SJB Architects

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16 January 2020

SEPP65 Design Statement

5 Powell Street & 17-35 Parramatta Road Homebush NSW

Prepared for

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We create amazing places

At SJB we believe that the future of the city is in generating a rich urban experience through the delivery of density and activity, facilitated by land uses, at various scales, designed for everyone.

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Design Verification Statement

The purpose of this statement is to outline the design rationale and process that was adopted to prepare the application scheme.

1

Design Verification Statement

Prepared to accompany the Development Application submitted to Council

17 December 2019

Project Address: 5 Powell Street & 17-35 Parramatta Road Homebush NSW 2140

Prepared on behalf of: Hyside Projects Subtwo Pty Ltd

Prepared by: SJB Architects NSW

Verification of Qualifications

Nick Hatzi is a registered architect in New South Wales and is enrolled in the Division of Chartered Architects in the register of Architects pursuant to the Architect Act 1921. His registration number is 9380.

Statement of Design

SJB have been responsible for the design of the project since its inception and have worked with related professionals and experts in respect of the matter. The project has been designed to provide a development that is respectful of local planning and design controls and responds to the nine design quality principles of SEPP No. 65.

SJB verify that as required by the Clause 50 (1AB) of the Environmental Planning and Assessment Regulation 2000 the design quality principles set out in Schedule 1, design quality principles of the State Environmental Planning Policy No. 65 – Design Quality of Residential Apartment Development and the objectives in Part 3 and Part 4 of the Apartment Design Guide have been achieved for the proposed development as described in the following document.

Nick Hatzi Director Registered Architect NSW, No. 9380

The following content outlines the architectural scheme against the nine Principles of Design.



2.1 Principle 1: Context and Neighbourhood Character

Good design responds and contributes to its context. Context is the key natural and built features of an area, their relationship and the character they create when combined. It also includes social, economic, health and environmental conditions. Responding to context involves identifying the desirable elements of an area's existing or future character.

Well designed buildings respond to and enhance the qualities and identity of the area including the adjacent sites, streetscape and neighbourhood. Consideration of local context is important for all sites, including sites in established areas, those undergoing change or identified for change.



The site is located on a prominent corner between Parramatta Road and the M4 Motorway. It's immediate context is typified by 2-3 storey retail and commercial buildings, interspersed with low to medium density residential developments up to 8 storeys high.

Onsite, two 8 storey residential buildings (Buildings A and B) have already been completed. At 24 storeys, the proposal will be one of the first developments in the area of a higher density, with several other sites in the area also seeking consideration of increased heights and densities over that permitted by the current controls.

The proposed scheme will respond to the following site context conditions:

- 2. З.

The site has high connectivity to its immediate and surrounding context. It is located within 150m of Homebush Station, while Parramatta Road is a major road with bus stops nearby. Adjacent to the site is Ismay Reserve, a park that offers connectivity to the Bakehouse Quarter and Arnotts Reserve further north.

Ismay Reserve - Functioning as a backdrop to the park, the eastern edge will be activated by retail. Parramatta Road Retail - The scheme will continue

the colonnade of the existing development and retail streetscape.

8 Storey Datum - The podium of the development will reflect the scale of existing and proposed developments on both streets, creating a cohesive streetscape. 4. Parramatta Road and the M4 - The tower of the development will function as a landmark at the fork between Parramatta Road and the M4.







Horse and Jockey Hotel, 70 Parramatta Road



Southern site boundary, showing the existing Stage 1 buildings



Existing Stage 1 along Parramatta Road



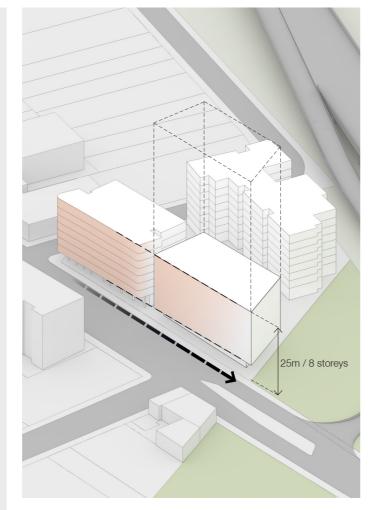
View west along Parramatta Road, away from site

2.2 Principle 2: Built Form and Scale

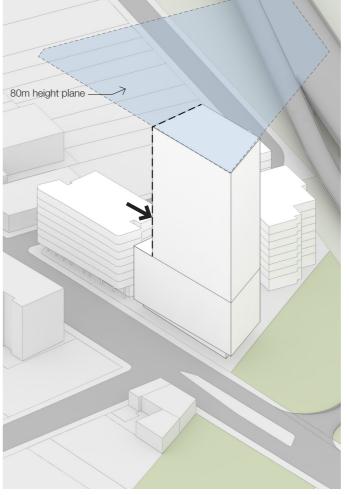
Good design achieves a scale, bulk and height appropriate to the existing or desired future character of the street and surrounding buildings.

Good design also achieves an appropriate built form for a site and the building's purpose in terms of building alignments, proportions, building type, articulation and the manipulation of building elements.

Appropriate built form defines the public domain, contributes to the character of streetscapes and parks, including their views and vistas, and provides internal amenity and outlook.

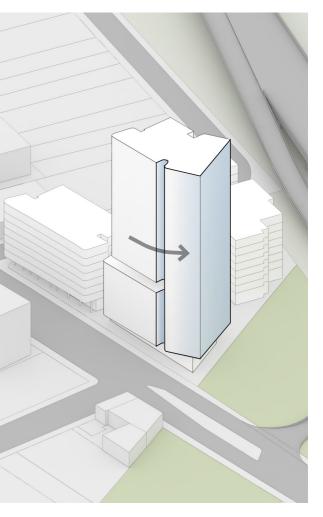


The proposal will respond to the existing built environment in a variety of ways. Firstly 8 storey podium is established that is similar in size to the existing Building B. The ground level set back and colonnade is carried through from Stage 1, resulting in a retail space that activates the ground plane.



A tower element is then introduced for the residential component of the proposal. It is set back from the western edge of the podium up against the eastern boundary, to emphasise the corner and location of site.

The eastern portion of tower is 'split' and oriented east, reducing the perceived bulk of the tower and directing views away from Parramatta Road.



Through these maneuvres, the proposal responds to the existing low to medium density built form of the area while providing a transition to that of the new and future higher density surrounding development.

2.3 Principle 3: Density

Good design achieves a high level of amenity for residents and each apartment, resulting in a density appropriate to the site and its context. Appropriate densities are consistent with the area's existing or projected population. Appropriate densities can be sustained by existing or proposed infrastructure, public transport, access to jobs, community facilities and the environment. The proposal has a floor space ratio of 2.6:1, which contributes to a total site FSR of 4.5:1 and is consistent LEP and council controls.

The number and mix of dwelling types achieves the objectives and goals of the Apartment Design Guidelines, particularly in regards to privacy, orientation, cross flow ventilation and diversity of housing choice

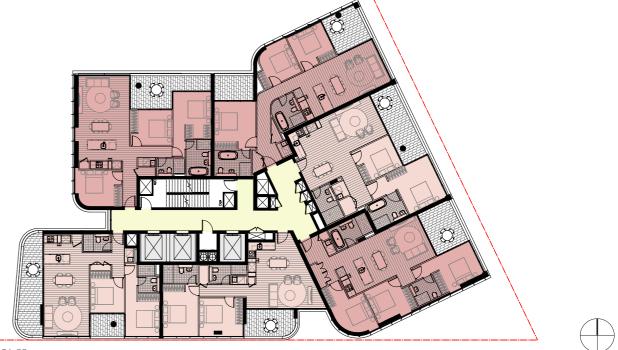
The proposal is well served by public transport, with Parramatta Road a primary connection between Parramatta and the CBD with a number of bus services. It is also within walking distance of Homebush train station, with ferry services to both Parramatta and the CBD. The majority of apartments are provided with a carspace.

Residential Apartment mix:





Floorplan, Level 9-20

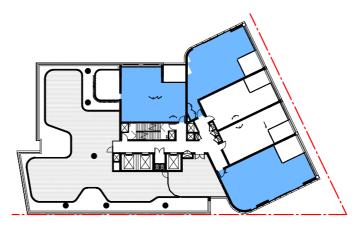


Floorplan, Level 21-23

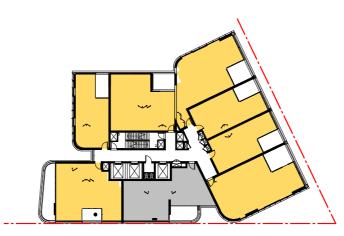
2.4 Principle 4: Sustainability

Good design combines positive environmental, social and economic outcomes. Good sustainable design includes use of natural cross ventilation and sunlight for the amenity and liveability of residents and passive thermal design for ventilation, heating and cooling reducing reliance on technology and operation costs. Other elements include recycling and reuse of materials and waste, use of sustainable materials, and deep soil zones for groundwater recharge and vegetation. The proposal incorporates a number of principles of sustainability:

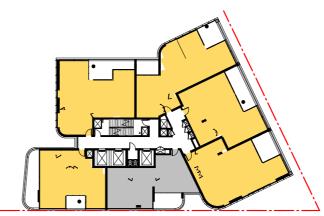
- Maximising direct sun to apartments while utilising overhangs and shading devices to control summer heat gain (87% of residential apartments receive a minimum of 2 hours direct sunlight in mid-winter);
- Natural ventilation to the majority of apartments (60% of residential units in the first 9 levels are cross-ventilated);
- Provision of bicycle parking facilities for visitors and residents;
- A material palette that has longevity, low embodied energy and minimise maintenance;
- Waste management including seperation of household waste by general and recyclables;
- · Energy and water efficient fixtures and appliances;
- · Proximity to public transport and local shops;
- · Compliance with BASIX requirements.



Level 8 60% of residential apartments in the first 9 levels are cross ventilated



Level 9-20



Level 21-24 87% of residential apartments receive 2 hours of sunlight in mid -winter

2.5 Principle 5: Landscape

Good design recognises that together landscape and buildings operate as an integrated and sustainable system, resulting in attractive developments with good amenity. A positive image and contextual fit of well designed developments is achieved by contributing to the landscape character of the streetscape and neighbourhood.

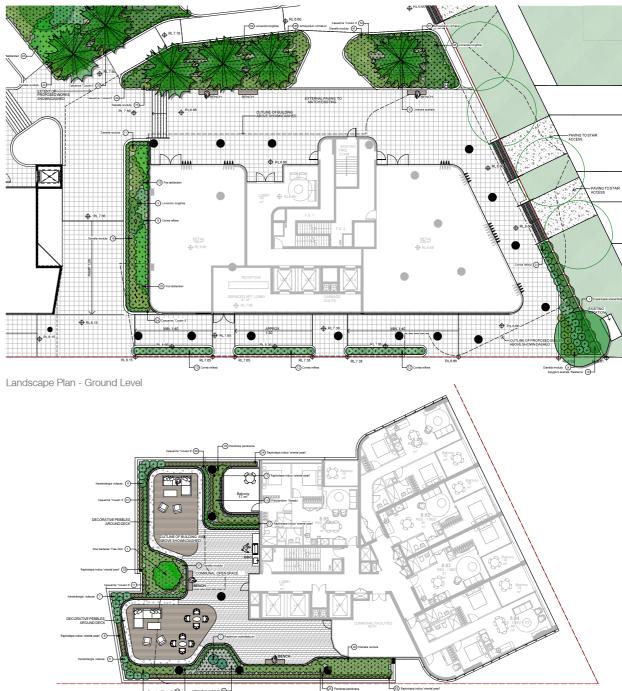
Good landscape design enhances the development's environmental performance by retaining positive natural features which contribute to the local context, co-ordinating water and soil management, solar access, micro-climate, tree canopy, habitat values, and preserving green networks. Good landscape design optimises usability, privacy and opportunities for social interaction, equitable access, respect for neighbours' amenity, provides for practical establishment and long term management.

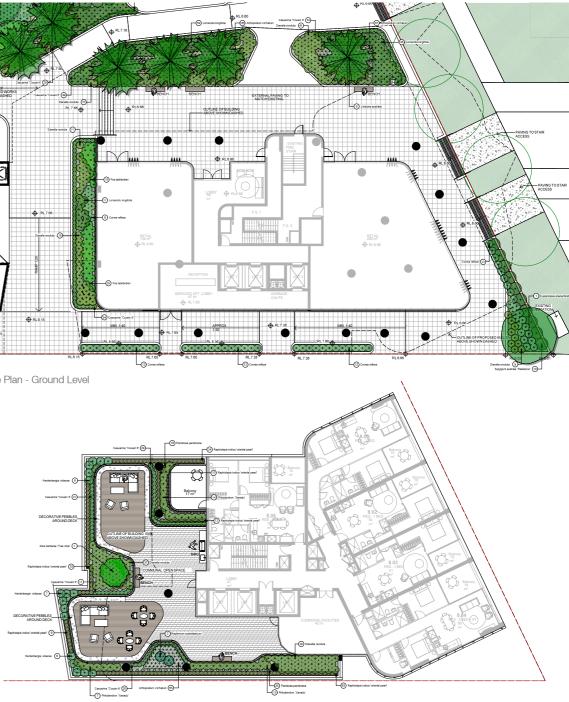
The proposal incorporates landscaping at Ground, Level 8 and roof levels.

At ground level, the public domain is enhanced by both hard and soft landscaping, extending the public domain and Ismay Reserve into the site and providing a visual buffer between the building and Parramatta Road.

On Level 8, the communal open space also consists of hard and soft landscaping. Raised planter beds on the perimeter extend inwards to form alcoves, with seating and areas for communal interaction. Barbecue facilities will also be provided.

On the roof, provision has been made for planting around the perimeter, forming a green edge to the roof.





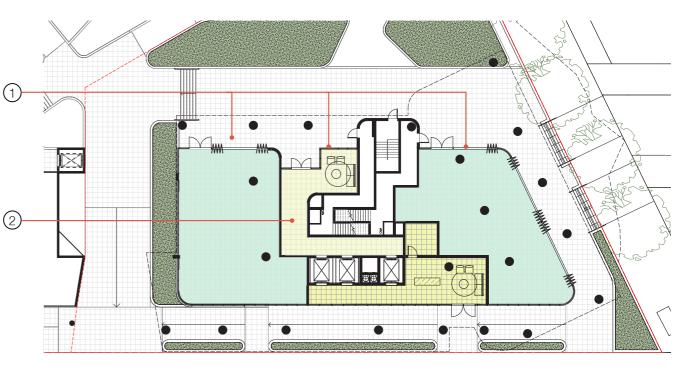
Landscape Plan - Level 8

2.6 Principle 6: Amenity

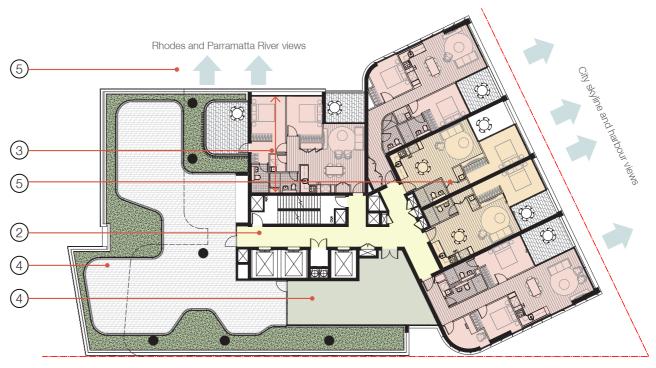
Good design positively influences internal and external amenity for residents and neighbours. Achieving good amenity contributes to positive living environments and resident well being.

Good amenity combines appropriate room dimensions and shapes, access to sunlight, natural ventilation, outlook, visual and acoustic privacy, storage, indoor and outdoor space, efficient layouts and service areas, and ease of access for all age groups and degrees of mobility. Through the development of the scheme design the following issues have been considered:

- 1. The development contributes to the general public amenity at ground floor through the activation of frontages via retail, lobby spaces, access and balcony orientation
- 2. Public spaces within the buildings such as common lobbies at each level are naturally lit
- 3. Apartment depths have been restricted to maintain reasonable access to natural daylight to all rooms.
- 4. Significant communal landscaped spaces and communal facilities have been provided for residents
- 5. Majority of apartments have views directed away from Parramatta Road
- 6. Residential levels are located on upper levels to mitigate noise and pollution from Parramatta Road and the M4
- 7. A maximum of 8 apartments per floor plate



Ground Level



Levels 9-19

2.7 Principle 7: Safety

Good design optimises safety and security, within the development and the public domain. It provides for quality public and private spaces that are clearly defined and fit for the intended purpose. Opportunities to maximise passive surveillance of public and communal areas promote safety.

A positive relationship between public and private spaces is achieved through clearly defined secure access points and well lit and visible areas that are easily maintained and appropriate to the location and purpose.

The safety and security of residential apartment buildings is a function of both the private and public realm. In this regard principles have been established for the interfaces between the public and private domain to ensure that safe and equitables spaces are supported.

The following safety initiatives have been incorporated into the design:

- 1. Principle building entrances are highlighted through the use of building form and articulation of materials, well lit, and allow for passive surveillance.
- Retail tenancies and apartments fronting Parramatta 2. Road, Ismay Reserve and the existing courtyard encourage activity and passive surveillance
- The use of appropriately scaled landscaping and built З. form elements to ensure privacy without creating spaces to hide.
- Car park layouts are designed to minimise opportunities 4. for alcoves. Columns or walls do not obstruct sight lines and the car parks are generally open. Security access in the form of swipe card access will be provided.





View from Ismay Reserve

2.8 Principle 8: Housing Diversity and Social Interaction

Good design achieves a mix of apartment sizes, providing housing choice for different demographics, living needs and household budgets.

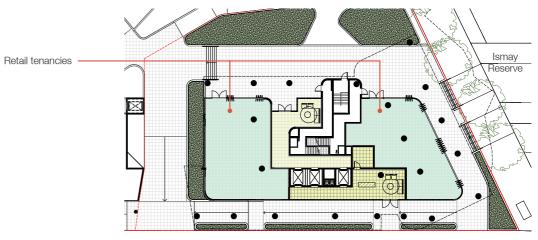
Well designed apartment developments respond to social context by providing housing and facilities to suit the existing and future social mix. Good design involves practical and flexible features, including different types of communal spaces for a broad range of people, providing opportunities for social interaction amongst residents. There will be a diverse range of residential product within the project, as well as facilities to catalyse social interaction and a sense of community. These include:

- · Residents communal facilities on Level 8
- $\cdot\,$ A landscaped communal open space
- $\cdot\,$ A mix of apartment sizes and types:



The project will contribute in this regard within the wider Homebush context by providing:

- · Retail tenancies at ground level
- Housing within walking distance to public amenities and employment
- · Bicycle parking for residents and visitors
- $\cdot\,$ Adaptable housing in accordance with council's controls
- $\cdot\,$ Activation of the building edges facing Ismay Reserve



Floorplan, Ground Level



Floorplan, Level 8



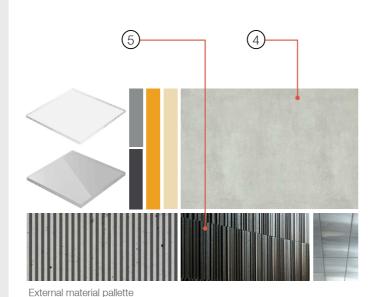
Floorplan, Level 21-23

2.9 Principle 9: Aesthetics

Good design achieves a built form that has good proportions and a balanced composition of elements, reflecting the internal layout and structure. Good design uses a variety of materials, colours and textures.

The visual appearance of well designed apartment development responds to the existing or future local context, particularly desirable elements and repetitions of the streetscape. Massing and detailing is designed to respond to both the emerging character of the area and the existing surrounding context. The following principles have been observed in the design process:

- 1. Subtle hue variations will shift across the tower shading fins, creating a play of light and allowing a change in expression at each aspect. Changes in the sky, season and time of day will be reflected in these facades, forming a backdrop to the public life below.
- 2. A building which is scaled sensibly, incorporating careful articulation of the building form to reduce the perceived bulk of the building
- 3. Landscaping elements at ground, middle and roof levels.
- 4. The use of 'natural' and robust materials such as concrete and glazed tiles which require minimal maintenance, are long lasting and weather naturally,
- 5. The use of darker recessive colours so the building is not 'shouting' to the surrounding context





View from Parramatta Road



The following content outlines the architectural scheme's response to Part 3 & Part 4 of the Apartment Design Guide.



	Objective	Com	Complies			
Objecti No.	e Design criteria Design guidance	Yes	No	Notes		
SITING	THE DEVELOPMENT					
Site Ana	lysis					
3A-1	Site analysis illustrates that design decisions have been based on opportunities and constraints of the site conditions and their relationship to the surrounding context	•				
	Each element in the Site Analysis Checklist should be addressed (see ADG Appendix 1)					
Orienta	ion					
3B – 1	Building types and layouts respond to the streetscape and site while optimising solar access within the development					
	Buildings along the street frontage define the street, by facing it and incorporating direct access from the street (see figure 3B.1)	•				
	Where the street frontage is to the north or south, overshadowing to the south should be minimised and buildings behind the street frontage should be orientated to the east and west (see figure 3B.2)	•		Street frontage along Parramatta Road faces south. There is on		
3B-2	Overshadowing of neighbouring properties is minimised during midwinter					
	Living areas, private open space and communal open space should receive solar access in accordance with sections 3D Communal and public open space and 4A Solar and daylight access	•		No significant impact on solar access to adjacent properties.		
	Solar access to living rooms, balconies and private open spaces of neighbours should be considered	•				
	Where an adjoining property does not currently receive the required hours of solar access, the proposed building ensures solar access to neighbouring properties is not reduced by more than 20%			N/A		
	If the proposal will significantly reduce the solar access of neighbours, building separation should be increased beyond minimums contained in section 3F Visual privacy			N/A		
	Overshadowing should be minimised to the south or downhill by increased upper level setbacks			N/A		
	It is optimal to orientate buildings at 90 degrees to the boundary with neighbouring properties to minimise overshadowing and privacy impacts, particularly where minimum setbacks are used and where buildings are higher than the adjoining development	•				
	A minimum of 4 hours of solar access should be retained to solar collectors on neighbouring buildings	•		Neighbouring houses have the opportunity to receive 4 hours of		
Public I	omain Interface					
3C-1	Transition between private and public domain is achieved without compromising safety and security					
	Terraces, balconies and courtyard apartments should have direct street entry, where appropriate		•	Apartments do not have direct street acccess.		
	Changes in level between private terraces, front gardens and dwelling entries above the street level provide surveillance and improve visual privacy for ground level dwellings (see figure 3C.1)	•				
	Upper level balconies and windows should overlook the public domain	•				
	Front fences and walls along street frontages should use visually permeable materials and treatments. The height of solid fences or walls should be limited to 1m	•				
	Length of solid walls should be limited along street frontages	•				

e is only one building in the proposal.

ours of sunlight to roof spaces

		Objective	Com	omplies		
Part No.	Objective No.	Design criteria Design guidance	Yes	No	Notes	
		Opportunities should be provided for casual interaction between residents and the public domain. Design solutions may include seating at building entries, near letter boxes and in private courtyards adjacent to streets	•			
		In developments with multiple buildings and/or entries, pedestrian entries and spaces associated with individual buildings/entries should be differentiated to improve legibility for residents, using a number of the following design solutions: • architectural detailing • changes in materials • plant species • colours	•			
		Opportunities for people to be concealed should be minimised	•			
	3C-2	Amenity of public domain is retained and enhanced				
		Planting softens the edges of any raised terraces to the street, for example above sub-basement car parking	•			
		Mail boxes should be located in lobbies, perpendicular to the street alignment or integrated into front fences where individual street entries are provided	•			
		The visual prominence of underground car park vents should be minimised and located at a low level where possible				
		Substations, pump rooms, garbage storage areas and other service requirements should be located in basement car parks or out of view	•			
		Ramping for accessibility should be minimised by building entry locations and setting ground floor levels in relation to footpath levels	•			
		Durable, graffiti resistant and easily cleanable materials should be used	•			
		 Where development adjoins public parks, open space or bushland, the design positively addresses this interface and uses a number of the following design solutions: Street access, pedestrian paths and building entries which are clearly defined Paths, low fences and plating that clearly delineate between communal/private open space and the adjoining public open space Minimal use of blank walls, fences and ground level parking 	•		Retail tenancies at ground level open directly onto a raised pla There are no blank walls on the boundary	
3D	Communa	I and public open space				
	3D-1	An adequate area of communal open space is provided to enhance residential amenity and to provide opportunities for landscaping.				
		Communal open space has a minimum area equal to 25% of the site		•	There is an existing courtyard on site.	
		Developments achieve a minimum of 50% direct sunlight to the principal usable part of the communal open space for a minimum of 2 hours between 9 am and 3 pm on 21 June (mid-winter)	•			
		Communal open space should have a minimum dimension of 3m, and larger developments should consider greater dimensions	•			
		Communal open space should be co-located with deep soil areas	•			
		Direct, equitable access should be provided to communal open space areas from common circulation areas, entries and lobbies	•			
		Where communal open space cannot be provided at ground level, it should be provided on a podium or roof	•		A new communal open space is located on Level 8	

platform that overlooks Ismay Reserve.

		Objective		Com	nplies	_	
Part No.	Objective No.	Design criteria Design guidance			Yes	No	Notes
		 Where developments are unable or in a dense urban area, they sh provide communal spaces else provide larger balconies or incl 	nould: ewhere such as a landscaped ro reased private open space for ap	uch as on small lots, sites within business zon of top terrace or a common room partments s and/or provide contributions to public open	es, •		
	3D-2	Communal open space is des attractive and inviting	igned to allow for a range of	activities, respond to site conditions and	be		
		 Facilities are provided within communal open spaces and common spaces for a range of age groups (see also 4F Common circulation and spaces), incorporating some of the following elements: seating for individuals or groups barbecue areas play equipment or play areas swimming pools, gyms, tennis courts or common rooms 					
		The location of facilities responds to microclimate and site conditions with access to sun in winter, shade in summer and shelter from strong winds and down drafts					
		Visual impacts of services should be minimised, including location of ventilation duct outlets from basement car parks, electrical substations and detention tanks			r •		
	3C-3	Communal open space is designed to maximise safety					
			corner windows				
		Communal open space should be well lit					
		Where communal open space/fa	cilities are provided for children a	and young people they are safe and contained	• b		
3E	Deep soil	zones					
	3E-1	Deep soil zones provide areas improve residential amenity a		d support healthy plant tree growth. They water and air quality			
		Deep soil zones are to meet t	he following minimum require	ements.			There is an existing courtyard in Stage 1 of the development
		Site area	Minimum dimensions	Deep soil zone (% of site area)			
		Less than 650m ²	-				
		650m ² -1,500m ²	3m				
		Greater than 1,500m ²	6m	7%			
		Greater than 1,500m ² with significant existing cover	6m				

ent with approximately 480m² of deep soil planting.

		Objective			_	Com	plies	_
Part No.	Objective No.	Design criteria Design guidance			,	Yes	No	Notes
			p provide larger deep soil zones, depe tes with an area of 650m ² –1,500m ² tes greater than 1,500m ²	ending on the site area and context:				N/A
	 Deep soil zones should be located to retain existing significant trees and to allow for the development of healthy root systems, providing anchorage and stability for mature trees. Design solutions may include: basement and sub-basement car park design that is consolidated beneath building footprints use of increased front and side setbacks adequate clearance around trees to ensure long term health co-location with other deep soil areas on adjacent sites to create larger contiguous areas of deep soil 				llthy			N/A
	 Achieving the design criteria may not be possible on some sites including where: The location and building typology have limited or no space for deep soil at ground level (e.g. central business district, constrained sites, high density areas, or in centres) There is 100% site coverage or non-residential uses at ground floor level Where a proposal does not achieve deep soil requirements, acceptable stormwater management should be achieved and alternative forms of planting provided such as on structure 						N/A	
	3F-1	Adequate building separation dis reasonable levels of external and	stances are shared equitably bety d internal visual privacy	ween neighbouring sites, to achi	eve			
		Separation between windows and balconies is provided to ensure visual privacy is achieved. Minimum required separation distances from buildings to the side and rear boundaries are as follows:				•		Separation between Building B and C on the first 8 levels a
		Building Height	Habitable Room and Balconies	Non Habitable				
		Up to 12m (4 storeys)	6m	3m				
		Up to 25m (5-8 storeys)	9m	4.5m				
		Over 25m (9+ storeys)	12m	6m				
		depending on the type of room (see	lings on the same site should combir figure 3F.2) e treated as habitable space when me		es			
		Generally one step in the built form as the height increases due to building separations is desirable. Additional steps should be careful not to cause a 'ziggurat' appearance						
		 For residential buildings next to commercial buildings, separation distances should be measured as follows: for retail, office spaces and commercial balconies use the habitable room distances for service and plant areas use the non-habitable room distances 					•	N/A
		neighbouring buildings. Design solu site layout and building orientation	d and oriented to maximise visual pri tions include: n to minimise privacy impacts (see als ifferent levels have appropriate visual	so section 3B Orientation)		•		
			n increased separation distance of 3n ent to a different zone that permits low increased landscaping (figure 3F.5)				•	N/A

are as per existing DA conditions.

		Objective			_			
Part No.	Objective No.	Design criteria Design guidance	Yes	No	Notes			
		Direct lines of sight should be avoided for windows and balconies across corners	•					
		No separation is required between blank walls	•					
	3F-2	Site and building design elements increase privacy without compromising access to light and air and balance outlook and views from habitable rooms and private open space						
		 Communal open space, common areas and access paths should be separated from private open space and windows to apartments, particularly habitable room windows. Design solutions may include: setbacks solid or partially solid balustrades to balconies at lower levels fencing and/or trees and vegetation to separate spaces screening devices bay windows or pop out windows to provide privacy in one direction and outlook in another raising apartments/private open space above the public domain or communal open space planter boxes incorporated into walls and balustrades to increase visual separation pergolas or shading devices to limit overlooking of lower apartments or private open space on constrained sites where it can be demonstrated that building layout opportunities are limited, fixed louvres or screen panels to windows and/or balconies 	•		Landscaping and screening is provided as a buffer between Level 8.			
		Bedrooms, living spaces and other habitable rooms should be separated from gallery access and other open circulation space by the apartment's service areas	•					
		Balconies and private terraces should be located in front of living rooms to increase internal privacy	•					
		Windows should be offset from the windows of adjacent buildings	•					
		Recessed balconies and/or vertical fins should be used between adjacent balconies	•					
4	DESIGNIN	IG THE BUILDING						
4 A	Solar and	d daylight access						
	4 A –1	To optimise the number of apartments receiving sunlight to habitable rooms, primary windows and private open space						
		1. Living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 2 hours direct sunlight between 9 am and 3 pm at mid-winter in the Sydney Metropolitan Area and in the Newcastle and Wollongong local government areas	•		87% of residential apartments achieve direct sunlight to living			
		2. In all other areas, living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 3 hours direct sunlight between 9 am and 3 pm at mid-winter			N/A			
		3. A maximum of 15% of apartments in a building receive no direct sunlight between 9am and 3pm at mid winter	•		13% of residential apartments receive no direct sunlight in mi			
4B	Natural Ve	ntilation						
	4B–3	The number of apartments with natural cross ventilation is maximised to create a comfortable indoor environment for residents						
		1. At least 60% of apartments are naturally cross ventilated in the first nine storeys of the building. Apartments at ten storeys or greater are deemed to be cross ventilated only if any enclosure of the balconies at these levels allows adequate natural ventilation and cannot be fully enclosed	•		60% of residential apartments achieve cross ventilation in the			

en private open space and communal open space on

ing rooms and private open space in mid winter

mid winter

he first nine levels.

		Objective			Com	plies	_	
Part No.	Objective No.	Design criteria Design guidance			Yes	No	Notes	
		2. Overall depth of a cross-over line to glass line	r or cross-through apartment does not e	exceed 18m, measured glass				
4C	Ceiling hei	ghts						
	4C-1	Ceiling height achieves sufficie	nt natural ventilation and daylight acces	SS				
		Measured from finished floor le	vel to finished ceiling level, minimum ce	eiling heights are:	•		Habitable rooms are 2.7m ceiling height and non-habitable are	
		Minimum ceiling height for apartment and mixed use buildings						
		Habitable rooms	2.7m					
		Non-habitable rooms	2.4m					
		For 2 storey apartments	2.7m for main living area floor 2.4m for second floor, where its apartment area does not exceed 50% of the apartment area					
		Attic spaces	1.8m at edge of room with a 30 people degree minimum ceiling slope	-				
		If located in mixed use areas	3.3m for ground and first floor to promote future flexibility of use					
		These minimums do not preclue	de higher ceilings if desired					
4D	Apartment	size and layout						
	4D-1	The layout of rooms within an a	partment is functional, well organised a	and provides a high standard of				

amenity

amonity				
1. Apartments are require	d to have the following minimum internal a	reas:	•	The apartments have been designed with generous internal ar
Apartment Type	Minimum Internal Area			1 bedroom apartments = 50-52m ² 2 bedroom apartments = 77-91m ²
Studio	35m ²			$3 \text{ bedroom apartments} = 101-102\text{m}^2$
1 bedroom	50m ²			
2 bedroom	70m ²			
3 bedroom	90m ²			
internal area by 5m ² each	as include only one bathroom. Additional t ther additional bedrooms increase the min			
	nust have a window in an external wall with area of the room. Daylight and air may no	-	•	
Kitchens should not be loca space)	red as part of the main circulation space in large	er apartments (such as hallway or entry	•	
A window should be visible t	rom any point in a habitable room		•	

are 2.4m

areas:

		Objective	Com	Complies			
Part No.	Objective No.	Design criteria Design guidance	Yes	No	Notes		
		Where minimum areas or room dimensions are not met apartments need to demonstrate that they are well designed and demonstrate the usability and functionality of the space with realistically scaled furniture layouts and circulation areas. These circumstances would be assessed on their merits			N/A		
	4D-2	Environmental performance of the apartment is maximised					
		1. Habitable room depths are limited to a maximum of 2.5 x the ceiling height	•				
		2. In open plan layouts (where the living, dining and kitchen are combined) the maximum habitable room depth is 8m from a window	•				
		Greater than minimum ceiling heights can allow for proportional increases in room depth up to the permitted maxi-mum depths	•				
		All living areas and bedrooms should be located on the external face of the building	•				
		 Where possible: bathrooms and laundries should have an external openable window main living spaces should be oriented toward the primary outlook and aspect and away from noise sources 	•				
	4D-3						
		1. Master bedrooms have a minimum area of 10m ² and other bedrooms 9m ² (excluding wardrobe space)	•				
		2. Bedrooms have a minimum dimension of 3m (excluding wardrobe space)	•				
		 3. Living rooms or combined living/dining rooms have a minimum width of: 3.6m for studio and 1 bedroom apartments 4m for 2 and 3 bedroom apartments 	•				
		4. The width of cross-over or cross-through apartments are at least 4m internally to avoid deep narrow apartment layouts		•	There are no cross-over or cross through apartments in the		
		Access to bedrooms, bathrooms and laundries is separated from living areas minimising direct openings between living and service areas	•				
		All bedrooms allow a minimum length of 1.5m for robes	•				
		The main bedroom of an apartment or a studio apartment should be provided with a wardrobe of a minimum 1.8m long, 0.6m deep and 2.1m high	•				
		 Apartment layouts allow flexibility over time, design solutions may include: dimensions that facilitate a variety of furniture arrangements and removal spaces for a range of activities and privacy levels between different spaces within the apartment dual master apartments dual key apartments Note: dual key apartments which are separate but on the same title are regarded as two sole occupancy units for the purposes of the Building Code of Australia and for calculating the mix of apartments room sizes and proportions or open plans (rectangular spaces (2:3) are more easily furnished than square spaces (1:1)) efficient planning of circulation by stairs, corridors and through rooms to maximise the amount of usable floor space in rooms 	•		There are no dual apartment or dual key apartments in the p		

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e proposal.

Part No.	Objective No.	Objective Design criteria Design guidance			Com	nplies No	- Notes
4E		ben Space and Balconies			100	110	
	4E-1		ly sized private open space and ba	alconies to enhance residential			
		All apartments are required to h	ave primary balconies as follows:		•		
		Dwelling Type	Minimum Area	Minimum Depth			
		Studio Apartments	4m ²	-			
		1 bedroom apartments	8m ²	2m			
		2 bedroom apartments	10m ²	2m			
		3+ bedroom apartments	12m ²	2.4m			
		The minimum balcony depth to	be counted as contributing to the b	balcony area is 1m			
		For apartments at ground level or on a podium or similar structure, a private open space is provided instead of a bal-cony. It must have a minimum area of 15m ² and a minimum depth of 3m					
		Increased communal open space s	hould be provided where the number (or size of balconies are reduced	•		
		Storage areas on balconies is addit	ional to the minimum balcony size		•		
			10 storeys and above ner noise sources ircraft noise disting buildings operable walls, enclosed wintergarde upants should also be provided in the a	ns or bay windows may be appropriate, apartments or in the development or			N/A
4F	Common	Circulation and Spaces					
	4F-1	Common circulation spaces acl	nieve good amenity and properly se	ervice the number of apartments			
		1. The maximum number of apa	rtments off a circulation core on a	single level is eight	•		
		2. For buildings of 10 storeys ar	nd over, the maximum number of a	partments sharing a single lift is 40		•	N/A
		Greater than minimum requirements for corridor widths and/or ceiling heights allow comfortable movement and access particularly in entry lobbies, outside lifts and at apartment entry doors					The entry corridors are 2.5m wide which is greater than the
		Daylight and natural ventilation sho	uld be provided to all common circulat	ion spaces that are above ground	•	•	Partial compliance Common circulation spaces receive daylight.
		Windows should be provided in co	mmon circulation spaces and should b	be adjacent to the stair or lift core or at	•		
		 Longer corridors greater than 12m a series of foyer areas with windo wider areas at apartment entry d 	ows and spaces for seating	rticulated. Design solutions may include:	•		

he minimum 2m and allows for comfortable entry.

		Objective			Com	nplies	_
Part No.	Objective No.	Design criteria Design guidance			Yes	No	Notes
		Design common circulation spaces apartment buildings and cross over	to maximise opportunities for dual aspect a apartments	apartments, including multiple core	•		
		development is unable to achieve the apartments should be demonstratedsunlight and natural cross ventilation	ion in apartments ural ventilation in common circulation space thering an minimum ceiling heights	common lobbies, corridors and			N/A Design criteria for number of apartments off a circulation core
		Where design criteria 1 is not achiev a single level	red, no more than 12 apartments should b	e provided off a circulation core on			N/A
			dows should not open directly onto comm tic privacy from common circulation space		•		
4G	Storage						
	4G-1	Adequate, well designed storage is provided in each apartment					
		In addition to storage in kitchens	s, bathrooms and bedrooms, the follow	ving storage is provided:	•		
		Dwelling type	Storage size				
		Studio apartments	4m3				
		1 bedroom apart-ments	6m3				
		2 bedroom apart-ments	8m3				
		3 bedroom apart-ments	10m3				
		At least 50% of the required stor	age is to be located within the apartm	ent			
		Storage is accessible from either cire	culation or living areas		•		
		Storage provided on balconies (in ac weather proof and screened from vi	ddition to the minimum balcony size) is inte ew from the street	grated into the balcony design,		•	No storage is provided on balconies.
		Left over space such as under stairs	s is used for storage		•		
	4G–2	Additional storage is convenient	ly located, accessible and nominated f	or individual apartments			
		Storage not located in apartments is	s secure and clearly allocated		•		
		Storage is provided for larger and le	ss frequently accessed items, where pract	cal	•		Storage rooms are located in the basement for larger storage

otorage not located in apartments is seedre and oleany allocated	•	
Storage is provided for larger and less frequently accessed items, where practical	•	Storage rooms are located in the basement for larger storag
Storage space in internal or basement car parks is provided at the rear or side of car spaces or in cages so that allocated car parking remains accessible	•	Storage will not be designed to impede the car parking space
If communal storage rooms are provided they should be accessible from common circulation areas of the building		N/A
Storage not located in an apartment is integrated into the overall building design and not visible from the public domain	•	Additional storage is located in the basement

ore is achieved.

age items

baces.

Part No.	Objective No.	Objective Design criteria Design guidance	Complies		
			Yes	No	Notes
4J	Noise and Pollution				
	4J–1	In noisy or hostile environments the impacts of external noise and pollution are minimised through the careful siting and layout of buildings			
		 To minimise impacts the following design solutions may be used: physical separation between buildings and the noise or pollution source residential uses are located perpendicular to the noise source and where possible buffered by other uses non-residential buildings are sited to be parallel with the noise source to provide a continuous building that shields residential uses and communal open spaces Non-residential uses are located at lower levels vertically separating the residential component from the noise or pollution source. Setbacks to the underside of residential floor levels should increase relative to traffic volumes and other noise sources Buildings should respond to both solar access and noise. Where solar access is away from the noise source, nonhabitable rooms can provide a buffer Where solar access is in the same direction as the noise source, dual aspect apartments with shallow building depths are preferable (see figure 4J.4) Landscape design reduces the perception of noise and acts as a filter for air pollution generated by traffic and industry 	•		Residential apartments are located on upper levels, away from
		 Achieving the design criteria in this Apartment Design Guide may not be possible in some situations due to noise and pollution. Where developments are unable to achieve the design criteria, alternatives may be considered in the following areas: solar and daylight access private open space and balconies natural cross ventilation 	•		
	4J-2	Appropriate noise shielding or attenuation techniques for the building design, construction and choice of materials are used to mitigate noise transmission			
		 Design solutions to mitigate noise include: limiting the number and size of openings facing noise sources providing seals to prevent noise transfer through gaps using double or acoustic glazing, acoustic louvres or enclosed balconies (wintergardens) using materials with mass and/or sound insulation or absorption properties e.g. solid balcony balustrades, external screens and soffits 	•		

from noise and pollution.

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We create spaces people love SJB is passionate about the possibilities of architecture, interiors, urban design and planning. Let's collaborate.

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