## Table 1 – APARTMENT DESIGN GUIDE – DESIGN OBJECTIVE AND DESIGN CRITERIA

71-75 Victoria Road, Drummoyne - DA SUBMISSION - Issue B 19.08.2022

OBJECTIVE	D	ESIGN CRITERIA	PROPOSED	COMMENT
Part 3 - Siting	the Development			
3A Site Analysis		decisions have been based on opportunities and nd the relationship to the surrounding context	Complies	Built-form considers neighbouring buildings with adequate setbacks to adjacent sites.
3B Orientation	Objective 3B-1         Building types and layouts respond to the street and site while optimizing solar access within the development		Complies	Most of the units are orientated towards the north to provide greater solar access. The built-form maximizes solar access and views wherever possible.
	<b>Objective 3B-2</b> Overshadowing of neighbouring pro	operties is minimized during mid-winter	Complies	Strategic building setbacks and built- form minimises overshadowing impact on neighbouring properties to the south.
3C Public Domain Interface	Objective 3C-1 Transition between private and public domain is achieved without compromising sa and security		Complies	Apartments are secure from the street and are accessed through a central lobby.
	<b>Objective 3C-2</b> Amenity of the public domain is ret	ained and enhanced	Complies	Mailboxes and services are located on the ground level.
3D Communal and Public Open Space	And adequate area of communal	<ol> <li>Communal open space has a minimum area equal to 25% of the site</li> <li>Developments achieve a minimum of 50% direct sunlight to the principal usable part of</li> </ol>	On merit	337m2 of communal open space provided across both communal areas provided. All apartments will have large private open spaces to serve as
	to provide opportunities for landscaping	the communal open space for a minimum of 2 hours between 9am and 3pm on 21 <sup>st</sup> June (mid- winter)	Complies	a place for interaction. The site is also in close proximity with a number of parks and public areas such as Brett Park (4 minutes walking distance).
	<b>Objective 3D-2</b> Communal open space is designed to allow for a range of activities, respond to site conditions and be attractive and inviting		Complies	The communal open spaces provide paved areas, wide passive seating areas and landscaping on all sides.

	Objective 3D-3         Communal open space is designed to maximize safety         Objective 3D-4         Public open space, where provided, is responsive to the existing pattern and uses of the neighbourhood					Complies	Communal open spaces are private, only tenants will have access to these areas and will require swipe key to access.
						Complies	Wide footpath along the retail frontage is proposed to activate the street frontage and to provide safe pedestrian circulation.
3E Deep Soil Zone	<b>Objective 3E-1</b> Deep soil zone provides areas on	Deep soil zones ar requirements:	e to meet the	following	minimum		
	the site that allow for and support healthy plant and tree growth. They improve residential amenity	Site Area	Min. Dimensions	Deep So (% of th area)			
	and promote management of water and air quality	Less than 650m <sup>2</sup>	-	7%			Site Area: 1,340 m <sup>2</sup>
		650m <sup>2</sup> - 1500m <sup>2</sup>	3m	7%		On merit	Required Deep Soil Area 7%: 93.8 m <sup>2</sup>
		Greater than 1500m <sup>2</sup>	6m	7%			Proposed Deep Soil Area: 38.4 m <sup>2</sup> (2.8%)
		Greater than 1500m <sup>2</sup> with significant tree cover	6m	7%			
	Objective 3F-1	Separation betwee					Building separation adopted.
3F Visual Privacy	Adequate building separation distances are shared equitably between neighbouring sites, to achieve reasonable levels ofprovided to ensure visual privacy is achieved. Minimum required separation distances from buildings to the side and rear boundaries are as follows:		rom		Building articulation & form were used to achieve reasonable privacy between adjoining properties.		
	external and internal visual privacy.	Building Height	Habitable and bal		Non- habitable		Privacy screens provide additional
	Note: Separation distances between buildings on the same	Up to 12m (4 storeys)	6n	n	<b>rooms</b> 3m	Complies	privacy to balconies and habitable rooms.
	site should combine required building separations depending on the type of room.	Up to 25m (5-8 storeys)	9n	n	4.5m		
			12	~			

		Over to 25m (9+ storeys)		6m		
	<b>Objective 3F-2</b> Site and building design elements and air and balance outlook and v			•	Complies	Façade articulations, sun shades and external screens are multi-purposed in providing separation whilst enhancing living environments.
3G Pedestrian Access and Entries	<b>Objective 3G-1</b> Building entries and pedestrian ad	ccess connects to and add	lresses the public do	main	Complies	Pedestrian entry from street frontage for residential units. All apartments are also orientated towards the street and public domain.
	<b>Objective 3G-2</b> Access, entries and pathways are	accessible and easy to id	entify		Complies	The street entrance is located off Day Street which can be easily identified and accessed.
	<b>Objective 3G-3</b> Large sites provide pedestrian linl	ks for access to streets an	N/A			
3H Vehicle Access	Objective 3H-1 Vehicle access points are designed between pedestrians and vehicles	d and located to achieve	safety, minimize conf		Complies	The vehicle access point has been designed to maximise pedestrian safety.
3J Bicycle and Car Parking	<b>Objective 3J-1</b> Car parking is provided based on proximity to public transport in metropolitan Sydney and centres in regional areas	<ul> <li>For development in the</li> <li>On sites that an station or light Metropolitan A</li> <li>On land zoned, zoned, B3 Com</li> </ul>	following locations: e within 800m of a ra rail stop in the Sydne rea; or and sites within 400 mercial Core, B4 Mix nominated regional of g requirement for re the Guide to Traffic G ar parking requirement int council, whicheve	m of land ed Use of centre sidents Generating nt r is less.	On Merit	Traffic report is submitted with development application. 46 spaces required and 47 provided = 10 non-residential and 37 residential spaces including visitor parking Bicycles storage is also provided.

	Objective 3J-2 Parking and facilities are provide	d for other modes of transport	Complies	33 bicycle racks are provided for all residents and retail staff.
	Objective 3J-3       Car park design and access is safe and secure			Secure car park access via driveway ramp & lift access to all residential levels.
	<b>Objective 3J-4</b> Visual and environmental impact	s of underground car parking are minimised	Complies	
	<b>Objective 3J-5</b> Visual and environmental impact	s of on-grade car parking are minimised	N/A	
	<b>Objective 3J-6</b> Visual and environmental impact	s of above ground enclosed parking are minimised	N/A	
Part 4 – Desig	ning the Building			
4A Solar and Daylight Access	Objective 4A-1 To optimise the number of apartments receiving sunlight to habitable rooms, primary windows and private open space.	<ol> <li>Living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 2 hours of direct sunlight between 9am and 3pm at mid-winter in the Sydney Metropolitan Area and in the Newcastle and Wollongong local government areas</li> </ol>	Complies	23/31 apartments = 74% Receives min 2hr direct sunlight to living rooms and private open space.
		<ol> <li>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 9am and 3pm at mid-winter</li> <li>A maximum of 15% of apartments in a building receive no direct sunlight between 9am and 3pm mid winter.</li> </ol>	N/A	
			Complies	4/31 apartments = 12%
	<b>Objective 4A-2</b> Daylight access is maximized where sunlight is limited		Complies	Full height balcony windows/ doors to maximize daylight access.
	<b>Objective 4A-3</b> Design incorporates shading and	glare control, particularly for warmer months	Complies	Awnings/overhangs assist with diffusing glare and providing shade.
4B Natural Ventilation	Objective 4B-1 All habitable rooms are naturally	ventilated	Complies	

	<b>Objective 4B-2</b> The layout and design of single a	spect apartments ma	ximizes natural ventilation	Complies	
<ul> <li>Objective 4B-3         The number of apartments         with natural cross ventilation is         maximized to create a         comfortable indoor         environment for residents         1. At least 60% of apartments are naturally cross         ventilated in the first nine storeys of the building.         Apartments at ten storeys or greater are deemed         to be cross ventilated only if any enclosure of the         balconies at these levels allows adequate natural         ventilation and cannot be fully enclosed         2. Overall depth of a cross-over or cross-through         apartment does not exceed 18m, measured glass         line to glass line     </li> </ul>			Complies	20/31 Apartments achieve cross ventilation. Deemed to comply at 65% Apartments facing Victoria road will be provided vertical plenums to allow natural ventilation while the windows are closed.	
4C Ceiling Heights	Objective 4C-1 Ceiling height achieves sufficient natural ventilation and daylight access	level, minimum ceil	shed floor level to finished ceiling ing heights are: eight for apartment and mixed use		Ceiling heights proposed are consistent with ADG recommendations: - 2.7 habitable - 2.4 non-habitable 3100 mm floor to floor provided
		Habitable Rooms 2.7m			assuming 200mm thick slab, 25mm for
		Non-Habitable	2.4m		flooring and 175 for ceiling – 2700. Services to be maintained in non- habitable spaces to maximise ceiling heights in habitable areas.
		For 2 Storey	2.7m for main living area floor	Complies	
		Apartments	2.4m for second floor, where its 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		
	Objective 4C-2 Ceiling height increases the sense of space in apartments and provides for well- proportioned rooms			Complies	Habitable rooms are located directly adjacent openings and private open spaces where ceiling is maximized. Bulkheads are minimised where possible and services occupy ceiling spaces of non-habitable rooms to prevent unnecessary reduced ceiling heights.
	Objective 4C-3 Ceiling heights contribute to the	flexibility of building	use over the life of the building	N/A	
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4D Apartment Size and	<b>Objective 4D-1</b> The layout of rooms within an		nts are required to have the following niternal areas:		
Layout	apartment is functional, well organised and provides a high	Apartment Type	Minimum Internal Area		
	standard of amenity	Studio	35m <sup>2</sup>		
		1 bedroom	50m <sup>2</sup>		
		2 bedroom	70m <sup>2</sup>	Complies	All apartments comply with minimum
		3 bedroom	90m <sup>2</sup>		internal areas
		Additional bathro area by 5m <sup>2</sup> each. A fourth bedroom	ernal areas include only one bathroom. oms increase the minimum internal n and further additional bedrooms mum internal area by 12m <sup>2</sup> each		
		external not less t	bitable room must have a window in an wall with a total minimum glass area of than 10% of the floor area of the room. and air may not be borrowed from oms	Complies	All habitable room have a minimum glass area of 10% of the floor area of the room.
<b>Objective 4D-2</b> Environmental performance the apartment is maximised			e room depths are limited to a n of 2.5 x the ceiling height	Complies	All habitable room depths are less than 2.5x the ceiling height
		and kitch	plan layouts (where the living, dining nen are combined) the maximum e room depth is 8m from a window	Complies	Window to kitchen dimension in open plan living ranges between 4m to 6m
			bedrooms have a minimum area of nd other bedrooms 9m2 (excluding be space)	Complies	Master bedrooms range from 3.0 x 3.5m (10.5 sqm) to 4.3 x 3.4 (14.6 sqm)
	and needs.		ms have a minimum dimension of cluding wardrobe space)	Complies	Other bedrooms range from 3.0 x 3.3m (9.9 sqm) to 3.0 x 3.6m (10.8 sqm)
				Complies	Living spaces to all apartments have minimum width of 4.0m

		<ul> <li>3. Living rooms or combined living/dining rooms have a minimum width of: <ul> <li>3.6m for studio and 1 bedroom apartments 4m for 2 &amp; 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>			Complies	
4E Private Open Space and Balconies	<b>Objective 4E-1</b> Apartments provide appropriately sized private open space and balconies to enhance residential amenity	balconieDwelling TypeStudioApartments1 BedroomApartments2 BedroomApartments	ments are required to ha s as follows: Minimum Area 4m <sup>2</sup> 8m <sup>2</sup> 10m <sup>2</sup>	Minimum Depth - 2m 2m	Complies	All balconies in this development comply with the minimum depth of 2.0m – 2.4m and relevant minimum areas.
		3+ Bedroom Apartments12m²2.4mThe minimum balcony depth to be counted as contributing to the balcony area is 1m 2. 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			Complies	
	Objective 4E-2         Primary private open space and balconies are appropriately located to enhance liveability for residents         Objective 4E-3         Private open space and balcony design is integrated into and contributes to the overall architectural form and detail of the building				Complies Complies	<ul> <li>Private open space is directly to a living space, orientated to allow for maximized solar access and ventilation.</li> <li>Balconies and private open spaces are integrated with the building form and façade.</li> </ul>

	<b>Objective 4E-4</b> Private open space and balcony of			Complies	Balconies have been designed with details that avoid opportunities for climbing and falls, including solid and glass balustrades to provide additional protection.
4F Common Circulation	<b>Objective 4F-1</b> Common circulation spaces		n number of apartments off a re on a single level is eight	Complies	1 lift serving all 31 apartments within the development.
and Spaces	achieve good amenity and properly service the number of apartments	<ol> <li>For buildings of 10 storeys and over, the maximum number of apartments sharing a single lift is 40</li> </ol>		N/A	
	<b>Objective 4F-2</b> Common circulation spaces pron residents	note safety and provide f	or social interaction between	Complies	Centralized lift lobby encourages social interaction and provides amenity for doing so.
4G Storage	<b>Objective 4G-1</b> Adequate, well designed	In addition to storage i bedrooms, the following	n kitchens, bathrooms and ng storage is provided:		All apartments have the storage requirement for each apartment.
	storage is provided in each	Dwelling Type	Storage Size Volume	-	
	apartment	Studio apartments	4m <sup>2</sup>		
		1 bedroom	6m <sup>2</sup>		
		apartments		Complies	
		2 bedroom apartments	8m <sup>2</sup>		
		3+ bedroom	10m <sup>2</sup>		
		At least 50% of the req within the apartment	uired storage is to be located	-	
	<b>Objective 4G-2</b> Additional storage is convenientl apartments	y located, accessible and	Complies	Additional secured storage is provided and easily accessible on basement levels with individual cages for each apartment.	
4H Acoustic Privacy	<b>Objective 4H-1</b> Noise transfer is minimised through the siting of buildings and building layout			Complies	Where possible planting, circulation and non-habitable rooms are located to buffer external noise sources.
	<b>Objective 4H-2</b> Noise impacts are mitigated within apartments through layout and acoustic treatments			Complies	Appropriate acoustic measure will be undertaken at CC stage. Provisions have been made for wall thicknesses and

		floor to floor heights for construction methodology.
<b>Objective 4J-1</b> In noisy or hostile environments the impacts of external noise and pollution are minimised through the careful siting and layout of buildings	Complies	Habitable rooms are generally setback from external noise of Victoria Road through balconies and landscaping. An acoustic report is provided with this Development Application
<b>Objective 4J-2</b> Appropriate noise shielding or attenuation techniques for the building design, construction and choice of materials are used to mitigate noise transmission	Complies	Where possible, building articulation and landscaping are provided to assist in diffusing noise transmission.
<b>Objective 4K-1</b> A range of apartment types and sizes is provided to cater for different household types now and into the future	Complies	Unit types cater to the household types in the area with 1-bed, 2-bed and some of the 3-bedroom apartments have the flexibility to turn the some of the bedrooms into family rooms/ study.
<b>Objective 4K-2</b> The apartment mix is distributed to suitable locations within the building	Complies	
<b>Objective 4L-1</b> Street frontage activity is maximised where ground floor apartments are located	N/A	Street frontage is activated through proposed retail.
<b>Objective 4L-2</b> Design of ground floor apartments delivers amenity and safety for residents	N/A	
<b>Objective 4M-1</b> Building facades provide visual interest along the street while respecting the character of the local area	Complies	The facades have been carefully designed with a mix of material palette. Rendered walls, timber looking metal screens extrusions, off-form balustrades and metal cladding to create a visually interacting façade whilst responding to the character of the local area.
<b>Objective 4M-2</b> Building functions are expressed by the facade	Complies	Residential entry clearly identified via different treatment in the façade (i.e. visual break).
Objective 4N-1 Roof treatments are integrated into the building design and positively respond to the street	Complies	Roof top terrace is further setback from levels below to minimize the impact of built form to the street.
	In noisy or hostile environments the impacts of external noise and pollution are minimised through the careful siting and layout of buildings Objective 4J-2 Appropriate noise shielding or attenuation techniques for the building design, construction and choice of materials are used to mitigate noise transmission Objective 4K-1 A range of apartment types and sizes is provided to cater for different household types now and into the future Objective 4K-2 The apartment mix is distributed to suitable locations within the building Objective 4L-1 Street frontage activity is maximised where ground floor apartments are located Objective 4L-2 Design of ground floor apartments delivers amenity and safety for residents Objective 4M-1 Building facades provide visual interest along the street while respecting the character of the local area Objective 4M-2 Building functions are expressed by the facade Objective 4N-1 Roof treatments are integrated into the building design and positively respond to the	In noisy or hostile environments the impacts of external noise and pollution are minimised through the careful siting and layout of buildings       Complies         Objective 41-2       Appropriate noise shielding or attenuation techniques for the building design, construction and choice of materials are used to mitigate noise transmission       Complies         Objective 4K-1       A range of apartment types and sizes is provided to cater for different household types now and into the future       Complies         Objective 4K-2       The apartment mix is distributed to suitable locations within the building       Complies         Objective 4L-1       Street frontage activity is maximised where ground floor apartments are located       N/A         Objective 4L-2       Design of ground floor apartments delivers amenity and safety for residents       N/A         Objective 4L-2       Design of ground floor apartments delivers amenity and safety for residents       N/A         Objective 4M-1       Building facades provide visual interest along the street while respecting the character of the local area       Complies         Objective 4M-2       Building functions are expressed by the facade       Complies         Objective 4N-1       Roof treatments are integrated into the building design and positively respond to the       Complies

	Objective 4N-2 Opportunities to use roof space for residential accommodation and open space are maximised	Complies	
	<b>Objective 4N-3</b> Roof design incorporates sustainability features	Complies	Roof extends awning over windows and doors to habitable spaces to control sunlight during summer.
40 Landscape Design	<b>Objective 40-1</b> Landscape design is viable and sustainable	Complies	Landscaping and native plant selection provides shading and privacy, and contributes to the local climate. Selection of native and low water usage trees reduce water usage and maintenance.
	<b>Objective 40-2</b> Landscape design contributes to the streetscape and amenity	Complies	Where possible, landscaping has been included to provide amenity and streetscape.
4P Planting on	Objective 4P-1 Appropriate soil profiles are provided	Complies	Refer to Landscape Consultant detail
Structures	<b>Objective 4P-2</b> Plant growth is optimised with appropriate selection and maintenance	Complies	Refer to Landscape Consultant detail
	<b>Objective 4P-3</b> Planting on structures contributes to the quality and amenity of communal and public open spaces	Complies	Refer to Landscape Consultant detail
4Q Universal Design	<b>Objective 4Q-1</b> Universal design features are included in apartment design to promote flexible housing for all community members	Complies	Apartments are open plan in design providing a free-flowing living quality with generous open space for occupant flexibility.
	<b>Objective 4Q-2</b> A variety of apartments with adaptable designs are provided	Complies	There are five adaptable units proposed in accordance to council's DCP requirement for 15% of total units.
	<b>Objective 4Q-3</b> Apartment layouts are flexible and accommodate a range of lifestyle needs	Complies	All apartments have open plan living allowing flexibility on the use.
4R Adaptive Reuse	Objective 4R-1           New additions to existing buildings are contemporary and complementary and enhance an area's identity and sense of place		Brand new development
	<b>Objective 4R-2</b> Adapted buildings provide residential amenity while not precluding future adaptive reuse	N/A	Brand new development

4S	Objective 4S-1		
Mixed Use	Nixed use developments are provided in appropriate locations and provide active street frontages that encourage pedestrian movement	Complies	
	<b>Objective 4S-2</b> Residential levels of the building are integrated within the development, and safety and amenity is maximised for residents	Complies	Keyed entry required to residential development.
4T Awnings and Signage	<b>Objective 4T-1</b> Awnings are well located and complement and integrate with the building design	Complies	Entry awning is provided to give cover to the residents.
	<b>Objective 4T-2</b> Signage responds to the context and desired streetscape character	Complies	Signage to future detail to be integrated to entries, façade and lobby design.
4U Energy Efficiency	<b>Objective 4U-1</b> Development incorporates passive environmental design	Complies	Adequate light and ventilation to all habitable rooms
	<b>Objective 4U-2</b> Development incorporates passive solar design to optimise heat storage in winter and reduce heat transfer in summer	Complies	BASIX assessment submitted with the development application
	<b>Objective 4U-3</b> Adequate natural ventilation minimises the need for mechanical ventilation	Complies	Apartments designed with appropriate depths, ceiling heights and planning to promote airflow and natural ventilation.
4V Water Management and Conservation	<b>Objective 4V-1</b> Potable water use is minimised	Complies	Water reducing fixtures and low water usage landscaping implemented
	<b>Objective 4V-2</b> Urban storm-water is treated on site before being discharged to receiving waters	Complies	Refer to hydraulic engineer's reports and drawings
	<b>Objective 4V-3</b> Flood management systems are integrated into site design	Complies	Refer to hydraulic engineer's reports and drawings
4W Waste Management	<b>Objective 4W-1</b> Waste storage facilities are designed to minimise impacts on the streetscape, building entry and amenity of residents	Complies	Garbage bin holding area located on ground floor capable to fit required number of bins and separated from commercial use bin holding area.
	<b>Objective 4W-2</b> Domestic waste is minimised by providing safe and convenient source separation and recycling	Complies	Waste management plan submitted with Development Application.

4X Building Maintenance	Objective 4X-1 Building design detail provides protection from weathering	Complies	Material proposed are robust and hard weathering minimizing maintenance. Building detailing will provide protections to opening and control leaching etc.
	<b>Objective 4X-2</b> Systems and access enable ease of maintenance	Complies	Generally, maintenance of the building can be directly accessed via individual unit or internal lobbies.
	<b>Objective 4X-3</b> Material selection reduces on-going maintenance costs	Complies	Natural and resilient material selection of rendered wall, powder coated aluminium cladding and stone cladding reduces on-going maintenance.