Attachment 2– Residential Flat Design Code.

Part 01 – Local Context		
	Comments	Consistent
Building Height Where there is an existing floor space ratio (FSR), test height controls against it to ensure a good fit.	The height control under Ryde LEP 2014 is set aside by the Concept Plan Approval MP10_0112. The proposed building height is consistent with that approval, as modified.	Yes
Building Depth In general, an apartment building depth of 10-18 metres is appropriate. Developments that propose wider than 18m must demonstrate how satisfactory day lighting and natural ventilation are to be achieved. (60% of residential units should be naturally cross ventilated).	The buildings depths are wider than 18m, however they are consistent with Concept Plan Approval MP10_0112. Notwithstanding the depths proposed the following breakdown for cross ventilation and solar access for each of the buildings are as follows: <u>Cross Ventilation:</u> Melbourne Building: 68% Hobart Building: 64% Sydney Building 59%.	No – variation acceptable.

with the requirement of SEPP No	
65. The majority of the units which	
are non compliant are single accest	
are non compliant are single aspect	
north facing units which have	
habitable rooms with	
access/windows to outdoor air, as	
such will have access to fresh air.	
Given that overall, the proposal	
complies with SEPP 65 requirement,	
the variation is considered	
acceptable.	
Solar Access: (3 hours to private	
open space and 2 hours to living	
areas)	
Melbourne Buildina: 53%	
Hobart Building: 90%	
Sydney Building 70%	
90% 53%	
HOBART MELBOURNE	
\sim	
SYDNEY 70%	
The Melhourse Duilding does not	
The Melbourne Building does not	
comply with the solar access due to	
the single southern aspect	
apartments located along the	
southern side of the building. The	
Urban Design Review Panel notes	
that the level of compliance is a	
direct result of the orientation of the	
building and that amalgamation of	
apartments would not improve the	
solar access even if it might	
numerically improve the	
performance of the building. On this	
basis the Panel was prepared to	
accept the lower performance of this	
building. Note: The units without	
solar access benefit either from an	
outlook into the courtward or are dual	
substitute the courtyard of are dual	

	aspect with views to the east and south. The building orientations have already been approved and given that across the whole site, the proposal will comply with the solar	
	access requirement, the proposed variation can be supported.	
Building Separation		
Building separation for buildings up to 8 storeys or up to 25 metres should be: -18m between habitable rooms/balconies	Building separation distances consistent with Concept Approval. The boundary setbacks and building footprints are consistent with	No – but
-13m between habitable/balconies and non-	Concept Plan Approval MP10_0112 as modified.	consistent with
habitable rooms -9m between non-habitable rooms.	Building Separation:	approved Concept Plan. Areas
Developments that propose less distance must demonstrate that adequate daylight access, urban form and visual and acoustic privacy has been achieved.	HOBART 8 NH H 18.3m H 18.3m H H H H H H H H H H H H H	of non compliances
	8 building heights in storeys H / NH habitable / non-habitable area	
	LEVELS 1- 4	
	min. 13 m bldg separation (NH - H) min. 18 m bldg separation (H - H)	
	LEVELS min. 18 m bldg separation (NH - H) 9 storeys + min. 24 m bldg separation (H - H)	
	Where separation distances are less	
	than the distances prescribed le between Hobart and Melbourne	
	Buildings and Sydney and Brisbane	
	(Stage 1) Buildings have been	
	reviewed by URDP and privacy	
	adequate davlight access urban	
	form and visual and acoustic privacy	

	has been achieved.	
	 Privacy screens provided on the 	
	eastern elevation of Hobart	
	Building which faces the western	
	elevation of Melbourne Building.	
	Privacy screens on the eastern	
	elevation of Brisbane Building to	
	minimise impact to the western	
	side balconies of Sydney Building	
Street Sethacks	Consistent with Concept Plan	
Identify the desired streetscape	Approval MP10_0112	
character. In general, no part of	Concept Approval Report:	Ves
the building should encroach into	Eastern boundary (Melbourne) – 5m	163
a sotback area	Proposed: 5m	
a seidack alea.	Southarn boundary (Sydnoy) 10m 8	
	<u>Southern boundary (Sydney</u>) forn &	
	Proposed: 10m and 7m	
	Northern houndary (Hebert 8	
	Moltheume) 10 1m	
	<u>Meibourner</u> 16.1m	
	Malhauma	
Olds and Daar Oath sales		
Side and Rear Setbacks		
Relate side setbacks to existing	Consistent with Concept Plan	
streetscape patterns. These	Approval MP10_0112 as modified.	Yes
controls should be developed in		
conjunction with building		
separation, open space and deep		
soil zone controls. In general, no		
part of the building should		
encroach into a setback area.		
Floor Space Ratio		
Test the desired built form	Building setbacks, footprints, heights	
outcome against the proposed	and floor space ratio are consistent	Yes
floor space ratio to ensure	with Concept Plan Approval	
consistency with building height,	MP10_0112 as modified.	
building footprint, the three		
dimensional building envelope		
and open space requirements.		
Part 02 – Site Design		
	Comments	Consistent
Deep Soil Zones		
A minimum of 25% of the open	The landscaping component/deep	
space area of a site should be	soil is consistent with the Concept	Yes
deep soil zone. Exceptions may	Approval.	
be made in urban areas where		
sites are built out and there is no		
capacity for water infiltration		
		1

Landscape Design		
Landscaping is to improve the	Council's Consultant Landscape	
amenity of open spaces as well	Architect has confirmed that the	Yes
as contribute to the streetscape	landscape treatment is satisfactory.	
character.		
Open Space	The distribution of communal open	
The area of communal open	space is consistent with site planning	
space required should generally	arrangements via the Concept Plan	
be at least between 25% and	Approval (MP10_0112) and	
30% of the site area. Where	complies with the minimum	
developments are unable to	requirement.	
achieve the recommended	Private open spaces are provided for	Yes
communal open space, they must	in each unit in the form of a balcony	
demonstrate that residential	and terrace areas. All courtyards and	
amenity is provided in the form of	balconies are of a useable size and	
increased private open space	all balconies have a minimum depth	
and/or in a contribution to public	of approximately 2m.	
open space.		
	Units S202 & S201 (Sydney	No –
Minimum recommended area of	Building) located on level 2	variation
private open space for each	addressing Epping Road ground	acceptable.
apartment at ground level or on a	level have small courtyards	
structure such as podium or	(approximately 6m ² for Unit S202	
carpark is 25m ² minimum	and 13m ² for Unit S201) which does	
preferred dimension in one	not comply with this requirement.	
direction is 4m.	Whilst the smaller POS is not ideal,	
	this is only for 2 units x 1 bedroom	
	apartments. These apartments will	
	Tave a minimum balcony width of	
	proposal is considered acceptable	
Orientation		
Optimise solar access to living	The building envelopes are	
areas and associated private	consistent with the Concept Plan	Yes
open spaces by orientating them	Approval (MP10 0112).	
to the north and contribute	Communal open space and	
positively to the streetscape	balconies have been orientated	
character.	north where possible with the design	
	optimising solar access and cross	
	ventilation by maximising provision	
	of dual access units. The Urban	
	Review Design Panel supported the	
	design.	
Planting on Structures	Deep soil planting has been	
In terms of soil provision there is	provided to the street frontages.	
no minimum standard that can be	Council's Consultant Landscape	Yes
applied to all situations as the	Architect is satisfied with	

requirements vary with the size of	arrangements for landscaping in	
plants and trees at maturity. The	those areas of the development and	
following are recommended as	Condition 24 has been imposed for	
minimum standards for a range of	minimum soil depth for planting on	
nlant sizes.	structures	
• Shrubs - minimum soil donths		
500 600mm		
Stormwater Management	Councilia Soniar Development	
Stormwater Management	Council's Senior Development	
Reduce the volume impact of	Engineer is satisfied with	Ň
stormwater on infrastructure by	arrangements for the collection and	Yes
retaining it on site.	disposal of stormwater as it was	
	dealt with in Stage 1.	
Safety		
Optimise the visibility,	The proposal was referred to NSW	
functionality and safety of building	Police who has advised: "the factors	Yes
entrances. Improve the	of Crime Prevention through	
opportunities for casual	Environmental Design within this	
surveillance and minimise	development have been considered,	
opportunities for concealment.	such as surveillance, lighting;	
	territorial reinforcement,	
	environmental maintenance,	
	space/activity management and	
	access control. However there does	
	not appear to be any mention of	
	CCTV. It is therefore recommended	
	that CCTV cameras be installed"	
	Conditions of consent have been	
	included to reflect appropriate safety	
	and security measures (See	
	Condition 80 to 85)	
Visual Brivaov	Noting the building envelopes are	
The building concretion	consistent with the Consent Plan	
	Approval (MD10, 0112) concept Plan	Vaa
requirements should be adopted.	Approval (MP10_0112) separation	res
	distances are generally satisfactory.	
	where there is a non compliance	
	with building separation under SEPP	
	65, balconies have been	
	reorientated and privacy screens	
	provided. Given the street separation	
	and distances involved, there will be	
	no unreasonable privacy impacts to	
	neighbouring properties. Internal	
	overlooking has been addressed by	
	way of privacy screens and lourves.	
Building Entry		
Ensure equal access to all.	Equitable and secure access is	

Developments are required to	available onto the site and within the	Yes
provide safe and secure access.	development. The Access Report	
The development should achieve	prepared by Accessible Building	
clear lines of transition between	solutions, conclude that the	
the public street and shared	development will provide:	
private, circulation space and the	 access for people with a disability 	
apartment.	from the street to all the proposed	
	buildings via accessible pathways	
	access to all communal facilities	
	• the provision of lifts allow access	
	• 10% of the units are designed to	
	be adaptable in accordance with	
	AS 4299, so that they can be	
	easily modified to suit people with	
	a disability.	
	I he adaptable units provide a	
	and location	
	The proposal complies with the	
	obligations under the Disability	
	Discrimination Act.	
Parking		
Determine the appropriate car	The proposal complies with the	
parking numbers. Where possible	parking numbers as modified by	Yes
underground car parking should	MP10 0112 Mod 3 & Mod 5.	
be provided.	_	
Pedestrian Access		
Provide high quality accessible	The development provides	
routes to public and semi-public	accessible paths of travel within the	Yes
areas of the building and the site.	buildings and to public areas.	
Maximise the number of		
accessible, visitable and	30 (10%) adaptable apartments are	
adaptable apartments in the	provided as required by the Concept	
building.	Plan Approval (MP10_0112).	
Vehicle Access		
To ensure that the potential for	All residential vehicle access to the	
pedestrian / vehicle conflicts is	site is via a new private road off	Yes
minimised. The width of	Herring Road. This is consistent with	
driveways should be limited to 6	the Concept Plan Approval	
metres. Vehicular entries should	(MP10_0112).	
be located away from main		
pedestrian entries and on	Council's Public Works Team and	
secondary streets.	Senior Development Engineer are	
	satisfied with access arrangements	
	for cars and service vehicles.	
Part 03 – Building Design		

	Comments	Consistent
Apartment Layout Single aspect apartments should	Single aspect apartments do not exceed 8m in depth. The overall	Yes
window.	proposed apartment layout is considered reasonable and responds satisfactorily to the orientation and location of the approved building envelopes.	
The back of kitchen should be no more than 8m from a window	The majority of apartments are compliant except for H101 and above in the Hobart Building. The non compliant is relatively minor (8.7m) and only for a small percentage of the whole development.	No – variation acceptable.
The minimum sizes of the apartments should achieve the following; 1 bedroom – 50m ² 2 bedroom – 70m ² 3 bedroom – 95m ²	Units H102, H202, H302 and H502 in the Hobart Building are 2 bedroom apartments and are 67m ² in size. This is short of the required 70m ² size by 3m ² . The proposed variation can be supported as the departure is relatively minor, with only 4 apartments out of 297 not complying with the minimum size requirement. The apartments have a living area flowing onto a north west facing balcony with a good outlook. The balconies comply with the minimum depth requirement, accordingly the amenities of the apartments are not compromised and the variation can be supported.	No – variation acceptable.
Apartment Mix The development should provide a variety of types.	 Apartments mix is: 178 (59%) x 1 bedroom apartments; 102 (34%) x 2 bedroom 17 (5.7%) x 3 bedroom apartments. 	Yes
	30 apartments (10%) will be adaptable. Overall the proposed mix is considered reasonable.	
Balconies Where private open space is not provided, primary balconies with a minimum depth of 2m should be	Each unit is provided with a primary balcony that is accessed from the main living areas. All balconies have a minimum depth of 2 metres.	Yes

provided.		
Ceiling Heights		
The following recommended	Floor to ceiling heights are at least	Yes
dimensions are measured from	2.7m for habitable rooms and 2.4m	
finished floor level (FFL) to	for non-habitable rooms.	
finished ceiling level FCL).		
• in general, 2.7m minimum for all habitable rooms on all floors, 2.4m is the preferred minimum for all non-habitable rooms, however 2.25m is permitted.		
Flexibility		
Provide apartment layouts which	Floor plates are considered	Yes
accommodate the changing use	satisfactory.	
of rooms.		
Ground Floor Apartments		
Optimise the number of ground floor apartments with separate entries and consider requiring an appropriate percentage of accessible units. This relates to the desired streetscape and topography of the site.	The ground floor is commercial/retail use.	N/a
Internal Circulation		
In general, where units are arranged off a double-loaded corridor, the number of units accessible from a single core/corridor should be limited to eight.	Hobart Building - Achieved. Melbourne Building – Achieved. Sydney Building – Achieved.	Yes
Increase amenity and safety of circulation spaces by providing generous corridor widths and ceiling heights, appropriate levels of lighting including the use of natural daylight.		
Storage		
Internal storage areas for each residential unit are to be provided generally in accordance with the Internal Storage Schedule submitted with the development application (drawing number S.DA940A dated 29/5/14). Details demonstrating	Each apartment will be allocated storage cage (4m ³) in basement plus storage area within the apartments. One bedroom will have 3m ³ , 2 bedroom will have 4m ³ and 3 bedroom with 6m ³ . This together with the basement storage complies with storage requirement. Condition 38 is recommended to	Yes

compliance is to be submitted on the Construction Certificate plans. Options including providing at least 50% within each respective apartment, dedicated storage rooms on each floor or dedicated storage in the basement.	ensure sufficient storage is provided.	
Acoustic Privacy	Subject to the recommendations of	
Apartments to be arranged to	the submitted Acoustic Report,	
minimise noise transitions.	satisfactory acoustic privacy will be	Yes
	provided for each apartment.	
	Condition no.33 requires	
	compliance with the	
Deulisht Access	recommendations of the report.	
Daylight Access	I he buildings achieves the following	
spaces for at least 70% of	Hobart:	No -
apartments in a development	$\frac{1000}{100}$ of units achieve the color	variation to
should receive a minimum of	access	the
three hours direct sunlight	<u>Sydney:</u>	Melbourne
between 9.00am and 3.00pm in	• 70% of units achieve 3 hrs solar	Building.
mid-winter. In dense urban areas	access.	Variation is
a minimum of two hours may be	Melbourne:	acceptable
acceptable.	 53% of units achieve 3hrs solar 	by Urban
	This is consistent with the indicative	Design
	plans considered by the Department	Review
Limit the number of single aspect	for MP10_0112 and reviewed by	Panel and
apartments with a southerly	Urban Design Review Panel and	location and
aspect to a maximum of 10%	was considered a reasonable	orientation of
	outcome for a development of this	buildings
	size with regard to the site	approved by
	orientation and form of development	Concept
	proposed. The overall compliance	Approval.
	for the three buildings is 68% with	
	the total development (Stage 1 & 2)	
	having 70%. The majority of the non	
	compliant units are provided with	
	dual aspect openings for natural	
	ventilation and it is considered the	
	of residential emerity and energy	
	of residential amenity and energy	
	enciency.	
	Stage 2 will have 11%. 33 out of 297	
	apartments with a single southerly	

	aspect. The single aspect	
	apartments, particularly in the	
	Sydney Building, have views to the	
	north and south. In the Melbourne	
	Buildings the single aspect	
	apartments are the larger 1 bedroom	
	apartments with sufficient sized	
	balcony off the living area. These	
	units will receive acceptable	
	amenity.	
Natural ventilation	The surger and building doubted and	
Building depths which support	I ne proposed building depths and	N a a
natural ventilation typically range	apartment layouts support natural	Yes
from 10 to 18 metres.	ventilation.	
60% of residential units should be	62% - Achieved	Ves
naturally cross ventilated		105
Contribute to the legibility of the	Hobart Building bas an awning at the	
residential flat development and	building entry point. The Melbourne	Yes
amenity of the public domain by	and Sydney Buildings will have the	100
locating awnings over building	upper floors overhang to provide	
entries	amenity for pedestrians	
Facades		
Facades are to be of appropriate		
scale, rhythm and proportion	The facade composition and mix of	Yes
which respond to the building's	materials is satisfactory.	
use and the desired contextual		
character.		
Roof Design		
Roof design is to relate to the	Satisfactory – review by Urban	
desired built form as well as the	Design Review Panel.	Yes
size and scale of the building.		
Energy Efficiency		
Incorporate passive solar design	The energy efficiency of the	
techniques to optimize heat	buildings is consistent with the	Yes
storage in winter and heat	requirements under BASIX. The	
transfer in summer. Improve the	development will achieve a 4 star	
control of mechanical space	green rating.	
heating and cooling.		
Maintenance		
The design of the development is	Satisfactory.	Yes
to ensure long life and ease of		
maintenance.		
Waste Management	A Waste Management Plan has	
A waste management plan is to	been submitted with the application	
be submitted with the	and is considered satisfactory.	Yes

development application.		
Water Conservation		
Reduce mains consumption of	The water conservation methods of	Yes
potable water. Reduce quantity of	the buildings are consistent with the	
urban stormwater runoff.	requirements under BASIX.	