## **ANNEXURE 3**

## ADG Assessment

ADG Ref Item description	Proposal	Compliance
PART 3 Siting the development		
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	The proposal has provided a detailed Site Analysis which demonstrates good design decisions have been made in relation to the site- specific context.	Yes
<b>Design guidance</b> Each element in the Site Analysis Checklist should be addressed (see Appendix 1)		
3B Orientation		
Objective 3B-1		
Building types and layouts respond to the streetscape and site while optimising solar access within the development	Provided.	Yes
<b>Design guidance</b> Buildings along the street frontage define the street, by facing it and incorporating direct access from the street (see figure 3B.1) Where the street frontage is to the east or west, rear buildings should be orientated to the north	The proposal is orientated to reflect the street grid and to create a block defining the urban character over the two sites. The proposal provides compliant separation to adjoining future development with overshadowing minimised where possible.	
Where the street frontage is to the north or south, overshadowing to the south should be minimised and buildings behind the street frontage should be orientated to the east and west (see figure 3B.2)		
Objective 3B-2		
Overshadowing of neighbouring properties is minimised during mid-winter	The proposal is designed in accordance with the masterplan envelopes and minimises the	Yes
Design guidance	overshadow impact to south neighbouring	
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	properties by coordinating with adjacent site the location of habitable rooms.	
Solar access to living rooms, balconies and private open spaces of neighbours should be considered		
Where an adjoining property does not currently receive the required hours of solar access, the proposed building ensures solar access to neighbouring properties is not reduced by more than 20%		

ADG Ref Item description	Proposal	Compliance
If the proposal will significantly reduce the solar access of neighbours, building separation should be increased beyond minimums contained in section 3F Visual privacy	The design proposes appropriate building separation distances to all relevant boundaries and the amended design is fully compliant with DCP setbacks. It would provide a compliant solar access outcome to the immediate neighbours.	
Overshadowing should be minimised to the south or down-hill by increased upper level setbacks	Orientation reasonable in context of site.	
It is optimal to orientate buildings at 90 degrees to the boundary with neighbouring properties to minimise overshadowing and privacy impacts, particularly where minimum setbacks are used and where buildings are higher than the adjoining development	Neighbouring buildings to the north are be redeveloped into the future DCP Park.	
A minimum of 4 hours of solar access should be retained to solar collectors on neighbouring buildings		
3C Public domain interface		
<i>Objective 3C-1</i> Transition between private and public domain is achieved without compromising safety and security	Provided.	Yes
<ul> <li>Design guidance</li> <li>Terraces, balconies and courtyard apartments should have direct street entry, where appropriate</li> <li>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)</li> <li>Upper level balconies and windows should overlook the public domain</li> <li>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</li> <li>Length of solid walls should be limited along street frontages</li> <li>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</li> </ul>	In this instance street-level activation to all frontages (Park and Berry) is adequately achieved for each dwelling. Individual and Communal entries and individual entries to each ground floor terrace fronting Berry Road and Park Road are clearly defined, safe and secure. Lower-level /balconies fronting River Road have been amended into to be able to function as winter-gardens or balconies with operable glass louvers to provide better acoustic amenity to residents. This is encouraged under section 4J - 1 of the ADG. Access to secure outdoor POS areas of ground level dwellings fronting River Road via communal path on corner of River and Park Road. Easy-to-navigate pedestrian paths provide secure access egress throughout the site. Changes in levels appropriately managed to achieve relevant outcomes. Provided. Facades and solid walls broken up on all frontages by recessed lift cores to ensure greater articulation.	
	Satisfactory on merit.	

ADG Ref Item description	Proposal	Compliance
In developments with multiple buildings and/or entries, pedestrian entries and spaces associated with individual buildings/entries should be differentiated to improve legibility for residents, using a number of the following design solutions:	Appropriately limited and broken up by openings for stairs, landscaping and driveway access.	
architectural detailing changes in materials plant species colours Opportunities for people to be concealed should be minimised	Activated entries/lobbies to Berry/Park and the Green Spine would allow for active uses within buildings setback areas. Achieved	

<i>Objective 3C-2</i> Amenity of the public domain is retained and enhanced	Satisfactory- public domain enhanced through clearly defined and focal building entries. All services, loading areas and vehicle parking are to be located behind screening (where possible).
<ul> <li>Design guidance</li> <li>Planting softens the edges of any raised terraces to the street, for example above subbasement car parking</li> <li>Mailboxes should be located in lobbies, perpendicular to the street alignment or integrated into front fences where individual street entries are provided</li> <li>The visual prominence of underground car park vents should be minimised and located at a low level where possible</li> </ul>	<ul> <li>Provided.</li> <li>Mailbox location conditioned by police comments to be integrated into design.</li> <li>Police recommendation- 'Mailboxes and parcel delivery areas should be secure and covered with CCTV cameras. If possible, a secure method for parcel delivery should be set up in the building'.</li> <li>Achieved where possible. System pump room proposed in basement 3. Hydrant booster</li> </ul>
Substations, pump rooms, garbage storage areas and other service requirements should be located in basement car parks or out of view	assembly as it will not be located at the main entrance due to multiple building entrances being provided. This will need to be addressed via a Fire Engineering Performance Solution.
Ramping for accessibility should be minimised by building entry location and setting ground floor levels in relation to footpath levels	Ramping minimised where possible
Durable, graffiti resistant and easily cleanable materials should be used	
Where development adjoins public parks, open space or bushland, the design positively addresses this interface and uses a number of the following design solutions:	
<ul> <li>street access, pedestrian paths and building entries which are clearly defined</li> <li>paths, low fences and planting that clearly delineate between communal/private open space and the adjoining public open space</li> <li>minimal use of blank walls, fences and ground level parking</li> </ul>	

On sloping sites protrusion of car parking above ground level should be minimised by using split levels to step underground car parking		
Such areas appropriately designed in this instance	Appropriately integrated/treated	Satisfactory
3D Communal and public open space	Appropriate common open space areas provided throughout the development where possible in green spine and on roof tops.	
Objective 3D-1		
An adequate area of communal open space is provided to enhance residential amenity and to provide opportunities for landscaping		
Design criteria		
Communal open space has a 1. minimum area equal to 25% of the site (see figure 3D.3)	3574sqm of communal open space Total = 30.9% Achieved	
2. 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)	Greater than 50% of total communal open space (Green Spine) and the roof top open space areas to buildings C and D receiving 2 hours solar access during mid-winter.	
<b>Design guidance</b> Communal open space should be consolidated into a well-designed, easily identified and usable area	Complies. Provided consolidated areas of communal open space at green spine and roof of all buildings C and D.	
Communal open space should have a minimum dimension of 3m, and larger developments should consider greater dimensions	The proposal provides for dimensions significantly greater than the ADG minimum.	
Communal open space should be co-located with deep soil areas	Provided: 50% of green spine communal area at ground floor is unencumbered deep soil (1413sqm).	
Direct, equitable access should be provided to communal open space areas from common circulation areas, entries and lobbies	Green spine and communal roof garden areas on building C and building D accessed by lift and accessible paths.	
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:	Communal space provided a ground level and roof tops.	
<ul> <li>provide communal spaces elsewhere such as a landscaped roof top terrace or a common room</li> <li>provide larger balconies or increased private open space for apartments</li> <li>demonstrate good proximity to public open space and facilities and/or provide</li> </ul>	Design Criteria Achieved.	
contributions to public open space		

Objective 2D 0		]
Objective 3D-2	The proposal provides high quality facilities,	
Communal open space is designed to allow for a range of activities, respond to site conditions and be attractive and inviting	which would promote a range of passive and active uses.	Yes
<b>Design guidance</b> Facilities are provided within communal open spaces and common spaces for a range of age groups (see also 4F Common circulation and spaces), incorporating some of the following elements:	Facilities provided include landscaping, open lawn, seating, nature play, buffer planting, alfresco dining/BBQ, 20m lap pool and pool deck with sun lounges.	
seating for individuals or groups barbecue areas play equipment or play areas swimming pools, gyms, tennis courts or common rooms The location of facilities responds to microclimate and site conditions with access to sun in winter, shade in summer and shelter	Roof top communal areas (Building C) include open lawn, lounges with low tables, bench seating, BBQ under awning raised planter boxes. Roof top communal areas (Building D) include open lawn, alfresco dining, BBQ area, buffer planting, lounges, raised planter boxes.	
from strong winds and down drafts Visual impacts of services should be minimised, including location of ventilation duct outlets from basement car parks,	Achieved.	
electrical substations and detention tanks	Achieved.	
Objective 3D-3		
Communal open space is designed to maximise safety	The proposed communal open space would be secure for residents only.	Yes
<b>Design guidance</b> Communal open space and the public domain should be readily visible from habitable rooms and private open space areas while maintaining visual privacy. Design solutions may include:	Green Spine would be readily visible from all units facing allowing appropriate passive surveillance.	
bay windows corner windows balconies	Can comply.	
Communal open space should be well lit	'Nature play' area would be located in Area 22	
Where communal open space/facilities are provided for children and young people they are safe and contained	within the green spine which is secure to residents only.	
3D Communal and public open space		
Objective 3D-4		
Public open space, where provided, is responsive to the existing pattern and uses of the neighbourhood	N/A. No public open space required.	N/A
<b>Design guidance</b> The public open space should be well connected with public streets along at least one edge	N/A. No public open space required.	

The public open space should be connected with nearby parks and other landscape elements		
Public open space should be linked through view lines, pedestrian desire paths, termination points and the wider street grid Solar access should be provided year-round	Sun access diagrams display solar access achieved to at least 3 hours, more than 50% of the public open space	
along with protection from strong winds		
Opportunities for a range of recreational activities should be provided for people of all ages	Design amended and rooftop viewing courtyard between Building A and B at River Road removed. This change would reduce potential	
A positive address and active frontages should be provided adjacent to public open space	wind impacts and provide a buffer to major communal zone of Area 23 (pool and deck area, lawn, and terrace lounge). Larger vegetation around the perimeter of roof top also provides	
Boundaries should be clearly defined between public open space and private areas	wind protection.	
3E Deep soil zones		
Deep soil zones provide areas on the site that allow for and support healthy plant and tree growth. They improve residential amenity and promote management of water and air quality.	The proposal provides for high quality deep soil zones where possible and its entirety under the green spine. Greater than 50% of the green spine has no basement carparking encroachments.	Yes
Design criteria1.Deep soil zones are to meet the following minimum requirements:	Greater than 50% of green spine achieves deep soil + + deep soil in Park/Berry/River Road setbacks.	Yes
Site area Minimum Deep soil zone dimensions (% of site area) less than 650m2 - 7%	Total = 24% of site is deep soil. (2788sqm)	
650m2 - 1,500m2 3m greater than 6m 1,500m2		
greater than 6m 1,500m2 with significant existing		
tree cover		
Design guidance	Achieved where possible - see above	Yes
On some sites it may be possible to provide larger deep soil zones, depending on the site area and context:		
10% of the site as deep soil on sites with an area of 650m2 - 1,500m2 15% of the site as deep soil on sites greater than 1,500m2		
Deep soil zones should be located to retain existing significant trees and to allow for the development of healthy root systems, providing anchorage and stability for mature trees. Design solutions may include:	The proposed landscaping conditions of consent to establish and strengthen the deep soil zones for long term health of vegetation.	
basement and sub-basement car park design that is consolidated beneath building footprints use of increased front and side setbacks		

adequate clearance around trees to ensure long term health       Achieving the design criteria may not be possible on some sites including where:       Achieving the design criteria may not be possible on some sites including where:       Achieving the design criteria may not be possible on some sites including where:       Achieving the design criteria may not be possible on some sites including where:       Achieving the design criteria may not be possible on some sites including where:       Achieving the design criteria may not be possible on some sites including where:       Achieving the design criteria may not be possible including some sites, high density areas, or in centres)         there is 100% site coverage or non-residential uses at ground foor level       Second the some site is a chieved esp soil requirements, acceptable stormwater management should be achieved, and alternative forms of planting provided such as on structure       Provided       Complies         3F Visual privacy       Dispective 3F-1 Adequate building separation distances from building stores are shared equitably betweets of external and internal visual privacy is achieved reasonable levels of provided to ensure visual privacy is achieved reasonable levels of external and internal visual privacy is achieved area to bunding separation distances from baltable       Compliance achieved, Building separations will exceed ADG requirements across all streets.         up to 12m       6m       4.5m       4.1m       All buildings are stepped as per the DCP requirements. All buildings exceed separation distance should be careful on to cause a Tagguard appearatione is describe.       All buildings are stepped as per the DCP requirements. All building exceed separation distance shoul						
adjacent sites to create larger contiguous areas of deep soil       Achieving the design criteria may not be possible on some sites including where:       Achieved         Achieving the design criteria may not be possible on some sites including where:       Achieved       Achieved         Achieving the design criteria may not be possible on some sites including where:       Achieved       Achieved         Achieved       Achieved       Achieved       Achieved         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       Provided       Complies <b>3F Visual privacy</b> Provided       Complies <b>3F Visual privacy</b> Provided       Complies <b>3F Visual privacy</b> achieves and balconies is provided to ensure visual privacy is achieve reasonable levels of external and internal visual privacy is provided to ensure visual privacy is privacing second baconies habitable       Compliance ac	term health			-		
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the location and building typology have limited or         on space for deep soil at ground level (e.g., central business district, constrained sites, high density areas, or in centres)         there is 100% site coverage or non-residential uses at ground floor level         Where a proposal does not achieve deep soil requirements, acceptable stormwater management should be achieved, and alternative forms of planting provided such as on structure <b>3F Visual privacy</b> Provided         Objective 3F-1 Adequate building separation distances are shared equitably between neighbouring sites, to achieve reasonable levels of external and internal visual privacy is achieved. Minimum required separation distances from building to the side and rear boundaries are as tollows:       Provided       Complies         Duilding Habitable Habitable Non-habitable rooms andto non- rooms height balconies habitable       Compliance achieved. Building separation suil evice of ADG requirements across all streets.       Compliance achieved. Building separations will exceed ADG requirements across all streets.         Que 25m 9m 6m 4.5m       Hould age are stepped as per the DCP requirements of the ADG.         (9+ storeys)       Design guidance       All buildings are stepped as per the DCP requirements of the ADG.         For readieni ab louding separation distances should be measured as follows:       N/A		on some sites including where:				
requirements, acceptable stormwater management should be achieved, and alternative forms of planting provided such as on structure <b>3F Visual privacy</b> <b>Objective 3F-1</b> Adequate building separation distances are shared equitably between neighbouring sites, to achieve reasonable levels of external and internal visual privacy <b>Design criteria</b> 1. 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: Building Habitable Habitable Non-habitable rooms andto non- rooms buildings to the side and rear boundaries are as follows: Building Habitable Habitable Non-habitable rooms andto non- rooms buildings to the side and rear boundaries are as follows: Building Habitable Habitable Non-habitable rooms andto non- rooms height balconies habitable up to 12m 6m 4.5m 3m (4 storeys) up to 25m 9m 6m 4.5m (5-8 storeys) over 25m 12m 9m 6m (9+ storeys) <b>Design guidance</b> Generally one step in the built form as the height increases due to building separation is desirable. Additional steps should be careful not to cause a ziggurat appearance For residential buildings next to commercial buildings, separation distances should be measured as follows: for retail, office spaces and commercial balconies for retail, office spaces and commercial balconies	no space for deep soil at ground level (e.g. central business district, constrained sites, high density areas, or in centres) there is 100% site coverage or non-residential			nd level (e.g. ned sites, high		
Objective 3F-1 Adequate building separation distances are shared equitably between reighbouring sites, to achieve reasonable levels of external and internal visual privacy       Provided       Complies         Design criteria 1. 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:       Compliance achieved. Building separations will exceed ADG requirements across all streets.         Building height       Habitable Habitable norms andto non- rooms balconies habitable       Compliance achieved. Building separations will exceed ADG requirements across all streets.         up to 12m       6m       4.5m       Compliance achieved and separations is desirable. All storeys)         up to 25m       9m       6m       4.5m         (5-8 storeys)       0ver 25m       12m       9m         over 25m       12m       9m       6m         (9+ storeys)       Enerally one step in the built form as the height increases due to building separation is desirable. Additional steps should be careful not to cause a 'ziggurat' appearance       All buildings are stepped as per the DCP requirements. All buildings exceed separation distance requirements of the ADG.	requirements managemen alternative fo	s, acc t should	eptable be ac	stormwater hieved, and		
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For residential buildings next to commercial buildings, separation distances should be measured as follows: for retail, office spaces and commercial balconies N/A	Generally one step in the built form as the height increases due to building separations is desirable. Additional steps should be careful not to cause a		s is desirable.			
	buildings, separation distances should be					
				cial balconies	N/A	

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for service and plant areas use the non-habitable room distances		
Toom distances		
New development should be located and oriented to maximise visual privacy between buildings on site and for neighbouring buildings. Design solutions include: site layout and building orientation to minimise	Satisfactory.	
privacy impacts (see also section 3B Orientation) on sloping sites, apartments on different levels have appropriate visual separation distances (see figure 3F.4)		
Apartment buildings should have an increased separation distance of 3m (in addition to the requirements set out in design criteria 1) when adjacent to a different zone that permits lower density residential development to provide for a transition in scale and increased landscaping (figure 3F.5)	N/A. Greater setbacks (16m) are accommodated from the Park Road frontage as St Leonards South DCP requirements from the R2 zone.	
Direct lines of sight should be avoided for windows and balconies across corners	Avoided where possible	
No separation is required between blank walls	Provided.	
Objective 2E 2		
Objective 3F-2		Yes
Site and building design elements increase privacy without compromising access to light and air and balance outlook and views from habitable rooms and private open space	Appropriately considered in design.	
Design guidance		
Communal open space, common areas and	Communal open space is appropriately	
access paths should be separated from	separated	
private open space and windows to	Solid and partially solid balustrades and	
apartments, particularly habitable room windows. Design solutions may include:	landscaping buffers incorporated into design of	
	balconies at lower levels, including 1m high	
setbacks	planter boxes. These measures ensure an	
<ul> <li>solid or partially solid balustrades to balconies at lower levels</li> </ul>	appropriate balance of privacy and activation between the interface of the private balconies	
<ul> <li>fencing and/or trees and vegetation to</li> </ul>	fronting the green spine at ground floor.	
separate spaces		
<ul><li>screening devices</li><li>bay windows or pop out windows to</li></ul>		
<ul> <li>bay windows of pop out windows to provide privacy in one direction and outlook in another</li> </ul>		
<ul> <li>raising apartments/private open space above the public domain or</li> </ul>		
<ul><li>communal open space</li><li>planter boxes incorporated into walls</li></ul>	Lowest level apartments fronting River Road are	
and balustrades to increase visual separation	located above service areas maximise available separation by a series of landscaped and tiered	
<ul> <li>pergolas or shading devices to limit</li> </ul>	retaining walls.	
overlooking of lower apartments or		
private open space on constrained sites where it can be demonstrated	Balconies and terraces are located adjacent to	
that building layout opportunities are	living rooms rather than bedrooms.	

limited, fixed louvres or screen panels to windows and/or balconies		
Bedrooms, living spaces and other habitable rooms should be separated from gallery access and other open circulation space by the apartment's service areas	Provided where possible.	
Balconies and private terraces should be located in front of living rooms to increase internal privacy	Generally, complies.	
Windows should be offset from the windows of adjacent buildings		
Recessed balconies and/or vertical fins should be used between adjacent balconies		
3G Pedestrian access and entries		
Objective 3G-1		
Building entries and pedestrian access connects to and addresses the public domain	Accessible connectivity provided addressing public domain from DCP New Road, Berry, and Park Roads.	Yes
<b>Design guidance</b> Multiple entries (including communal building entries and individual ground floor entries) should be provided to activate the street edge	The proposal provides lobby/lift entrance with accessible entrances, improving street activation at Berry Road and Park Road for both Areas 22	
Entry locations relate to the street and subdivision pattern and the existing pedestrian network	and 23 in accordance with the ADG along with separate entrances to between private and public access.	
Building entries should be clearly identifiable and communal entries should be clearly distinguishable from private entries	Satisfactory.	
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	Satisfactory.	
<i>Objective 3G-2</i> Access, entries and pathways are accessible and easy to identify	Provided.	Yes
<b>Design guidance</b> Building access areas including lift lobbies, stairwells and hallways should be clearly visible from the public domain and communal spaces	Clearly visible primary pedestrian access to Park Road and Berry Road with lifts, ramps and stairs, and within the basement parking areas.	
The design of ground floors and underground car parks minimise level changes along pathways and entries	Satisfactory.	
Steps and ramps should be integrated into the overall building and landscape design.	Highly integrated into landscape design with no bends or returns and maximise potential for landscaping.	

For large developments 'way finding' maps should be provided to assist visitors and residents (see figure 4T.3)	Would be provided, if required.	
For large developments electronic access and audio/video intercom should be provided to manage access	Would be provided, if required.	
Objective 3G-3		
Large sites provide pedestrian links for access to streets and connection to destinations		Yes
<ul> <li>Design guidance</li> <li>Pedestrian links through sites facilitate direct connections to open space, main streets, centres and public transport</li> <li>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</li> </ul>	No east-west pedestrian link is required to be provided by Areas 22 and 23. However a new DCP Road is required to provide a mid-block connection between Park Road and Berry Road. The new road would enable greater pedestrian access and connections through the site. The DCP New Road with pedestrian footpaths either side would have clear sightlines, is viewed by habitable rooms of buildings with Areas 22 and 23 and would be well lit.	
3H Vehicle access		
Objective 3H-1		
Vehicle access points are designed and located to achieve safety, minimise conflicts between pedestrians and vehicles and create high quality streetscapes	Complies	Yes
<b>Design guidance</b> Car park access should be integrated with the building's overall facade. Design solutions may include:	Vehicular access point off southern end of Park	
the materials and colour palette to minimise visibility from the street security doors or gates at entries that minimise voids in the facade where doors are not provided, the visible interior reflects the facade design and the building services, pipes and ducts are concealed	Road and integrated with the proposed design	
Car park entries should be located behind the building line	Not possible in this instance.	
Vehicle entries should be located at the lowest point of the site minimising ramp lengths, excavation and impacts on the building form and layout	Provided at the lowest point on Park Road.	
Car park entry and access should be located on secondary streets or lanes where available	Provided at Park Road could be considered a secondary street frontage.	
Vehicle standing areas that increase driveway width and encroach into setbacks should be avoided	No vehicle standing areas proposed. Appropriate driveway widths to be maintained where possible and is satisfactory.	

Access point locations should avoid headlight glare to habitable rooms	Access point is double height opening. Headlight glare voided. The 2 <sup>nd</sup> floor balconies (Units A.B1.09 and A.B1.10) above double height vehicle opening are 2.8m in depth and provide further setback for habitable rooms.	
Adequate separation distances should be provided between vehicle entries and street intersections	Assessed by Council's Traffic Section as being adequate.	
The width and number of vehicle access points should be limited to the minimum	Limited to one vehicle access point from Park Road and supported by Council's Traffic Section.	
Visual impact of long driveways should be minimised through changing alignments and screen planting	Driveway is only 4m long. Satisfactorily designed.	
The need for large vehicles to enter or turn around within the site should be avoided	Occurs within basement and appropriately designed for.	
Garbage collection, loading and servicing areas are screened	Garbage collection loading and servicing screened within the basement area.	
Clear sight lines should be provided at pedestrian and vehicle crossings	Closest ground floor balcony would be setback 8.5m from driveway entrance (separated by landscaping and lobby entry) and to ensure no structures which would impede sight lines.	
Traffic calming devices such as changes in paving material or textures should be used where appropriate	Not required.	
Pedestrian and vehicle access should be separated and distinguishable. Design solutions may include:	Pedestrian and vehicle access adequately separated and are clearly distinguishable.	
changes in surface materials, level changes the use of landscaping for separation 3J Bicycle and car parking	Provided.	
Objective 3J-1 Car parking is provided based on proximity to public transport in metropolitan Sydney and centres in regional areas	Parking provided in accordance with Council's DCP rather than the ADG.	Yes
Design criteria		
For development in the following 1. locations:		
on sites that are within 800 metres of a railway station or light rail stop in the Sydney Metropolitan Area; or		
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 <b>Design guidance</b> Where a car share scheme operates locally, provide car share parking spaces within the development. Car share spaces, when provided, should be on site		
Where less car parking is provided in a development, council should not provide on street resident parking permits		
Objective 3J-2 Parking and facilities are provided for other modes of transport	Suitable additional other modes of transport are available including bicycles and motorcycles.	Yes
<ul> <li>Design guidance</li> <li>Conveniently located and sufficient numbers of parking spaces should be provided for motorbikes and scooters</li> <li>Secure undercover bicycle parking should be provided that is easily accessible from both the public domain and common areas</li> <li>Conveniently located charging stations are provided for electric vehicles, where desirable</li> </ul>	The development includes 36 motorcycle parking spaces 79 bicycle parking spaces are proposed for residents and 32 bicycle parking spaces are proposed for visitors. Spaces located in ground floor basement of buildings C and D, visitor bicycle parking spaces located in basement 3 in storage room adjacent to Park Road vehicle entrance.	
	Bicycle repair and workshop is proposed to be located within the level 1 basement carpark of building D.	
Objective 3J-3 Car park design and access is safe and secure <b>Design guidance</b> 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	Car park design has been reviewed and is consistent with Objective 3J-3 to provide for safe and secure access.	Yes

Direct, clearly visible and well-lit access should be provided into common circulation areas		
A clearly defined and visible lobby or waiting area should be provided to lifts and stairs		
For larger car parks, safe pedestrian access should be clearly defined and circulation areas have good lighting, colour, line marking and/or bollards		
Objective 3J-4		Yes
Visual and environmental impacts of underground car parking are minimised	Underground carpark is well integrated with building and not visible from the public domain.	
<b>Design guidance</b> Excavation should be minimised through efficient car park layouts and ramp design	Utilises existing basement/car parking layout where possible.	
Car parking layout should be well organised, using a logical, efficient structural grid and double loaded aisles	The parking layout is well-designed and double loaded aisles provided where possible.	
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	Minor portion of the above ground car parking proposed	
Natural ventilation should be provided to basement and sub-basement car parking areas	Ventilation would be detailed at Construction Certificate stage.	
Ventilation grills or screening devices for car parking openings should be integrated into the facade and landscape design	Achieved	
Objective 3J-5		N/A
Visual and environmental impacts of on-grade car parking are minimised		
<i>Design guidance</i> On-grade car parking should be avoided	No on-grade parking is proposed	
Where on-grade car parking is unavoidable, the following design solutions are used:		
parking is located on the side or rear of the lot away from the primary street frontage cars are screened from view of streets, buildings, communal and private open space areas safe and direct access to building entry points is provided parking is incorporated into the landscape design of the site, by extending planting and materials into the car park space stormwater run-off is managed appropriately from car parking surfaces		
bio-swales, rain gardens or on-site detention tanks are provided, where appropriate		

light coloured paving materials or permeable paving systems are used and shade trees are planted between every 4-5 parking spaces to reduce increased surface temperatures from large areas of paving		N/A
<i>Objective 3J-6</i> Visual and environmental impacts of above ground enclosed car parking are minimised	No above ground parking is proposed	N/A
<b>Design guidance</b> Exposed parking should not be located along primary street frontages		
Screening, landscaping and other design elements including public art should be used to integrate the above ground car parking with the facade. Design solutions may include:		
car parking that is concealed behind the facade, with windows integrated into the overall facade design (approach should be limited to developments where a larger floor plate podium is suitable at lower levels) car parking that is 'wrapped' with other uses, such as retail, commercial or two storey Small Office/Home Office (SOHO) units along the street frontage (see figure 3J.9) Positive street address and active frontages should be provided at ground level		

ADG Ref Item description		Proposal	Compliance
PART 4 Designing the building			
4A Solar	and daylight access		
Objectiv	re 4A-1	The proposal provides for the following:	
To optimise the number of apartments receiving sunlight to habitable rooms, primary windows and private open space			Yes
Design 1.	<i>criteria</i> 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 <b>Sydney Metropolitan Area</b> and in the Newcastle and Wollongong local government areas	78% apartments exceed a compliant 2 hours solar access to Living rooms and POS during mid-winter between 9am and 3pm.	
2	In all other areas, living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 3 hours direct sunlight between 9 am and 3 pm at mid-winter	Complies	
3 Design	A maximum of 15% of apartments in a building receive no direct sunlight between 9 am and 3 pm at mid-winter guidance	Area 23: 5.4% of units receive no direct sunlight at mid-winter Area 22: 2% of units receive no direct sunlight at mid-winter. 4% overall. Complies.	

ADG Ref Item description	Proposal	Compliance
The design maximises north aspect and the number of single aspect south facing apartments is minimised Single aspect, single storey apartments should have a northerly or easterly aspect	South facing apartments avoided where possible. Positioning windows face southern building that will reflect light	
Living areas are best located to the north and service areas to the south and west of apartments	In line with ADG design criteria.	
To optimise the direct sunlight to habitable rooms and balconies a number of the following design features are used:	Satisfactory	
<ul> <li>dual aspect apartments</li> <li>shallow apartment layouts</li> <li>two storey and mezzanine level apartments</li> <li>bay windows</li> </ul>	The proposal provides for a high number of dual aspect apartments where possible	
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	Provided	
Achieving the design criteria may not be possible on some sites. This includes:		
<ul> <li>where greater residential amenity can be achieved along a busy road or rail line by orientating the living rooms away from the noise source</li> <li>on south facing sloping sites</li> <li>where significant views are oriented away from the desired aspect for direct sunlight</li> </ul>		
Design drawings need to demonstrate how site constraints and orientation preclude meeting the design criteria and how the development meets the objective	Provided. Constraints of south facing apartments on a sloping site facing River Road have been acknowledged and incorporated into the design. Balconies that can function as winter-gardens.	
Objective 4A-2		Mar
Daylight access is maximised where sunlight is limited		Yes
<b>Design guidance</b> Courtyards, skylights and high-level windows (with sills of 1,500mm or greater) are used only as a secondary light source in habitable rooms	Achieved – high level windows on levels 1, 2 and 3 within recessed building breaks are secondary sources of light.	
Where courtyards are used:	Ground floor courtyards are generally open to the sky.	
use is restricted to kitchens, bathrooms and service areas building services are concealed with appropriate detailing and materials to visible walls courtyards are fully open to the sky	Can comply.	
access is provided to the light well from a communal area for cleaning and maintenance acoustic privacy, fire safety and minimum privacy separation distances (see section 3F Visual privacy) are achieved	Reflected light is optimsed where possible. Including high reflectivity ('Cool Roofing')	

ADG Ref Item description	Proposal	Compliance
Opportunities for reflected light into apartments are optimised through:		
reflective exterior surfaces on buildings opposite south facing windows		
positioning windows to face other buildings or surfaces (on neighbouring sites or within the site) that will reflect light		
integrating light shelves into the design light coloured internal finishes		
<i>Objective 4A-3</i> Design incorporates shading and glare control, particularly for warmer months	Passive solar shading has been incorporated into the design, such as vertical louvres and screens, vertical	Yes
<i>Design guidance</i> A number of the following design features are used:	blade walls, privacy screens and balconies.	
balconies or sun shading that extend far enough to shade summer sun, but allow winter sun to penetrate		
living areas shading devices such as eaves, awnings, balconies, pergolas, external louvres and planting		
horizontal shading to north facing windows vertical shading to east and particularly west facing windows		
operable shading to allow adjustment and choice high performance glass that minimises external glare off windows, with consideration given to reduced tint		
glass or glass with a reflectance level below 20% (reflective films are avoided)		
4B Natural ventilation		Yes
Objective 4B-1		163
All habitable rooms are naturally ventilated	Provided where possible.	
Design guidance		
The building's orientation maximises capture and use of prevailing breezes for natural ventilation in habitable rooms	All habitable rooms have openable windows or doors.	
Depths of habitable rooms support natural ventilation	Compliant. Apartment depths are limited to 12m for open plan layout to maximise	
The area of unobstructed window openings should be equal to at least 5% of the floor area served	airflow.	
Light wells are not the primary air source for habitable rooms	Provided.	
	Provided.	
Doors and openable windows maximise natural ventilation opportunities by using the following design solutions:	Not relied upon.	
adjustable windows with large effective openable areas	Large openable areas provided to apartments on all elevations to maximise natural ventilation.	
a variety of window types that provide safety and flexibility such as awnings and louvres windows which the occupants can reconfigure to funnel breezes into the apartment such as vertical		

ADG Ref Item description	Proposal	Compliance
louvres, casement windows and externally opening		
doors		

Objective 4B-2	Double existing and in accordance with actin	Maa
The layout and design of single aspect apartments maximises natural ventilation	Depth minimised in accordance with ratio for single aspect apartments, to maximise natural ventilation.	Yes
Design guidance		
Apartment depths are limited to maximise ventilation and airflow (see also figure 4D.3)		
Natural ventilation to single aspect apartments is achieved with the following design solutions:		
primary windows are augmented with plenums and light wells (generally not suitable for cross ventilation) stack effect ventilation / solar chimneys or similar to naturally ventilate internal building areas or rooms such as bathrooms and laundries 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		Yes
The number of apartments with natural cross ventilation is maximised to create a comfortable indoor environment for residents		
Design criteria		
<ol> <li>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</li> </ol>	64% of apartments directly achieved cross-ventilation compliance based on the ADG design criteria.	
<ol> <li>Overall depth of a cross-over or cross-</li> <li>through apartment does not exceed 18m, measured glass line to glass line</li> </ol>	Cross over units do not exceed 18m glass line to glass line.	
Design guidance		
The building should include dual aspect apartments, cross through apartments and corner apartments and limit apartment depths	Achieved where possible.	
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) (see figure 4B.4)	Achieved.	
Apartments are designed to minimise the number of corners, doors and rooms that might obstruct airflow	Achieved where possible.	

Apartment type Minimum internal area		
Apartments are required to have the 1. following minimum internal areas:		
well organised and provides a high standard of amenity Design criteria		
The layout of rooms within an apartment is functional,	Provided.	Yes
Objective 4D-1	Dravidad	Vee
4D Apartment size and layout		
use over the life of the building <b>Design guidance</b> 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 (see figure 4C.1)		
Ceiling heights contribute to the flexibility of building	Provided.	Yes
<ul> <li>Design guidance</li> <li>A number of the following design solutions can be used:</li> <li>the hierarchy of rooms in an apartment is defined using changes in ceiling heights and alternatives such as raked or curved ceilings, or double height spaces well-proportioned rooms are provided, for example, smaller rooms feel larger and more spacious with higher ceilings</li> <li>ceiling heights are maximised in habitable rooms by ensuring that bulkheads do not intrude. The stacking of service rooms from floor to floor and coordination of bulkhead location above non-habitable areas, such as robes or storage, can assist.</li> </ul>	Provided	Yee
Objective 4C-2 Ceiling height increases the sense of space in apartments and provides for well-proportioned rooms	Proposal exceeds the minimum floor to ceiling heights of the ADG.	Yes
Minimum ceiling height 2.7m (residential) 3.3m commercial	3.2m floor to floor heights achieved. Minimum 2.7m for habitable. Minimum 2.4m for non-habitable.	Yes
Design criteriaMeasured from finished floor level to1.finished ceiling level, minimum ceilingheights are:		
<i>Objective 4C-1</i> Ceiling height achieves sufficient natural ventilation and daylight access	Achieved. 3.2m floor to floor heights achieved	Yes
Apartment depths, combined with appropriate ceiling heights, maximise cross ventilation and airflow	Achieved	

Studio35m2The proposed apartment sizes are consistent with the minimum apartment sizes and are exceeded.1 bedroom50m2consistent with the minimum apartment sizes and are exceeded.2 bedroom90m2abedroom4 bedroom102sqmace exceeded.The minimum internal areas include only one bathroom. Additional bathrooms increase the minimum internal area by 5 sqm eachAchievedA fourth bedroom and further additional bedrooms increase the minimum internal area by 1 sqm each.AchievedEvery habitable room must have a window in an external wall with a total minimum glass area of notProvided. There is no borrowed light to	Yes
2 bedroom70m2sizes and are exceeded.3 bedroom90m24 bedroom102sqmThe minimum internal areas include only one bathroom. Additional bathrooms increase the minimum internal area by 5 sqm each A fourth bedroom and further additional bedrooms increase the minimum internal area by 1 sqm each.AchievedEvery habitable room must have a window in anEvery habitable room must have a window in anEvery habitable room must have a window in an	Yes
3 bedroom       90m2         4 bedroom       102sqm         The minimum internal areas include only one bathroom.       Achieved         Additional bathrooms increase the minimum internal area       Achieved         by 5 sqm each       A fourth bedroom and further additional bedrooms increase the minimum internal area by 1 sqm each.         Every habitable room must have a window in an       Description of the state of the	Yes
4 bedroom       102sqm         The minimum internal areas include only one bathroom.       Achieved         Additional bathrooms increase the minimum internal area       Achieved         by 5 sqm each       A fourth bedroom and further additional bedrooms increase the minimum internal area by 1 sqm each.         Every habitable room must have a window in an       Desited bath Times to be back to be b	Yes
The minimum internal areas include only one bathroom. Additional bathrooms increase the minimum internal area by 5 sqm each A fourth bedroom and further additional bedrooms increase the minimum internal area by 1 sqm each.AchievedEvery habitable room must have a window in anEvery habitable room must have a window in anEvery habitable room must have a window in an	Yes
Additional bathrooms increase the minimum internal area by 5 sqm each A fourth bedroom and further additional bedrooms increase the minimum internal area by 1 sqm each.	Yes
by 5 sqm each       A fourth bedroom and further additional bedrooms increase the minimum internal area by 1 sqm each.         Every habitable room must have a window in an	
A fourth bedroom and further additional bedrooms increase the minimum internal area by 1 sqm each. Every habitable room must have a window in an	
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increase the minimum internal area by 1 sqm each.         Every habitable room must have a window in an	
Every habitable room must have a window in an	
external wall with a total minimum glass area of not in Flovided. There is no borrowed light to	Yes
	165
loop than row of the hoef aloa of the room. Daylight	
and air may not be borrowed from other rooms	
Design guidance	
Kitchens should not be located as part of the main	
circulation space in larger apartments (such as	
hallway or entry space) Provided where possible.	
A window should be visible from any point in a	
habitable room Provided where possible.	
Habitable footh	
Where minimum areas or room dimensions are not	
met apartments need to demonstrate that they are N/A. Minimum areas and dimensions have	
well designed and demonstrate the usability and been met.	
functionality of the space with realistically scaled	
furniture layouts and circulation areas. These	
circumstances would be assessed on their merits	
Objective 4D-2	
Environmental performance of the apartment is Provided. Consistent with ADG	Yes
maximised Requirements.	
Design suiteris	
Design criteria	
Habitable room depths are limited to a maximum of	
2.5 x the ceiling height Where possible, apartment depths are	
kitchen are combined) the maximum habitable room depth is 8m from a window	
Noted.	
Design guidance	
Greater than minimum ceiling heights can allow for	
proportional increases in room depth up to the	
permitted maximum depths	
All living areas and bedrooms should be located on	
the external face of the building	
Objective 4D-3	
Provided Consistent with ADC	Yes
Apartment layouts are designed to accommodate a	103
variety of household activities and needs	
Design criteria	
Master bedrooms have a minimum area of	
1. 10m2 and other bedrooms 9m2 (excluding Minimum dimension achieved and shown	
wardrobe space) on plans.	

r				
0	Bedrooms have a minimum		Achieved and detailed on plans.	
2	3m (excluding wardrobe spa	ace)	Minimum width achieved.	
	Living rooms or combine	d livina/dinina		
3 rooms have a minimum width of:				
	<ul> <li>3.6m for studio and</li> </ul>	1-bedroom	Drewided where peecible	
	apartments		Provided where possible.	
	<ul> <li>4m for 2 and 3-bedr</li> </ul>	room		
	apartments	and a three states		
4	The width of cross-over or apartments are at least 4r avoid deep narrow apartme	m internally to	Provided where possible.	
Docian a		ni layouts	Provided.	
Design gu	o bedrooms, bathrooms and	d laundries is		
	from living areas mini			
	between living and service ar		Usable floor area maximised and suitable	
	ama allaw a minimum langu	th of 1 Em for	flexibility in space, with a focus of the layouts provided.	
All bedroo	oms allow a minimum lengt			
	bedroom of an apartmen			
	should be provided with a 1.8m long, 0.6m deep and 2.			
mmmun	1.011 long, 0.011 deep and 2.	mmign		
	t layouts allow flexibility ove	er time, design		
solutions r	may include:			
● dii	mensions that facilitate a vari	iety of furniture		
	rangements and removal			
	baces for a range of activities	and privacy		
levels between different spaces within the apartment				
dual master apartments				
<ul> <li>dual key apartments Note: dual key</li> </ul>				
apartments which are separate but on the				
	ame title are regarded as two			
occupancy units for the purposes of the Building Code of Australia and for calculating				
the mix of apartments				
. room sizes and proportions or open plans				
· · ·	ar spaces (2:3) are more e	asily furnished		
	re spaces (1:1)) ficient planning of circulati	ion by stairs		
	and through rooms to maximi			
	floor space in rooms			
	open space and balconies			
Objective 4E-1			Yes	
	ts provide appropriately size			
space and	I balconies to enhance reside	ential amenity		
	All apartments are required to	o have primarv		
1.				
Dwalling to	Minimum and I	Minimum dauth	Achieved.	Yes
Dwelling ty Studio	-	Minimum depth. V/A		162
1 bedroom		N/A 2.0m	Apartments are provided with storage	
2 bedroom		2.0m	facilities meeting or exceeding the ADG	
3 bedroom	12m2 2	2.4m	requirements.	

The minimum balcony depth to be counted as contributing		
to the balcony area is 1m		
For apartments at ground level or on a podium or similar structure, a private open space is provided instead of a balcony. It must have a minimum area of 15m2 and a minimum depth of 3m	Provided.	Yes
Design guidance		
Increased communal open space should be provided where the number or size of balconies are reduced	Not applicable.	Yes
Storage areas on balconies is additional to the minimum balcony size	None proposed.	
Balcony use may be limited in some proposals by: consistently high wind speeds at 10 storeys and above close proximity to road, rail or other noise sources exposure to significant levels of aircraft noise heritage and adaptive reuse of existing buildings		
In these situations, juliet balconies, operable walls, enclosed wintergardens 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. Natural ventilation also needs to be demonstrated	The amended design converted a number of the balconies of the lower-level units fronting River Road to operate as winter gardens. This results in better amenity from traffic noise of River Road. The winter gardens will have full height operable louvers and can be opened to ensure natural ventilation and function as open balconies.	
Objective 4E-2		
Primary private open space and balconies are appropriately located to enhance liveability for residents	Appropriately located.	Yes
<b>Design guidance</b> Primary open space and balconies should be located adjacent to the living room, dining room or kitchen to extend the living space	Provided.	
Private open spaces and balconies predominantly face north, east or west	Face east or west or north predominantly with the exception of south facing dwellings slope fronting River Road.	
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	Provided.	
Objective 4E-3		
Private open space and balcony design is integrated into and contributes to the overall architectural form and detail of the building	Well integrated.	Yes
<b>Design guidance</b> 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	Combination of balustrading materials proposed.	

balcony. Solid and partially solid balustrades are		
preferred		
Full width full height glass balustrades alone are generally not desirable	A range of treatments proposed. Glass balustrades at upper level are accompanied by moveable privacy screens for environmental performance.	
	No unduly projected balconies.	
Projecting balconies should be integrated into the building design and the design of soffits considered	Provided where possible.	
Operable screens, shutters, hoods and pergolas are used to control sunlight and wind	Suitable landscape buffer or screening provided.	
Balustrades are set back from the building or balcony edge where overlooking or safety is an issue		
Downpipes and balcony drainage are integrated with the overall facade and building design	Successfully integrated within screened roof top plant enclosure.	
Air-conditioning units should be located on roofs, in basements, or fully integrated into the building design	Achieved. Centralised air conditioning	
Where clothes drying, storage or air conditioning units are located on balconies, they should be screened and integrated in the building design	system with units located on roof tops behind screened condenser enclosure.	
Ceilings of apartments below terraces should be insulated to avoid heat loss	To be screened.	
Water and gas outlets should be provided for primary balconies and private open space	Designed in accordance with BASIX.	
	Guidance only.	
Objective 4E-4	Achieved. balustrades require to be BCA	Yes
Private open space and balcony design maximises safety	compliant.	103
<b>Design guidance</b> Changes in ground levels or landscaping are minimised	Achieved where possible on sloping site.	
4F Common circulation and spaces		
Objective 4F-1		Yes
Common circulation spaces achieve good amenity and properly service the number of apartments		
Design criteria		
The maximum number of apartments off 1. a circulation core on a single level is eight	Satisfactory in this instance.	
<ul> <li>For buildings of 10 storeys and over, the maximum number of apartments sharing a single lift is 40</li> </ul>	Satisfactory in this instance.	
Design guidance		
	II	

Achieved where possible.	
All common lobby corridors have access to natural light.	
Achieved where possible.	
Satisfactory. Multiple windows on eastern and southern ends of common corridors.	
Achieved.	
Complian	
Complies.	
Lobby areas are well-designed and secured.	Yes
	All common lobby corridors have access to natural light. Achieved where possible. Satisfactory. Multiple windows on eastern and southern ends of common corridors. Achieved. Complies.

Tight corners and spaces are avoided		
Circulation spaces should be well lit at night		
Legible signage should be provided for apartment numbers, common areas and general wayfinding		
Incidental spaces, for example space for seating in a corridor, at a stair landing, or near a window are provided		
In larger developments, community rooms for activities such as owner's corporation meetings or resident use should be provided and are ideally co- located with communal open space		
Where external galleries are provided, they are more open than closed above the balustrade along their length		
<i>Objective 4G-1</i> Adequate, well designed storage is provided in each apartment	Storage complies.	Yes
Design criteria		
<ol> <li>In addition to storage in kitchens,</li> <li>bathrooms and bedrooms, the following storage is provided:</li> </ol>		
Dwelling type Storage size volume		
Studio4m21 bedroom6m22 bedroom8m23 bedroom10m2At least 50% of the required storage is to be located within the apartment.	Can comply with suitable areas in the basement and within each unit. Built-in storage provided to all bedrooms and living rooms. All units have 50% of the storage internal to the unit.	Yes
<b>Design guidance</b> Storage is accessible from either circulation or living areas. Storage provided on balconies (in addition to the minimum balcony size) is integrated into the balcony design, weather proof and screened from view from the street Left over space such as under stairs is used for storage	Satisfactory.	Yes
Objective 4G-2	Satisfactory.	Yes
Additional storage is conveniently located, accessible and nominated for individual apartments		
Design guidance		
Storage not located in apartments is secure and clearly allocated to specific apartments		
Storage is provided for larger and less frequently accessed items		
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		

If communal storage rooms are provided they should be accessible from common circulation areas of the building		
Storage not located in an apartment is integrated into the overall building design and is not visible from the public domain		
4H Acoustic privacy		
Objective 4H-1		
Noise transfer is minimised through the siting of buildings and building layout	Acoustic privacy addressed as per recommendations of acoustic assessment.	Yes
<b>Design guidance</b> Adequate building separation is provided within the development and from neighbouring buildings/adjacent uses (see also section 2F Building separation and section 3F Visual privacy)	Acoustic privacy further addressed- condition added. See conditions F8A and F8B in draft conditions.	
Window and door openings are generally orientated away from noise sources		
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		
Storage, circulation areas and non-habitable rooms should be located to buffer noise from external sources		
The number of party walls (walls shared with other apartments) are limited and are appropriately insulated		
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		
Objective 4H-2		
Noise impacts are mitigated within apartments through layout and acoustic treatments	Acoustic privacy addressed as per recommendations of acoustic assessment.	Yes
<b>Design guidance</b> Internal apartment layout separates noisy spaces from quiet spaces, using a number of the following design solutions:	Acoustic privacy further addressed- condition added. See conditions F8A and F8B in draft conditions.	
rooms with similar noise requirements are grouped together doors separate different use zones wardrobes in bedrooms are co-located to act as sound buffers		
Where physical separation cannot be achieved noise conflicts are resolved using the following design solutions:		
double or acoustic glazing acoustic seals use of materials with low noise penetration properties		

continuous walls to ground level courtyards where		
they do not conflict		
4J Noise and pollution		
Objective 4J-1 In noisy or hostile environments the impacts of external noise and pollution are minimised through the careful siting and layout of buildings	Acoustic privacy addressed- condition added. See conditions F8A and F8B in draft conditions.	Yes
<b>Design guidance</b> To minimise impacts the following design solutions may be used:		
physical separation between buildings and the noise or pollution source residential uses are located perpendicular to the noise source and where possible buffered by other uses non-residential buildings are sited to be parallel with the noise source to provide a continuous building that shields residential uses and communal open spaces non-residential uses are located at lower levels vertically separating the residential component from the noise or pollution source. Setbacks to the underside of residential floor levels should increase relative to traffic volumes and other noise sources buildings should respond to both solar access and noise. Where solar access is away from the noise source, non-habitable rooms can provide a buffer where solar access is in the same direction as the noise source, dual aspect apartments with shallow building depths are preferable (see figure 4J.4) landscape design reduces the perception of noise and acts as a filter for air pollution generated by traffic and industry Achieving the design criteria in this Apartment Design Guide may not be possible in some situations due to noise and pollution. Where developments are unable to achieve the design criteria, alternatives may be considered in the following areas:	The amended design converted a number of the balconies of the lower-level units fronting River Road to operate as winter gardens. This results in better amenity from traffic noise of River Road. The winter gardens will have full height operable louvers and can be opened to ensure natural ventilation and function as open balconies.	
solar and daylight access private open space and balconies natural cross ventilation <i>Objective 4J-2</i>		
Appropriate noise shielding or attenuation techniques for the building design, construction and choice of materials are used to mitigate noise transmission	Acoustic privacy addressed as per recommendations of acoustic assessment.	Yes
<ul> <li>Design guidance</li> <li>Design solutions to mitigate noise include:</li> <li>limiting the number and size of openings facing noise sources</li> <li>providing seals to prevent noise transfer through gaps using double or acoustic glazing, acoustic louvres or enclosed balconies (wintergardens)</li> <li>using materials with mass and/or sound insulation or absorption properties e.g. solid balcony balustrades, external screens and soffits</li> <li>4K Apartment mix</li> </ul>		

Objective AV A		
<i>Objective 4K-1</i> A range of apartment types and sizes is provided to cater for different household types now and into the future	The proposed apartment mix is appropriate being a suitable range of units proposed.	Yes
<b>Design guidance</b> A variety of apartment types is provided		
The apartment mix is appropriate, taking into consideration:		
the distance to public transport, employment and education centres the current market demands and projected future demographic trends the demand for social and affordable housing different cultural and socioeconomic groups		
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		
<i>Objective 4K-2</i> The apartment mix is distributed to suitable locations within the building	Provided.	Yes
<b>Design guidance</b> Different apartment types are located to achieve successful facade composition and to optimise solar access (see figure 4K.3)		
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		
4L Ground floor apartments		
<i>Objective 4L-1</i> Street frontage activity is maximised where ground floor apartments are located	Street frontage activity is maximized on Berry and Park Roads.	Yes
<b>Design guidance</b> Direct street access should be provided to ground floor apartments	Individual and communal access maximszed at Berry and Park Roads.	
Activity is achieved through front gardens, terraces and the facade of the building. Design solutions may include:	Access to secure outdoor POS areas of ground level dwellings fronting River Road via communal path on corner of River and	
both street, foyer and other common internal circulation entrances to ground floor apartments private open space is next to the street doors and windows face the street Retail or home office spaces should be located along street frontages	Park Road.	
Ground floor apartment layouts support small office home office (SOHO) use to provide future opportunities for conversion into commercial or retail		

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areas. In these cases provide higher floor to ceiling heights and ground floor amenities for easy conversion		
Objective 4L-2		
Design of ground floor apartments delivers amenity and safety for residents	Appropriate amenity and safety provided.	Yes
<b>Design guidance</b> Privacy and safety should be provided without obstructing casual surveillance. Design solutions may include:		
elevation of private gardens and terraces above the street level by 1-1.5m (see figure 4L.4) landscaping and private courtyards window sill heights that minimise sight lines into apartments integrating balustrades, safety bars or screens with the exterior design		
Solar access should be maximised through:	Solar access maximized.	
high ceilings and tall windows trees and shrubs that allow solar access in winter and shade in summer		
4M Facades		
Objective 4M-1		
Building facades provide visual interest along the street while respecting the character of the local area	The proposed façade provides a high level of visual interest.	Yes
<ul> <li>Design guidance</li> <li>Design solutions for front building facades may include:</li> <li>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</li> </ul>	Appropriate external materiality schedule submitted with the Development Application with a variety of finishes at both podium and tower levels.	
Building services should be integrated within the overall facade	Services are either within the basement, ground level to side boundary or on the rooftop.	
Building facades should be well resolved with an appropriate scale and proportion to the streetscape and human scale. Design solutions may include:	Proposal is highly resolved with proportional articulation, variation in balustrading finishes, ground and roof level landscaping.	
well composed horizontal and vertical elements variation in floor heights to enhance the human scale elements that are proportional and arranged in patterns public artwork or treatments to exterior blank walls grouping of floors or elements such as balconies and windows on taller buildings	Suitable analysis provided in the architectural plans of relationship in the existing streetscape of Park and River Roads.	
Building facades relate to key datum lines of adjacent buildings through upper level setbacks, parapets, cornices, awnings or colonnade heights	Amended design fully complies with the setback controls to create shadow lines and articulation.	

Objective 4N-1       Roof treatments are integrated into the building design and positively respond to the street       Roof service elements appropriately screened condenser       Yes         Design guidance       Roof service screened condenser       Condenser       Yes         Roof design relates to the street. Design solutions may include:       screened condenser       Yes         special roof features and strong corners       use of skillion or very low pitch hipped roofs       screened       condenser         breaking down the massing of the roof by using smaller elements to avoid bulk       using materials or a pitched form complementary to adjacent building       adjacent building         Roof treatments should be integrated with the building design. Design solutions may include:       roof design proportionate to the overall building size, scale and form       roof paterials compliment the building size, scale and form       roof paterials compliment the building size, scale and form       Yes         Objective 4N-2       Opportunities to use roof space for residential accommodation and open space are maximised       The proposal includes a highly functional roof top space should be provided with good levels of amenity. Design solutions may include:       Yes         penthouse apartments       dormer or clerestory windows openable skylights       Oppertive 4N-3       The roof incorporates solar panels.       Yes         Objective 4N-3       Roof design incorporates sustainability features       The roof incorporates solar panels.			
Building functions are expressed by the facadeProvided.YesBuilding entries should be clearly definedImportant corners are given visual prominence, through a change in articulation, materials or colour, roof expression or changes in heightImportant corners are given visual prominence, through a change in articulation, materials or colour, roof expression or changes in heightImportant corners are given visual prominence, through a color designThe apartment layout should be expressed externally through facede features such as party walls and floor slabsRoof designImportant corners4N Roof designObjective 4N-1Roof service elements appropriately integrated screened condenserYesRoof design relates to the street. Design solutions may include:Roof service elements appropriately integrated enclosures.YesSpecial roof factures and strong cornersscreened condenserScreened condenserYesus of skillion or very low pitch hipped roofsbreaking down the massing of the roof by using smaller elements to avoid builtScreened condenserYesroof design proportionate to the overall building size, scale and formCollective 4N-2Screened cond pape spaces on building size, scale and formYesObjective 4N-2Opportunities to use roof space for residential accommodation and open space should be provided with good levels of amenity. Design solutions may include:The proposal includes a highly functional roof building size, scale and formYesPerifourgianceCollective 4N-2Screened series partments domer or clerestory windows openable skylightsScreened series conditional roof space should be provided with good levels of amenity. Design solutions	with building articulation, balconies and deeper		
Building functions are expressed by the facade         Design guidance         Building entries should be clearly defined         Important corners are given visual prominence         trood expression or changes in height         The apartment layout should be expressed externally         through facade features such as party walls and floor         slabs         4N Roof design         Objective 4N-1         Roof treatments are integrated into the building design and positively respond to the street         Design guidance         Roof features and strong corners         using materials or a pitched form complementary to adjacent buildings         Roof treatments should be integrated with the building design. Design guidance form complementary to adjacent buildings         Roof treatments should be integrated with the building design. Design solutions may include:         roof materials corn pitched form complementary to adjacent buildings         Roof treatments should be privided with good levels of amenity. Design solutions may include:         Depentiones to use roof space for residential accommodation and open space are maximised         Design guidance         Habitable roof space should be provided with good levels of amenity. Design solutions may include:         penthouse apartments domer or clerestory windows openable skylights       pervided on roof tops subject to acceptable visual and acoustic privacy, cornfort levels, safe	Objective 4M-2		
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Important corners are given visual prominence through a change in articulation, materials or colour, roof expression or changes in heightImportant corners are given visual prominence through facade features such as party walls and floor slats4N Roof design Objective 4N-1Roof service elements appropriately integrated screened condenser enclosures.YesPosign guidance Roof freatments are integrated into the building design and positively respond to the street Design guidance Roof design relates to the street. Design solutions may include: special roof features and strong corners uses of skillion or very low pitch hipped roofs breaking down the massing of the roof by using smaller elements to avoid bulk using materials or a pitched form complementary to adjacent building seciel and form roof materials compliment the building sizel and form roof materials compliment the building service elements are integratedThe proposal includes a highly functional toofop communal open spaces on BuildingsC and D in Area 22.YesPopertunities to use for space for residential accommodation and open space are maximised Design guidance Habitable roof space should be provided with good levels of amenity. Design solutions may include: penatos explicits penatos explicitsThe roof incorporates solar panels.YesObjective 4N-3 Roof design incorporates sustainability featuresThe roof incorporates solar panels.Yes	Design guidance		
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through facade features such as party walls and floor slabs       Image: Content of the street	through a change in articulation, materials or colour,		
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Opportunities to use roof space for residential accommodation and open space are maximisedThe proposal includes a highly functional rooftop communal open spaces on Buildings C and D in Area 22.YesDesign guidance Habitable roof space should be provided with good levels of amenity. Design solutions may include: penthouse apartments dormer or clerestory windows openable skylights Open space is provided on roof tops subject to acceptable visual and acoustic privacy, comfort levels, safety and security considerationsThe roof incorporates solar panels.Yes	scale and form roof materials compliment the building service elements are integrated		
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Roof design incorporates sustainability features The roof incorporates solar panels. Yes	dormer or clerestory windows openable skylights Open space is provided on roof tops subject to acceptable visual and acoustic privacy, comfort levels,		
Design guidance	-	The roof incorporates solar panels.	Yes
	Design guidance		

Doof design movimises sales assess to exerting the		
Roof design maximises solar access to apartments during winter and provides shade during summer. Design solutions may include:		
the roof lifts to the north eaves and overhangs shade walls and windows from summer sun		
Skylights and ventilation systems should be integrated into the roof design		
40 Landscape design		
Objective 40-1		
Landscape design is viable and sustainable	The proposal landscaping has been provided to satisfaction of Council's	Yes
Design guidance	Landscape Architect and subject to conditions in compliance with Council's	
Landscape design should be environmentally sustainable and can enhance environmental performance by incorporating:	DCP, the Landscape Masterplan, maintenance strategies and appropriately	
diverse and appropriate planting bio-filtration gardens	selected tree plantings for canopy cover in the medium to long term.	
appropriately planted shading trees areas for residents to plant vegetables and herbs composting		
green roofs or walls		
Ongoing maintenance plans should be prepared		
Microclimate is enhanced by:		
<ul> <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 shade structures such as pergolas for balconies and courtyards</li> <li>Tree and shrub selection consider size at maturity and the potential for roots to compete (see Table 4)</li> </ul>		
Objective 40-2	Council's Landscape Assessment	
Landscape design contributes to the streetscape and amenity	Architect is of the view the streetscape planting is highly developed and would soften the visual impact of the building	Yes
Design guidance	within the streetscape.	
Landscape design responds to the existing site conditions including:		
changes of levels views		
significant landscape features including trees and rock outcrops		
Significant landscape features should be protected by:		
tree protection zones (see figure 40.5) appropriate signage and fencing during construction Plants selected should be endemic to the region and		
reflect the local ecology		
4P Planting on structures		
Objective 4P-1	Appropriate soil profiles are provided	Yes

Appropriate soil profiles are provided		
<b>Design guidance</b> Structures are reinforced for additional saturated soil weight		
Soil volume is appropriate for plant growth, considerations include:		
modifying depths and widths according to the planting mix and irrigation frequency free draining and long soil life span tree anchorage Minimum soil standards for plant sizes should be provided in accordance with Table 5		
Objective 4P-2		
Plant growth is optimised with appropriate selection and maintenance	Council's Landscape Officers have worked in conjunction with the applicant's landscape architect to provide tree planting	Yes
<b>Design guidance</b> Plants are suited to site conditions, considerations include:	that is appropriate to the site, including the requirement for high quality irrigation, and maintenance.	
drought and wind tolerance seasonal changes in solar access modified substrate depths for a diverse range of plants plant longevity A landscape maintenance plan is prepared		
Irrigation and drainage systems respond to:		
changing site conditions soil profile and the planting regime whether rainwater, stormwater or recycled grey water is used		
Objective 4P-3		
Planting on structures contributes to the quality and amenity of communal and public open spaces	Planting on structures highly contribute to amenity of green spine and roof top gardens on Buildings C and D.	Yes
Design guidance		
Building design incorporates opportunities for planting on structures. Design solutions may include:		
green walls with specialised lighting for indoor green		
walls wall design that incorporates planting		
green roofs, particularly where roofs are visible from the public domain planter boxes		
Note: structures designed to accommodate green walls should be integrated into the building facade and consider the ability of the facade to change over time		
4Q Universal design		
Objective 4Q-1	Achieved	Yes

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Universal design features are included in apartment design to promote flexible housing for all community members		
<b>Design guidance</b> Developments achieve a benchmark of 20% of the total apartments incorporating the Liveable Housing		
Objective 4Q-2		
A variety of apartments with adaptable designs are provided	Achieved	Yes
<b>Design guidance</b> Adaptable housing should be provided in accordance with the relevant council policy		
Design solutions for adaptable apartments include:		
convenient access to communal and public areas high level of solar access minimal structural change and residential amenity loss when adapted larger car parking spaces for accessibility parking titled separately from apartments or shared car parking arrangements		
Objective 4Q-3		
Apartment layouts are flexible and accommodate a range of lifestyle needs	The design provides for suitable flexibility with provision of larger apartments where possible.	Yes
Design guidance		
Apartment design incorporates flexible design solutions which may include:		
rooms with multiple functions dual master bedroom apartments with separate bathrooms larger apartments with various living space options open plan 'loft' style apartments with only a fixed kitchen, laundry and bathroom		
4R Adaptive reuse		
Objective 4R-1	Achieved.	Yes
New additions to existing buildings are contemporary and complementary and enhance an area's identity and sense of place		
Design guidance		
Design solutions may include:		
new elements to align with the existing building additions that complement the existing character, siting, scale, proportion, pattern, form and detailing use of contemporary and complementary materials, finishes, textures and colours Additions to heritage items should be clearly identifiable from the original building		
New additions allow for the interpretation and future evolution of the building		

Objective 4R-2		
Adapted buildings provide residential amenity while not precluding future adaptive reuse	Achieved.	Yes
<b>Design guidance</b> Design features should be incorporated sensitively into adapted buildings to make up for any physical limitations, to ensure residential amenity is achieved. Design solutions may include:		
generously sized voids in deeper buildings alternative apartment types when orientation is poor using additions to expand the existing building envelope Some proposals that adapt existing buildings may not be able to achieve all of the design criteria in this Apartment Design Guide. Where developments are unable to achieve the design criteria, alternatives could be considered in the following areas:		
where there are existing higher ceilings, depths of habitable rooms could increase subject to demonstrating access to natural ventilation, cross ventilation (when applicable) and solar and daylight access (see also sections 4A Solar and daylight access and 4B Natural ventilation) alternatives to providing deep soil where less than the minimum requirement is currently available on the site building and visual separation – subject to demonstrating alternative design approaches to achieving privacy common circulation car parking alternative approaches to private open space and		
balconies 4S Mixed use		
Objective 4S-1		
Mixed use developments are provided in appropriate locations and provide active street frontages that encourage pedestrian movement	N/A – No active uses required for Areas 22 and 23.	N/A
Design guidance		
Mixed use development should be concentrated around public transport and centres		
Mixed use developments positively contribute to the public domain. Design solutions may include:		
development addresses the street active frontages are provided diverse activities and uses avoiding blank walls at the ground level live/work apartments on the ground floor level, rather than commercial		
Mixed use development should maximise retail and commercial <i>Objective 4S-2</i>	N/A Not a mixed-use development (100% residential).	N/A

Residential levels of the building are integrated within the development, and safety and amenity are maximised for residents <b>Design guidance</b> Residential circulation areas should be clearly defined. Design solutions may include: residential entries are separated from commercial entries and directly accessible from the street commercial service areas are separated from residential components residential car parking and communal facilities are separated or secured security at entries and safe pedestrian routes are provided concealment opportunities are avoided Landscaped communal open space should be provided at podium or roof levels <b>4T Awnings and signage</b>		
Objective 4T-1	Achieved with evenings	Vec
Awnings are well located and complement and integrate with the building design	Achieved with awnings.	Yes
Design guidance		
Awnings should be located along streets with high pedestrian activity and active frontages		
A number of the following design solutions are used:		
continuous awnings are maintained and provided in areas with an existing pattern height, depth, material and form complement the existing street character protection from the sun and rain is provided awnings are wrapped around the secondary frontages of corner sites awnings are retractable in areas without an established pattern Awnings should be located over building entries for building address and public domain amenity		
Awnings relate to residential windows, balconies, street tree planting, power poles and street infrastructure		
Gutters and down pipes should be integrated and concealed		
Lighting under awnings should be provided for pedestrian safety		
Objective 4T-2		N1/A
Signage responds to the context and desired streetscape character	No signage proposed at this stage.	N/A
Design guidance		

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Signage should be integrated into the building design and respond to the scale, proportion and detailing of the development		
Legible and discrete way finding should be provided for larger developments		
Signage is limited to being on and below awnings and a single facade sign on the primary street frontage		
4U Energy efficiency		
Objective 4U-1		
Development incorporates passive environmental design	BASIX provided.	Yes
Design guidance		
Adequate natural light is provided to habitable rooms (see 4A Solar and daylight access)		
Well located, screened outdoor areas should be provided for clothes drying		
Objective 4U-2	BASIX provided.	
Development incorporates passive solar design to optimise heat storage in winter and reduce heat transfer in summer		Yes
Design guidance		
A number of the following design solutions are used:		
the use of smart glass or other technologies on north and west elevations thermal mass in the floors and walls of north facing		
rooms is maximised polished concrete floors, tiles or timber rather than carpet		
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 (e.g. the basement)		
Objective 4U-3		
Adequate natural ventilation minimises the need for mechanical ventilation	Natural ventilation maximised where possible. ADG compliance with 60% of units receiving compliant cross ventilation.	Yes
Design guidance		
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		
4V Water management and conservation		
Objective 4V-1		
Potable water use is minimised	BASIX provided.	Yes

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Design guidance		
Water efficient fittings, appliances and wastewater reuse should be incorporated		
Apartments should be individually metered		
Rainwater should be collected, stored and reused on site		
Drought tolerant, low water use plants should be used within landscaped areas		
Objective 4V-2		
Urban stormwater is treated on site before being discharged to receiving waters	The proposal is provided with OSD and suitable water sensitive urban design measures are implemented.	Yes
Design guidance	•	
Water sensitive urban design systems are designed by a suitably qualified professional		
A number of the following design solutions are used:		
runoff is collected from roofs and balconies in water tanks and plumbed into toilets, laundry and irrigation porous and open paving materials is maximised on site stormwater and infiltration, including bio- retention systems such as rain gardens or street tree pits		
Objective 4V-3		
Flood management systems are integrated into site design	N/A	N/A
<b>Design guidance</b> Detention tanks should be located under paved areas, driveways or in basement car parks		
On large sites parks or open spaces are designed to provide temporary on site detention basins		
4W Waste management		
Objective 4W-1		
Waste storage facilities are designed to minimise impacts on the streetscape, building entry and amenity of residents	Waste management is proposed to occur on-site through a central waste collection area in the basement in each building. A linear Waste Chute System will be	Yes
Design guidance	provided for the development for the	
Adequately sized storage areas for rubbish bins should be located discreetly away from the front of the development or in the basement car park	reception of waste material only. Common areas e.g. pool, gym, green spine, music room will be supplied with suitably branded waste and recycling bins where considered	
Waste and recycling storage areas should be well ventilated	appropriate. Separate arrangements will be made for both recycling streams with compartments located on each floor of the	
Circulation design allows bins to be easily manoeuvred between storage and collection points	building for 240-litre recycling bins to be provided in each compartment.	
Temporary storage should be provided for large bulk items such as mattresses		
A waste management plan should be prepared		

Objective 4W-2       Provided.       Yes         Domestic waste is minimised by providing safe and convenient source separation and recycling cupboard or temporary storage area of sufficient size hold two days worth of waste and recycling cupboard or temporary storage area of sufficient size hold two days worth of waste and recycling communal waste and recycling rooms are in convenient and accessible locations related to each varital core       Provided.       Yes         For mixed use developments, residential waste and recycling storage areas and access should be separate and secure from other uses       Provided.       Yes         Atternative waste disposal methods such as composing should be provides provided <i>X-1</i> Provided.       Yes         Building design detail provides protection from weathering       Provided.       Yes         Design guidance A number of the following design solutions are used: roof overhangs to protect walls hoods over windows and doors to protect openings detailing forizontal edges with drip lines to avoid stating of surfaces methods to eliminate reduce planter box leaching appropriate design and material selection for hostile locations       Provided.       Yes         Digetive 4X-2 Systems and access enable ease of maintenance Design guidance       Provided.       Yes         Window design enables cleaning from the inside of the building and integrated into the design of the building form, nor and laccade       Provided.       Yes         Design solutions do not require external scaffolding for maintenance access within the building       provided.       Yes <th></th> <th></th> <th>ı</th>			ı
Design guidance         All dwellings should have a waste and recycling cupbord or temporary storage area of sufficient size to hold two days worth of waste and recycling         Communal waste and recycling rooms are in convenient and accessible locations related to each vertical core         For mixed use developments, residential waste and recycling storage areas and access should be separate and secure from other uses         Alternative waste disposal methods such as compositing should be provided         4X Building maintenance         Objective 4X-1 Building design detail provides protection from weathering         Design guidance A number of the following design solutions are used: roof overhangs to protex wills hoods over windows and doors to protect openings detailing horizontal deges with drip lines to avoid statining of surfaces methods to eliminate or reduce planter box leaching appropriate design and material selection for hostile locations       Provided.       Yes         Vindow design enables cleaning from the inside of the building       Provided.       Yes         Building maintenance systems should be incorporated and integrated into the design of the building form, roof and facade       Provided.       Yes         Design guidance Manually operated systems such as blinds, sunshades and curtains are used in preference to mechanical systems       Provided       Yes         Contralised maintenance, services and storage should be provided for communal open space areas within the building       Contralised maintenance, services and storage should be provided for communal open space areas       Ima		Provided.	Yes
convenient and accessible locations related to each vertical core       For mixed use developments, residential waste and recycling storage areas and access should be separate and secure from other uses       Alternative waste disposal methods such as compositing should be provided         4X Building maintenance       Objective 4X-1         Building design detail provides protection from weathering       Provided.         Objective 4X-1       Provided.         Building design detail provides protection from weathering       Provided.         Design guidance       Anumber of the following design solutions are used: roof overhangs to protect walls hoods aver windows and doors to protect openings detailing horizontal edges with drip lines to avoid starting of surfaces         Objective 4X-2       Systems and access enable ease of maintenance         Design guidance       Provided.         Window design enables cleaning from the inside of the building maintenance systems should be incorporated and integrated into the design of the building form, roof and facade         Design solutions do not require external scaffolding for maintenance access       Manually operated systems such as blinds, sunshades and ourtains are used in preference to mechanise systems         Centralised maintenance, services and storage should be provided for communal open space areas within the building       Unit of the design of the building form, roof and facade         Design solutions do not require external scaffolding for maintenance access       Solutions do not require external scaffolding for maintenance, services	<b>Design guidance</b> All dwellings should have a waste and recycling cupboard or temporary storage area of sufficient size		
recycling storage areas and access should be separate and secure from other uses Alternative waste disposal methods such as compositing should be provided <b>4X Building maintenance</b> <i>Objective 4X-1</i> Building design detail provides protection from weathering <i>Design guidance</i> 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 <i>Objective 4X-2</i> Systems and access enable ease of maintenance <i>Design guidance</i> Window design enables cleaning from the inside of the building Building maintenance systems should be incorporated and flacade Design solutions do not require external scaffolding for maintenance access Manually operated systems such as blinds, sunshades and curtains are used in preference to mechanical systems Centralised maintenance, services and storage should be provided for communal open space areas Within the building <i>Objective 4X-3</i>	convenient and accessible locations related to each		
composting should be provided       4X         AX Building maintenance       Coljective 4X-1         Building design detail provides protection from weathering       Provided.         Design guidance       A number of the following design solutions are used:         roof overhangs to protect walls       Provided.         housds 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       Provided.         Objective 4X-2       Systems and access enable ease of maintenance       Provided.         Design guidance       Window design enables cleaning from the inside of the building       Provided.         Window design of the building form, roof and facade       Design solutions do not require external scaffolding for maintenance excess       Provided.         Manually operated systems such as blinds, sunshades and curtains are used in preference to mechanical systems       Sunda torage should be provided for communal open space areas within the building         Objective 4X-3       Dipetive 4X-3       Sunshades to curtain are used in preference to mechanical systems	recycling storage areas and access should be		
Objective 4X-1       Building design detail provides protection from weathering       Provided.       Yes         Design guidance       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       Provided.       Yes         Objective 4X-2       Systems and access enable ease of maintenance       Provided.       Yes         Design guidance       Window design enables cleaning from the inside of the building       Provided.       Yes         Building maintenance systems should be incorporated and integrated into the design of the building form, roof and facade       Pesign solutions are used in preference to mechanical systems       Yes         Manually operated systems such as blinds, sunshades and curtains are used in preference to mechanical systems       Sector communal open space areas within the building       Objective 4X-3         Objective 4X-3       Systems       Systems       Sector Sec			
Objective 4X-1       Building design detail provides protection from weathering       Provided.       Yes         Design guidance       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       Provided.       Yes         Objective 4X-2       Systems and access enable ease of maintenance       Provided.       Yes         Design guidance       Window design enables cleaning from the inside of the building       Provided.       Yes         Building maintenance systems should be incorporated and integrated into the design of the building form, roof and facade       Pesign solutions are used in preference to mechanical systems       Yes         Manually operated systems such as blinds, sunshades and curtains are used in preference to mechanical systems       Sector communal open space areas within the building       Objective 4X-3         Objective 4X-3       Systems       Systems       Sector Sec	4X Building maintenance		
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and integrated into the design of the building form, roof       and facade         Design solutions do not require external scaffolding for       maintenance access         Manually operated systems such as blinds, sunshades and curtains are used in preference to mechanical systems       Eventsolution and storage should be provided for communal open space areas within the building         Objective 4X-3       Eventsolution and storage should be provided for communal open space areas within the building	Window design enables cleaning from the inside of the		
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should be provided for communal open space areas         within the building         Objective 4X-3	sunshades and curtains are used in preference to		
	should be provided for communal open space areas		
	Objective 4X-3	Provided.	Yes

Material selection reduces ongoing maintenance costs	
<b>Design guidance</b> A number of the following design solutions are used:	
sensors to control artificial lighting in common circulation and spaces natural materials that weather well and improve with time such as face brickwork easily cleaned surfaces that are graffiti resistant robust and durable materials and finishes are used in locations which receive heavy wear and tear, such as common circulation areas and lift interiors	