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

4 Alexander Street, Cronulla

OBJECTIVE	D	ESIGN CRITERIA	PROPOSED	COMMENT
Part 3 - Siting	the Development			
3A Site Analysis	Objective 3A-1 Site analysis illustrates that design constraints of the site conditions ar	decisions have been based on opportunities and nd the relationship to the surrounding context	Complies	Built-form considers historical context and its neighbouring relationship with adequate setbacks where required.
3B Orientation	Objective 3B-1 Building types and layouts respond within the development	to the street and site while optimizing solar access	Complies	The orientation of the built-form maximizes solar access wherever possible.
	Objective 3B-2 Overshadowing of neighbouring pro	operties is minimized during mid-winter	Complies	Top level setback has been provided on bulk to minimise solar impact to neighbours.
3C Public Domain Interface	Objective 3C-1 Transition between private and pul and security	olic domain is achieved without compromising safety	Complies	Apartments are secure from the street and are accessed through a central lobby.
	Objective 3C-2 Amenity of the public domain is ret	ained and enhanced	Complies	Provides a consistent urban profile to Alexander Street historical context
3D Communal and Public Open Space	Objective 3D-1 And adequate area of communal open space is provided to enhance residential amenity and to provide opportunities for landscaping	 Communal open space has a minimum area equal to 25% of the site 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 9am and 3pm on 21st June (mid- winter) 	N/A	
	Objective 3D-2 Communal open space is designed conditions and be attractive and in	to allow for a range of activities, respond to site viting	N/A	
	Objective 3D-3 Communal open space is designed	to maximize safety	N/A	
	Objective 3D-4 Public open space, where provided neighbourhood	, is responsive to the existing pattern and uses of the	N/A	

3E Deep Soil Zone	Objective 3E-1 Deep soil zone provides areas on	Deep soil zones are requirements:	e to meet the	following	minimum	The development is adopti	The development is adopting SEPP
	the site that allow for and support healthy plant and tree growth. They improve residential amenity and promote management of water and air quality	Site Area Less than 650m ² 650m ² - 1500m ² Greater than 1500m ² Greater than 1500m ² with significant tree cover	Min. Dimensions - 3m 6m 6m	Deep So (% of th area) 7% 7% 7% 7%	il Zone e site	N/A	senior deep soil calculation – provided 19% deep soil
3F Visual Privacy	Objective 3F-1 Adequate building separation distances are shared equitably between neighbouring sites, to achieve reasonable levels of external and internal visual privacy. Note: Separation distances between buildings on the same site should combine required building separations depending on the type of room.	Separation betwee provided to ensure Minimum required buildings to the sid follows: Building Height Up to 12m (4 storeys) Up to 25m (5-8 storeys) Over to 25m (9+ storeys)	en windows ar e visual privacy l separation di le and rear bo Habitable and bale 6n 9n 12r	nd balconi y is achiev istances fr undaries a conies n n	es is red. are as Non- habitable rooms 3m 4.5m	Complies	Building separation adopted. Building articulation & form were used to achieve reasonable privacy between adjoining buildings within the development.
	Objective 3F-2 Site and building design elements in and air and balance outlook and view	ncrease privacy without compromising access to light ws from habitable rooms and private open space.			s to light space.	Complies	Façade articulations, balconies and privacy screens are multi-purposed in providing acoustic barrier and privacy, whilst enhancing living environments.
3G Pedestrian Access and Entries	Objective 3G-1 Building entries and pedestrian acce	ss connects to and a	addresses the	public dor	main	Complies	Residential entry points are clearly distinguishable by signage and entry gate. Secured access is also available via the basement levels for those arriving by car.

3H Vehicle Access	Objective 3G-2 Access, entries and pathways are accessible and easy to identify Objective 3G-3 Large sites provide pedestrian links for access to streets and connection to destinations Objective 3H-1 Vehicle access points are designed and located to achieve safety, minimize conflicts between pedestrians and vehicles and create high quality streetscapes.		Complies Complies Complies	Each of the entry points are clear and easily read by residents, visitors and passer by alike. Vehicle access point has been in the existing location that minimises impact on the existing traffic movement.
3J Bicycle and Car Parking Car Parking Car Parking Car Digital Car parking is provided based on proximity to public transport in metropolitan Sydney and centres in regional areas		 For development in the following locations: On sites that are within 800m of a railway station or light rail stop in the Sydney Metropolitan Area; or On land zoned, and sites within 400m of land zoned, B3 Commercial Core, B4 Mixed Use of equivalent in a nominated regional centre The minimum car parking requirement for residents and visitors is set out in the Guide to Traffic Generating Developments, or the car parking requirement prescribed by the relevant council, whichever is less. The car parking needs for a development must be provided off street. 	Complies	Traffic report will be submitted with Development Application. 9 parking spaces provided for residential use.
	Objective 3J-2 Parking and facilities are provided for other modes of transport		Complies	5 garages are provided, bicycle can be store in garage.
	Objective 3J-3 Car park design and access is safe and secure Objective 3J-4 Visual and environmental impacts of underground car parking are minimised		Complies	Secure basement car park and lift access to all residential levels.
			Complies	Existing vehicle entry is adopted, has no impact on current streetscape.
	Objective 3J-5 Visual and environmental impact	s of on-grade car parking are minimised	Complies	No on-grade parking provided
	Objective 3J-6 Visual and environmental impact	s of above ground enclosed parking are minimised	Complies	No above ground parking provided

Part 4 – Desigr	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.	 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 	Complies	 5/5 apartments = 100% Receive at least min 2hr direct sunlight to living rooms and private open space. N/A
		 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 	N/A	3. no units received nil solar
		 A maximum of 15% of apartments in a building receive no direct sunlight between 9am and 3pm mid winter. 	Complies	
	Objective 4A-2 Daylight access is maximized where sunlight is limited			Full height balcony windows/ doors to maximize daylight access.
	Objective 4A-3 Design incorporates shading and glare control, particularly for warmer months			Awnings/overhangs and privacy screens assist with diffusing glare and providing shade.
4B Natural Ventilation	Objective 4B-1 All habitable rooms are naturally	ventilated	Complies	
	Objective 4B-2 The layout and design of single as	pect apartments maximizes natural ventilation	Complies	
	Objective 4B-3 The number of apartments with natural cross ventilation is maximized to create a comfortable indoor environment for residents	 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 Overall depth of a cross-over or cross-through apartment does not exceed 18m, measured glass line to glass line 	Complies N/A	5/5 apartments = 100%
4C Ceiling Heights	Objective 4C-1 Ceiling height achieves sufficient natural ventilation and daylight access	Measured from finished floor level to finished ceiling level, minimum ceiling heights are: Minimum ceiling height for apartment and mixed use	Complies	Ceiling heights proposed are consistent with ADG recommendations: - 2.7 habitable

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	buildings			- 2.4 non-habitable 3100 mm floor to floor provided
	Habitable Rooms	2.7m		flooring and 110 for ceiling – 2700
	Non-Habitable	2.4m		
	For 2 Storey Apartments	2.7m for main living area floor 2.4m for second floor, where its area does not exceed 50% of the apartment area		Services to be maintained in non- habitable spaces to maximise ceiling heights in habitable areas.
	Attic Spaces	1.8m at edge of room with a 30 degree minimum ceiling slope		
	If located in mixed	3.3m for ground and first floor to		
	use areas	promote future flexibility		
Objective 4C-2 Ceiling height increase proportioned rooms	es the sense of space in apartmen	nts and provides for well-	Complies	Habitable rooms are located directly adjacent to 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 contrib	ute to the flexibility of building u	use over the life of the building	Complies	As above

4D	Objective 4D-1	1. Apartments are required to have the following	All apartments comply with minimum
Apartment Size and	The layout of rooms within an	minimum internal areas:	internal areas

Layout	apartment is functional, well	Apartment	Minimum Internal Area			
	organised and provides a high	Type				
	standard of amenity	Studio	35m ²			
	,	1 bedroom	50m ²	Complies		
		2 bedroom	70m ²			
		3 bedroom	90m ²			
		The minimum inte	ernal areas include only one bathroom.			
		Additional bathro	oms increase the minimum internal			
		area by 5m ² each.				
		A fourth bedroom	n and further additional bedrooms			
		increase the mini	mum internal area by 12m ² each			
		2. Every ha	bitable room must have a window in an	Complies	All habitable room have a minimum	
		external	wall with a total minimum glass area of		glass area of 10% of the floor area of the	
		not less	than 10% of the floor area of the room.		room.	
		Daylight	and air may not be borrowed from			
		other roo	oms			
	Objective 4D-2	1. Habitabl	e room depths are limited to a	Complies	All habitable room depths are less than	
	Environmental performance of	maximur	m of 2.5 x the ceiling height		2.5x the ceiling height	
	the apartment is maximised	_				
		2. In open j	olan layouts (where the living, dining	Complies	Window to kitchen dimension in open	
		and kitch	nen are combined) the maximum		plan living ranges between 4m to 6m.	
		habitable	e room depth is 8m from a window			
	Objective 4D-3	1 Master	bedrooms have a minimum area of		Master bedrooms are all in excess of	
	Apartment layouts are	10m2 a	nd other bodrooms 9m2 (oveluding	Complies	10m2 and all other bedrooms are	
	designed to accommodate a			complies	minimum 9m2	
	variety of household activities	wardro	be space)			
	and needs	2 Rodroo	ms have a minimum dimension of	Complies	All bedrooms have minimum	
		2. Deuloo	aluding wordroho space)		width/length of 3m	
		3m (exc	Liuung wardrobe space)			
		3 Living r	ooms or combined living/dining	Complies	Living spaces to all 3 bedroom	
		J. LIVINGT	have a minimum width of		apartments have width more than 4.0m	
		rooms				
		• 3	3.6m for studio and 1 bedroom			
		a	apartments			
		• 4	Im for 2 & 3 bedroom apartments			
		4. The wid	Ith of cross-over or cross-through			
		apartm	ents are at least 4m internally to	Complies		
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		avoid d	eep narrow apartment la	youts		
4E Private Open Space	Objective 4E-1 Apartments provide	1. All apart balconies	ments are required to have a solution of the second s	ve primary		
and Balconies	appropriately sized private open space and balconies to	Dwelling Type	Minimum Area	Minimum Depth	Complies	All balconies in this development
	enhance residential amenity	Studio Apartments	4m ²	-		comply with the minimum depth of 2m or 2.4m as applicable and relevant
		1 Bedroom Apartments	8m ²	2m		minimum areas.
		2 Bedroom Apartments	10m ²	2m		
		3+ Bedroom Apartments	12m ²	2.4m		
		 The 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	Areas have been calculated with minimum 1m widths
	Objective 4E-2 Primary private open space and b for residents	palconies are appro	priately located to enhan	ce liveability	Complies	Private open spaces are directly adjacent to living spaces, orientated to allow for maximized solar access and ventilation
	Objective 4E-3 Private open space and balcony c architectural form and detail of t	design is integrated into and contributes to the overall the building			Complies	Balconies and private open spaces are integrated with the building form and facades
	Objective 4E-4 Private open space and balcony c	lesign maximises sa	afety		Complies	Apartments balconies will be detailed to maintain safety for children and adults

4F Common Circulation	Objective 4F-1 Common circulation spaces	 The maximum number of apartments off a circulation core on a single level is eight 	Complies	One lift will be provided for a max. of 6 apartments on a single level.
and Spaces	achieve good amenity and properly service the number of apartments	 For buildings of 10 storeys and over, the maximum number of apartments sharing a single lift is 40 	N/A	
	Objective 4F-2			Centralized lift lobby encourages social

	Common circulation spaces promote safety and provide for social interaction between residents				interaction and provides amenity for doing so.
4G Storage	Objective 4G-1 Adequate, well designed	In addition to storag bedrooms, the follow	e in kitchens, bathrooms and ving storage is provided:		All apartments provide the storage
	storage is provided in each	Dwelling Type	Storage Size Volume		required for each apartment.
	apartment	Studio apartments	4m ²		Additional storage has provided in the
		1 bedroom	6m ²	Complies	basement.
		apartments			
		2 bedroom	8m²		
		apartments	10m ²		
		anartments	1011		
		At least 50% of the r	equired storage is to be located		-
		within the apartmen	t	Complies	
	Objective 4G-2	·			Additional storage where provided is
	Additional storage is convenient	eniently located, accessible and nominated for individual			directly accessed on basement levels.
	apartments				
4H Acoustic Drivoov	Objective 4H-1	ugh the citing of huildi	as and huilding layout		Where possible planting, circulation,
Acoustic Privacy	Noise transfer is minimised thro	ugn the siting of building	igs and building layout	Complies	located to buffer external noise sources
					located to barrer external hoise sources.
	Objective 4H-2				Appropriate acoustic measures will be
	Noise impacts are mitigated with	hin apartments through	n layout and acoustic treatments	Complies	undertaken at CC stage. Provisions have
					been made for wall thicknesses and
				complies	floor to floor heights for construction
					methodology.
41	Objective 41-1				Habitable rooms are generally setback
Noise and Pollution	In noisy or hostile environments	the impacts of externa	al noise and pollution are minimised		from external noise of the surroundings
	through the careful siting and la	yout of buildings		Complies	through balconies and landscaping.
		, 0			
	Objective 4J-2				Where possible, building articulation
	Appropriate noise shielding or attenuation techniques for the building design, construction			Complies	and landscaping are provided to assist in
	and choice of materials are used	I to mitigate noise trans	smission	p0	diffusing noise transmission.
ДК	Objective 4K-1				
Apartment Mix	A range of apartment types and	sizes is provided to cat	er for different household types	N/A	
	, trange of apartment types and		er for anterent nousenoid types		

	now and into the future		
	Objective 4K-2 The apartment mix is distributed to suitable locations within the building	N/A	
4L Ground Floor Apartments	Objective 4L-1 Street frontage activity is maximised where ground floor apartments are located	Complies	Ground floor apartment have external terrace with landscaped buffer facing the street to promote activity along street front whilst maintain privacy.
	Objective 4L-2 Design of ground floor apartments delivers amenity and safety for residents	Complies	Private open spaces at ground floor facing the Alexander Street have 1.5m balustrade height from the street for privacy and safety.
4M Facades	Objective 4M-1 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 materials. Sandstone, rendered, timber look screens facade is consistent with the local context character.
	Objective 4M-2 Building functions are expressed by the facade	Complies	Residential entry and breezeway clearly identified via different treatment in the façade (i.e. visual break).
4N Roof Design	Objective 4N-1 Roof treatments are integrated into the building design and positively respond to the street	Complies	The building incorporates a flat roof which setback from the development's street elevations. It is an appropriate scale for the building and its context.
	Objective 4N-2 Opportunities to use roof space for residential accommodation and open space are maximised	Complies	The roof of the Level 2 unit has been utilised as private open space.
	Objective 4N-3 Roof design incorporates sustainability features	Complies	PV installed on roof
40 Landscape Design	Objective 4O-1 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 will reduce water usage and maintenance.
	Objective 40-2	Complies	Landscaping has been integrated into
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	Landscape design contributes to the streetscape and amenity		the proposal from Ground level through to the roof level.
			Public Open space and Communal Open space areas will have integrated landscape components.
4P Planting on Structures	Objective 4P-1 Appropriate soil profiles are provided	Complies	Refer to Landscape Consultant detail
	Objective 4P-2 Plant growth is optimised with appropriate selection and maintenance	Complies	Refer to Landscape Consultant detail
	Objective 4P-3 Planting on structures contributes to the quality and amenity of communal and public open spaces	Complies	Refer to Landscape Consultant detail
4Q Universal Design	Objective 4Q-1 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.
	Objective 4Q-2 A variety of apartments with adaptable designs are provided	Complies	5 of 5 apartments are adaptable to meet SEPP senior requirements
	Objective 4Q-3 Apartment layouts are flexible and accommodate a range of lifestyle needs	Complies	All apartments have open plan living allowing flexibility in 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	N/A	
	Objective 4R-2 Adapted buildings provide residential amenity while not precluding future adaptive reuse	N/A	
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	
	Objective 4S-2 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.
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4T Awnings and Signage	Objective 4T-1 Awnings are well located and complement and integrate with the building design	Complies	Entry awnings/overhang are provided to
Awnings and Signage	Awnings are well located and complement and integrate with the building design	complies	give cover to the residents and visitors.
	Objective 4T-2		Signage to future detail to be integrated
	Signage responds to the context and desired streetscape character	Complies	to entries, façade and lobby design
4U	Objective 4U-1		Adequate solar access and cross-
Energy Efficiency	Development incorporates passive environmental design	Complies	ventilation to all habitable rooms.
	Objective 4U-2		BASIX assessment submitted with the
	Development incorporates passive solar design to optimise heat storage in winter and reduce heat transfer in summer	Complies	development application
	Objective 4U-3		Apartments designed with appropriate
	Adequate natural ventilation minimises the need for mechanical ventilation	Complies	depths, ceiling heights and planning to promote airflow and natural ventilation.
4V	Objective 4V-1		Water reducing fivtures and low water
Water Management and Conservation	Potable water use is minimised	Complies	usage landscaping implemented
	Objective 4V-2		
	Urban storm-water is treated on site before being discharged to receiving waters	Complies	To future CC details
	Objective 4V-3		
	Flood management systems are integrated into site design	Complies	To future CC details
4W	Objective 4W-1		Refer to WMP submitted with this
Waste Management	Waste storage facilities are designed to minimise impacts on the streetscape, building	Complies	application
	entry and amenity of residents	complies	
	Objective 4W-2		Waste management plan will be
	Domestic waste is minimised by providing safe and convenient source separation and	Complies	submitted with Development
	recycling	complies	Application.

4X Building Maintenance	Objective 4X-1 Building design detail provides protection from weathering	Complies	Materials proposed will be robust and hard wearing to minimise maintenance. Building detailing will provide protections to openings.

	Objective 4X-2 Systems and access enable ease of maintenance	Complies	Generally, maintenance of the building can be directly accessed via individual units, internal lobbies or back of house facilities.
	Objective 4X-3 Material selection reduces on-going maintenance costs	Complies	Materials proposed will be robust and hard wearing to minimise maintenance. Building detailing will provide protections to openings.