## 309 KING STREET, NEWCASTLE

DESIGN VERIFCATION STATEMENT

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## **PROJECT CONTACT**

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## INTRODUCTION

#### **PROJECT OVERVIEW**

This Verification Statement and Response to the design quality principles has been prepared by FK on behalf of GWH in support of a Development Application for 309 King Street, Newcastle.

This report should be read in conjunction with architectural drawings prepared by FK, the Statement of Environmental Effects prepared by the planners of GWH. Other accompanying documents include Site Survey, BASIX Report prepared by BSA, Traffic Report prepared by Intersect Traffic, WMP prepared by Elephants Foot Recycling Solutions, Landscape Plan prepared by Oculus and Access Report prepared by Lindsay Perry Access.

## HOUSING SEPP (CHAPTER 4) DESIGN VERIFICATION STATEMENT

Rob Mirams is a Registered Architect in New South Wales and a member of the Australian Institute of Architects Registration number is 7272. He is a qualified Architect with extensive experience in the design of residential housing developments of varying scale.

We confirm that Rob Mirams has directed the design of this modified multi - residential development at 309 King Street, Newcastle, and verify he has directed the design of the development for which the original 2017 development was granted. He has worked alongside a professional consultant team to produce a development that is respectful of local planning and design controls.

FK architects verify the modification does not diminish or detract from the original design quality of the original development or compromise the design intent of the original development.

Further to this, FK architects verify that the design quality principles and requirements set out in Chapter 4 of the Housing State Environmental Planning Policy – Design Quality of Residential Apartment Development have been achieved.

Rob Mirams Director Registered Architect NSW, No. 7272

## SITE DESCRIPTION

The subject site comprises of a single lot which is:

Lot 1 (DP 826956) Site area approximately 6 622m<sup>2</sup>.

It is located at 309 King Street and bounded by Ravenshaw Street to the west and Bull Street to the south. The site is triangular with its longest boundary approximately 136m along Bull Street and 103m along King Street. There is a 6m wide public access easement to the east.

The site has a crossfall from Bull Street to King Street of approximately 4m with its high point at the southeastern corner on Bull Street sloping down to the north-west corner on King Street. The precinct is experiencing gradual change in development from older building stock to new developments in keeping with the Council's vision for the future of Newcastle.

The site is located with-in 1 Kilometre of the greater Newcastle CBD.



Aerial image of subject site (highlighted)

## **DESIGN PROPOSAL**

2 free standing residential towers of 15 levels plus 2 in ground basement levels. Tower A consists of a total of 129 residential apartments and Tower B 151 residential apartments with both towers featuring a highly architectural built form, maximizing views, surrounding outlook and solar access to many of the apartments.

The proposed development helps create a vibrant and active new street address along King Street that supports the Council's planning strategy by invigorating this area whilst providing local housing of high quality and amenity. The Development Proposal incorporates:

• Demolition of existing structures and ancillary structures on site.

• 15 storey buildings including 2 levels of below ground carparking.

• Apartments to be split across 2 separate buildings, Tower A comprising of 129 apartments and Tower B comprising of 151 apartments.

Carpark accommodates 372 resident spaces, 8 retail spaces, 2 visitor spaces, 4 DDA visitor spaces, 1 car wash bay, 1 delivery vehicle bay, 23 motorcycle bays and 27 visitor bicycle spaces. All residences are provided with space for bicycle storage.

APARTMENT MIX	N O.
1 BED	34
2 BED	154
3 BED	<mark>92</mark>
TOTAL	<mark>280</mark>



## 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 neighborhood. Consideration of local context is important for all sites, including sites in established areas, those undergoing change or identified for change.

#### PROPOSAL

The proposed residential development includes 280 apartments accommodated in 2 x 15 storey buildings bounded by King Street to the North, Bull Street to the South and the existing Sports Club to the East. Additional street trees have been proposed for Bull Street and part of King Street with existing mature street trees to King Street being retained.

The twin residential tower building design will have identity with both King Street and Bull Street and will activate both street frontages. The design of the built form is a considered pair of residential buildings that responds to the direct context and successfully interacts at street level, with the surrounding amenity and future neighborhood.

The mix of 1-, 2-, and 3- bedroom residential apartments offer a holistic approach to the overall development and will allow for security and surveillance of the communal open space and general streetscape, resulting in a safer urban environment.

## **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.

#### PROPOSAL

The proposed built form is consistent with the envisaged and intended building typology of the greater Newcastle Precinct.

Pedestrian entry is highlighted with an expressed architectural language around the recessed entry points.

The communal facilities have been provided with landscaping, softening the building edges between both towers. Careful consideration of the landscape design was undertaken to ensure no adverse impacts to the future populated public domain.

The scale and bulk of the built form is broken down into 2 buildings, the separation of the 2 buildings uses 'through' access zones as the Communal Open Space and the public open space to the East between Building B and the existing Sports Club. This also creates a dynamic 'in the round' feel and a distinctive overall residential built form.

The proposed development responds positively to the topography and its site constraints. Building A, the westernmost building has its main entry from King Street and a secondary entry via Bull Street due to a 1 level change in height across the site. Building B has its main entry off Bull Street and a retail zone facing King Street – these levels assist in keeping the buildings profiled to the existing site contours and keeping it restrained beneath the height controls.

## 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.

#### PROPOSAL

There is a total of  $\frac{280}{280}$  apartments in the development comprising of  $34 \times 1$ bedroom,  $154 \times 2$ -bedroom and  $\frac{92}{92} \times 3$ bedroom apartments. The density of the development is considered sustainable within the existing and future availability of infrastructure, public transport community, culturally significant facilities, and environmental qualities of the site.

The proposed density and uses within the site are consistent with the planning strategies promoting sustainable growth, physical development and needs of Newcastle. The various communal and recreational facilities on site enhance the livability of the development and proposed density. This includes rooftop and podium level communal open space, public open space to the East and indoor recreational space including recreational activities such as pools and gym. These comprehensive facilities all contribute to the desired future character for the precinct, improving the amenity of the area for residents within the development and the broader community.

## 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 livability 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.

A comprehensive analysis of the building has been undertaken as part of the Basix Assessment however we note the following general inclusions as part of the proposal:

#### PROPOSAL

The development has been designed to embrace ESD principles. The orientation apartment, apartment planning, passive and active building systems have all been incorporated into the planning of the development to minimise energy use, resources and provide a high level of amenity to the residents.

The proposed residential development is separated into 2 Buildings on the site; therefore, articulation and distribution of built form has enabled cornered and dual aspect north facing apartments. Shading to the façades is provided by subtle horizontal ledges and vertical solid elements.

Building materials have been selected for ESD compliance and longevity. A large area of the rooftop to have solar panels. The BASIX Certificate confirms the developments resource, energy, and water efficiency commitments.

## 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, coordinating water and soil management, solar access, microclimate, 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.

#### PROPOSAL

The proposal provides a variety of landscaped areas with a composition of both hardscape and softscape planting providing a hierarchy of communal and private open space. The lower-level apartments have larger private balcony areas with built in planter boxes creating a 'Garden' Apartment feel.

The ground level Communal Open Space provides vast amounts of area dedicated to landscaping, gardens, activity, and contemplation spaces.

Upper level and rooftops also provide for communal open space areas.

## 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 wellbeing.

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.

#### PROPOSAL

The future residents of the development will benefit from a high degree of amenity including the following, a good variety of apartment mix, size, and orientation. Many apartments have access to easy natural ventilation and garden or rooftop amenity.

Within this development a complying portion of apartments are provided that are capable of achieving Silver livable housing requirements. Adequate storage opportunities have been provided within the units plus further storage cages in the carpark. Large balconies provide meaningful outdoor space.

## 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.

#### PROPOSAL

The organisation of the site provides a safe and secure private and public domain with a clear distinction between the two. The entry at ground level provides access via lift and stair to the upper-level apartments. The communal open space is proposed to be gated providing a safe and secure environment.

The surrounding public domain is well surveyed by apartments and communal facilities.

Entry paths will be well lit at night to ensure adequate and safe access to and from the entry foyer and egress stairs.

The proposal will be a secure building with restricted access to lifts and lobbies, controlled entry car parking and communal facilities for residents and guests only.

## PRINCIPLE 8: HOUSING DIVERSITY AND SOCIAL INTERATION

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.

#### PROPOSAL

The proposal provides a mix of 12% 1 bedroom, 55% 2-bedroom and 33% 3-bedroom apartments. Within each apartment type there is also a range of sizes, orientations and balcony or terrace size. The accommodation mix and size of apartments have been determined to appeal to a diverse range of occupant profiles.

20% of apartments are compliant in achieving Silver living requirements. Adequate storage opportunities have been provided within the units plus further storage cages in the carpark. Large balconies provide meaningful outdoor space.

The communal facilities with large, landscaped terrace provide for both formal and inter formal social interaction, as does the provision of the retail tenancies based within the development.

The site is located within proximity to necessary facilities including buses, shops, education, and leisure facilities.

## 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 welldesigned apartment development responds to the existing or future local context, particularly desirable elements, and repetitions of the streetscape.

#### PROPOSAL

The building has been designed to express its own identity and respond to the surrounding Newcastle landscape and direct environmental conclusions.

The 2 buildings have subtle points of difference to create a diverse neighborhood but have a common theme of design, details, and materials to create a wholistic environment. The podium links the 2 towers together with the materials of the 2 towers taken from a shared palette.

The western façade responds to the solar impact, a series of vertical wall panels. Vertical blade louvres also protect the façades from sun but allow more visibility through for western views. The buildings have 15 levels, and the lower 3 podium level apartments have integrated garden beds and larger terraces.

Materials are selected from a natural palette of quality low maintenance materials and the use of a warm palette of colours is intended to unify the building with its immediate context.



## APARTMENT DESIGN GUIDE AND COMPLIANCE TABLE

The following **Housing SEPP Apartment Design Guide Criteria** table outlines the compliance between the new DA Application AND the previously Approved Development Consent. The report is to be read in conjunction with the current Architectural Drawings.

PROPOSED MODIFICATIONS AND CLARIFICATIONS FOR REVISED 4.55 DA APPLICATION

- Revised GFA and FSR calculations\*
- Deep Soil refer to Landscape Consultant drawings\*
- Overshadowing Analysis<sup>\*</sup>
- Apartment Size and Layout\*
- Waste Collection and Servicing\*
- Parking Allocation\*
- Changes to Memorial Walkway design\*\*
- Changes to internal corner apartment in Tower A<sup>\*\*</sup>
- Changes to corridor length and cross ventilation\*\*

\*based on Councils RFI letter dated 6<sup>th</sup> March 2025 \*\*based on UDRP Report dated 29<sup>th</sup> January 2025

**Design Criteria:** shown in grey tone provide the measurable requirements for how an objective can be achieved. **Design Guidance:** provides advice on how the objectives and design criteria can be achieved through appropriate design responses, or in cases where design criteria cannot be met

**N/A**: means this clause is not applicable to this application.

Complies: means this proposal fully complies with the adjacent clause

Capable of compliance: means this proposal is able to comply with the clause, but the fulfilment of such is likely to occur later in the project in future documentation and not at DA stage

Partial compliance: means this proposal complies with the clause in some areas but not in others, detail is then given to explain the non-compliant portion.

Does not comply: means this proposal does not comply with the essential parts of this clause.

# Objective 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 Design Guidance Proposed Design Each element in the Site Analysis Checklist should be addressed Complies See Architectural Plans DA003

Objective 3B-1

Building types and layouts respond to the streetscape and site while optimizing solar access within the development		
Design Guidance	Proposed Design	
Buildings along the street frontage define the street, by facing it and incorporating direct access from the street (see figure 3B.1)	Complies See Architectural Plans DA031&32	
Where the street frontage is to the east or west, rear buildings should be orientated to the north	Complies See Architectural Plans DA031&32	
Where the street frontage is to the north or south, overshadowing to the south should be minimized and buildings behind the street frontage should be orientated to the east and west (see figure 3B.2)	Complies See Architectural Plans DA031&32	

Objective 3B-2 Building types and layouts respond to the streetscape and site while optimizing solar access within the development Overshadowing of neighbouring properties is minimised during mid winter		
Design Guidance	Proposed Design	
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	Complies See Architectural Plans DA560 & DA561	

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Solar access to living rooms, balconies and private open spaces of	Complies See Architectural Plans
neighbours should be considered	DA560 & DA561
Where an adjoining property does not currently receive the required	Complies See Architectural Plans
hours of solar access, the proposed building ensures solar access	DA560 & DA561
to neighbouring properties is not reduced by more than 20%	
If the proposal will significantly reduce the solar access of	Complies See Architectural Plans
neighbours, building separation should be increased beyond	DA560 & DA561
minimums contained in section 3F Visual privacy	
Overshadowing should be minimised to the south or down hill by	Complies See Architectural Plans
increased upper level setbacks	DA560 & DA561
It is optimal to orientate buildings at 90 degrees to the boundary	Complies See Architectural Plans
with neighbouring properties to minimise overshadowing and	DA560 & DA561
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	Complies See Architectural Plans
collectors on neighbouring buildings	DA560 & DA561

Objective 3C-1 Public Domain Interface Transition between private and public domain is achieved without compromising safety and security		
Design Guidance	Proposed Design	
Terraces, balconies and courtyard apartments should have direct street entry, where appropriate	N/A Terraces are on upper levels Street level contains access to retail, residential lobbies and communal open space. No apartments have a direct street frontage.	
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)	Complies	
Upper level balconies and windows should overlook the public domain	Complies	
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	Complies	
Length of solid walls should be limited along street frontages	Complies	
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	Complies – various design opportunities include seating, memorial and through site link	
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	Complies – Plans indicate location of main entries to each building using semi-recessed and covered awning to King Street and grand stairs and entry gates to Bull Street.	
Opportunities for people to be concealed should be minimised	Complies	

Objective 3C-2 Public Domain Interface Amenity of the public domain is retained and enhanced		
Design Guidance	Proposed Design	
Planting softens the edges of any raised terraces to the street, for example above sub-basement car parking	Complies	
Mail boxes should be located in lobbies, perpendicular to the street alignment or integrated into front fences where individual street entries are provided	Complies	
The visual prominence of underground car park vents should be minimised and located at a low level where possible	Capable of compliance – landscape buffers & integrated screening design have been provided to minimize any visual impacts. A low impact sculptural design is proposed with fan rooms located in a below-ground location.	
Substations, pump rooms, garbage storage areas and other service requirements should be located in basement car parks or out of view	<b>Complies</b> Garbage and other service requirements located in basement carparks, substation concealed at ground floor	
Ramping for accessibility should be minimised by building entry location and setting ground floor levels in relation to footpath levels	Complies	
Durable, graffiti resistant and easily cleanable materials should be used	Capable of compliance – drawings do not extend to that level of detail. A honed finished is proposed at ground level columns along public colonnade for the first 3m in height.	
Where development adjoins public parks, open space or bushland, the design positively addresses this interface	N/A	

Complies

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Objective 3D-1 Communal and Public Open Space An adequate area of communal open space is provided to enhance for landscaping	e residential amenity and to provide opportunities
Design Criteria	Proposed Design
Communal open space has a minimum area equal to 25% of the site	$\frac{\text{Complies}}{1,657.75} \text{ Site Area} = 6,631 \text{m}^2 \times 0.25 = 1,657.75 \text{ m}^2 \text{ Required. } \frac{3,526 \text{m}^2}{3,526 \text{m}^2} \text{ provided} - \text{Refer DA524}$
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) <b>Design Guidance</b>	Complies
Communal open space should be consolidated into a well designed, easily identified and usable area	Complies
Communal open space should have a minimum dimension of 3m, and larger developments should consider greater dimensions	Complies
Communal open space should be co-located with deep soil areas.	Partial Compliance – communal open space is located in amongst detailed landscape zones consisting of minimum 600mm deep planter beds with areas of mounded landscaping 0f 600mm to 900mm to support the growth of small trees and large shrubs – Refer to Oculus Landscape Plans L001 Rev B
Direct, equitable access should be provided to communal open space areas from common circulation areas, entries and lobbies	Complies
Where communal open space cannot be provided at ground level, it should be provided on a podium or roof	Complies
Where developments are unable to achieve the design criteria, such as on small lots, sites within business zones, or in a dense urban area, they should	N/A

#### Objective 3D-2 Communal and Public Open Space Communal open space is designed to allow for a range of activities, respond to site conditions and be attractive and inviting

Design Guidance	Proposed Design
Facilities are provided within communal open spaces and common	Complies – Multiple spaces both internal and
spaces for a range of age groups incorporating some of the	external include elements to accommodate a
following elements:	wide range of age groups and will allow for
<ul> <li>Seating for individuals or groups</li> </ul>	active and passive recreational pursuits.
Barbecue areas	
Play equipment or play areas	
Swimming pools, gyms, tennis courts or common rooms	
The location of facilities responds to microclimate and site	Complies – Orientation, shade and shelter
conditions with access to sun in winter, shade in summer and	devices incorporated to design of communal
shelter from strong winds and down drafts	spaces.
Visual impacts of services should be minimised, including location	Capable of compliance – Landscape buffers &
of ventilation duct outlets from basement car parks, electrical	integrated screening design have been
substations and detention tanks	provided to minimise any visual impacts. Other
	services that vent from building façade have
	been designed to be integrated & discrete.

Objective 3D-3 Communal and Public Open Space Communal open space is designed to maximise safety		
Design Guidance	Proposed Design	
Communal open space and the public domain should be readily visible from habitable rooms and private open space areas while maintaining visual privacy.	Complies	
Communal open space should be well lit	<b>Capable of compliance</b> – Drawings do not extend to that level of detail. We would expect that this be included in the DA Conditions of Consent	

**Complies** - balustrades, passive surveillance, security gates and placement of entries contribute to safety and containment

Design Guidance	Proposed Design	
The public open space should be well connected with public streets along at least one edge	Complies – King Street and Bull Street connected via through site link	
The public open space should be connected with nearby parks and other landscape elements	Complies – National Park No.1 Sports ground accessible approx. 250m from site, civic space located approx. 250m from site	
Public open space should be linked through view lines, pedestrian desire paths, termination points and the wider street grid	Complies – Public open spaces can be viewed from streets directly adjacent to the site	
Solar access should be provided year round along with protection from strong winds	<b>Complies</b> – Open spaces have been located in a north south orientation through the length of the site without obstructions. The buildings provide protection from strong SW, EW and NE winds, but also awnings and pergolas.	
Opportunities for a range of recreational activities should be provided for people of all ages	Complies – Multiple spaces for multiple intended uses provided for communal use	
A positive address and active frontages should be provided adjacent to public open space.	<b>Complies</b> – Retail and hospitality frontage activates King Street and communal space/recreation spaces activates Bull Street as well. Public open space directly links King Street and Bull Street.	
Boundaries should be clearly defined between public open space and private areas	<b>Complies</b> – Most private areas all located above street level, the exception of a couple of apartments separated by hard and soft landscaping	

esign Criteria	t healthy plant and tree growth. Proposed Design		
eep soil zones are to meet the following minimum requirements:			Partial Compliance – 25% of the site area achieves large areas of soft landscaping on
Site area	Minimum dimensions	Deep soil zone (% of site area)	Level 1 Podium Communal Open Space and Roof Top Terrace Communal Open Space.
ess than 650m²	-		Balcony planter boxes have NOT been included.
50m² - 1,500m²	3m		
reater than 1,500m <sup>2</sup>	6m	7%	The site achieves 6% Natural Deep Soil, 10%
reater than 1,500m <sup>2</sup> /ith significant xisting tree cover	6m		soil depth between 600 – 900mm <mark>– Refer to</mark> Oculus Landscape Plans L001 Rev B
			Achieving the design criteria may not be possible on some sites including where: • The location and building typology have <b>limited or no</b> <b>space</b> for deep soil at groun level (e.g. central business district, constrained sites, high density areas, or in centres) • There is 100% site coverage or <b>non-residentia</b> <b>uses</b> 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 structu

	This is complemented by Councils DCP that does not require deep soil planting in the City Centre as per 6.01 City Centre A9. Landscaping: <i>Acceptable solutions</i> <i>4. Residential buildings in the city</i> <i>centre do not require</i> the provision of a <i>deep soil zone</i> .
	Refer to Landscape drawings.
Design Guidance	
Achieving the design criteria may not be possible on some sites including where:	
<ul> <li>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 centers)</li> <li>There is 100% site coverage or non-residential uses at ground floor level</li> </ul>	N/A
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

Design Criteria				Proposed Design
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:		<b>Partial Compliance</b> – The proposed building separation is generally in compliance with the requirements of the <i>Apartment Design Guide</i> (ADG), with the following 2 exceptions being		
Building height	Habitable rooms and balconies	Non- habitable rooms		sought: – a reduced setback at King Street of 4.5m for Tower B
up to 12m (4 storeys)	6m	3m		– a reduced separation between balcony 'tips'
up to 25m (5-8 storeys)	9m	4.5m		between Tower A and Tower B of 20. Tower A
over 25m (9+ storeys)	12m	6m		now has sawtooth balconies introduced to match Tower B. The setback between buildings is generally 24.50m exceeding the 24m separation and it should be noted that only 16% of the balcony area is encroaching the air space. The balcony is also directed away to the view in its geometry and materiality.
				Refer to drawings DA101 to DA104 for additional setback dimensions for clarification.

Objective 3F-2 Visual Privacy Site and building design elements increase privacy without compromising access to light and air and balance outloo and views from habitable rooms and private open space		
Design Guidance	Proposed Design	
Communal open space, common areas and access paths should be separated from private open space and windows to apartments, particularly habitable room windows.	<b>Complies</b> – Communal open space and private open spaces and apartments are continually separated by soft and hard landscaping and privacy screens to maintain privacy.	
Bedrooms, living spaces and other habitable rooms should be separated from gallery access and other open circulation space by the apartment's service areas	Complies	
Balconies and private terraces should be located in front of living rooms to increase internal privacy	Complies	
Windows should be offset from the windows of adjacent buildings	N/A – the adjacent building doesn't affect the residential level of the proposed	
Recessed balconies and/or vertical fins should be used between adjacent balconies	Complies	

309 KING STREET, NEWCASTLE Objective 3G-1 Pedestrian Access and Entries Building entries and pedestrian access connects to and addresses the public domain		
Design Guidance	Proposed Design	
Multiple entries (including communal building entries and individual ground floor entries) should be provided to activate the street edge	Complies	
Entry locations relate to the street and subdivision pattern and the existing pedestrian network	Complies	
Building entries should be clearly identifiable and communal entries should be clearly distinguishable from private entries	Complies	
Where street frontage is limited and multiple buildings are located on the site, a primary street address should be provided with clear sight lines and pathways to secondary building entries	N/A – the street frontage of King Street and Bull Street is substantial	

Design Guidance	Proposed Design
Building access areas including lift lobbies, stairwells and hallways should be clearly visible from the public domain and communal spaces	<b>Complies</b> – the proposal complies however the visibility of the lift lobbies and entrances from various points may require assistance through wayfinding signage
The design of ground floors and underground car parks minimise level changes along pathways and entries	Complies
Steps and ramps should be integrated into the overall building and landscape design	Complies
For large developments 'way finding' maps should be provided to assist visitors and residents.	Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development and / or expected to be included in the DA Conditions of Consent
For large developments electronic access and audio/video intercom should be provided to manage access	Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development and / or expected to be included in the DA Conditions of Consent

Objective 3G-3 Pedestrian Access and Entries Large sites provide pedestrian links for access to streets and connection to destinations		
Design Guidance	Proposed Design	
Pedestrian links through sites facilitate direct connections to open space, main streets, centres and public transport	Complies	
Pedestrian links should be direct, have clear sight lines, be overlooked by habitable rooms or private open spaces of dwellings, be well lit and contain active uses, where appropriate	Complies	

Design Guidance	Proposed Design
Car park access should be integrated with the building's overall facade.	Complies
Car park entries should be located behind the building line	Complies
Vehicle entries should be located at the lowest point of the site minimising ramp lengths, excavation and impacts on the building form and layout	Complies
Car park entry and access should be located on secondary streets or lanes where available	Complies – Drop off/pick up zones accessible King Street and Bull Street
Vehicle standing areas that increase driveway width and encroach into setbacks should be avoided	Complies
Access point locations should avoid headlight glare to habitable rooms	Complies
Adequate separation distances should be provided between vehicle entries and street intersections	Complies

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The width and number of vehicle access points should be limited to the minimum	Complies – minimised to one lane in and one lane out
Visual impact of long driveways should be minimised through changing alignments and screen planting	N/A
The need for large vehicles to enter or turn around within the site should be avoided	Complies – Waste collection is via Bull Street. There is no requirement for large vehicles to enter the basement car park.
Garbage collection, loading and servicing areas are screened	Complies – Waste collection is via Bull Street. Storage and servicing areas are located in the ground floor carpark. Waste collection will be managed, and bins will be kept in an enclosed bin holding room off Bull Street.
Clear sight lines should be provided at pedestrian and vehicle crossings	Complies
Traffic calming devices such as changes in paving material or textures should be used where appropriate	Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development and / or expected to be included in the DA Conditions of Consent
Pedestrian and vehicle access should be separated and distinguishable.	Complies

## Objective 3J-1 Bicycle and Car Parking

Car parking is provided based on proximity to public transport in metropolitan Sydney and centres in regional areas		
Design Criteria	Proposed Design	
For development on land zoned, and sites within 400 metres of land zoned, B3 Commercial Core, B4 Mixed Use or equivalent in a nominated regional centre the minimum car parking requirement for residents and visitors is set out in the Guide to Traffic Generating Developments, or the car parking requirement prescribed by the relevant council, whichever is less The car parking needs for a development must be provided off street	Complies – Refer to Traffic Report accompanying this DA Application.	
Where a car share scheme operates locally, provide car share parking spaces within the development. Car share spaces, when provided, should be on site	<b>Capable of compliance</b> – Space is available if such a scheme is required.	
Where less car parking is provided in a development, council should not provide on street resident parking permits	N/A	

Design Guidance	Proposed Design
Conveniently located and sufficient numbers of parking spaces should be provided for motorbikes and scooters	Complies – Refer to Traffic Report accompanying this DA Application.
Secure undercover bicycle parking should be provided that is easily accessible from both the public domain and common areas	Complies – Refer to Traffic Report accompanying this DA Application.
Conveniently located charging stations are provided for electric vehicles, where desirable	<b>Complies</b> – Ground Floor Parking will be provided with EV charging points and Basements 1, 2 and Level 1 will also be fitted with the provision of future EV points with all EV outlets being metered to each relevant apartment. Details would be included in the Construction Certificate Phase of the Development

Objective 3J-3 Bicycle and Car Parking Car park design and access is safe and secure		
Design Guidance	Proposed Design	
Supporting facilities within car parks, including garbage, plant and switch rooms, storage areas and car wash bays can be accessed without crossing car parking spaces	Complies	
Direct, clearly visible, and well-lit access should be provided into common circulation areas	<b>Capable of compliance</b> – Drawings do not extend to that level of detail, as the lighting plan has yet to be finalised	
A clearly defined and visible lobby or waiting area should be provided to lifts and stairs	Complies	

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For larger car parks, safe pedestrian access should be clearly	Capable of
defined, and circulation areas have good lighting, colour, line	extend to th
marking and/or bollards	has yet to b

Capable of compliance – Drawings do not extend to that level of detail, as the lighting plan has yet to be finalized. Details would be included in the Construction Certificate Phase of the Development and / or expected to be included in the DA Conditions of Consent

Design Guidance	Proposed Design
Excavation should be minimised through efficient car park layouts and ramp design	Partial Compliance – Excavation is required for Basement 1 & 2, and part of Ground Floor. The car parking layout has been designed to ensure that aisles serve multiple rows of parking spaces and other uses to ensure efficiency and thus minimizing excavation. A small amount of parking is also located on Level 1 to minimise excavation.
Car parking layout should be well organised, using a logical, efficient structural grid and double loaded aisles.	Capable of compliance – As provided in the intersect Traffic Impact Assessment, the car parking arrangements are Capable of compliance with AS2890.1 – parking Facilities
Protrusion of car parks should not exceed 1m above ground level. Design solutions may include stepping car park levels or using split levels on sloping sites	Partial Compliance – Slope of land on site allows carparking to be located behind the retail frontage on King Street and not visible from Bull Street
Natural ventilation should be provided to basement and sub basement car parking areas	Capable of compliance – Drawings do not extend to that level of detail
Ventilation grills or screening devices for car parking openings should be integrated into the facade and landscape design	Capable of compliance – Drawings do not extend to that level of detail

Objective 3J-5 Bicycle and Car Parking Visual and environmental impacts of on-grade car parking are minimised		
Design Guidance	Proposed Design	
On-grade car parking should be avoided	Complies	
Where on-grade car parking is unavoidable, the following design solutions are used:	N/A	

Objective 3J-6 Bicycle and Car Parking Visual and environmental impacts of above ground enclosed car parking are minimised		
Design Guidance	Proposed Design	
Exposed parking should not be located along primary street frontages	N/A	
Screening, landscaping and other design elements including public art should be used to integrate the above ground car parking with the facade:	N/A	
Positive street address and active frontages should be provided at ground level	Complies	

Objective 4A-1 Solar and daylight access

To optimise the number of apartments receiving sunlight to habitable rooms, primary windows and private open space		
Design Criteria	Proposed Design	
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.	Partial Compliance – Tower A achieves 71% of apartments with >2 hours solar access, 1% <2 hours solar access and 28% with no direct solar access. Tower B achieves 68% of apartments with > 2 hours solar access, 26% <2 hours solar access and 7% with no direct solar access.	
	The total Solar calculation: 69% >2 hours, 14% <2 hours and 17% no direct solar access is a positive result.	

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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.	Partial Compliance - The development does however have a minor non-compliance with Tower A south-east corner apartment and Tower B south-west corner apartment not receiving direct solar access.
A maximum of 15% of apartments in a building receive no direct sunlight between 9 am and 3 pm at mid-winter.	<b>Does not comply</b> - 17% receive no direct sunlight between 9 am and 3 pm at mid-winter
Design Guidance	Proposed Design
The design maximises north aspect and the number of single aspect south facing apartments is minimised	Partial Compliance – The residential tower shape and orientation north south to maximise the northern aspect, has only one out of four facade facing south.
Single aspect, single storey apartments should have a northerly or easterly aspect	Partial Compliance – Out of the 281 single aspect apartments, 184 Apartments have a northerly or easterly aspect. 91 apartments have a Southerly or Westerly aspect.
Living areas are best located to the north and service areas to the south and west of apartments	Where possible, living areas are located to the north and service areas to the south and west of apartments
<ul> <li>To optimise the direct sunlight to habitable rooms and balconies a number of the following design features are used</li> <li>dual aspect apartments</li> <li>shallow apartment layouts</li> <li>two storey and mezzanine level apartments</li> <li>bay windows</li> </ul>	Complies
To maximise the benefit to residents of direct sunlight within living rooms and private open spaces, a minimum of 1m2 of direct sunlight, measured at 1m above floor level, is achieved for at least 15 minutes	Complies
Achieving the design criteria may not be possible on some sites.	Note - Regarding the solar access the design development process has sought to maximize the number of units with northerly or easterly aspect. Whilst a percentage of units face south, this is felt appropriate to ensure the development presents appropriately to Bull Street, situated to the south of the site. Additionally, those residential units with southerly aspect will benefits from district views and at upper levels will include views of iconic surf beach Merewether.

Objective 4A-2 Solar and daylight access Daylight access is maximised where sunlight is limited		
Design Guidance	Proposed Design	
Courtyards, skylights and high level windows (with sills of 1500mm or greater) are used only as a secondary light source in habitable rooms	<b>Complies -</b> Habitable rooms all have glazing with sill heights lower than 1500mm.	
Where courtyards are used :	N/A	
<ul> <li>Opportunities for reflected light into apartments are optimised through:</li> <li>reflective exterior surfaces on buildings opposite south facing windows</li> <li>positioning windows to face other buildings or surfaces (on</li> </ul>	Capable of compliance – drawings do not extend to that level of detail	
neighbouring sites or within the site) that will reflect light <ul> <li>integrating light shelves into the design</li> <li>light coloured internal finishes</li> </ul>		

Objective 4A-3 Solar and daylight access Design incorporates shading and glare control, particularly for warmer months		
Design Guidance	Proposed Design	
<ul> <li>A number of the following design features are used:</li> <li>balconies or sun shading that extend far enough to shade summer sun, but allow winter sun to penetrate living areas</li> <li>shading devices such as eaves, awnings, balconies, pergolas, external louvres and planting</li> <li>horizontal shading to north facing windows</li> <li>vertical shading to east and particularly west facing windows</li> <li>operable shading to allow adjustment and choice</li> </ul>	Complies Note: Glass specifications yet to be determined	

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<ul> <li>high performance glass that minimises external glare off</li> </ul>	
windows, with consideration given to reduced tint glass or glass	
with a reflectance level below 20% (reflective films are avoided)	

Design Guidance	Proposed Design
The building's orientation maximises capture and use of prevailing breezes for natural ventilation in habitable rooms	Complies
Depths of habitable rooms support natural ventilation	Complies
The area of unobstructed window openings should be equal to at least 5% of the floor area served	Capable of compliance – drawings do not extend to that level of detail
Light wells are not the primary air source for habitable rooms	Complies
Doors and openable windows maximise natural ventilation opportunities	Complies – Balconies and winter garden doors maximise natural ventilation opportunities.
Objective 4B-2 Natural Ventilation The layout and design of single aspect apartments maxir	nises natural ventilation
Design Guidance	Proposed Design
Apartment depths are limited to maximise ventilation and airflow	Complies

Apartment depths are limited to maximise ventilation and airflow	Complies
Natural ventilation to single aspect apartments is achieved with the	Complies
following design solutions:	
courtyards or building indentations have a width to depth ratio of	
2:1 or 3:1 to ensure effective air circulation and avoid trapped	
smells	

## Objective 4B-3 Natural Ventilation

The number of apartments with natural cross ventilation is maximised to create a comfortable indoor environment for residents		
Design Criteria	Proposed Design	
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.	Complies – 57% (101 out of 178 apartments from level 1 – 9) are naturally cross – ventilated. Tower A achieves 50% naturally ventilated and Tower B achieves 63% naturally ventilated apartments.	
Overall depth of a cross-over or cross-through apartment does not exceed 18m, measured glass line to glass line	Complies	
The building should include dual aspect apartments, cross through apartments and corner apartments and limit apartment depths	Complies	
In cross-through apartments external window and door opening sizes/areas on one side of an apartment (inlet side) are approximately equal to the external window and door opening sizes/areas on the other side of the apartment (outlet side)	N/A	
Apartments are designed to minimise the number of corners, doors and rooms that might obstruct airflow	Complies – Fairly open apartment design	
Apartment depths, combined with appropriate ceiling heights, maximise cross ventilation and airflow	Complies	

Objective 4C-1 Ceiling Heights Ceiling height achieves sufficient natural ventilation and daylight access			
Design Criteri		, <u>,</u>	Proposed Design
Measured from		ished ceiling level, minimum	Complies – Habitable Rooms Complies – Non-habitable Rooms
Minimum ceiling for apartment and r	height nixed use buildings		N/A – (No two storey apartments) N/A – (No Attic spaces)
Habitable rooms	2.7m		Partial Compliance – The Ground Floor of Tower
Non-habitable	2.4m		A achieves a 2.7m to 3.3m Floor to Ceiling height allowing for a 500mm services zone over
For 2 storey apartments	2.7m for main living area floor 2.4m for second floor, where its area does not exceed 50% of the apartment area		and the remaining residential levels of Tower A achieves $3.2m$ floor to floor = $2.7m$ Floor to Ceiling.
Attic spaces	1.8m at edge of room with a 30 degree minimum ceiling slope		Similarly, the Ground Floor of Tower B retail
If located in mixed used areas	3.3m for ground and first floor to promote future flexibility of use		area achieves a 2.7m to 3.0m Floor to Ceiling height allowing for a 500mm services zone over and the remaining residential levels of Tower B

	achieves 3.2m floor to floor = 2.7m Floor to Ceiling. It should be noted that additional areas can achieve 3.3m in zones that do not have any services above.
Design Guidance	
Ceiling height can accommodate use of ceiling fans for cooling and heat distribution	<b>Complies</b> – All apartments meet the minimum 2.7m ceiling height, and can therefore accommodate ceiling fans.

Objective 4C-2 Ceiling Heights Ceiling height increases the sense of space in apartments and provides for well-proportioned rooms		
Design Guidance Proposed Design		
A number of the following design solutions can be used:	Complies – 3.2m floor to floor distances will allow flexibility in ceiling heights.	

Objective 4C-3 Ceiling Heights Ceiling height increases the sense of space in apartments and provides for well-proportioned rooms		
Design Guidance	Proposed Design	
Ceiling heights of lower level apartments in centres should be greater than the minimum required by the design criteria allowing flexibility and conversion to non-residential uses	Partial Compliance – Proposed ceiling heights are as follows: Tower A = 2.7 m Tower B = 2.7 m	

esign Criteria		Proposed Design
partments are requi reas:	ired to have the following minin	internal
Apartment type	Minimum internal area	
Studio	35m²	N/A
1 bedroom	50m <sup>2</sup>	Complies Complies
2 bedroom	70m <sup>2</sup>	Complies
3 bedroom	90m <sup>2</sup>	
oathrooms increase	al areas include only one bathro the minimum internal area by 5 d further additional bedrooms i	each.
aathrooms increase A fourth bedroom an ninimum internal are Every habitable room	the minimum internal area by 5 d further additional bedrooms i a by 12m2 each n must have a window in an ext	each. ase the I wall with a Complies
athrooms increase fourth bedroom an ninimum internal are very habitable room otal minimum glass	the minimum internal area by 5 d further additional bedrooms in a by 12m2 each n must have a window in an ext area of not less than 10% of th	each. ase the I wall with a Complies or area of
athrooms increase fourth bedroom an ninimum internal are very habitable room ptal minimum glass he room. Daylight ar	the minimum internal area by 5 d further additional bedrooms i a by 12m2 each n must have a window in an ext	each. ase the I wall with a Complies or area of
athrooms increase fourth bedroom an ninimum internal are very habitable room otal minimum glass ne room. Daylight ar Design Guidance itchens should not	the minimum internal area by 5 d further additional bedrooms in a by 12m2 each n must have a window in an ext area of not less than 10% of th	each. ase the I wall with a for area of her rooms Ilation Complies
athrooms increase A fourth bedroom an ninimum internal are Every habitable room otal minimum glass he room. Daylight ar Design Guidance Kitchens should not space in larger apart	the minimum internal area by 5 d further additional bedrooms in a by 12m2 each must have a window in an ext area of not less than 10% of th and air may not be borrowed from be located as part of the main	each. ase the I wall with a or area of her rooms Ilation ace) Complies

Objective 4D-2 Apartment Size and Layout		
Environmental performance of the apartment is maximised		
Design Criteria Proposed Design		
Habitable room depths are limited to a maximum of 2.5 x the ceiling	Complies	
height.		

ase in room depth
and recessed
le rooms to be
of the building
Э
appropriate double
ate noise impacts
ding urban
outlooks, with North,
ards the harbor,
n views to Pacific
d.

Objective 4D-3 Apartment Size and Layout Apartment layouts are designed to accommodate a variety of household activities and needs		
Design Criteria	Proposed Design	
Master bedrooms have a minimum area of 10m2 and other bedrooms 9m2 (excluding wardrobe space)	Complies	
Bedrooms have a minimum dimension of 3m (excluding wardrobe space)	Complies	
Living rooms or combined living/dining rooms have a minimum width of: • 3.6m for studio and 1 bedroom apartments	Complies	
4m for 2 and 3 bedroom apartments		
The width of cross-over or cross-through apartments are at least 4m internally to avoid deep narrow apartment layouts	N/A	
Design Guidance		
Access to bedrooms, bathrooms and laundries is separated from living areas minimising direct openings between living and service areas	Complies	
All bedrooms allow a minimum length of 1.5m for robes	Complies	
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		
<ul> <li>Apartment layouts allow flexibility over time:</li> <li>Dimensions that facilitate a variety of furniture arrangements and removal</li> <li>Spaces for a range of activities and privacy levels between</li> </ul>	Complies	
different spaces within the apartment		

Objective 4E-1 Privat Apartments provide				conies to enhance residential amenity
Design Design Criter	ia	- · ·		Proposed Design
All apartments are rea	quired to ha	ave primary	balconies as follows:	
Dwelling type	Minimum area	Minimum depth		
Studio apartments	4m <sup>2</sup>	-		N/A
1 bedroom apartments	8m²	2m		Complies Complies
2 bedroom apartments	10m <sup>2</sup>	2m		Complies
3+ bedroom apartments	12m <sup>2</sup>	2.4m		
1 0	is provide	d instead o	ium or similar structure, f a balcony. It must have lepth of 3m.	Partial Compliance – 12 of the 17 ground level and podium apartments comply with the min balcony space, the minor shortfall has been offset by the increased area
Design Guidance				
Increased communation number or size of bal			be provided where the	<b>Complies</b> – 40% of communal open space has been provided (Minimum is 25%)

Storage areas on balconies is additional to the minimum balcony size	N/A
<ul> <li>Balcony use may be limited in some proposals by:</li> <li>consistently high wind speeds at 10 storeys and above</li> <li>close proximity to road, rail or other noise sources</li> <li>exposure to significant levels of aircraft noise</li> <li>heritage and adaptive reuse of existing buildings</li> <li>In these situations, Juliet balconies, operable walls, enclosed winter gardens or bay windows may be appropriate, and other amenity benefits for occupants should also be provided in the apartments or in the development or both.</li> </ul>	N/A – No apartments have been designed without a balcony.
Natural ventilation also needs to be demonstrated	Complies – See DA 514, 515 & 516

Objective 4E-2 Private open space and balconies Primary private open space and balconies are appropriately located to enhance liveability for residents		
Design Guidance	Proposed Design	
Primary open space and balconies should be located adjacent to the living room, dining room or kitchen to extend the living space	Complies	
Private open spaces and balconies predominantly face north, east or west	Complies	
Primary open space and balconies should be orientated with the longer side facing outwards or be open to the sky to optimise daylight access into adjacent rooms.	Complies	

Objective 4E-3 Private open space and balconies Private open space and balcony design is integrated into and contributes to the overall architectural form and detail of the building			
Design Guidance	Proposed Design		
Solid, partially solid or transparent fences and balustrades are selected to respond to the location. They are designed to allow views and passive surveillance of the street while maintaining visual privacy and allowing for a range of uses on the balcony. Solid and partially solid balustrades are preferred	Complies		
Full width full height glass balustrades alone are generally not desirable	Complies – The building has a mix of half and full height glass balustrades. Full height glass balustrades are located in areas where privacy is not an issue and are short in length.		
Projecting balconies should be integrated into the building design and the design of soffits considered	Complies		
Operable screens, shutters, hoods and pergolas are used to control sunlight and wind	Complies		
Balustrades are set back from the building or balcony edge where overlooking or safety is an issue	Complies		
Downpipes and balcony drainage are integrated with the overall facade and building design	Capable of compliance – drawings and consultant information do not extend to that level of detail however consideration has been given to spacials to accommodate for CC		
Air-conditioning units should be located on roofs, in basements, or fully integrated into the building design	Complies – Tower A and B has A/C condensers located & fully screened from view on the balconies. The area for the condenser is not included in balcony floor area. The A/C units are fully integrated.		
Where clothes drying, storage or air conditioning units are located on balconies, they should be screened and integrated in the building design	Capable of compliance – drawings do not extend to that level of detail		
Ceilings of apartments below terraces should be insulated to avoid heat loss	Complies - insulation requirement noted in BASIX documents		
Water and gas outlets should be provided for primary balconies and private open space	Capable of compliance – drawings do not extend to that level of detail Details would be included in the Construction Certificate Phase of the Development		

Objective 4F-1 Common circulation and spaces

Changes in ground levels or landscaping are minimised	Complies – landscaping typically on street
	frontage and flat podium levels, except through
	the memorial site link from King Street and Bull
	Street where there is a level change, and
	common area between the two buildings
Design and detailing of balconies avoids opportunities for climbing	Capable of compliance – drawings do not
and falls	extend to that level of detail however standards
	will be met with compliant heights of non
	climbable balustrades being specified. Details
	would be included in the Construction
	Certificate Phase of the Development

Design Criteria	Proposed Design
The maximum number of apartments off a circulation core on a single level is eight.	Complies
For buildings of 10 storeys and over, the maximum number of apartments sharing a single lift is 40	<b>Complies</b> – In design development consultation with lift service providers, showed that the number of lifts, speed and size, adequately serve the number of apartments proposed.
Design Guidance	
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	Complies Corridor Widths below: Tower A = 2.0m and 2.5m at the lift lobby Tower B = 1.8m and 2.3m at the lift lobby
Daylight and natural ventilation should be provided to all common circulation spaces that are above ground	Capable of compliance – drawings do not extend to that level of detail
Windows should be provided in common circulation spaces and should be adjacent to the stair or lift core or at the ends of corridors	Complies - at least one window opening at the end of corridor and lift core
Longer corridors greater than 12m in length from the lift core should be articulated.	Complies – Western Tower Corridors longer than 12m are articulated with increased corridor width in front of lifts and at least one window opening Partial Compliance – Eastern Tower Corridors are longer than 12m with minimal articulation, doors are recessed at end.
Design common circulation spaces to maximise opportunities for dual aspect apartments, including multiple core apartment buildings and cross over apartments	N/A
Achieving the design criteria for the number of apartments off a circulation core may not be possible. Where a development is unable to achieve the design criteria, a high level of amenity for common lobbies, corridors and apartments should be demonstrated	<b>Complies</b> - Corridors longer than 12m are articulated with recessed apartment door entries, increased corridor width and at least one window opening, furniture with seating options can be provided in lift lobbies, generous entry lobby with lounge area for seating and gathering, flexible space for meetings, as well as roof terrace with pool, bbq, seating and gathering amenity.
Where design criteria 1 is not achieved, no more than 12 apartments should be provided off a circulation core on a single level	Complies
Primary living room or bedroom windows should not open directly onto common circulation spaces, whether open or enclosed. Visual and acoustic privacy from common circulation spaces to any other rooms should be carefully controlled	Complies

Objective 4F-2 Common circulation and spaces Common circulation spaces promote safety and provide for social interaction between residents		
Design Guidance	Proposed Design	
Direct and legible access should be provided between vertical circulation points and apartment entries by minimising corridor or gallery length to give short, straight, clear sight lines	Partial Compliance – corridors are direct, legible and straight, recessed apartment door entry create increased widths of corridors	
Tight corners and spaces are avoided	Complies	

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Circulation spaces should be well lit at night	Capable of compliance – drawings do not extend to that level of detail Details would be included in the Construction Certificate Phase of the Development
Legible signage should be provided for apartment numbers, common areas and general wayfinding.	Capable of compliance – drawings do not extend to that level of detail Details would be included in the Construction Certificate Phase of the Development
Incidental spaces, for example space for seating in a corridor, at a stair landing, or near a window are provided	<b>Complies</b> – Corridor are designed to include furniture, offer natural light and have recessed door entries to apartments.
In larger developments, community rooms for activities such as owners corporation meetings or resident use should be provided and are ideally co-located with communal open space	<b>Complies</b> – A number of communal spaces in the buildings can be adapted for this use.
Where external galleries are provided, they are more open than closed above the balustrade along their length	N/A

## Objective 4G-1 Storage

Design Criteria		Proposed Design
In addition to storage in kitchens, bathrooms and bedrooms, the following storage is provided:		ms, the Complies – At least 50% of required storage areas are provided in each apartment, refer to DA121 to DA170.
Dwelling type	Storage size volume	The remaining area is provided in basement
Studio apartments	4m <sup>3</sup>	areas, refer DA098, DA099 and DA100
1 bedroom apartments	6m <sup>3</sup>	See DA550 to DA556 for storage breakdown.
2 bedroom apartments	8m³	
3+ bedroom apartments	10m <sup>3</sup>	
apartment. Design Guidance	uired storage is to be located with	
apartment. Design Guidance Storage is accessible	from either circulation or living area	s Complies
apartment. Design Guidance Storage is accessible Storage provided on b	from either circulation or living area alconies (in addition to the minimu the balcony design, weather proof	ns Complies M/A

Additional storage is conveniently located, accessible and nominated for individual apartments	
Design Guidance	Proposed Design
Storage not located in apartments is secure and clearly allocated to specific apartments	Capable of compliance – Storage is located securely in the basement. Allocation of storage units is not detailed in the drawings and would occur on preparation of strata plans.
Storage is provided for larger and less frequently accessed items	Complies – e.g. Christmas tree, suitcases.
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	Complies
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 is not visible from the public domain	Complies

Objective 4H-1 Acoustic Privacy Noise transfer is minimised through the siting of buildings and building layout	
Design Guidance	Proposed Design
Adequate building separation is provided within the development and from neighboring buildings/adjacent uses	Complies
Window and door openings are generally orientated away from noise sources	Partial Compliance – main noise sources of King Street, Bull Street and the Wests Club surround the site, however windows and balcony doors have been orientated towards

Noisy areas within buildings including building entries and corridors should be located next to or above each other and quieter areas next to or above quieter areas	sun. to maximise solar access, where appropriate, double glazing may be proposed to ensure internal amenity is not compromised, if detailed in the Acoustic Report Complies
Storage, circulation areas and non-habitable rooms should be located to buffer noise from external sources	Partial Compliance – main noise sources of King Street, Bull Street and the Wests Club surround the site, however Storage and circulation spaces have been located to produce an efficient design and allow habitable rooms to access light and air. Where appropriate, double glazing is proposed to ensure internal amenity is not compromised. Further detail on the location of double glazing may be proposed to ensure internal amenity is not compromised, if detailed in the Acoustic Report and façade design.
The number of party walls (walls shared with other apartments) are limited and are appropriately insulated	Complies - Insulation
Noise sources such as garage doors, driveways, service areas, plant rooms, building services, mechanical equipment, active communal open spaces and circulation areas should be located at least 3m away from bedrooms	<b>Complies</b> However, one apartment on level 1 is located adjacent to the pool area without 3m distance to the bedroom. Blade wall and landscape screening has been proposed for this area.

Objective 4H-2 Acoustic Privacy Noise impacts are mitigated within apartments through layout and acoustic treatments	
Design Guidance	Proposed Design
Internal apartment layout separates noisy spaces from quiet spaces	Complies
Where physical separation cannot be achieved noise conflicts are resolved	<b>Capable of compliance</b> – drawings do not extend to that level of detail. Refer to the Acoustic Report for recommended acoustic specifications.

#### Objective 4J-1 Noise and Pollution In noisy or hostile environments the impacts of external noise and pollution are minimised through the careful siting and layout of buildings

Design Guidance	Proposed Design	
To minimise impacts the following design solutions may be used		
<ul> <li>non-residential uses are located at lower levels vertically separating the residential component from the noise or pollution source.</li> </ul>	<b>Complies</b> – Retail and carparking occupy the lowest levels of the building	
<ul> <li>buildings should respond to both solar access and noise.</li> </ul>	Complies	
• where solar access is in the same direction as the noise source.		
dual aspect apartments with shallow building depths are preferable	Complies	
• landscape design reduces the perception of noise and acts as a filter for air pollution generated by traffic and industry	<b>Complies</b> – Design intent for landscaping around the building, on terraces, balcony planters and podium roof.	
Achieving the design criteria in this Apartment Design Guide may not be possible in some situations due to noise and pollution.	Capable of compliance	
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		
h		

### Objective 4J-2 Noise and Pollution

Appropriate noise shielding or attenuation techniques for the building design, construction and choice of materials are used to mitigate noise transmission	
Design Guidance	Proposed Design
Design solutions to mitigate noise include:	Complies – Refer to the Acoustic Engineers
<ul> <li>limiting the number and size of openings facing noise sources</li> </ul>	Assessment for recommended acoustic
<ul> <li>providing seals to prevent noise transfer through gaps</li> </ul>	specifications.

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	<ul> <li>using double or acoustic glazing, acoustic louvres or enclosed balconies (winter gardens)</li> <li>using materials with mass and/or sound insulation or absorption properties e.g. solid balcony balustrades, external screens and</li> </ul>
L	soffits

Objective 4K-1 Apartment Mix A range of apartment types and sizes is provided to cater for different household types now and into the future		
Design Guidance	Proposed Design	
A variety of apartment types is provided	Complies	
<ul> <li>The apartment mix is appropriate, taking into consideration:</li> <li>the distance to public transport, employment and education centres</li> <li>the current market demands and projected future demographic trends</li> <li>the demand for social and affordable housing</li> <li>different cultural and socioeconomic groups</li> </ul>	Complies	
Flexible apartment configurations are provided to support diverse household types and stages of life including single person households, families, multi-generational families and group households	Complies	

Objective 4K-2 Apartment Mix The apartment mix is distributed to suitable locations within the building		
Design Guidance	Proposed Design	
Different apartment types are located to achieve successful facade composition and to optimise solar access	Complies	
Larger apartment types are located on the ground or roof level where there is potential for more open space and on corners where more building frontage is available	Complies	

Design Guidance	Proposed Design
Direct street access should be provided to ground floor apartments	N/A
Activity is achieved through front gardens, terraces and the facade of the building	Complies
Retail or home office spaces should be located along street frontages	Complies
Ground floor apartment layouts support small office home office (SOHO) use to provide future opportunities for conversion into commercial or retail areas. In these cases provide higher floor to ceiling heights and ground floor amenities for easy conversion	<b>N/A</b> – Retail and Commercial offerings already provided on King St and higher floor ceiling heights have been used for the communal areas on ground floor in Building A facing Bull Street.

Objective 4L-2 Ground Floor Apartments Design of ground floor apartments delivers amenity and safety for residents	
Design Guidance	Proposed Design
Privacy and safety should be provided without obstructing casual surveillance.	Complies
Solar access should be maximised	Complies Refer comments in4A-1 Solar and Daylight access

Objective 4M-1 Facades Building facades provide visual interest along the street while respecting the character of the local area	
Design Guidance	Proposed Design
Design solutions for front building facades may include: • a composition of varied building elements • a defined base, middle and top of buildings • revealing and concealing certain elements • changes in texture, material, detail and colour to modify the prominence of elements	Complies
Building services should be integrated within the overall facade	Capable of compliance – drawings do not extend to that level of detail Details would be

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	included in the Construction Certificate Phase of the Development
Building facades should be well resolved with an appropriate scale and proportion to the streetscape and human scale	Complies
Building facades relate to key datum lines of adjacent buildings through upper level setbacks, parapets, cornices, awnings or colonnade heights	Complies
Shadow is created on the facade throughout the day with building articulation, balconies and deeper window reveals	Complies

Objective 4M-2 Facades Building functions are expressed by the facade	
Design Guidance	Proposed Design
Building entries should be clearly defined	<b>Complies</b> – building entries are expressed with an entry canopy
Important corners are given visual prominence through a change in articulation, materials or colour, roof expression or changes in height	Complies
The apartment layout should be expressed externally through facade features such as party walls and floor slabs	Complies – Windows, balcony doors, Party Walls contribute to the façade features

Objective 4N-1 Roof Design Roof treatments are integrated into the building design and positively respond to the street	
Design Guidance	Proposed Design
Roof design relates to the street.	<b>Complies</b> – The flat roof and glass balustrade design allows for communal open space, concealed services and sky lights to apartments below
<ul> <li>Roof treatments should be integrated with the building design.</li> <li>Design solutions may include: <ul> <li>Roof design proportionate to the overall building size, scale and form</li> <li>Roof materials compliment the building</li> <li>Service elements are integrated</li> </ul> </li> </ul>	<b>Complies</b> – The flat roof and glass balustrade is integrated with the overall building glass façade and conceals services behind.

Objective 4N-2 Roof Design Opportunities to use roof space for residential accommodation and open space are maximised	
Design Guidance	Proposed Design
Habitable roof space should be provided with good levels of amenity.	Complies
Open space is provided on roof tops subject to acceptable visual and acoustic privacy, comfort levels, safety and security considerations	Complies

Objective 4N-3 Roof Design Roof design incorporates sustainability features	
Design Guidance	Proposed Design
Roof design maximises solar access to apartments during winter and provides shade during summer.	Complies – Horizontal and Vertical Louvres provide shade during summer
Skylights and ventilation systems should be integrated into the roof design	Capable of compliance – drawings do not extend to that level of detail. Skylights can be provided for. Provision is also made for roof top plant Details would be included in the Construction Certificate Phase of the Development

Objective 40-1 Landscape Design Landscape design is viable and sustainable	
Design Guidance	Proposed Design
Landscape design should be environmentally sustainable and can enhance environmental performance	Complies – Refer to landscape package
Ongoing maintenance plans should be prepared	Capable of compliance – will be undertaken by Strata Management. Concept level landscape maintenance schedule included in Landscape package.

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<ul> <li>Microclimate is enhanced by:</li> <li>appropriately scaled trees near the eastern and western elevations for shade</li> <li>a balance of evergreen and deciduous trees to provide shading in summer and sunlight access in winter</li> <li>shade structures such as pergolas for balconies and courtyards</li> </ul>	<b>Complies</b> – Guidance for ongoing maintenance of landscaped areas has been provided in Oculus landscape concept plans
Tree and shrub selection considers size at maturity and the potential for roots to compete	<b>Complies</b> - Final planting plans to be provided at CC.

Objective 4O-2 Landscape design contributes to the streetscape and amenity	
Design Guidance	Proposed Design
Landscape design should be environmentally sustainable and can enhance environmental performance	<b>Complies</b> - Refer to Landscape package Ground floor & level one incorporates soft and hard landscaping in public and private spaces,
Landscape design responds to the existing site conditions including:	private planter boxes and podium roof planting, communal terrace areas also include both soft
changes of levels	and hard landscaping to respond to the existing
<ul> <li>views</li> <li>significant landscape features including trees and rock outcrops</li> </ul>	site conditions
Significant landscape features should be protected by: • tree protection zones (see figure 40.5)	N/A
<ul> <li>appropriate signage and fencing during construction</li> </ul>	
Plants selected should be endemic to the region and reflect the local ecology	Complies - Refer to Landscape package

Objective 4P-1 Planting on Structures Appropriate soil profiles are provided	
Design Guidance	Proposed Design
Structures are reinforced for additional saturated soil weight	<b>Capable of compliance</b> – drawings do not extend to that level of detail.
Soil volume is appropriate for plant growth	<b>Capable of compliance</b> – drawings do not extend to that level of detail.
<i>Minimum</i> soil standards for plant sizes should be provided in accordance with Table 5	Capable of compliance – drawings do not extend to that level of detail. Planter design and species selection meets requirements of ADG, (small tree on structure allows min. 900mm soil depth, medium tree on structure allows 1m soil depth etc). Technical details will be provided at CC.

Objective 4P-2 Planting on Structures Plant growth is optimised with appropriate selection and maintenance	
Design Guidance	Proposed Design
Plants are suited to site conditions	Complies – Refer to landscape package for plant species proposed
A landscape maintenance plan is prepared	<b>Capable of compliance</b> – will be undertaken by Strata Management. Concept level landscape maintenance schedule included in Landscape package.
<ul> <li>Irrigation and drainage systems respond to:</li> <li>changing site conditions</li> <li>soil profile and the planting regime</li> <li>whether rainwater, stormwater or recycled grey water is used</li> </ul>	Capable of compliance – drawings do not extend to that level of detail. irrigation and drainage requirements have been considered as part of concept development, and intention is to use rainwater harvesting for irrigation – but technical resolution to be undertaken during detailed design

Objective 4P-3 Planting on Structures Planting on structures contributes to the quality and amenity of communal and public open spaces	
Design Guidance	Proposed Design
Building design incorporates opportunities for planting on structures	<b>Complies</b> – Ground floor & level one incorporates soft and hard landscaping in public and private spaces, private planter boxes and podium roof planting, communal terrace areas also include both soft and hard landscaping

PROMICT 309 KING STREET, NEW CASTLE	
Universal design features are included in apartment design to prome	ote flexible housing for all community members
Design Guidance	Proposed Design
Developments achieve a benchmark of 20% of the total apartments incorporating the Livable Housing Guideline's silver level universal design features	Complies – 20% of apartments are designed to achieve silver level standard

Objective 4Q-2 Universal Design A variety of apartments with adaptable designs are provided		
Design Guidance	Proposed Design	
Adaptable housing should be provided in accordance with the relevant council policy	Complies	
<ul> <li>Design solutions for adaptable apartments include:</li> <li>convenient access to communal and public areas</li> <li>high level of solar access</li> <li>minimal structural change and residential amenity loss when adapted</li> <li>larger car parking spaces for accessibility</li> <li>parking titled separately from apartments or shared car parking arrangements</li> </ul>	Partial Compliance – 20% of apartments have been designed to achieve Silver livable housing design compliance. A further 10 apartments could be upgraded to Gold Livable but are not included in this application.	

Objective 4Q-3 Universal Design Apartment layouts are flexible and accommodate a range of lifestyle needs	
Design Guidance	Proposed Design
<ul> <li>Apartment design incorporates flexible design solutions which may include:</li> <li>rooms with multiple functions</li> <li>dual master bedroom apartments with separate bathrooms</li> <li>larger apartments with various living space options</li> <li>open plan 'loft' style apartments with only a fixed kitchen, laundry and bathroom</li> </ul>	Complies Complies Complies N/A

Objective 4R-1 Adaptive Reuse New additions to existing buildings are contemporary and complementary and enhance an area's identity and sense of place

Design Guidance	Proposed Design
Design solutions may include:	N/A
<ul> <li>new elements to align with the existing building</li> </ul>	
<ul> <li>additions that complement the existing character, siting, scale,</li> </ul>	
proportion, pattern, form and detailing	
<ul> <li>use of contemporary and complementary materials, finishes,</li> </ul>	
textures and colours	
Additions to heritage items should be clearly identifiable from the	N/A
original building	
New additions allow for the interpretation and future evolution of the	N/A
building	

Objective 4R-2 Adaptive Reuse Adapted buildings provide residential amenity while not precluding future adaptive reuse	
Design Guidance	Proposed Design
Design features should be incorporated sensitively into adapted buildings to make up for any physical limitations, to ensure residential amenity is achieved.	N/A
Some proposals that adapt existing buildings may not be able to achieve all of the design criteria in this Apartment Design Guide.	N/A

Objective 4S-1 Mixed Use Adapted buildings provide residential amenity while not precluding future adaptive reuse	
Design Guidance	Proposed Design
Mixed use development should be concentrated around public transport and centres	Complies – King Street Bus stop & Light Rail access. Close proximity to Market town Shopping Centre and nearby 'Commercial Core' Zones.
Mixed use developments positively contribute to the public domain	<b>Complies</b> – Retail tenancies activate street edge along King Street and Memorial through site link encourages pedestrian activity

#### Objective 4S-2 Mixed Use

Residential levels of the building are integrated within the development, and safety and amenity is maximised for residents

Design Guidance	Proposed Design
Residential circulation areas should be clearly defined	Complies
Landscaped communal open space should be provided at podium or roof levels	Complies

Design Guidance	Proposed Design
Awnings should be located along streets with high pedestrian activity and active frontages	Complies
Awnings should be located over building entries for building address and public domain amenity	Complies
Awnings relate to residential windows, balconies, street tree planting, power poles and street infrastructure	Complies
Gutters and down pipes should be integrated and concealed	Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development
Lighting under awnings should be provided for pedestrian safety	Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development

Objective 4T-2 Awnings and Signage Signage responds to the context and desired streetscape character	
Design Guidance	Proposed Design
Signage should be integrated into the building design and respond to the scale, proportion and detailing of the development	Capable of compliance – drawings do not extend to that level of detail.
Legible and discrete way finding should be provided for larger developments	Capable of compliance – drawings do not extend to that level of detail.
Signage is limited to being on and below awnings and a single facade sign on the primary street frontage	Capable of compliance – drawings do not extend to that level of detail.

Objective 4U-1 Energy Efficiency		
Development incorporates passive environmental design		
Design Guidance	Proposed Design	
Adequate natural light is provided to habitable rooms	Complies	
Well located, screened outdoor areas should be provided for clothes drying	Capable of compliance – drawings do not extend to that level of detail.	

**Objective 4U-2 Energy Efficiency** Development incorporates passive solar design to optimise heat storage in winter and reduce heat transfer in summer Proposed Design **Design Guidance** A number of the following design solutions are used: Capable of compliance – design considerations • the use of smart glass or other technologies on north and west include - Vertical and Horizontal louvres for shading, elevations • thermal mass in the floors and walls of north facing rooms is - recessed balconies maximised - balcony overhangs, • polished concrete floors, tiles or timber rather than carpet - smart glazing

insulated roofs, walls and floors and seals on window and door openings
 overhangs and shading devices such as awnings, blinds and screens
 Provision of consolidated heating and cooling infrastructure should be located in a centralised location

Objective 4U-3Energy Efficiency	
Adequate natural ventilation minimises the need for mechanical ventilation	
Design Guidance Proposed Design	

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- A number of the following design solutions are used:
- rooms with similar usage are grouped together

natural cross ventilation for apartments is optimised
natural ventilation is provided to all habitable rooms and as many non-habitable rooms, common areas and circulation spaces as possible

– 60% (102 out of 178 apartments from level 1 – 9) are naturally cross – ventilated. Tower A achieves 50% naturally ventilated and Tower B achieves 63% naturally ventilated apartments.

Objective 4V-1 Water Management and Conservation Potable water use is minimised	
Design Guidance	Proposed Design
Water efficient fittings, appliances and wastewater reuse should be incorporated	Capable of compliance – requirements are noted in BASIX documentation
Apartments should be individually metered	Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development
Rainwater should be collected, stored and reused on site	Complies
Drought tolerant, low water use plants should be used within landscaped areas	Capable of compliance Refer to Landscape Package

Objective 4V-2 Water Management and Conservation Urban stormwater is treated on site before being discharged to receiving waters	
Design Guidance	Proposed Design
Water sensitive urban design systems are designed by a suitably qualified professional	Complies Refer to Civil & Hydraulic Services reports
<ul> <li>A number of the following design solutions are used:</li> <li>runoff is collected from roofs and balconies in water tanks and plumbed into toilets, laundry and irrigation</li> <li>porous and open paving materials is maximised</li> <li>on site stormwater and infiltration, including bio-retention systems such as rain gardens or street tree pits</li> </ul>	Complies Refer to Civil & Hydraulic Services reports

Objective 4V-3 Water Management and Conservation Flood management systems are integrated into site design	
Design Guidance	Proposed Design
Detention tanks should be located under paved areas, driveways or in basement car parks	Capable of compliance – drawings do not extend to that level of detail.
On large sites parks or open spaces are designed to provide temporary on-site detention basins	N/A

Objective 4W-1 Waste management Waste storage facilities are designed to minimise impacts on the streetscape, building entry and amenity of residents	
Design Guidance	Proposed Design
Adequately sized storage areas for rubbish bins should be located discreetly away from the front of the development or in the basement car park	Complies – Bin Store is located in basement discretely positioned, enclosed and mechanically ventilated.
Waste and recycling storage areas should be well ventilated	Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development
Circulation design allows bins to be easily maneuvered between storage and collection points	Complies – Bin Store Rooms are provided for each tower with direct waste chutes from apartment levels to bin store. Bins to be taken to Bin Holding Room located on Level 1 and collected in Bull Street.
Temporary storage should be provided for large bulk items such as mattresses	Complies – Bulky Items Area is available in Bin Store Room on Ground Level
A waste management plan should be prepared	Complies

Objective 4W-2 Waste management Domestic waste is minimised by providing safe and convenient source separation and recycling	
Design Guidance	Proposed Design
All dwellings should have a waste and recycling cupboard or temporary storage area of sufficient size to hold two days' worth of waste and recycling	Complies – refer to Waste management Plan

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Communal waste and recycling rooms are in convenient and accessible locations related to each vertical core	Complies – 2 waste & recycling rooms located in Ground Floor.
For mixed use developments, residential waste and recycling storage areas and access should be separate and secure from other uses	Complies – Waste management plan includes provision for waste associated with residential and retail areas
Alternative waste disposal methods such as composting should be provided	Capable of compliance – drawings do not extend to that level of detail.

Objective 4X-1 Building maintenance Building design detail provides protection from weathering	
Design Guidance	Proposed Design
A number of the following design solutions are used: • roof overhangs to protect walls • hoods over windows and doors to protect openings • detailing horizontal edges with drip lines to avoid staining of surfaces • methods to eliminate or reduce planter box leaching • appropriate design and material selection for hostile locations	Partial Compliance – Most balconies are recessed allow some protection for walls         Complies – Podium has an articulated façade allowing windows to be recessed         Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development         Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development         Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development         Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development         Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development

Design Guidance	Proposed Design
Window design enables cleaning from the inside of the building	Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development
Building maintenance systems should be incorporated and integrated into the design of the building form, roof and facade	Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development
Design solutions do not require external scaffolding for maintenance access	Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development
Manually operated systems such as blinds, sunshades and curtains are used in preference to mechanical systems	Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development
Centralized maintenance, services and storage should be provided for communal open space areas within the building	Complies

Objective 4X-3 Building maintenance Material selection reduces ongoing maintenance costs	
Design Guidance	Proposed Design
<ul> <li>A number of the following design solutions are used:</li> <li>sensors to control artificial lighting in common circulation and spaces</li> <li>natural materials that weather well and improve with time such as face brickwork</li> <li>easily cleaned surfaces that are graffiti resistant</li> <li>robust and durable materials and finishes are used in locations which receive heavy wear and tear, such as common circulation areas and lift interiors</li> </ul>	Capable of compliance – drawings do not extend to that level of detail. Details would be included in the Construction Certificate Phase of the Development.

End of Report