Edgecliff Centre — A	Apartment Design Guide A	Analysis - No	ovember 2020			
Clause Number Cl	lause Title	Objective	Design Criteria			fjmt Studio Commentary
PART 03 - SITING TH	HE DEVELOPMENT					
Si	ite Analysis	3A-1	Site analysis illustrates that desconditions and their relationship	=	opportunities and constraints of the site	Refer to Section of the report - Contextual Analysis
		3B-1	Building types and layouts resp development	oond to the streetscape and site whi	le optimising solar access within the	<ul> <li>Refer to the Envelope Development section of the report.</li> <li>The Apartments are located to optimise solar access and minimise overshadowing within the site and to the significant public domain elements, particularly to Trumper Park.</li> </ul>
O	rientation	3B-2	Overshadowing of neighbouring properties is minimised during mid winter		l winter	<ul> <li>The building forms and orientation have been composed to minimise overshadowing. The upper tower forms has been specifically crafted to avoid casting shadow on Trumper Park during the DCP specified window.</li> </ul>
Pt	ublic Domain Interface	3C-1	Transition between private and	public domain is achieved without c	ompromising safety and security	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement. Private spaces are generally elevated above public</li> </ul>
		3C-2	Amenity of the public domain is	s retained and enhanced		<ul> <li>All apartments are provided with private open space in the form of balconies. The lowest residential level sit above a buffer of Commercial space which provides good visual and acoustic separation from the public domain. Refer to the Public Domain Concept and Principles section of the report.</li> </ul>
	ommunal and Public pen Space	3D-1	<ol> <li>opportunities for landscaping</li> <li>Communal open space has</li> <li>Developments achieve a</li> </ol>	I open space is provided to enhance as a minimum area equal to 25% of minimum of 50% direct sunlight to to a minimum of 2 hours between 9 a	the site (see figure 3D.3)	<ul> <li>There is opportunity for generous residential amenities on Level 2 Mezzanine, Level 14 and 45 as indicated on the illustrative scheme drawings. These facilities can have access to an external landscaped terrace with good access to northern sun.</li> </ul>
		3D-2	Communal open space is designattractive and inviting	ned to allow for a range of activities	s, respond to site conditions and be	<ul> <li>The communal open space includes an elevated pool deck, elevated roof terrace and a dining area adjacent to communal facilities that also has access to a larger landscaped terrace.</li> </ul>
		3D-3	Communal open space is design	ned to maximise safety		<ul> <li>Passive surveillance of space and CPTED principles have been considered throughout the development and can be enhanced with CCTV coverage of the public domain and lobby areas.</li> </ul>
		3D-4	Public open space, where provi	ded, is responsive to the existing pa	ttern and uses of the neighbourhood	The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.
De	eep Soil Zone	3E-1	improve residential amenity and	d promote management of water and e following minimum requirements:	t healthy plant and tree growth. They d air quality  Deep Soil zone (% of site area) 7% 7% 7%	The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.
	ite Amenity - Visual rivacy	3F-1	reasonable levels of external ar Note: Separation distances bet separations depending on the t  Separation between win	ween buildings on the same site sho type of room dows and balconies is provided to e ration distances from buildings to the	ould combine required building  nsure visual privacy is achieved.	All building separation distances comply with the criteria.
		3F-2		nts increase privacy without compro		The Planning Proposal concept proposals achieve this requirement.
	ite Access - Pedestrian ccess and Entries	3G-1	Building entries and pedestrian	access connects to and addresses	the public domain	All entries and pedestrian ways address the greater public domain.

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		3G-2	Access, entries and pathways are accessible and easy to identify	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.</li> </ul>
		3G-3	Large sites provide pedestrian links for access to streets and connection to destinations	<ul> <li>The concept proposals meet this requirement and provides greater connectivity from the ground level to the elevated bus station.</li> </ul>
	Vehicle Access	3H-1	Vehicle access points are designed and located to achieve safety, minimise conflicts between pedestrians and vehicles and create high quality streetscapes	The basement access is located in the existing location, and is accessed via the slip road to the South of Mclean Street.
	Bicycle and Car Parking	3J-1	Car parking is provided based on proximity to public transport in metropolitan Sydney and centres in regional areas.  1. For development in the following 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.	The Planning Proposal concept proposals achieve this requirement.
		3J-2	Parking and facilities are provided for other modes of transport	<ul> <li>Bicycle parking is provided at a rate of either 1 secure bicycle cage per unit or a space in the open parking area located on Basement 1. There is also bicycle parking provided in the public domain on ground level (north).</li> </ul>
		3J-3	Car park design and access is safe and secure	The car park is secure with access directly to the residential lobby.
		3J-4	Visual and environmental impacts of underground car parking are minimised	Parking is underground in eight levels of basement.
		3J-5	Visual and environmental impacts of on-grade car parking are minimised	Parking is underground in eight levels of basement.
		3J-6	Visual and environmental impacts of above ground enclosed car parking are minimised	There is no above ground parking.
PART 04 - DESIG	GNING THE BUILDING			
	Solar and Daylight Access	4A-1	To optimise the number of apartments receiving sunlight to habitable rooms, primary windows and private open space  * Living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 2 hours direct sunlight between 9 am and 3 pm at mid winter in the Sydney Metropolitan Area and in the Newcastle and Wollongong local government areas  * 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  * A maximum of 15% of apartments in a building receive no direct sunlight between 9 am and 3 pm at mid winter	The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.
		4A-2	Daylight access is maximised where sunlight is limited	<ul> <li>All apartments have been designed to maximise their window openings to capture views and as a consequence optimise their access to sunlight be it direct, reflected or ambient.</li> </ul>
		4A-3	Design incorporates shading and glare control, particularly for warmer months	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.</li> </ul>
	Natural Ventilation	4B-1	All habitable rooms are naturally ventilated	<ul> <li>All apartments have operable windows with compliant open areas.</li> <li>All balconies have sliding doors opening into the living spaces to maximise ventilation</li> </ul>
		4B-2	The layout and design of single aspect apartments maximises natural ventilation	<ul> <li>Apartments are well orientated where possible to maximise the natural ventilation performance of apartments.</li> </ul>

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	4B-3	<ol> <li>The number of apartments with natural cross ventilation is maximised to create a comfortable indoor environment for residents.</li> <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> <li>Overall depth of a cross-over or cross-through apartment does not exceed 18m, measured glass line to glass line</li> </ol>	The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.
	4C-1	Ceiling height achieves sufficient natural ventilation and daylight access  1. Measured from finished floor level to finished ceiling level, minimum ceiling heights are:  Minimum ceiling height for apartment and mixed use buildings  * Habitable Rooms - 2.7m  * Non-Habitable Rooms - 2.4m  * Two Storey Apartments - 2.7m for living area floor and 2.4m for second floor where it's area does not exceed 50% of the apartment area.  * Attic Spaces - 1.8m at edge of room with a 30 degree minimum ceiling slope.  * If located in mixed use areas - 3.3m for ground and first floor to promote future flexibility of use.  These minimums do not preclude higher ceilings if desired	<ul> <li>All habitable rooms are capable of having a minimum ceiling height of 2.7m</li> <li>All non-habitable rooms are capable of having a minimum ceiling height of 2.4m</li> </ul>
	4C-2	Ceiling height increases the sense of space in apartments and provides for well proportioned rooms	<ul> <li>All habitable rooms are capable of having a minimum ceiling height of 2.7m</li> <li>All non-habitable rooms are capable of having a minimum ceiling height of 2.4m</li> <li>All ceiling mounted services are capable of being located in 2.4m ceilings over wet areas.</li> <li>Bulkheads do not protrude into habitable spaces</li> </ul>
	4C-3	Ceiling heights contribute to the flexibility of building use over the life of the building	<ul> <li>The proposed development is for a mixed use residential development</li> <li>The apartment ceiling heights comply with Objectives 4C1 and 2</li> </ul>
	4D-1	The layout of rooms within an apartment is functional, well organised and provides a high standard of amenity  1. Apartments are required to have the following minimum internal areas:  * 1 Bedroom	<ul> <li>All apartments in the illustrative scheme conform to the required minimum internal areas.</li> <li>Apartment sizes have been developed in accordance with the client brief and approvals on the development site whilst providing efficient apartment planning</li> <li>All habitable rooms in the illustrative scheme have windows which represent more than 10% of the floor area of the room.</li> </ul>
	4D-2	<ul> <li>Environmental performance of the apartment is maximised</li> <li>1. Habitable room depths are limited to a maximum of 2.5 x the ceiling height</li> <li>2. In open plan layouts (where the living, dining and kitchen are combined) the maximum habitable room depth is 8m from a window</li> </ul>	<ul> <li>All apartments in the illustrative scheme comply with the 8m to the back of the kitchen rule of thumb.</li> <li>All apartments in the illustrative scheme are open plan layouts, with living rooms and bedrooms located against the external envelope of the building to maximise natural light and ventilation.</li> </ul>
	4D-3	<ul> <li>Apartment layouts are designed to accommodate a variety of household activities and needs</li> <li>1. Master bedrooms have a minimum area of 10m2 and other bedrooms 9m2 (excluding wardrobe space)</li> <li>2. Bedrooms have a minimum dimension of 3m (excluding wardrobe space)</li> <li>3. Living rooms or combined living/dining rooms have a minimum width of: <ul> <li>* 3.6m for studio and 1 bedroom apartments</li> <li>* 4m for 2 and 3 bedroom apartments</li> </ul> </li> <li>4. The width of cross-over or cross-through apartments are at least 4m internally to avoid deep narrow apartment layouts</li> </ul>	<ul> <li>All apartments in the illustrative scheme comply with the minimum ADG bedroom sizes.</li> <li>All apartments in the illustrative scheme comply with the minimum ADG living room widths.         Penthouses have wider living rooms.     </li> </ul>

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Private Open Space and Balconies	4E-1	Apartments provide appropriately sized private open space and balconies to enhance residential amenity  * 1 Bedroom - 8m² - min 2m depth  * 2 Bedroom - 10m² - min 2m depth  * 3 Bedroom - 12m² - min 2.4m depth  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.	<ul> <li>All of the proposed apartment balcony areas satisfy the ADG objectives. The scheme results in the following range of balcony sizes:</li> <li>* 1 Bed External Area - 8m<sup>2</sup></li> <li>* 2 Bed External Area - 10m<sup>2</sup></li> <li>* 3 Bed External Area - 12m<sup>2</sup></li> </ul>
	4E-2	Primary private open space and balconies are appropriately located to enhance liveability for residents	Balconies are located off the living areas to maximise sunlight and views.
	4E-3	Private open space and balcony design is integrated into and contributes to the overall architectural form and detail of the building	<ul> <li>Balconies are located within the building envelope to become an integral part of the form.</li> <li>Operable screens and louvres are used to control sunlight and winds.</li> </ul>
	4E-4	Private open space and balcony design maximises safety	The proposed development satisfies the requirements of the objective.
Common Circulation and Spaces	4F-1	Common circulation spaces achieve good amenity and properly service the number of apartments  1. The maximum number of apartments off a circulation core on a single level is eight  2. For buildings of 10 storeys and over, the maximum number of apartments sharing a single lift is 40	• The maximum number of apartments off a circulation core on a single upper tower level is five (5).  The lower levels have a maximum of ten (10). In response to this the amenity of the circulation space is lifted by providing access to views and natural daylight immediately adjacent to the lifts.
	4F-2	Common circulation spaces promote safety and provide for social interaction between residents	<ul> <li>Areas in front of lifts and corridor widths allow for sufficient circulation space and interaction of residents.</li> </ul>
Storage	4G-1	In addition to storage in kitchens, bathrooms and bedrooms, the following storage is provided:  * 1 Bedroom - 6m3  * 2 Bedroom - 8m3  * 3 Bedroom - 10m3  At least 50% of the required storage is to be located within the apartment	The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.
	4G-2	Additional storage is conveniently located, accessible and nominated for individual apartments	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.</li> </ul>
Acoustic Privacy	4H-1	Noise transfer is minimised through the siting of buildings and building layout	<ul> <li>Generally apartments are arranged side by side to assist in the resolution of acoustic separation and zoning. Noise sources such as lift shafts and common corridors have also been taken into account.</li> </ul>
	4H-2	Noise impacts are mitigated within apartments through layout and acoustic treatments	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.</li> </ul>
Noise and Pollution	4J-1	In noisy or hostile environments the impacts of external noise and pollution are minimised through the careful siting and layout of buildings	<ul> <li>Generally apartments are arranged side by side to assist in the resolution of acoustic separation and zoning. Noise sources such as lift shafts and common corridors have also been taken into account.</li> </ul>
	4J-2	Appropriate noise shielding or attenuation techniques for the building design, construction and choice of materials are used to mitigate noise transmission	<ul> <li>Insulation will be provided to the facade walls to minimise noise. Elements of solid walls are provided to the balcony areas to further minimise noise transfer</li> </ul>
Apartment Mix	4K-1	A range of apartment types and sizes is provided to cater for different household types now and into the future	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.</li> </ul>
	4K-2	The apartment mix is distributed to suitable locations within the building	<ul> <li>The mix is distributed across the floors with the premium/larger apartments taking up position in the upper tower.</li> </ul>
Ground Floor Apartments	4L-1	Street frontage activity is maximised where ground floor apartments are located	Not applicable
	4L-2	Design of ground floor apartments delivers amenity and safety for residents	Not applicable
Facades	4M-1	Building facades provide visual interest along the street while respecting the character of the local area	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.</li> </ul>
	4M-2	Building functions are expressed by the facade	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.</li> </ul>
Roof Design	4N-1	Roof treatments are integrated into the building design and positively respond to the street	<ul> <li>The concept proposals for the roof has been developed to respond to the relative exposure of the building to the degree to which they are viewed from adjoining developments.</li> </ul>
	4N-2	Opportunities to use roof space for residential accommodation and open space are maximised	The concept proposals incorporate roof terraces where the building form steps.
	4N-3	Roof design incorporates sustainability features	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.</li> </ul>
Landscape Design	40-1	Landscape design is viable and sustainable	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.</li> </ul>
	40-2	Landscape design contributes to the streetscape and amenity	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.</li> </ul>

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	Planting on structures	4P-1	Appropriate soil profiles are provided	<ul> <li>Raised planters within the upper level terraces can provide sufficient soil depth for planting appropriately scaled plants.</li> </ul>	
		4P-2	Plant growth is optimised with appropriate selection and maintenance	Plant selection will be selected to achieve this requirement.	
		4P-3	Planting on structures contributes to the quality and amenity of communal and public open spaces	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.</li> </ul>	
	Universal Design	4Q-1	<ul> <li>Universal design features are included in apartment design to promote flexible housing for all community members</li> <li>Developments achieve a benchmark of 20% of the total apartments incorporating the Liveable Housing Guideline's silver level universal design features</li> </ul>	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and th developed proposal can achieve this requirement.</li> </ul>	
		4Q-2	A variety of apartments with adaptable designs are provided	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and the developed proposal can achieve this requirement.</li> </ul>	
		4Q-3	Apartment layouts are flexible and accommodate a range of lifestyle needs	<ul> <li>Equitable access is provided to all apartment doors in the illustrative scheme are in accordance AS1428.2</li> </ul>	
	Adaptive Reuse	4R-1	New additions to existing buildings are contemporary and complementary and enhance an area's identity and sense of place	Not applicable	
		4R-2	Adapted buildings provide residential amenity while not precluding future adaptive reuse	Not applicable	
	Mixed Use	4S-1	Mixed use developments are provided in appropriate locations and provide active street frontages that encourage pedestrian movement	<ul> <li>The project is a compliant mixed use development within the approved boundaries and given the retail locations and expected pedestrian activation of the precinct, the proposed development we achieve the objective.</li> </ul>	
		<b>4S-2</b>	Residential levels of the building are integrated within the development, and safety and amenity is maximised for residents	The proposed development satisfies the requirements of the objective.	
	Awning and Signage	4T-1	Awnings are well located and complement and integrate with the building design	The proposed development can satisfy the requirements of the objective.	
		4T-2	Signage responds to the context and desired streetscape character	Signage to be developed under separate application	
	Energy Efficiency	4U-1	Development incorporates passive environmental design  * 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	All apartments in the illustrative scheme to have internal drying facilities and balconies.	
		4U-2	Development incorporates passive solar design to optimise heat storage in winter and reduce heat transfer in summer	The proposed development can satisfy the requirements of the objective.	
		4U-3	Adequate natural ventilation minimises the need for mechanical ventilation	Natural ventilation is provided.	
	Water Management and Conservation	4V-1	Potable water use is minimised	The proposed development satisfies the requirements of the objective	
		4V-2	Urban storm water is treated on site before being discharged to receiving waters	The proposed development satisfies the requirements of the objective.	
		4V-3	Flood management systems are integrated into site design	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and developed proposal can achieve this requirement.</li> </ul>	
	Waste Management	4W-1	Waste storage facilities are designed to minimise impacts on the streetscape, building entry and amenity of residents	All waste storage and management facilities are not accessible nor visible to the general public	
		4W-2	Domestic waste is minimised by providing safe and convenient source separation and recycling	<ul> <li>The Planning Proposal concept proposals have been developed with consideration of this and developed proposal can achieve this requirement.</li> </ul>	
	<b>Building Maintenance</b>	4X-1	Building design detail provides protection from weathering	<ul> <li>The materiality and detailing of the proposed development are in keeping with the client brief, b typology and expected building life.</li> </ul>	
		4X-2	Systems and access enable ease of maintenance	All facades are accessible for cleaning and maintenance.	
		4X-3	Material selection reduces ongoing maintenance costs	Materials will be carefully selected to require minimum ongoing maintenance.	
	Building Configuration - Safety of Children		<ul> <li>Windows have safety screens, window locks or other safety devices to prevent falls.</li> <li>Room layouts minimise the need to locate furniture immediately adjacent windows or balustrades</li> </ul>	All windows located at fall height will be capable of being fitted with restrictors that limit opening 125mm	