fitzpatrick, Paul Reidy, Rod Pindar Principals: Brian Cunningham, Sergio Melo e Azevedo Senior Associates: Emma Bond, Jze Gan, Kiran Jagdev, Joanna Murchison, Liz Need iates: Pei-Lin Cheah, Liz Clarke, Linda Lam, Jessica Rodham, Dina Sunna, Felipe Torres, Quincy Ye

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