

# SEPP 65 Design Verification Statement

Pemulwuy Project, Redfern

State Environmental Planning Policy No.65 - Design Quality of Residential Flat Development, (SEPP 65), which was made on 26 July 2002, applies to this proposal.

The aim of SEPP 65 is to improve the design quality of residential flat development in NSW.

This report should be read in conjunction with the Architectural Drawings provided in the Environmental Assessment Report.

This Report responds to the SEPP 65 Design Quality Principles and the 'Rules of Thumb' contained in the Residential Flat Design Code for the Residential Apartments associated with Precinct 1 and Student Housing Portion of Precinct 3.

### **Design Verification**

I, Stephen Nordon, of Nordon Jago Architects, verify that I contributed to the design of the Residential Apartments And Student Housing within the development, and that the design quality principles set out in Part 2 of SEPP No. 65 - Design Quality of Residential Flat Development are achieved for the redevelopment of the Pemulwuy site.

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Stephen Nordon NSW Registration No. 4704

Date. 22nd August 2012

## DESIGN PRINCIPLES

CC	ONSISTENCY	COMMENTS
PRINCIPLE 1 : CONTEXT		
Good design responds and contributes to its context. Context can be defined as the key natural and built feat of an area. Responding to context involves identifying th		The design responds to the desired future character of this precinct as envisaged by the Major Development SEPP.
desirable elements of a location's current character or, i the case of precincts undergoing a transition, the desire future character as stated in planning and design policie New buildings will thereby contribute to the quality and	d	This planning framework was adopted following an extensive community consultation process which included the local community, relevant public authorities and landowners.
identity of the area.		The proposal represents one of the early elements in the redevelopment in this section of Redfern-Waterloo in accordance with these plans.
		The proposal will not lead to the removal of any natural or landscape features

Yes

Yes

Yes

PRINCIPLE 2 : SCALE

Good design provides an appropriate scale in terms of the bulk and height that suits the scale of the street and the surrounding buildings. Establishing an appropriate scale requires a considered response to the scale of existing development. In precincts undergoing a transition, proposed bulk and height needs to achieve the scale identified for the desired future character of the area. The height, bulk and scale of the development is consistent with the desired future character of the area as expressed in the Major Development SEPP and represents a satisfactory design response to the opportunities and constraints offered by the site and its setting. In particular, the proposal provides a desirable streetscape elements in the various streets which it fronts and an attractive element in this section of Redfern.

## **PRINCIPLE 3 : BUILT FORM**

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

The development will significantly improve the streetscapes in this locality and will provide an interesting and attractive environment.

The built form will provide a desirable level of amenity for the prospective residents of dwellings to be established in the complex

## **PRINCIPLE 4 : DENSITY**

Good design has a density appropriate for a site and its context, in terms of floor space yields (or number of units or residents). Appropriate densities are sustainable and consistent with the existing density in an area or, in precincts undergoing a transition, are consistent with the stated desired future density. Sustainable densities responc to the regional context, availability of infrastructure, public transport, community facilities and environmental quality. The proposed density of the development responds to:

- the desire to increase development densities in this locality to create vitality and encourage the use of public transport;
- the availability of the required utility infrastructure to support the development;
- the site's convenient location relative to public transport facilities, shopping, service and community facilities; and
- the environmental quality of this locality

## PRINCIPLE 5 : RESOURCE, ENERGY + WATER EFFICIENCY

Yes

Yes

Good design makes efficient use of natural resources, energy and water throughout its full life cycle, including construction.

Sustainability is integral to the design process. Aspects include demolition of existing structures, recycling of materials, selection of appropriate and sustainable materials, adaptability and reuse of buildings, layouts and built form, passive solar design principles, efficient appliances and mechanical services, soil zones for vegetation and reuse of water.

The proposal will embrace best practice for resource conservation in the construction of the building.

The design optimises solar access, through flow ventilation and the extent of open space on the site.

The development is to incorporate ecologically sustainable design features in accordance with contemporary building design practice

## **PRINCIPLE 6 : LANDSCAPE**

Good design recognises that together landscape and buildings operate as an integrated and sustainable system, resulting in greater aesthetic quality and amenity for both occupants and the adjoining public domain. Landscape design builds on the existing site's natural and cultural features in responsible and creative ways. It enhances the development's natural environmental performance by coordinating water and soil management, solar access, microclimate, tree canopy and habitat values. It contributes to the positive image and contextual fit of development through respect for streetscape and neighbourhood character, or desired future character. Landscape design should optimise useability, privacy and social opportunity, equitable access and respect for neighbours' amenity, and provide for practical establishment and long term management. The public domain areas surrounding the site are to be improved in accordance with the report and plan prepared by SCAPE, Landscape Architects, to significantly enhance the visual setting of the area.

A landscape plan prepared by SCAPE of private domain areas is to accompany the application.

The proposed landscape design is commensurate with the site's location in the RWA Sites and its setting.

## PRINCIPLE 7 : AMENITY

Good design provides amenity through the physical, spatial Yes and environmental quality of a development. Optimising amenity requires appropriate room dimensions and shapes, access to sunlight, natural ventilation, visual and acoustic privacy, storage, indoor and outdoor space, efficient layouts and service areas, outlook and ease of access for all age groups and degrees of mobility. The design will provide a satisfactory level of amenity for the prospective residents dwellings to be established in the complex with the optimisation of solar access, natural ventilation and privacy throughout the site

## **PRINCIPLE 8 : SAFETY + SECURITY**

Good design optimises safety and security, both internal to the development and for the public domain. This is achieved by maximising overlooking of public and communal spaces while maintaining internal privacy, avoiding dark and non-visible areas, maximising activity on streets, providing clear, safe access points, providing quality public spaces that cater for desired recreational uses, providing lighting appropriate to the location and desired activities, and clear definition between public and private spaces.

The proposal has been designed to optimise safety and security both internally within the development and in the public domain by the casual surveillance that would be available of those areas from dwellings within the development.

This section is addressed in more detail within the Environmental Assessment Report Submitted with the Development Application.

#### **PRINCIPLE 9 : SOCIAL DIMENSIONS AND HOUSING AFFORDABILITY** Yes

Good design responds to the social context and needs of the local community in terms of lifestyles, affordability, and access to social facilities. New developments should optimise the provision of housing to suit the social mix and needs in the neighbourhood or, in the case of precincts undergoing transition, provide for the desired future community.

New developments should address housing affordability by optimising the provision of economic housing choices and providing a mix of housing types to cater for different budgets and housing needs.

The proposal will:

Yes

Yes

- provide affordable housing opportunities for the local ATSI community:
- provide a suitable mix of uses that satisfy the needs of the local ATSI community;
- facilitate the development of the land by the AHC in an economically viable manner;
- ensure that it is fundable and deliverable by the AHC;
- establish an ongoing source of revenue to enable the AHC to maintain and enhance the quality, nature and range of services and facilities it provides to the local community;
- · create employment opportunities during the construction phase of the development; and
- increase residential densities in proximity of services, facilities and public transport.

The proposal will achieve these desirable social outcomes without any adverse environmental impact.

## **PRINCIPLE 10 : AESTHETICS**

Quality aesthetics require the appropriate composition of building elements, textures, materials and colours and reflect the use, internal design and structure of the development. Aesthetics should respond to the environment and context, particularly to desirable elements of the existing streetscape or, in precincts undergoing transition, contribute to the desired future character of the area

Consideration has been given to the interactive role the aesthetics of the building play with the desired future character of Precincts 1, 2 and 3. Significant Architectural features such as column treatments, provision for public art work in the facades, entry canopy's, articulated roof form and a strong colouring with deeply articulated facades have been included to enhance the quality of the street scape with which the building will connect.

Information regarding the composition of building elements, textures, materials and colours have been submitted with the application Photomontages of the proposal are contained within the Environmenta Assessment Report.

## SEPP 65- Residential Flat Design Code 'Rules of Thumb'

## 1.0 PRIMARY DEVELOPMENT CONTROLS

Objectives		The height, bulk and scale of the development is consistent with the
Response to desired Scale + Character	√.	desired future character of the area as expressed in the Major
Daylight Access	$\checkmark$	Development SEPP and represents a satisfactory design response t
Control Checklist		the opportunities and constraints offered by the site and its setting.
Test against height against FSR		This section is addressed in detail within the Environmental
Test height against ceiling heights	$\checkmark$	Assessment Report Submitted with the Development Application.
Building Depth Objectives Bulk is in scale with context	✓	The Residential Apartment floor plate accommodate Six (6) apartments per level with 84% of the Apartments having access to a
Provide light and ventilation	• ✓	dual orientation, providing adequate access to daylight and Ventilation
Provide dual aspect units	~	adai onomation, providing adoquato accoco to adynght and vortilatio
Control Checklist		The Student Housing floor plate accommodate Twenty one (21) units
Resolve depths in plan and elevation	$\checkmark$	an a cross over sectional arrangement. 66% of the Apartments have
Demonstrate daylight + Ventilation above 18m depth		dual orientation. Apartments which have a single aspect have been heavily articulated to promote cross ventilation and provide direct
		access to sunlight.

Objectives		The height, bulk and scale of the development is consistent with the
Appropriate scale & Massing	$\checkmark$	desired future character of the area as expressed in the Major
Visual & acoustic privacy	$\checkmark$	Development SEPP and represents a satisfactory design response
Control overshadowing	$\checkmark$	the opportunities and constraints offered by the site and its setting.
Provision for open space	$\checkmark$	
Provide deep soil zones	$\checkmark$	The proposal incorporates large public open spaces which
Control Checklist		compliments the scale and massing to Precincts 1, 2 & 3.
Test Separation Controls	$\checkmark$	
Daylight Access	$\checkmark$	
Urban Form	$\checkmark$	
Visual & acoustic privacy	✓	

## 1.4 Street Setbacks

Objectives	
Define street edge and proportions	$\checkmark$
Create clear public threshold	$\checkmark$
Apartment privacy from street	$\checkmark$
Quality Entries	$\checkmark$
Street surveillance	$\checkmark$
Accommodate street landscape characte	$\checkmark$
Control Checklist	
Identify Streetscape Character	$\checkmark$
Relate to Street Hierarchy	$\checkmark$
Identify Landscaping	$\checkmark$
Test setback to envelope	$\checkmark$
Test control on facades and massing	$\checkmark$

The setbacks of the development are consistent with the urban fabric

of the area. Increased sightlines have been provided across the

development to connect the public / private open spaces and promote passive surveillance.

1.5 Side + Rear Setbacks Objectives	The Student Housing Units have been set back from the Railway
Minimise amenity impact on Neighbours	corridor to provide a buffer to the development.
Maintain rhythm + pattern	$\checkmark$
Control Checklist	Given the natural orientation of this site there are no impacts on the
Respect existing street patterns	<ul> <li>amenity or overshadowing of neighbouring sites.</li> </ul>
Test open space + planting zones	$\checkmark$
Test overshadowing	$\checkmark$
-	
1.6 Floor Snace Ratio	

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✓ ✓

#### <u>.6 Floor Space Ratio</u> Objectives

Objectives
Ensure optimum capacity
Define density for optimum development
provide opportunities for modulation
Maximise daylight access and ventilation
Allow generous balconies
Control Checklist
FSR to be consistent with height, footprint envelope and
open space
Test lot sizes

The scale of the development is consistent with the desired future character of the area as expressed in the Major Development SEPP and represents a satisfactory design response to the opportunities and constraints offered by the site and its setting.

The development incorporates a good mixture of dwelling types with large Balcony / Terrace areas.

This section is addressed in detail within the Environmental Assessment Report Submitted with the Development Application.

## 2.0 SITE DESIGN

Deep Soil Zones		
Objectives Assist with water table management Assist with water quality Retention of deep planting <i>Rules of Thumb</i> 25% of site to be deep planting	<ul> <li>Residential Apartment</li> <li>equates to 12.7% of</li> <li>Within Precinct 3 priving, Co</li> <li>Student Housing, Co</li> <li>development. In tota for deep planting zor</li> <li>Although these area note that the develop street scape planting</li> </ul>	vate open space has been provided for the mmercial and Gallery elements of the al this area equates to 21% (505sqm) of Precin
2 Fences + Walls		
Objectives	Extensive Landscapi	ing has be proposed across the development t
<i>Objectives</i> Define ownership and function	Extensive Landscapi ✓ both private and pub	ing has be proposed across the development t lic zones to define specific areas of use. A Pu
<i>Objectives</i> Define ownership and function Provide security	Extensive Landscapi ✓ both private and pub ✓ Domain & Landscapi	ing has be proposed across the development t lic zones to define specific areas of use. A Pu ing Report has been provided with the
Objectives Define ownership and function Provide security contribute to public domain	Extensive Landscapi ✓ both private and pub	ing has be proposed across the development t lic zones to define specific areas of use. A Pu ing Report has been provided with the
Objectives Define ownership and function Provide security contribute to public domain	Extensive Landscapi ✓ both private and pub ✓ Domain & Landscapi ✓ Development Applica	ing has be proposed across the development t lic zones to define specific areas of use. A Pu ing Report has been provided with the ation.
Objectives Define ownership and function Provide security contribute to public domain  Landscape Design Objectives	Extensive Landscapi ✓ both private and pub ✓ Domain & Landscapi ✓ Development Applica Extensive Landscapi	ing has be proposed across the development to lic zones to define specific areas of use. A Pu ing Report has been provided with the ation.
Objectives         Define ownership and function         Provide security         contribute to public domain         B Landscape Design         Objectives         Enhance outlook and views	Extensive Landscapi ✓ both private and pub ✓ Domain & Landscapi ✓ Development Applica Extensive Landscapi ✓ both private and pub	ing has be proposed across the development to lic zones to define specific areas of use. A Pu ing Report has been provided with the ation. Ing has be proposed across the development to lic zones. A Public Domain & Landscaping Re
Objectives         Define ownership and function         Provide security         contribute to public domain         B Landscape Design         Objectives         Enhance outlook and views         Provide habitat for native plants and animals	Extensive Landscapi both private and pub Domain & Landscapi Development Applica Extensive Landscapi both private and pub has been provided w	ing has be proposed across the development to lic zones to define specific areas of use. A Pu ing Report has been provided with the ation.
Objectives         Define ownership and function         Provide security         contribute to public domain         B Landscape Design         Objectives         Enhance outlook and views         Provide habitat for native plants and animals         Improve stormwater quality	Extensive Landscapi ✓ both private and pub ✓ Domain & Landscapi ✓ Development Applica Extensive Landscapi ✓ both private and pub	ing has be proposed across the development t lic zones to define specific areas of use. A Pu ing Report has been provided with the ation. Ing has be proposed across the development t lic zones. A Public Domain & Landscaping Re
Objectives         Define ownership and function         Provide security         contribute to public domain         B Landscape Design         Objectives         Enhance outlook and views         Provide habitat for native plants and animals	Extensive Landscapi both private and pub Domain & Landscapi Development Applica Extensive Landscapi both private and pub has been provided w	ing has be proposed across the development to lic zones to define specific areas of use. A Pu ing Report has been provided with the ation.

#### 2.1.4 Open Space

Objectives Provide active and passive recreation areas

		A large communal open space landscaped area has been proposed for the Student Housing Units.
Provide deep planting	$\checkmark$	
Ensure communal space is consolidated	$\checkmark$	
Provide outlook	$\checkmark$	
Rules of Thumb		
Communal open space to be 25 - 30% of site	✓	865sqm of Public Open space has been provided to the front of the Residential Apartment portion of the site defined as Precinct 1. This equates to 12.7% of Precinct 1. It is noted that the majority of this Precinct comprises of Town Houses not associated with this Report. All of the Residential Apartments have large Balcony areas ranging from 15sqm to 22sqm and Terraces areas from 26sqm to 137sqm.

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The Student Housing as been provided with a secure communal open space area of 215sqm located as a landscaped open space buffer to the Railway corridor. Private open space has also been provided for the Commercial and Gallery elements of the development. In total this area equates to 21% (505sqm) of Precinct 3. Given the intended use for the site this slight reduction in the open space is considered acceptable.

Generous private open space in the form of large terraces and balconies are proposed for the Residential Apartments.

Where communal space is unavailable, amenity to private open space to be enhanced Minimum Private space to ground floor apartments

2.1.5 Orientation	
Objectives	The proposed apartments have been located to optimise thermal
Optimise Solar Access	<ul> <li>performance, and to take advantage of the views towards the City</li> </ul>
Contribute to Streetscape character	<ul> <li>Skyline and overlooking the public domain area.</li> </ul>
Support landscape design	$\checkmark$
Protect amenity of existing development	$\checkmark$
Improve Thermal efficiency of building	$\checkmark$
improve memoriency of building	
.1.6 Planting on Structures	
Objectives	Extensive Landscaping has be proposed across the development to
Contribute to amenity	✓ both private and public zones. A Public Domain & Landscaping Rep
Contribute to tree plantings in urban areas	<ul> <li>has been provided with the Development Application.</li> </ul>
Rules of Thumb	
Appropriate soil depths	$\checkmark$
.1.7 Stormwater Management	
Objectives	There are no existing waterways adjoining the site. There is no impa
Minimise impact on waterways	✓ on the existing topography. As each precinct will be fully developed
Preserve existing topography	✓ boundary to boundary, all stormwater will be intercepted by a
Minimise discharge sediment	<ul> <li>✓ stormwater detention system. A Concept Stormwater plan has been</li> </ul>
Minimise discharge sediment	provided with the Development Application.
2.2 SITE AMENITY	
2.1 Safety	
Objectives	All principal living spaces and entrances for both the Residential
Ensure safety of residents and visitors	<ul> <li>Apartments and the Student Housing Units are oriented to both the</li> </ul>
contribute to public domain safety	<ul> <li>primary and secondary street frontages, providing passive surveillar</li> </ul>
Rules of Thumb	for both the public open spaces and streets. The proposal will
Carry our risk assessment	<ul> <li>incorporate well lit routes through the development.</li> </ul>
.2.1 Visual Privacy	
Objectives	All principal living spaces of the Residential Apartments are oriented
Provide privacy	✓ the East and West where they will not affect the amenity of adjoining
Maximise outlook and views	<ul> <li>dwellings and will accommodate the best outlook and views from the</li> </ul>
	site.
Rules of Thumb	
Building separation	$\checkmark$
2.3 SITE ACCESS	
3.1 Building Entry	The Decidential Anastment entry favor connecte directly to a public
Objectives	The Residential Apartment entry foyer connects directly to a public
Create desirable residential entry	<ul> <li>open space fronting Precinct 1 adjacent to Caroline Street. The</li> <li>Open additional floor for a domination of the public state for a state of the public state for a state of the public state of the public</li></ul>
Orient the visitor	<ul> <li>Ground floor facade will interface with the fabric and form of the pub</li> </ul>
contribute positively to the streetscape	✓ open space creating identity and orientation.
	The Student Housing entry connects to Eveleigh street over which a feature canopy structure is proposed with building signage identify t
	entry and contribute to the street scape.
3.2 Parking	
Objectives	A secure private car park is located in the basement area of Precinc
Minimise car dependency	✓ and will not be visible from public domain areas. The Car park is for
Provide adequate parking	✓ the use of the Residential apartments and townhouses only. Provision
Integrate parking with building design	✓ has been made in the basement plan for Residential bicycle storage
	A zone for Student bicycle storage has been provide at the baseme
	A zone for Student bicycle storage has been provide at the mezzanine level of Precinct 1 via a secure access point l

mezzanine level of Precinct 1 via a secure access point located off Eveleigh Street adjacent to the Student Housing Main Entry.

## 2.3.3 Pedestrian Access

Objectives
Promote access point connected to street
Provide equity access to entries
Rules of Thumb
Identify access points
Address AS1428
Barrier free access to 20% of dwellings

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## The principle access to the Residential Apartments connects at grade

✓ to the public open space adjacent to Caroline Street. The path of

travel to the main entry point of all Residential Apartments is barrier
 free via lift access to all levels and paying gradients compatible with

free via lift access to all levels and paving gradients compatible with access requirements.

✓ The principle access to the Student Housing Units connects at grade to Eveleigh Street. The path of travel to the main entry point of all Student Housing Unit is barrier free via lift access to all levels and paving gradients compatible with access requirements.

## 2.3.4 Vehicle Access

The secure access driveway is located off Vine Street from the with the required set backs and sight lines. A Traffic Report has been submitted with the Development Application.

## 3.0 BUILDING DESIGN

## 3.1 BUILDING CONFIGURATION 3.1.1 Apartment Layout Objectives Functional spatial arrangement All Residential Apartments and Student Housing Units are easily furnished, and have clear entrance areas and minimised circulation area. Layout enjoy high amenity All Residential Apartments and Student Housing Units have good outlooks, access to sun and ventilation. maximise environmental performance A BASIX report and energy assessment has been provided with the Development Application. Extensive use of balconies and screening has been made to passively moderate the temperature of the apartments. accommodate a variety of household activities All Residential Apartments and Student Housing Units accommodate a variety of accommodation and will afford privacy between occupants within apartments Rules of Thumb Single aspect units depth limit 84% of the Residential Apartments have dual aspect, either located at corners or articulated to achieve a second orientation. The depth of all units have been limited to achieve adequate daylight penetration. 66% of the Student Housing Units have dual aspect. Where single aspect apartments are proposed heavy articulation of the facade has been provided to enable cross ventilation through the unit. The depth of all units have been limited to achieve adequate daylight penetration. Kitchen location All Kitchens to both the Residential Apartments and Student Housing Units are within 8m from an operable window to satisfy the requirement for naturally ventilating. Crossover dwelling width Access to light + Ventilation Minimum standards listed above are achieved. Apartment Sizes All minimum areas For the Residential Apartments are exceeded. 2 Bed Apartments: 83m<sup>2</sup> min / 109m<sup>2</sup> 3 Bed Apartments: 95m<sup>2</sup> min / 125m<sup>2</sup> Student Housing Units 2 Bed Units: 52sqm 4 Bed Units: 126sqm 6 Bed Units: 179.8sqm 3.1.2 Apartment Mix Objectives A range of apartment types and sizes have been provided to cater for Provide a diversity of apartment type: different household types and maintain the social mix of the area. Equity access apartments The Residential Apartments comprise a mix of 2 and 3 Bed Units. All Apartments have provisions in the design to be adaptable. The Student Housing mix comprises of 2, 4 and 6 bed units. 7% (3 Units), have provisions in the design to be adaptable 3.1.3 Balconies The proposal features extensive terrace / balcony areas from primary

Obiectives

All apartment with private open space living spaces that vary in size ranging from 15sqm to 22sqm, as well as balconies from bedroom in some areas. These balconies contribute functional and responsive balconies to the passive solar design of the building and to the Architectural balconies integrated into architectural form 1 treatment of the building positively articulating the facades and Provide surveillance 1 Rules of Thumb providing a variety of different balustrade treatments and geometries. All apartments are provided with balconies that adjoin living spaces Minimum 2m depth Furnished plan when above not achieved NA and exceed 2 metres in depth.

3.1.4 Ceiling Heights		
Objectives         Increase the sense of space         Promote daylight penetration         Contribute to flexibility         Quality interiors         Rules of Thumb         Minimum Heights         Demonstration if above not achieved	✓ ✓ ✓ ✓ NA	To both the Residential Apartments and Student Housing it is proposed that all apartments / units will have ceiling heights within habitable rooms of 2.5 - 2.7m. Non-habitable rooms will have ceiling heights between 2.3m - 2.4m to allow for service co-ordination. With large glazed openings and generous window proportions proposed for the Residential Units this is considered sufficient in terms of provision of natural light.
3.1.5 Flexibility		
<i>Objectives</i> Range of Occupant needs Promotion of change of use Encourage adaptive re-use Save embodied energy	√ √ √	The building will be constructed from a concrete frame, and light weight walling systems will be used to internally divide the building where acoustic and fire rating are not required. Load bearing walls are not proposed. This construction system will allow the easy re- configuration of all parts of the building and will minimise the embodied energy that is expended in the production of masonry blocks and bricks.
3.1.6 Ground Floor Apartments		
Objectives Contribute to desired streetscape Increase Lifestyle choice <i>Rules of Thumb</i> Separate entries Access to private open space	√ √ √	A secure entry foyer located of an open public space is proposed for al the Residential Apartments. Large Terrace and Balcony areas has been provided off all primary living spaces. Access to the Student Housing Units is via the controlled Reception / common space area. A large open landscaped zone off the GF common area has been provided to the Students.
3.1.7 Internal Circulation		
Objectives Create safe and pleasant lobbies Facilitate dual aspect apartments Contribute to articulation Encourage recognition between occupants <i>Rules of Thumb</i> Maximum units accessed from a lobby	✓ ✓ ✓	Six (6) Residential Apartments are accessed at each level from a double loaded lobby. A generous corridor width with large glazing areas to both ends combined with articulation to the walls has been provided in the lobby area. Twenty one (21) Student Housing Units are access from a single lobby / corridor. A generous corridor width is provided with articulation to the walls around the entry points to promote identification. A large naturally lit circulation core and lift lobby serves one end of the access corridor.
3.1.8 Mixed Use		
<i>Objectives</i> Support integration of retail + commercial activities Activate Streets Preservation of residential amenity	√ √ √	Retail areas and a public Gym hare proposed at ground floor level around the Residential Apartment foyer, providing activation to the public open space adjacent to Caroline Street. Commercial Units and a larger Gallery space are proposed for the Ground floor area of the Student Housing, providing activation to the Pemulwuy Place and along Eveleigh Street.
3.1.9 Storage		
<i>Objectives</i> Provide adequate storage for household items Provide storage for leisure equipment <i>Rules of Thumb</i> Volume requirements	√ √ √	Provisions have been made in the design for basement storage areas that will be available the Residential Apartments. The Student Housing Units have adequate storage located within the individual Units. The provision of these facilities is appropriate given the use.

Objectives		An Acoustic Report is attached to the proposal, demonstrating
Ensure amenity levels	~	acoustic standards will be met.
Daylight Access		
<i>Objectives</i> Daylight access to all habitable rooms	~	Most of the habitable rooms within the Residential Apartments windows with direct access to daylight with the exception of Un 47, 53 and 59
		All habitable rooms to the Student Housing Units have windows direct access to daylight
Vinimise the need for lighting during daylight hours	$\checkmark$	Generous window propotions have been provided to all habitab
Provide control of daylight	~	Sunscreen systems or canopy shading devices are proposed w control of direct Western sunlight is necessary
<i>Rules of Thumb</i> 2-3 Hours sunlight to living rooms at winter solstice	√	84% of the Residential Apartment living rooms have access to a Eastern or Western orientation. 70% of the Development will ac the minimum of three hours of direct access to sun light during Solstice.
		All living rooms within the Student Housing have access to an E or Western orientation. 100% of the Development will achieve t minimum of three hours of direct access to sun light during wint Solstice.
Limit southern access units	√	16% (4no. Units) of the Residential Apartments are limited to a Southern access - These being Units 41, 47, 43 & 59.
Reference to apartment layout provisions	~	All Residential Apartments have been provided with generous volution openings and full height glazing to large external balcony areas
Natural Ventilation		
Objectives		
Provide fresh air to all habitable rooms Promote natural ventilation to non habitable rooms	√ √	All habitable rooms to both the Residential Apartments and Stu Housing have operable windows Most kitchens to both the Residential Apartments and Student Housing are within 8.0m of the window line, satisfying the requi of being naturally ventilated. Bathrooms where possible have be located to achieve naturally ventilation.
		All laundries associated to the Residential Apartments have be located on the balcony's and will achieve natural ventilation.
Reduce energy consumption by minimising use of mechanical ventilation	~	For both the Residential Apartments and Student Housing, pass solar control devices in the form of balconies and/or sun louvers been proposed to minimise dependence on air conditioning.
Rules of Thumb		
Building depth to support natural ventilation 60% cross ventilated 25% kitchens naturally ventilated	√ √ √	84% Residential apartments have been configured to promote oventilation. All Kitchens satisfy the requirement of being natura ventilated.
		66% of the Student Housing Units achieve cross ventilation. We single aspect apartments are proposed heavy articulation of the has been provided to enable cross ventilation through the unit. Kitchens satisfy the requirement of being naturally ventilated.

Objectives	
Provide shelter to streets	<ul><li>A feature awning is proposed to the Entry foyer of the Residential</li><li>✓ Apartments.</li></ul>
Ensure signage is appropriate	✓ An awning is proposed to the Entry area of the Student Housing.
	Signage will be planned and controlled. General building signage be incorporated in the application.
Facades	
Objectives	· · · · · · · · · · · · · · · · · · ·
Promote architectural quality	$\checkmark$
Definition and enhancement of public domain Integration of building elements	* *
Roof Design	
Objectives	The roof form to the Residential Apartment building adopts an
Quality roof design	<ul> <li>asymmetrical pitched rook form to help conceal the roof plant area</li> <li>lift overrun towers. Shadow Line details have been incorporated in</li> </ul>
Integration of roof into façade Weather protection	<ul> <li>Introverrun towers. Shadow Line details have been incorporated</li> <li>the facia treatment to address the facades of the building. The rewill be constructed in the appropriate materials to be durable in the long term.</li> </ul>
BUILDING AMENITY Energy Efficiency	
Objectives	A BASIX report and energy assessment has been provided with t
Reduced mechanical climate control	<ul> <li>✓ Development Application.</li> <li>✓</li> </ul>
Reduction in fossil fuel consumption Minimise greenhouse emissions	<b>↓</b>
Promote renewable energy initiatives	$\checkmark$
Maintenance	
Objectives	Durable materials are proposed that can be easily maintained and
Ensure long life and ease of maintenance	<ul> <li>not prone to rapid deterioration.</li> </ul>
Waste Management Objectives	
Avoid generation of waste	✓ Building materials will been chosen for their long term durability. I
	to the scale of the structure proposed, it is likely to have a very
	extended life time.
Dien fer weste mensenement during and the structure	
Plan for waste management during construction	<ul> <li>A Waste Management plan will be provided for the Development Application detaitaing the methods of handeling the construction waste</li> </ul>
Plan for waste management during construction Encourage waste minimisation and recycling	<ul> <li>Application detaitaing the methods of handeling the construction waste.</li> <li>✓ Provision for recycling of waste produced by the building will be</li> </ul>
	<ul> <li>Application detaitaing the methods of handeling the construction waste.</li> <li>Provision for recycling of waste produced by the building will be included in the proposal.</li> <li>A large garbage room has been provided at the B1 mezzanine level</li> </ul>
Encourage waste minimisation and recycling	<ul> <li>Application detaitaing the methods of handeling the construction waste.</li> <li>Provision for recycling of waste produced by the building will be included in the proposal.</li> <li>A large garbage room has been provided at the B1 mezzanine leven the residential apartment block served by a garbage chute at each which has access to Eveleigh Street for collection and will be</li> </ul>
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Encourage waste minimisation and recycling Efficient storage and collection of waste Water Conservation Objectives	<ul> <li>Application detaitaing the methods of handeling the construction waste.</li> <li>Provision for recycling of waste produced by the building will be included in the proposal.</li> <li>A large garbage room has been provided at the B1 mezzanine leve the residential apartment block served by a garbage chute at each which has access to Eveleigh Street for collection and will be maintained by the Building Manager.</li> <li>The Student Housing garbage area is located at ground floor and</li> </ul>
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