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Koichi Takada Architects

Version

2.0

Lots 18, 19 and 20 St Leonards South EQ

RFI Submission 20 January 2023

koichitakada.com

DA Design Report St Leonards South - East Quarter

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Greaton Development Koichi Takada Architects Lateral Consulting MG Planning Pty Ltd ABE PKA Lawrence & Co JHA Consulting Engineers City Plan JHA Consulting Engineers JHA Consulting Engineers JK Geotechnic JK Geotechnic LTS Lockley Aspect Studios **Robert Birds** LTS Lockley SCT Consulting Waste Audit





1.0 Project Vision St Leonards South - East Quarter

The proposed development at St Leonards South by Greaton Development and designed by Koichi Takada Architects is ideally positioned on the southern edge of St Leonards in Sydney's inner north. The site is located within the R4 - High Density Residential Zone and is intended as a transitional zone from the higher density mixed-use developments of St Leonards Station to the R2 Low Density Residential. As part of the St Leonards and Crows Nest 2036 plan, the Department of Planning is anticipating a significant increase in residential population which will require more affordable housing and greater variety to support projected growth in the St Leonards area.

The overall vision is for a high-quality residential development that adds value and density to it's site by delivering a development of scale consistent with the masterplan, providing investment and local housing.

Koichi Takada Architects design entails five residential buildings with common amenities that aim to create a community and maximise resident experience on site. The development's scale and massing responds to neighbouring dwellings along River Road and enhances the proposed streetscape for the St Leonards South precinct. The design enhances amenity through use of high-quality materials and careful consideration of form and articulation. All apartments enjoy access to multiple communal open spaces and private balconies and terraces overlook the landscaped 'green spine' connection.



Right: Illustration of St Leonards South Precinct.



Site Context & Analysis



2.1 Location Plan Context

The St Leonards South - East Quarter is ideally positioned on the southern edge of St Leonard's in Sydney's inner north. The site sits within the newly proposed St Leonards South Precinct and is part of the St Leonards South masterplan. The locale is characterised by a provision of new housing and is well connected to Sydney's existing public transit system and a network of public open spaces.

The site is equidistant to Willoughby and St Leonards Station (within an 800m catchment zone) as well as nearby to the proposed Crows Nest Sydney Metro Station. The site lies in close proximity to the proposed transport corridor and a network of new and improved cycleways and walking paths connect the site towards Lane Cove. The Foreshore to Foreshore Link offers sustainable travel alternatives for residents in St Leonards South.



2.1 Location Plan St Leonards South - East Quarter

The site is a trapezoidal parcel of land measuring 8757.8m2. The immediate context includes the newly proposed developments of the St Leonards South masterplan and the Crows Nest active precinct.

Nearby green areas include proposed neighbouring pocket parks and the green spine connection to River Road. The local area has a leafy and relatively tranquil character, and the residents of St Leonards South are provided with abundant choice in the open space areas located within walking distance of the site.



Site Area: 8758 m2

Street Address: St Leonards South, Lot 18, 19 & 20 East Quarter

Street Frontage: River Road, Berry Road and Holdsworth Avenue

Existing Structures: 2 storey dwellings

Main Road
 Train Line
 Walking Distance
 Bus Route
 Bike Lane

Right: Aerial View of site in context.

Greaton Development. © Koichi Takada Architects

2.2 Site Analysis Environmental Analysis









Council Masterplan

This proposal is for Area 18, 19 and 20 under the St Leonards South Masterplan. The masterplan specifies inclusion of a green spine which runs continuously through the areas between River Road and Mashall Avenue. A cross-site link connects Berry Road to Holdsworth Avenue.

Existing Trees

Scale: 1.500





Topography

Scale: 1.500

The site has a considerable level change with a heavily stepped cross-fall of approximately 20m from north to south towards River Road.



Required Setbacks

Scale: 1.500

Masterplan Framework





Council Masterplan

Scale: 1.500

LEP 2.5m Zone LEP 15m Zone

LEP 31m Zone





Current Proposal

Scale: 1.500





Council Masterplan

Scale: 1.500

4 Storey limit
6 Storey limit
8 Storey limit
10 Storey limit





Current Proposal

Scale: 1.500

The number of storeys in the proposed development is consistent with the DCP

Basement storey Residential storey Lane Cove Development Contr - Dictionary

Effective 22 February 2010 Storey means a space within a that is situated between one flo and the floor level next above, there is no floor above, the ceil roof above, but does not includ (a) a space that contains only a shaft, stairway or meter room, o (b) a mezzanine, or (c) an attic.

rol Plan	Lane Cove Development
	Control Plan - Part C
	Residential Localities
building	Effective 22 February 2010
oor level	Part Storeys resulting from
or if	excavation of steep slopes
ing or	or semi basement parking
de:	will not count as a storey
lift	Refer to Caluse 4.6 (8)(cb)
or	and Part 7 of Lane Cove LEP

3.0 Masterplan Framework Green Spine



Council Masterplan

Scale: 1.500

Required Green Spine Area: 2,140m2





Current Proposal

Scale: 1.500

Provided Green Spine Area: 2,170m2

The masterplan includes a large 'green spine' which acts as a view corridor and communal area through the development. The prescribed 'green spine' is extented to connect to River Road. Circulation through the green spine is designed to maintain accessibility.



Council Masterplan

Scale: 1.500



Current Proposal

Scale: 1.500

The through-site link connects the green spine to proposed pocket parks on the east and west site boundaries, providing connection and access to additional green spaces for residents and enhancing the existing public domain.



Stepped Building Form

The stepped building form works with existing topography and grades to minimise earthworks and level transitions and retain existing trees.

Streetwall Setbacks

Massing is terraced to maximise views to the Sydney CBD, adding visual interest and diversity to the form and creating private outdoor spaces for residents. The proposal is sympathetic to the smaller scale of residential properties on River Road by transitioning from a 4 storey street wall and terracing upwards to the 5, 6 & 8 storey component. The gradual stepping reduces percieved bulk and scale from River Road and is more aligned to the natural topography of the site. Streetwall setbacks break up the massing to give a human scale to the buildings at street level.

В

8S

D 85

65

A 85



3.0 Masterplan Framework Building Length



Council Masterplan

Scale: 1.500

Current Proposal

Scale: 1.500

3.0 Masterplan Framework Deep Soil



Council Masterplan

Scale: 1.500

Required Green Spine Area: 2,140m2 Required Deep Soil Area at Green Spine: 1,070m2 (min. 50%)



Deep Soil





Current Proposal

Scale: 1.500

The green spine will be supported by large deep soil areas that allow mature tree planting.

Provided Green Spine Area: 2,170m2 Provided Deep Soil Area at Green Spine: 1,138m2 (52%) Additional Deep Soil: 858m² Total Provided Deep Soil: 1,986m2



3.1 Masterplan Summary Site Controls and Compliance

The massing responds to existing site controls. The development has been designed with careful consideration of the objectives in the relevant DCP and LEP. It also considers the design quality principles set out in the Apartment Design Guide (ADG) to ensure a high level of public and residential amenity is provided.

Local Environmental Plan (LEP) Controls

- \checkmark FSR: 2.60:1
- \checkmark Height Control: 2.5m zone, 15m zone, 31m zone
- Green Spine Width: 24m \checkmark
- Through site Link Width: 9m (min. 6m) \checkmark

Development Control Plan (DCP) Controls

DCP Height Control: 8 storeys (max. 8 storeys) \checkmark

 \checkmark DCP Street Setback Control: First 5 storeys continue a 4m setback to align to streetscape setbacks, above which a 7m setback is introduced up to Level 7, and 8m in the upper level.

 \checkmark DCP Maximum Building Depth: 20.55m (max. 22m)

Apartment Design Guide (ADG) Controls

Building Separation: 9m between Block A/B and 9m between block D/C.

 \checkmark East-west block separation: 24m building separation in Green Spine.



AREA 17 **BUILDING B**

Right: Location Plan and Site Section at Scale 1:1000



Design Response



4.1 Design Philosophy Koichi Takada Architects

The proposal sets out to meet the requirements of the St Leonard's masterplan and stated project objectives, ensuring buildings of scale have meaning and are appropriate to site and locality. The principal design approach was to create an intrinsic relationship between architecture and nature while maintaining pedestrian connectivity across the steep grade of the site. The buildings incorporate large-scale passive design strategies at a fundamental level well beyond that of a typical commercial development.

The design for St Leonards South East Quarter provides for landscaping, natural ventilation, solar access and harvesting of renewable energies. The integrated landscape provides a physical and visual layering which insulates interiors from the sun, wind and rain. The design intent is to create a cohesive look and feel for the site, responding to the guidelines of the St Leonards South masterplan.

The pedestrian is prioritised on site, with vehicle entrances carefully considered. Remaining open space on site is fully landscaped and dedicated to pedestrian use, inviting community events, socialising and physical activity. The 'green spine' features a series of floating stairs integrated in to the slope of the topography, natural store paving and a layering of mature trees to create a lush and dense landscaped environment. The through-site link connects to proposed pedestrian pathways and pocket parks. The project looks to inspire a 'zero carbon mindset' in it's resident, promoting a healthy, sustainable lifestyle.





4.2 Project Summary St Leonards South - East Quarter





Identity and Arrival

Swooping, organic timber-look awnings give architectural identity to the development and mark building entrance points, enhancing streetscape legibility for residents.

The main residential entries are located on Berry Road and Holdsworth Avenue to allow a east-west connection. The building form is permeable at these points, breaking down the mass and creating articulation along the street wall. These breaks create a visual and physical connection through the site from east to west, allowing the two adjacent pocket parks to be visually connected.





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Green Spine

A generous 'green spine' of communal open space programmed with residential amenities runs through the core of the masterplan.

The green spine is open to the sky with deep soil area that facilitates the overall masterplan vision of landscaped connections, CBD vistas and a mature tree canopy within a large area of communal amenity. The primary deep soil zone is located in the centre of the site within the green spine, additional deep soil zone has been provided along River Road to create a more sensitive transition to the built form. The area has been maximized, exceeding the ADG requirement for 7%. Layering of the planting from low level to tall mature trees allows for clear sightlines across the site.

The planning of the green spine balances private, semi-private and communal space, deliberately setting out to activate a sense of place and feeling of community. Health and wellbeing benefits are enhanced by a design that increases occupant connectivity to







Integrated Landscape

Landscape is integral to the facade design and masterplan identity, providing 'green breaks' in the building form.

These perimeter planters reduce overlooking and increase privacy between levels. The horizontal planting reinforces streetscape setbacks, aligning the proposal to the overall masterplan vision. Integrated landscape mitigates heat island effects, promoting wellbeing for occupants and maximizing planted area on site. Landscaping will feature plants from native species, bringing benefits such as improved air quality, natural insulation and shielding from harsh environmental conditions.





Sunlight and Privacy

The facade incorporates integrated shading to ensure visual privacy and allow daylight to enter bedrooms and living rooms without excessive heat gain through the building envelope.

The layout of typical residential levels maximises available solar access by locating the living room glazing to the building perimeter. Light weight profiles attached to slab edges and battens have been purposefully positioned to attain a minimum of 2 hour solar access to living rooms and private open spaces. Rooftop solar panels generate energy on site for the building's energy needs.











The sandstone base includes terraces on River Road with a unique typology differentiated from the rest of the project in materiality and aesthetic. The sandstone base includes terraces on River Road with a unique typology differentiated from the rest of the project in materiality and aesthetic.

Right: Typical Townhouse floor plan (lower) and floor plan (upper) at 1:200.











The five buildings contain a mix of accommodation types and sizes appropriate to the location which support a variety of price points accessible to a wide range of socioeconomic groups. Planning optimizes residential amenity and incorporates one to three bedroom apartments in a varied residential mix. Adaptable units will be provided in accordance with the applicable standards as well as the 20% benchmark incorporating the Liveable Housing Guideline's silver level universal design features.

The layout of typical residential levels maximises available solar access by locating the living room glazing to the building perimeter. Natural cross-ventilation has been maximised on the first nine storeys to reduce reliance on mechanical ventilation, with provision of dual aspect units wherever possible. All units achieve a high level of amenity by attaining some direct solar access to the living spaces and there are no south-facing single aspect dwellings.

Right: Typical 1 bedroom apartment and typical 2 bedroom apartment (Block B) at 1:200. Greaton Development. © Koichi Takada Architects








A unique architectural language is employed for the penthouse units with deep overhangs that give additional visual privacy and create large, outdoor entertaining spaces with views of the Sydney CBD.

Right: Typical 3 bedroom penthouse floor plan at 1:200.





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4.10 Residential Amenities

Residential amenities include a communal workspace, indoor lounge, swimming pool, gym and extensive landscaped outdoor seating and play areas.

- 01. Community Lounge
- 02. Kids play space
- 03. WSUD Rain Garden
- 04. Swimming Pool
- 05. Outdoor BBQ area and spread out space
- 06. Terraced landscaping and seating
- 07. Terraced landscaping & mature trees
- 08. Lawn space (spread out and kick-about)
- 09. Access to adjoining site



Below: Landscape Masterplan by Aspect Studios.



Greaton Development. © Koichi Takada Architects

Privacy between buildings is addressed through the use of colourback glazing & screening. Overlooking is avoided between apartments through the use of these elements. Operable glazing is protected by screening across all buildings.





Greaton Development. © Koichi Takada Architects



GL-02 Colourback glazing

- GL-01 Clear glazing
- SC-01 Screened glazing





Block C - Cross Site Link South Facade Typical Lower Level

Greaton Development. © Koichi Takada Architects



Sustainability

Greaton Development. © Koichi Takada Architects

5.0

5.1 Sustainability Principles St Leonards South - East Quarter

Buildings are responsible for nearly 40% of annual global greenhouse gas emissions. In order to achieve sustainable futures, we must cease current practices associated with these negative impacts and depletion of resources. We must also look at ways of reversing existing damage, which could be achieved through regenerative architecture. Buildings can have a 'carbon positive' effect by reusing materials and utilising new technologies.

Our strategy for positive impact will address the three key aspects of any sustainable development: Planet – People – Profit

Planet: Reduce the environmental impact and greenhouse gas emissions associated with 'making' and 'using' a building. The emissions associated with 'making' a building is the embodied carbon in construction materials. The emissions associated with 'using' a building is energy consumed during operations.

People: Our ultimate measure of success is creating healthy spaces where communities can thrive in work, life and play. The health and wellbeing of end users is now more of a priority than ever. Interiors and building envelope design are particularly key with people spending an average of more than 90% of their time indoors. This project is designed to bring a wide range of health benefits, from influencing levels of physical activity to increasing natural light and air quality in indoor spaces.

Profit: Healthy, sustainable buildings are profitable for the owner, developer and end user. This can be achieved by utilising renewable energy sources, robust materials and reducing reliance on mechanical means.



Passive Design

PLANET





Biophilic Design

PEOPLE





Resource Efficiency

PROFIT



Environmental Sustainability - Maximising efficiency and experience in a landmark project. The proposal situates buildings to provide ample natural light and open views while managing heat gain. The building mass and recessive glazing lines reduce direct solar gain. Slab edge projections across floors grow deeper on uper levels to shade interiors and encourage use of outdoor spaces.

Social Sustainability - On average, people spend more than 90% of their time indoors. The project is designed to bring a wide range of health benefits, from influencing levels of physical activity to increasing natural light and improving air quality in indoor spaces. Shared amenities such as communal gardens, the precinct pool, lounges and gym provide opportunities for community building.

Economic Sustainability - The economic value of sustainable development includes lower construction costs and higher property values for developers. Occupancy rates increase and operating costs are reduced. There are also cost savings on utility bills for tenants through increased resource efficiency. Some local councils offer a 50% rebate on infrastructure charges for green buildings and future buyers can benefit from discounted interest rates on home financing through green home loans.







PROFIT



Robust materials • Low running costs through strategies such as energy efficient LED lighting and performance control systems Green building Incentives Resilience

Form Responsible Material Use Adaptable Energy Water Technology Passive design ensuring minimum 6 star NatHERS rating

Health and Wellbeing Community gardens Shared amenities - pool and gym Green transport and additional bike parking Activated public and communal open space with inclusive, passive, active and growing zones

5.2 Sustainability Application St Leonards South - East Quarter

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Rooftop solar photovoltaic system

Integrated shading reduces solar heat gain in Summer while maintaining daylighting in units

Natural ventilation to public corridors

Maximised views and daylight to all living areas and bedrooms



Integrated Facade Greening

Modular and unified unit types to reduce material waste during construction



Low carbon materials for interior finishes



Energy efficient LED lighting



Control systems to maximise building performance



r Cer

WELS star rated fixtures

Provision/capability for electric vehicles and supplemental bike parking



Parking, Access and Services



6.1 Ground Floor Levels and Access

Despite the steep grade of the site, the green spine has been designed to be fully accessible. Ramps maintain an accessible path of travel throughout the development.

Right: Ground Floor Level Diagram by Aspect Studios.





6.2 Parking Access Strategy

Vehicular access to the site has been designed to minimise impacts on the existing road network and public domain. All vehicles access underground basement levels from a single entry point on Holdsworth Avenue. The proposal aligns with best practice for transit-oriented development by providing a single, consolidated access driveway, prioritising the movement of pedestrians and cyclists at street level.

Providing access from the northeast corner off Holdsworth Avenue is considered preferable from a traffic perspective and will minimise impacts on existing street parking and trees. The cul-de-sac of Holdsworth Avenue generates little through-traffic, ensuring good access efficiency for development traffic. This access point also has nil impact on the proposed pocket park off Holdsworth Avenue, promoting a pedestrian friendly environment.

6.3 Waste Collection Strategy

Each resident is responsible for transferring their household waste to a central room at the core on each level where rubbish chutes and 240L bins for recycling are located. Recyclables will be transported to the waste storage areas in the basement by Building Management on an as needed basis. The waste holding areas and chute rooms are located on the basement mezzanine (Buildings B and C) and basement 01 levels (Buildings A and D). These areas will be designed to prevent unauthorised access and to contain any spilt materials and will have signage to remind residents of the correct separation of waste and recyclables.

In keeping with the best practices for sustainable design, all waste areas and waste/recycling bins will be clearly differentiated through appropriate signage and colour coding to Australian Standards. Each stream will be located in a designated area. Waste and recycling



Basement Mezzanine Plan

- 1. Storage room
- 2. Waste room
- 3. Loading dock
- 4. Waste holding area
- 5. Waste room C
- 6. Bulky waste room



Waste Chute/Collection Rooms Storage Loading Bay Bicycle Access Vehicle Access In keeping with the best practices for sustainable design, all waste areas and waste/recycling bins will be clearly differentiated through appropriate signage and colour coding to Australian Standards. Each stream will be located in a designated area. Waste and recycling collection services will be provided by Lane Cove Council.

6.4 Basement Parking Layout

A single carpark entry/exit point provides internal access to three full and two partial basement levels cut in to the topography of the site and located under building footprints. A centrally located internal ramp provides vehicular access between levels.

Accessible carparks are located adjacent to the relevant lift cores and visitor parking is located at the arrival point to the basement. Residential storage cages are located in a half-level (lower ground) underneath Building B.

6.5 Bicycle Parking

Bicycle parking has been given equal consideration to pedestrian and vehicle access consistent with best practice transport-oriented development. Secure underground bicycle parking is consolidated on Basement Level 1 in an enclosed room accessible via residential lift lobbies. This allows cyclists to safely park their bikes without compromising other transport modes. Above ground outdoor bike parking is located on site in the through-site link.



Basement Level 01 Plan

1. Short-term loading bay



Waste Chute/Collection Rooms Bicycle Storage Services Storage Room Vehicular Ramp

Parking, Access and Services 6.0

6.6 Building Services Strategy

Each building has a separate but centralised mechanical and hot water system located at the rooftop level. Services are located in open-air half height louvered enclosures and photovoltaic cells are utilised for common power generation.

A kiosk substation is located on River Road and supplies power to the Main Switch and Distribution rooms on the ground floor. The fire pump room (with storage tanks below) and fire control centre are located on Berry Road for ease of access by Fire Services.



Roof Plan

- 1. Lift Overrun
- 2. Stair Access

PV Cells

- Mechanical Plant
- Hot Water Plant

Density and Yield



7.1 Density

The overall density of the development is consistent with the relevant planning controls. The development has a GFA of 22,770m2 resulting in an FSR of 2.60 : 1.

7.2 Dwelling Size and Mix

The development comprises a total of 230 units with the following mix of types:

Unit Type	No.	Mix
1-bed	74	32%
2-bed	110	48%
3-bed	46	20%

This meets the DCP requirement to provide a minimum of 20% 1-bedroom dwellings, 20% of 2-bedroom dwellings and a minimum of 20% 3-bedroom dwellings. The units range in size from 50m2 1 bedrooms to 170m2, 3 bedroom penthouses.

7.3 Accessibility and Adaptable Housing

Accessibility has been well considered despite the steep topography of the site. All buildings have level access lobbies to the street and green spine. All residential amenity areas in the green spine are fully accessible. The scheme proposes 171 visitable dwellings which includes 123 visitable dwellings, 38 adaptable dwellings and 10 silver living dwellings under the Liveable Housing Guidelines. Of the 38 adaptable units, 28 are 1 bedroom and 10 are two bedroom (all silver level). This complies with a minimum of 20% adaptable dwellings. The scheme provides 74% visitable housing.

7.4 Parking

The scheme proposes 411 parking spaces including 60 visitor spaces. Accessible spaces have been provided for all adaptable units and for visitors.

7.5 Apartment Mix and Affordability

The buildings contain a range of apartment types and sizes to support development of a socially diverse neighbourhood. The apartment mix includes 1, 2 and 3 bedroom units which cater to single occupiers, couples, sharers and families.

The development contributes to housing affordability by providing a range of different apartment sizes and configurations, including 36 adaptable and 12 silver level units. Different apartment types have been evenly distributed throughout the building and across floor plates.





Building	Level	Apt #	Туре	Internal Area (m²)	POS (m²)	Solar Compliance	Cross Vent Compliance	Accessibility
Plack A	Crewed	4001	20	124-2	102	(2hm	NO	N/A
Block A	Ground	A001	3B	134m ²	18m ²	<2hrs	NO	N/A
-	Ground	A002	1B+S	54m ²	19m²	>2hrs	NO	N/A
	1 101		10.0	50.3	a 2			
-	Level 01	A101	1B+S	53m ²	8m²	<2hrs	NO	N/A
-	Level 01	A102	3B	130m ²	42m ²	<2hrs	YES	Visitable
-	Level 01	A103	3B	130m ²	22m ²	>2hrs	YES	Visitable
-	Level 01	A104	1B+S	54m ²	8m ²	>2hrs	NO	N/A
-	Level 01	A105	1B+S	55m ²	8m ²	>2hrs	NO	N/A
-	Level 01	A106	1B+S	50m ²	8m ²	>2hrs	YES	Visitable
-	Level 01	A107	2B+S	93m ²	12m ²	<2hrs	YES	N/A
-	Loval 02	4201	10.0	E 4 m ²	8m²	()hrs	NO	N/A
-	Level 02 Level 02	A201 A202	1B+S 2B+S	54m ² 81m ²	43m ²	<2hrs <2hrs	NO YES	N/A Visitable
	Level 02	A202 A203	2B+S 2B+S	81m ²	43m ²	<2hrs	YES	Visitable
-	Level 02	A203	1B+S	63m ²	43m ²	>2hrs	NO	Adaptable
-	Level 02	A204 A205	1B+S 1B+S	63m ²	8m²	>2hrs	NO	Adaptable
-	Level 02	A203	2B	78m ²	10m ²	>2hrs	YES	Visitable
-	Level 02	A208	2B+S	88m ²	10m ²	<2hrs	YES	Visitable
-	Level 02	A207	20+3	00111	1100	\$21113	TLS	VISILADIE
	Level 03	A301	1B+S	54m ²	8m²	<2hrs	NO	N/A
1	Level 03	A302	2B+S	81m ²	12m ²	<2hrs	YES	Visitable
1	Level 03	A303	2B+S	83m ²	12m ²	>2hrs	YES	Visitable
	Level 03	A304	1B+S	63m ²	8m²	>2hrs	NO	Adaptable
1	Level 03	A305	1B+S	63m ²	8m²	>2hrs	NO	Adaptable
	Level 03	A306	2B	78m ²	10m ²	>2hrs	YES	Visitable
	Level 03	A307	2B+S	88m ²	11m ²	<2hrs	YES	Visitable
		•						
	Level 04	A401	1B+S	54m ²	8m²	<2hrs	NO	N/A
	Level 04	A402	2B+S	83m ²	12m ²	>2hrs	YES	Visitable
	Level 04	A403	2B+S	83m ²	12m ²	>2hrs	YES	Visitable
	Level 04	A404	1B+S	63m ²	8m²	>2hrs	NO	Adaptable
	Level 04	A405	1B+S	63m ²	8m²	>2hrs	NO	Adaptable
	Level 04	A406	2B	78m ²	10m ²	>2hrs	YES	Visitable
	Level 04	A407	2B+S	88m ²	11m²	<2hrs	YES	Visitable
		-						-
L	Level 05	A501	3B	98m ²	34m ²	>2hrs	NO	Visitable
	Level 05	A502	3B	103m ²	68m²	>2hrs	YES	N/A
	Level 05	A503	1B+S	59m ²	11m ²	>2hrs	YES	N/A
L	Level 05	A504	2B+S	90m ²	27m ²	>2hrs	NO	N/A
ŀ	Level 05	A505	2B	80m ²	10m²	>2hrs	YES	Visitable
-	Level 06	A601	3B	98m²	11m²	>2hrs	NO	Visitable
-		A601 A602	2B	93m ²	11m ²	>2hrs	NO YES	N/A
-	Level 06 Level 06	A602 A603	2B 1B	50m ²	10m ²	>2hrs	YES	N/A N/A
-	Level 06	A603	2B	80m ²	9m²	>2hrs	NO	Visitable
H	Level 06	A604 A605	2B 2B	80m ²	10m ²	>2hrs	YES	Visitable
F	2010100		20	0011	2011	. 21115	.23	. situble
	Level 07	A701	3B	98m²	11m²	>2hrs	NO	Visitable
	Level 07	A702	2B+S	92m ²	10m ²	>2hrs	YES	N/A
	Level 07	A703	1B	50m ²	9m ²	>2hrs	YES	N/A
	Level 07	A704	2B	80m ²	10m ²	>2hrs	NO	Visitable
t t	Level 07	A705	2B	80m ²	10m ²	>2hrs	YES	Visitable
F								
	Level 08	A801	3B PH	170m ²	54m²	>2hrs	YES	Visitable
	Level 08	A802	3B PH	159m ²	53m ²	>2hrs	YES	Visitable

					POS		Cross Vent	Accessibility
Building	Level	Apt #	Туре	Internal Area (m ²)	(m²)	Solar Compliance	Compliance	Accessionity
Block B	Ground	B001	1B	52m ²	15m²	<2hrs	NO	Visitable
	Ground	B002	2B+S	83m ²	29m²	>2hrs	YES	Visitable
	Ground	B003	2B+S	83m ²	29m²	<2hrs	YES	Visitable
-	Ground	B004	1B	51m ²	15m²	<2hrs	NO	Visitable
	croand	5001	10	52111	2011	-2:110		, isitable
	Level 01	B101	2B	82m ²	10m²	<2hrs	NO	Adaptable
	Level 01	B102	2B+S	83m ²	12m²	<2hrs	YES	Visitable
	Level 01	B103	2B+S	83m ²	12m²	>2hrs	YES	Visitable
	Level 01	B104	1B	50m ²	9m²	>2hrs	NO	Visitable
Г	Level 01	B105	1B	51m ²	9m²	<2hrs	NO	Visitable
Г	Level 01	B106	3B	101m ²	12m²	<2hrs	YES	N/A
	Level 01	B107	2B+S	88m ²	10m²	<2hrs	YES	Silver Living
	Level 02	B201	2B	82m ²	10m²	<2hrs	NO	Adaptable
ŀ	Level 02	B201	2B+S	83m ²	12m ²	>2hrs	YES	Visitable
ŀ	Level 02	B202	2B+5	83m ²	12m ²	>2hrs	YES	Visitable
ł	Level 02	B203	1B+S	63m ²	8m ²	>2hrs	NO	Adaptable
t i i i i i i i i i i i i i i i i i i i	Level 02	B205	1B+S	63m ²	8m ²	>2hrs	NO	Adaptable
	Level 02	B206	3B	101m ²	13m ²	>2hrs	YES	N/A
	Level 02	B207	2B+S	88m ²	10m²	<2hrs	YES	Silver Living
[_						
	Level 03	B301	2B	82m ²	10m ²	>2hrs	NO	Adaptable
	Level 03	B302	2B+S	83m ²	12m²	>2hrs	YES	Visitable
	Level 03	B303	2B+S	83m ²	12m²	>2hrs	YES	Visitable
	Level 03	B304	1B+S	63m ²	8m²	>2hrs	NO	Adaptable
	Level 03	B305	1B+S	63m²	8m²	>2hrs	NO	Adaptable
-	Level 03	B306	3B	101m ²	13m²	>2hrs	YES	N/A
-	Level 03	B307	2B+S	88m²	10m²	<2hrs	YES	Silver Living
	Level 04	B401	2B	82m ²	10m²	>2hrs	NO	Adaptable
	Level 04	B402	2B+S	83m ²	12m ²	>2hrs	YES	Visitable
	Level 04	B403	2B+S	83m²	12m²	>2hrs	YES	Visitable
	Level 04	B404	1B+S	63m²	8m²	>2hrs	NO	Adaptable
	Level 04	B405	1B+S	63m²	8m²	>2hrs	NO	Adaptable
	Level 04	B406	3B	101m ²	13m²	>2hrs	YES	N/A
	Level 04	B407	2B+S	88m²	10m²	>2hrs	YES	Silver Living
	Level OF	DE01	10	50m²	02	2 Date	NO	Visitable
- F	Level 05	B501	1B	50m ²	8m ²	>2hrs	NO	Visitable
-	Level 05	B502	2B+S	88m ²	11m ²	>2hrs	YES	Visitable
-	Level 05	B503	2B+S	99m²	32m ²	>2hrs	YES	Visitable
- F	Level 05	B504	2B+S	83m ²	24m ²	>2hrs	NO	Visitable
H	Level 05 Level 05	B505 B506	2B+S 1B	91m ² 62m ²	62m ² 22m ²	>2hrs >2hrs	YES	Visitable Visitable
	Level 06	B601	1B	50m ²	8m²	>2hrs	NO	Visitable
	Level 06	B602	2B+S	90m²	11m²	>2hrs	YES	Visitable
L	Level 06	B603	2B+S	90m²	10m²	>2hrs	YES	Visitable
L	Level 06	B604	2B	75m ²	10m²	>2hrs	NO	Visitable
L	Level 06	B605	2B	82m ²	10m²	>2hrs	YES	Visitable
ŀ	Level 06	B606	1B+S	63m ²	8m²	>2hrs	YES	Visitable
ł	Level 07	B701	1B	50m ²	8m²	>2hrs	NO	Visitable
ŀ	Level 07	B701	2B+S	90m²	11m ²	>2hrs	YES	Visitable
ŀ	Level 07	B702	2B+S	90m ²	11m ²	>2hrs	YES	Visitable
	Level 07	B703	2B+3	75m ²	10m ²	>2hrs	NO	Visitable

Block C	

uilding	Level	Apt #	Туре	Internal Area (m²)	POS (m²)	Solar Compliance	Cross Vent Compliance	Accessibility
					(/			
	Ground	C001	2B	91m²	19m²	<2hrs	NO	N/A
	Ground	C001	1B	50m ²	15m ²	<2hrs	NO	Visitable
-	Ground	C002	2B+S	83m ²	31m ²	<2hrs	YES	Visitable
-								
	Ground	C004	2B+S	83m ²	27m ²	<2hrs	YES	Visitable
	Level 01	C101	2B	92m ²	10m²	<2hrs	NO	N/A
	Level 01	C102	1B	50m ²	9m²	<2hrs	NO	Visitable
	Level 01	C103	2B+S	83m ²	13m²	<2hrs	YES	Visitable
	Level 01	C104	2B+S	83m ²	13m²	<2hrs	YES	Visitable
	Level 01	C105	1B	52m ²	9m²	<2hrs	NO	Visitable
	1 100	6204	20.0		40.3	2	200	C1 11 1
H	Level 02	C201	2B+S	88m ²	10m ²	<2hrs	YES	Silver Living
	Level 02	C202	3B	100m ²	12m ² 8m ²	>2hrs	YES	N/A
H	Level 02	C203	1B+S	63m ² 63m ²	8m²	<2hrs <2hrs	NO	Adaptable
H	Level 02 Level 02	C204 C205	1B+S 2B+S	83m ²	8m² 12m²	<2nrs <2hrs	NO YES	Adaptable Visitable
	Level 02	C205	2B+S	83m ²	12m ²	>2hrs	YES	Visitable
	Level 02	C200	2B+3	82m ²	10m ²	<2hrs	NO	Adaptable
F	2000102	0207	20	02111	10111	SEI113	No	Adaptable
	Level 03	C301	2B+S	88m²	10m²	<2hrs	YES	Silver Living
	Level 03	C302	3B	100m ²	12m ²	>2hrs	YES	N/A
	Level 03	C303	1B+S	63m ²	8m²	<2hrs	NO	Adaptable
	Level 03	C304	1B+S	63m ²	8m²	<2hrs	NO	Adaptable
	Level 03	C305	2B+S	83m ²	12m²	<2hrs	YES	Visitable
	Level 03	C306	2B+S	83m ²	12m²	>2hrs	YES	Visitable
	Level 03	C307	2B	82m ²	10m²	>2hrs	NO	Adaptable
-	Level 04	C401	2B+S	88m²	10m ²		YES	Silver Living
	Level 04	C401	3B	101m ²	12m ²	>2hrs	YES	N/A
-	Level 04	C403	1B+S	63m ²	8m ²	>2hrs	NO	Adaptable
	Level 04	C404	1B+S	63m ²	8m ²	>2hrs	NO	Adaptable
	Level 04	C405	2B+S	83m ²	12m ²	>2hrs	YES	Visitable
	Level 04	C406	2B+S	83m ²	12m²	>2hrs	YES	Visitable
	Level 04	C407	2B	82m ²	10m²	>2hrs	NO	Adaptable
	Level 05	C501	1B	62m ²	21m ²	>2hrs	YES	Visitable
	Level 05	C502	2B+S	92m ²	58m ²	>2hrs	YES	Visitable
	Level 05	C503	2B	83m ²	24m ²	>2hrs	NO	Visitable
	Level 05	C504	2B+S	101m ²	30m ²	>2hrs	YES	Visitable
	Level 05 Level 05	C505 C506	2B+S 1B	90m ² 50m ²	10m ² 8m ²	>2hrs >2hrs	YES NO	Visitable Visitable
	LEVELOS	0.000	10	5011	0111	221113	NO	VISITABLE
	Level 06	C601	1B	51m ²	8m²	>2hrs	YES	Visitable
	Level 06	C602	2B	85m ²	10m²	>2hrs	YES	Visitable
	Level 06	C603	2B	73m ²	10m²	>2hrs	NO	Visitable
	Level 06	C604	2B+S	91m ²	10m²	>2hrs	YES	Visitable
	Level 06	C605	2B+S	91m ²	10m²	>2hrs	YES	Visitable
	Level 06	C606	1B	50m ²	8m²	>2hrs	NO	N/A
-	1 1 07	6701	40	512	02	2 2 h m	VEC) Colta bla
-	Level 07	C701	1B	51m ²	8m ²	>2hrs	YES	Visitable
H	Level 07	C702	2B 2B	85m ²	10m ²	>2hrs	YES	Visitable
H	Level 07	C703		73m ²	10m ²	>2hrs	NO	Visitable Visitable
	Level 07	C704	2B+S	91m ²	10m²	>2hrs	YES	visitable

Building	Level	Apt #	Type	Internal Area (m ²)	POS	Solar Compliance	Cross Vent Compliance	Accessibility
Bullullig	Level	Αρι #	Туре	Internal Area (III)	(m²)	Solar compliance	compliance	
Block D	Ground	D001	1B+S	61m ²	17m ²	<2hrs	NO	Visitable
	Ground	D002	3B	96m ²	26m ²	<2hrs	NO	Silver Living
	Ground	D003	3B	100m ²	26m ²	<2hrs	YES	N/A
	Ground	D004	1B	50m ²	15m²	<2hrs	YES	Visitable
	Level 01	D101	1B+S	61m ²	9m²	<2hrs	NO	Visitable
	Level 01	D102	2B+S	87m ²	10m²	<2hrs	YES	Silver Living
	Level 01	D103	3B	100m ²	12m²	>2hrs	YES	N/A
	Level 01	D104	1B+S	63m ²	8m²	>2hrs	NO	Adaptable
	Level 01	D105	1B+S	63m ²	8m²	>2hrs	NO	Adaptable
	Level 01	D106	1B+S	60m ²	9m²	>2hrs	NO	Visitable
	Level 01	D107	2B+S	83m ²	12m ²	>2hrs	YES	Visitable
	Level 01	D108	2B+S	83m ²	12m ²	<2hrs	YES	Visitable
	Level 01	D109	2B	81m ²	10m²	<2hrs	NO	Adaptable
	Level 02	D201	1B+S	61m ²	9m²	<2hrs	NO	Visitable
	Level 02	D201	2B+S	87m ²	10m ²	<2hrs	YES	Silver Living
	Level 02	D202	3B	100m ²	12m ²	>2hrs	YES	N/A
	Level 02	D203	1B+S	63m ²	8m ²	>2hrs	NO	Adaptable
	Level 02	D205	1B+S	63m ²	8m ²	>2hrs	NO	Adaptable
	Level 02	D206	1B+S	60m ²	9m²	>2hrs	NO	Visitable
	Level 02	D207	2B+S	83m ²	12m²	>2hrs	YES	Visitable
	Level 02	D208	2B+S	83m ²	12m ²	>2hrs	YES	Visitable
	Level 02	D209	2B	81m ²	10m²	>2hrs	NO	Adaptable
	Laural 02	D201	10.0	C1-m ²	02		NO	Visitable
	Level 03 Level 03	D301 D302	1B+S 2B+S	61m ² 87m ²	9m ² 10m ²	>2hrs	NO YES	Visitable Silver Living
	Level 03	D302	3B	100m ²	10m ²	>2hrs	YES	N/A
	Level 03	D303	1B+S	63m ²	8m ²	>2hrs	NO	Adaptable
	Level 03	D305	1B+S	63m ²	8m ²	>2hrs	NO	Adaptable
	Level 03	D306	1B+S	60m ²	9m²	>2hrs	NO	Visitable
	Level 03	D307	2B+S	83m ²	12m ²	>2hrs	YES	Visitable
	Level 03	D308	2B+S	83m ²	12m²	>2hrs	YES	Visitable
	Level 03	D309	2B	81m ²	10m ²	>2hrs	NO	Adaptable
					- 3			
	Level 04	D401	1B+S	61m ²	9m²	>2hrs	NO	Visitable
	Level 04	D402	2B+S	87m ²	10m²	>2hrs	YES	Silver Living
	Level 04 Level 04	D402 D403	2B+S 3B	87m ² 100m ²	10m ² 12m ²	>2hrs >2hrs	YES YES	Silver Living N/A
	Level 04 Level 04 Level 04	D402 D403 D404	2B+S 3B 1B+S	87m ² 100m ² 63m ²	10m ² 12m ² 8m ²	>2hrs >2hrs >2hrs >2hrs	YES YES NO	Silver Living N/A Adaptable
	Level 04 Level 04 Level 04 Level 04	D402 D403 D404 D405	2B+S 3B 1B+S 1B+S	87m ² 100m ² 63m ² 63m ²	10m ² 12m ² 8m ² 8m ²	>2hrs >2hrs >2hrs >2hrs >2hrs	YES YES NO NO	Silver Living N/A Adaptable Adaptable
	Level 04 Level 04 Level 04	D402 D403 D404	2B+S 3B 1B+S	87m ² 100m ² 63m ²	10m ² 12m ² 8m ²	>2hrs >2hrs >2hrs >2hrs	YES YES NO	Silver Living N/A Adaptable
	Level 04 Level 04 Level 04 Level 04 Level 04 Level 04	D402 D403 D404 D405 D406	2B+S 3B 1B+S 1B+S 1B+S	87m ² 100m ² 63m ² 63m ² 60m ²	10m ² 12m ² 8m ² 9m ²	>2hrs >2hrs >2hrs >2hrs >2hrs >2hrs	YES YES NO NO NO	Silver Living N/A Adaptable Adaptable Visitable
	Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04	D402 D403 D404 D405 D406 D407	2B+S 3B 1B+S 1B+S 1B+S 2B+S	87m ² 100m ² 63m ² 63m ² 60m ² 83m ²	10m ² 12m ² 8m ² 9m ² 12m ²	>2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs	YES YES NO NO NO YES	Silver Living N/A Adaptable Adaptable Visitable Visitable
	Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04	D402 D403 D404 D405 D406 D407 D407 D408 D409	28+5 38 18+5 18+5 28+5 28+5 28+5 28	87m ² 100m ² 63m ² 63m ² 60m ² 83m ² 83m ² 83m ²	10m ² 12m ² 8m ² 9m ² 12m ² 12m ² 10m ²	>2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs	YES YES NO NO YES YES NO	Silver Living N/A Adaptable Adaptable Visitable Visitable Visitable Adaptable
	Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04	D402 D403 D404 D405 D406 D407 D408 D409 D501	28+5 38 18+5 18+5 28+5 28+5 28+5 28 28 18	87m ² 100m ² 63m ² 60m ² 83m ² 83m ² 83m ² 81m ² 50m ²	10m ² 12m ² 8m ² 9m ² 12m ² 12m ² 10m ² 8m ²	>2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs	YES YES NO NO NO YES YES NO	Silver Living N/A Adaptable Adaptable Visitable Visitable Adaptable Visitable
	Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 05 Level 05	D402 D403 D404 D405 D406 D407 D408 D409 D409 D501 D502	28+5 38 18+5 18+5 28+5 28+5 28+5 28 28 18 28	87m ² 100m ² 63m ² 60m ² 83m ² 83m ² 81m ² 50m ² 79m ²	10m ² 12m ² 8m ² 9m ² 12m ² 12m ² 10m ² 8m ² 10m ²	>2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs	YES YES NO NO YES YES NO NO YES	Silver Living N/A Adaptable Adaptable Visitable Visitable Adaptable Visitable Visitable Visitable
	Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 05 Level 05 Level 05	D402 D403 D404 D405 D406 D407 D408 D409 D409 D501 D501 D502 D503	2B+S 3B 1B+S 1B+S 2B+S 2B+S 2B+S 2B 1B 2B 3B	87m ² 100m ² 63m ² 60m ² 83m ² 83m ² 81m ² 50m ² 79m ² 112m ²	10m ² 12m ² 8m ² 9m ² 12m ² 12m ² 10m ² 8m ² 10m ² 34m ²	>2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs	YES YES NO NO YES YES NO YES YES	Silver Living N/A Adaptable Adaptable Visitable Visitable Adaptable Visitable Visitable Visitable N/A
	Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 05 Level 05 Level 05 Level 05 Level 05	D402 D403 D404 D405 D406 D407 D408 D409 D409 D501 D501 D502 D503 D504	2B+S 3B 1B+S 1B+S 2B+S 2B+S 2B+S 2B 1B 2B 3B 1B	87m ² 100m ² 63m ² 63m ² 83m ² 83m ² 83m ² 50m ² 79m ² 112m ² 56m ²	10m ² 12m ² 8m ² 9m ² 12m ² 12m ² 10m ² 8m ² 10m ² 34m ² 9m ²	>2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs	YES YES NO NO YES YES NO NO YES YES YES NO	Silver Living N/A Adaptable Adaptable Visitable Visitable Adaptable Visitable Visitable Visitable N/A N/A
	Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 05 Level 05 Level 05 Level 05 Level 05 Level 05	D402 D403 D404 D405 D406 D407 D408 D409 D409 D501 D501 D502 D503 D504 D505	2B+S 3B 1B+S 1B+S 2B+S 2B+S 2B+S 2B 1B 2B 3B 1B 2B 3B 1B 2B+S	87m ² 100m ² 63m ² 63m ² 60m ² 83m ² 83m ² 83m ² 81m ² 50m ² 79m ² 112m ² 56m ² 89m ²	10m ² 12m ² 8m ² 9m ² 12m ² 12m ² 10m ² 8m ² 10m ² 34m ² 9m ² 31m ²	>2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs	YES YES NO NO YES YES NO YES YES NO NO NO	Silver Living N/A Adaptable Adaptable Visitable Visitable Visitable Visitable Visitable Visitable N/A N/A Visitable
	Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 05 Level 05 Level 05 Level 05 Level 05	D402 D403 D404 D405 D406 D407 D408 D409 D409 D501 D501 D502 D503 D504	2B+S 3B 1B+S 1B+S 2B+S 2B+S 2B+S 2B 1B 2B 3B 1B	87m ² 100m ² 63m ² 63m ² 83m ² 83m ² 83m ² 50m ² 79m ² 112m ² 56m ²	10m ² 12m ² 8m ² 9m ² 12m ² 12m ² 10m ² 8m ² 10m ² 34m ² 9m ²	>2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs	YES YES NO NO YES YES NO NO YES YES YES NO	Silver Living N/A Adaptable Adaptable Visitable Visitable Adaptable Visitable Visitable Visitable N/A N/A
	Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 05 Level 05 Level 05 Level 05 Level 05 Level 05 Level 05 Level 05 Level 05 Level 05	D402 D403 D404 D405 D406 D407 D408 D409 D501 D502 D503 D503 D504 D505 D506	2B+S 3B 1B+S 1B+S 2B+S 2B+S 2B 3B 1B 2B 3B 1B 2B+S 2B+S 2B+S	87m ² 100m ² 63m ² 63m ² 60m ² 83m ² 83m ² 83m ² 81m ² 50m ² 79m ² 112m ² 56m ² 89m ² 99m ²	10m ² 12m ² 8m ² 9m ² 12m ² 12m ² 10m ² 8m ² 10m ² 34m ² 9m ² 31m ² 29m ²	>2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs >2hrs	YES YES NO NO YES YES NO YES YES NO NO NO YES	Silver Living N/A Adaptable Adaptable Visitable Visitable Visitable Visitable Visitable N/A N/A Visitable Visitable
	Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 05 Level 05 Level 05 Level 05 Level 05 Level 05 Level 05 Level 05 Level 05 Level 05	D402 D403 D404 D405 D406 D407 D408 D409 D501 D502 D503 D504 D505 D506 D506 D507 D508	2B+S 3B 1B+S 1B+S 2B+S 2B+S 2B 1B 2B 3B 1B 2B+S 2B+S 2B+S 2B+S 1B 1B	87m² 100m² 63m² 60m² 83m² 83m² 81m² 50m² 79m² 112m² 56m² 89m² 99m² 88m² 50m²	10m ² 12m ² 8m ² 9m ² 12m ² 12m ² 10m ² 8m ² 10m ² 34m ² 9m ² 31m ² 29m ² 10m ² 8m ²	>2hrs >2hrs	YES YES NO NO YES YES NO YES YES NO NO YES YES NO NO YES YES NO	Silver Living N/A Adaptable Adaptable Visitable Visitable Visitable Visitable Visitable N/A N/A Visitable Visitable Visitable Visitable Visitable
	Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 05 Level 06 Level	D402 D403 D404 D405 D406 D407 D408 D409 D409 D501 D501 D502 D503 D504 D505 D506 D505 D506 D507 D508 D601	2B+S 3B 1B+S 1B+S 2B+S 2B+S 2B 1B 2B 3B 1B 2B+S 2B+S 2B+S 2B+S 2B+S 1B 1B 1B 1B 1B 1B 1B 1B 1B+S 1B 1B 1B 1B 1B 1B 1B 1B 1B 1B	87m² 100m² 63m² 60m² 83m² 83m² 81m² 50m² 79m² 112m² 56m² 89m² 99m² 88m² 50m²	10m ² 12m ² 8m ² 9m ² 12m ² 12m ² 10m ² 8m ² 10m ² 34m ² 9m ² 34m ² 9m ² 31m ² 29m ² 10m ² 8m ²	>2hrs >2hrs	YES NO NO YES YES NO NO YES YES NO NO YES YES NO NO NO NO NO	Silver Living N/A Adaptable Adaptable Visitable Visitable Visitable Visitable Visitable N/A N/A Visitable Visitable Visitable Visitable Visitable Visitable Visitable Visitable
	Level 04 Level 04 Level 04 Level 04 Level 04 Level 04 Level 05 Level 06 Level 06	D402 D403 D404 D405 D406 D407 D408 D409 D409 D501 D502 D503 D504 D505 D506 D506 D506 D507 D508 D508	2B+S 3B 1B+S 1B+S 2B+S 2B+S 2B+S 2B 1B 2B 3B 1B 2B+S 2B+S 2B+S 2B+S 1B 1B 2B+S 2B+S 2B+S 2B+S 2B+S 2B+S 2B+S 2B+S 2B+S 2B 3B 1B 2B 2B 2B 3B 1B 2B 2B 2B 2B 2B 2B 2B 2B 2B 2	87m² 100m² 63m² 60m² 83m² 83m² 83m² 81m² 50m² 79m² 112m² 56m² 89m² 99m² 88m² 50m² 50m²	10m ² 12m ² 8m ² 9m ² 12m ² 12m ² 10m ² 8m ² 10m ² 34m ² 9m ² 31m ² 29m ² 10m ² 8m ² 10m ² 8m ²	>2hrs >2hrs	YES YES NO NO YES YES NO NO YES YES NO NO YES YES NO NO YES	Silver Living N/A Adaptable Adaptable Visitable Visitable Visitable Visitable Visitable N/A N/A Visitable Visitable Visitable Visitable Visitable Visitable Visitable Visitable
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Building	Level	Apt #	Туре	Internal Area (m²)	POS (m²)	Solar Compliance	Cross Vent Compliance	Accessibility
Block E	Ground	E301	3B	98m²	14m²	N/A	YES	N/A
DIOCK L	Ground	E301	3B 3B	104m ²	14111 16m ²	N/A N/A	YES	N/A N/A
	Ground	2302	50	104111	1011	N/A	TEJ	N/A
	Basement 01	E101	3B	55m ²	11m ²	N/A	YES	N/A
	Basement 02	EIOI	38	64m ²	25m ²	N/A	TES	N/A
	Basement 01	E102	3B	65m ²	12m ²	N/A	YES	N/A
	Basement 02	E102	20	64m ²	16m²	N/A	TES	N/A
	Basement 01	E103	3B	65m ²	12m ²	N/A	YES	N/A
	Basement 02	1103	30	68m²	16m²	N/A	TL3	N/A
	Basement 01	E201	2B+S	90m ²	19m²	N/A	YES	N/A
	Basement 01	E202	2B+S	103m ²	15m²	N/A	YES	N/A
	Basement 01	E204	2B+S	95m²	56m²	N/A	NO	N/A
	Basement 01	E205	2B+S	125m ²	51m²	>2hrs	YES	N/A
	Basement 02	E002	3B	65m ²	9m²	N/A	YES	N/A
	Basement 03	L002	36	67m ²	32m ²	N/A	TLS	N/A
	Basement 02	E105	2B+S	104m ²	20m ²	N/A	YES	N/A
	Basement 02	E106	3B	149m ²	22m ²	N/A	YES	N/A
	Basement 02	E001	3B	74m ²	11m²	N/A	YES	N/A
	Basement 03	2001	50	82m ²	33m²	11/4	1125	11/A
	Basement 03	E003	3B	68m ²	11m²	N/A	YES	N/A
	Basement 04			64m ²	32m ²			
	Basement 03	E004	3B	68m ²	10m ²	N/A	YES	N/A
	Basement 04			64m ²	23m ²	,		
	Basement 03	E005	3B	70m ²	12m ²	N/A	YES	N/A
	Basement 04			64m ²	36m²	,		,,,,

ADG Compliance



Principle 1 - Context and Neighbourhood Character

'Good design responds and contributes to its context. Context is the key natural and built features of an area, their relationship and the character they create when combined. It also includes social, economic, health and environmental conditions. Responding to context involves identifying the desirable elements of an area's existing or future character. Well designed buildings respond to and enhance the qualities and identity of the area including the adjacent sites, streetscape and neighbourhood. Consideration of local context is important for all sites, including sites in established areas, those undergoing change or identified for change.'

Located with the new St Leonards precinct, the site is characterized by the future/masterplan vision for a new residential precinct that integrates landscape and built form. The site is well positioned between Willoughby and St Leonards Station, as well as the planned nearby Crows Nest Metro, with new cycleways and walkways offering green travel alternatives. The design works with the masterplan objectives, building on the proposed pocket parks and landscaping enhanced by a 24m Green Spine landscaping.

Principle 2 - Built Form and Scale

'Good design achieves a scale, bulk and height appropriate to the existing or desired future character of the street and surrounding buildings. Good design also achieves an appropriate built form for a site and the building's purpose in terms of building alignments, proportions, building type, articulation and the manipulation of building elements. Appropriate built form defines the public domain, contributes to the character of streetscapes and parks, including their views and vistas, and provides internal amenity and outlook.'

The height, bulk and scale is generally consistent with the precincts' masterplan for the area as well as the wider context. The proposal respects the lower scale nature of the residential properties to River Road through a transition from a 3-storey street wall and terracing upwards to the 8 storey component. The gradual stepping reduces the perceived bulk and scale from River Road and is more aligned with the natural topography of the site.

The building form has been broken into distinct forms to break down the mass and create articulation along the building mass. A 3m x 3m slot in each building is utilised to divide the form into two, and provide a better amenity to the units. The slot facing the street allows natural light to the study layouts, while the internal slot provides natural light and ventilation to the common lift lobby. The 9m wide Through-Site Link creates a visual and physical connection east/west through the site, allowing the two adjacent pocket parks to be visually connected.

Principle 3 - Density

'Good design achieves a high level of amenity for residents and each apartment, resulting in a density appropriate to the site and its context. Appropriate densities are consistent with the area's existing or projected population. Appropriate densities can be sustained by existing or proposed infrastructure, public transport, access to jobs, community facilities and the environment.'

The site is located within the R4 - High Density Residential zone, and is a transitional zone from the higher density mixed-use developments of St Leonards Station to the R2 Low density residential. The Department of Planning projects an increase of residential population and a desire to see more affordable housing and a greater variety in the area.

As such, the proposed development plays an integral role as part of the precinct and responds accordingly to the availability of infrastructure, transport, demand and environmental quality. The sustainability of the proposed development is further



supported by the proposal of new active transport links, cycle ways and the neighbouring Crows Nest Metro station. New green spaces and community facilities will service the new local community including the nearby Council park and pocket parks proposed to the ends of Berry and Holdsworth Roads. The St Leonards residents will enjoy the new local open spaces as well as the nearby local community facilities.

Principle 4 - Sustainability

'Good design combines positive environmental, social and economic outcomes. Good sustainable design includes use of natural cross ventilation and sunlight for the amenity and liveability of residents and passive thermal design for ventilation, heating and cooling reducing reliance on technology and operation costs. Other elements include recycling and reuse of materials and waste, use of sustainable materials and deep soil zones for groundwater recharge and vegetation.'

The proposed building is designed to satisfy energy and efficiency performance standards designed to achieve verification for water conservation, thermal comfort and energy efficiency. Natural light and cross ventilation are provided to all common corridors on all levels via passive systems.

The proposed mixed use development aims to revitalise the heart of Lane Cove and create a community that is healthy, safe and resilient.

The core tenets of environmental, social and economic sustainability are placed front and centre as a design response to this vision.

The project incorporates ESD initiatives that go above and beyond regulatory requirements to produce a site that will consist comfort living condition, energy efficient, water efficient and pleasant living environment.

The unit layouts encourage less reliance on me-chanical Greaton Development. © Koichi Takada Architects

systems with good cross flow ventila-tion and shading, as well as integrating power generation by way of PV's. A solar photovoltaic (PV) system is proposed to be installed on the rooftop of each high-rise building. The current area achieve a system size of 30kW or greater.

Embedded in the design are the following sustainable initiatives:

- Passive design ensuring minimum 6 Star NatHERS rating
- Energy efficient LED lighting
- Control systems tuned to maximise building performance
- Solar photovoltaic system
- WELS star rated fixtures
- Supplemental bicycle parking spaces

• Outdoor motion activated misters and water features to provide relief on hot days

• Activated public and communal open space with inclusive, passive, active and growing zones

Principle 5 - Landscape

'Good design recognises that together landscape and buildings operate as an integrated and sustainable system, resulting in attractive developments with good amenity. A positive image and contextual fit of well designed developments is achieved by contributing to the landscape character of the streetscape and neighbourhood. Good landscape design enhances the development's environmental performance by retaining positive natural features which contribute to the local context, co-ordinating water and soil management, solar access, microclimate, tree canopy, habitat values and preserving green networks. 'Good landscape design optimises useability, privacy and opportunities for social interaction, equitable



access, respect for neighbours' amenity and provides for practical establishment and long term management.'

The principle design approach was to create an intrinsic relationship between architecture and nature while maintaining pedestrian connectivity across the steep topography. The green spine combines communal areas with private terraces, negotiating a steep level change. There is appro-priate screening to ensure visual privacy, while creating a lush and green environment. A fully accessible path in the green spine ensures equi-table access and enjoyment of the key landscape spaces in the Green Spine.

Landscaping on the façade reinforces the archi-tectural language, strengthening the setbacks levels, terraces and slots. The architectural de-sign incorporates façade planters and planted green roofs on the lower levels to facilitate a strong connection to landscape. The biophilic design increases user comfort, wellbeing and amenity.

Deep soil area on site has been maximized, ex-ceeding the Apartment Design Guide's (ADG) re-quirement for 7%. This allows mature trees to be planted on-site and raised planters will be used where there is basement underneath.

Principle 6 - Amenity

'Good design positively influences internal and external amenity for residents and neighbours. Achieving good amenity contributes to positive living environments and resident well being. Good amenity combines appropriate room dimensions and shapes, access to sunlight, natural ventilation, outlook, visual and acoustic privacy, storage, indoor and outdoor space, efficient layouts and service areas and ease of access for all age groups and degrees of mobility'

The new building optimises residential amenity and incorporates a range of 1 Bed, 2-Bed and 3-Bedroom apartments providing a varied residential mix. Corner units are maximised in order to provide the opportunity for maximising views and cross ventilation. Living rooms are pushed to the building extents where possible in order to maximise on solar access into both the internal living room and private open space.

Façade screens, a feature awning and landscaping are used to address visual privacy between the units and the green spine open space. Canopy trees aid in providing privacy from the communal uses in the green spine. Visual and acoustic privacy is further achieved for the residential apartments by adhering to the ADG building separation guidelines.

Principle 7 - Safety

'Good design optimises safety and security within the development and the public domain. It provides for quality public and private spaces that are clearly defined and fit for the intended purpose. Opportunities to maximise passive surveillance of public and communal areas promote safety. A positive relationship between public and private spaces is achieved through clearly defined secure access points and well lit and visible areas that are easily maintained and appropriate to the location and purpose.

Main pedestrian entries to the development are accessed from both Berry Rd and Holdsworth Ave, and from the Through-Site link, to allow a continuous visual and physical link through the development. The alignment of the wider through-site link allows clear sight lines in order to create casual surveillance throughout.

The ground level has been designed to make vis-ible and attractive entries to the building. The entries are well lit, naturally during the day, and will have security surveillance and intercoms to identify visitors to the building complex. Access to the basement car parking will be secured by means of a roller shutter at all times.



The typical apartments above have balconies along the perimeter that allow a level of casual surveillance of the surrounding public walkways. Direct access to the lift and stair from the car-park allows residents to drive and enter through a completely secured means.

Principle 8 - Housing Diversity and Social Interaction

'Good design achieves a mix of apartment sizes, providing housing choice for different demographics, living needs and household budgets. Well designed apartment developments respond to social context by providing housing and facilities to suit the existing and future social mix. Good design involves practical and flexible features, including different types of communal spaces for a broad range of people and providing opportunities for social interaction among residents.'

The proposed building is designed to respond to future vision of the St Leonards South precinct and to achieve a range of housing choice to suit a diverse demographic and needs of its future residents. The new residential proposal will contribute positively to the surrounding area, allowing an injection of new life into this transitional area, to align with the desired future character of the locality and the social needs were considered carefully.

The proposal consists of one, two and three-bedroom apartment types of varying sizes to support a range of socioeconomic groups. The typical apartments aim to attract a variety of owner/occupiers and tenants.

The design promotes social interaction between residents through its variety of communal outdoor spaces including the rooftop terraces and public green spine connections. These dynamic spaces are visually appealing but also encourage a place of social interaction through a range of activities and uses including outdoor kitchens, outdoor dining, sheltered areas and seating.

Principle 9 - Aesthetics

'Good design achieves a built form that has good proportions and a balanced composition of elements, reflecting the internal layout and structure. Good design uses a variety of materials, colours and textures. The visual appearance of a well designed apartment development responds to the existing or future local context, particularly desirable elements and repetitions of the streetscape."

The three main design features of the building include the horizontal slab edges detailed with a thin edge with timber look screens, combined with soft edges and curves that provide an organic and complimentary residential building. A continuous and contrasting coloured banding emphasises the curves and the horizontality along the façade. The culmination of the curved balcony corners, timber screens and feature awning all create a warm and inviting residential architectural expression that helps to reduce the perceived bulk and scale, and enhance the land-scape character that is prevalent in the master-plan.

The natural material palette is comprised of sandstone utilised to define the interface with the site and ground the design into the steeply slopping terrain. The timber look screening in an oak texture and colouring creating a subtle cor-relation to the landscaped surrounds. The hori-zontal planters are integrated at the Level 1 awning, providing increased privacy to the units, and defining the ground level lobby entries. The feature timber awning, turning 90degrees, strengthens the vertical breaks in the form, cre-ating a slot that effectively divides the towers in two parts. The building steps back above the fifth storey enhanced with a perimeter planter.

The top level of the towers is recessed from the floors below and takes on a lighter facade ex-pression. With a thin roof overhang, and large expanses of glass, the top level units enjoy dis-trict views and large wrap around terraces. The setback and lighter materials mean this top floor is barley visible from the street and public domain.



8.2 Compliance Schedule SEPP 65 ADG Compliance

Summary of Compliance with the NSW Apartment Design Guide

Objectives and Design C	riteria		Consistent
Part 2 Developing the co	ntrols		
2E Building Depth			Maximum 20.55m building depth
2F Building Separation			√
			24m building separation in Green Spine
			The setback to the northern boundary assumes the future development will follow a similar form as contemplated in the DCP. The first 5-Storeys continues a 6m setback to align to the streetscape setbacks, above which a 9.2m setback is introduced up to Level 8, and 12.6m in the upper levels.
Part 3 Siting the Develop	ment		
3D Communal and Public O	pen Space		
Objective An adequate area of communal oper landscaping.	n space is provided to enhance residential amer	nity and to provide opportunities for	×
Design Criteria			✓
Communal open space has a minim	um area equal to 25% of the site.		2,507.5m ² is provided as communal open space, which equates to 29% of the site
Developments achieve a minimum o	of 50% direct sunlight to the principal usable part	of the communal open space for a	√
	of 50% direct sunlight to the principal usable part and 3 pm on 21 June (mid winter).	of the communal open space for a	As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct sunlight.
minimum of 2 hours between 9 am a		of the communal open space for a	As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct sunlight.
minimum of 2 hours between 9 am a 3E Deep Soil Zones Objective Deep soil zones provide areas on the	and 3 pm on 21 June (mid winter).		As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct
minimum of 2 hours between 9 am a 3E Deep Soil Zones Objective Deep soil zones provide areas on the residential amenity and promote man	and 3 pm on 21 June (mid winter).		As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct sunlight.
minimum of 2 hours between 9 am a 3E Deep Soil Zones Objective Deep soil zones provide areas on the residential amenity and promote man Design Criteria	and 3 pm on 21 June (mid winter). e site that allow for and support healthy plant and nagement of water and air quality.		As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct sunlight.
minimum of 2 hours between 9 am a 3E Deep Soil Zones Objective Deep soil zones provide areas on the residential amenity and promote man Design Criteria Deep soil zones are to meet the follo Site Area Less than 650m ² 650m ² – 1,500m ² Greater than 1,500m ²	e site that allow for and support healthy plant and nagement of water and air quality. wing minimum requirements: Minimum Dimensions - 3m 6m		As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct sunlight.
minimum of 2 hours between 9 am a 3E Deep Soil Zones Objective Deep soil zones provide areas on the residential amenity and promote man Design Criteria Deep soil zones are to meet the follo Site Area Less than 650m ² 650m ² – 1,500m ² Greater than 1,500m ²	e site that allow for and support healthy plant and nagement of water and air quality. wing minimum requirements: Minimum Dimensions - 3m 6m	d tree growth. They improve Deep Soil Zone (% of site area)	As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct sunlight.
minimum of 2 hours between 9 am a 3E Deep Soil Zones Objective Deep soil zones provide areas on the residential amenity and promote man Design Criteria Deep soil zones are to meet the follo Site Area Less than 650m ² 650m ² – 1,500m ² Greater than 1,500m ² with significar	e site that allow for and support healthy plant and nagement of water and air quality. wing minimum requirements: Minimum Dimensions - 3m 6m	d tree growth. They improve Deep Soil Zone (% of site area)	As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct sunlight.
ninimum of 2 hours between 9 am a 3E Deep Soil Zones Dijective Deep soil zones provide areas on the residential amenity and promote man Design Criteria Deep soil zones are to meet the follo Site Area Less than 650m ² 650m ² – 1,500m ² Greater than 1,500m ² with significar 3F Visual Privacy	e site that allow for and support healthy plant and nagement of water and air quality. wing minimum requirements: Minimum Dimensions - 3m 6m	d tree growth. They improve Deep Soil Zone (% of site area)	As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct sunlight.
ninimum of 2 hours between 9 am a 3E Deep Soil Zones Dijective Deep soil zones provide areas on the residential amenity and promote man Design Criteria Deep soil zones are to meet the follo Site Area Less than 650m ² 650m ² – 1,500m ² Greater than 1,500m ² with significar 3F Visual Privacy Dijective Adequate building separation distance	e site that allow for and support healthy plant and nagement of water and air quality. wing minimum requirements: Minimum Dimensions - 3m 6m	d tree growth. They improve Deep Soil Zone (% of site area) 7%	As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct sunlight.
minimum of 2 hours between 9 am a 3E Deep Soil Zones Objective Deep soil zones provide areas on the residential amenity and promote man Design Criteria Deep soil zones are to meet the follo Site Area Less than 650m ² <u>650m² – 1,500m²</u> <u>Greater than 1,500m² with significar</u> 3F Visual Privacy Objective Adequate building separation distance external and internal visual privacy.	e site that allow for and support healthy plant and nagement of water and air quality. wing minimum requirements: Minimum Dimensions - 3m 6m nt existing tree cover 6m	d tree growth. They improve Deep Soil Zone (% of site area) 7%	As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct sunlight.
minimum of 2 hours between 9 am a 3E Deep Soil Zones Objective Deep soil zones provide areas on the residential amenity and promote man Design Criteria Deep soil zones are to meet the follo Site Area Less than 650m ² 650m ² – 1,500m ² Greater than 1,500m ² with significar Greater than 1,500m ² with si	e site that allow for and support healthy plant and nagement of water and air quality. wing minimum requirements: Minimum Dimensions - 3m 6m nt existing tree cover 6m	d tree growth. They improve Deep Soil Zone (% of site area) 7% sites, to achieve reasonable levels of	As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct sunlight.
3E Deep Soil Zones Objective Deep soil zones provide areas on the residential amenity and promote man Design Criteria Deep soil zones are to meet the follo Site Area Less than 650m² 650m² – 1,500m² Greater than 1,500m² with significar 3F Visual Privacy Objective Adequate building separation distance external and internal visual privacy. Design Criteria Separation between windows and baseparation distances from buildings to the separation distances from bui	e site that allow for and support healthy plant and nagement of water and air quality. wing minimum requirements: Minimum Dimensions - 3m 6m nt existing tree cover 6m ces are shared equitably between neighbouring alconies is provided to ensure visual privacy is an	d tree growth. They improve Deep Soil Zone (% of site area) 7% sites, to achieve reasonable levels of chieved. Minimum required	As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct sunlight. Approximately 1,986m ² or 22.7% of the site area is provided as deep soil. of The scheme is generally consistent with ADG minimum separation distances for visual privacy. A setback at Level 5 and
minimum of 2 hours between 9 am a 3E Deep Soil Zones Objective Deep soil zones provide areas on the residential amenity and promote man Design Criteria Deep soil zones are to meet the follo Site Area Less than 650m ² 650m ² – 1,500m ² Greater than 1,500m ² with significar 3F Visual Privacy Objective Adequate building separation distance external and internal visual privacy. Design Criteria Separation between windows and ba	and 3 pm on 21 June (mid winter). e site that allow for and support healthy plant and nagement of water and air quality. wing minimum requirements: Minimum Dimensions - 3m 6m t existing tree cover 6m ces are shared equitably between neighbouring alconies is provided to ensure visual privacy is an to the side and rear boundaries are as follows:	d tree growth. They improve Deep Soil Zone (% of site area) 7% sites, to achieve reasonable levels of chieved. Minimum required	As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct sunlight. Approximately 1,986m ² or 22.7% of the site area is provided as deep soil. of The scheme is generally consistent with ADG minimum separation distances for visual privacy. A setback at Level 5 and Level 6 (depending on the slope of the
minimum of 2 hours between 9 am a 3E Deep Soil Zones Objective Deep soil zones provide areas on the residential amenity and promote man Design Criteria Deep soil zones are to meet the follor Site Area Less than 650m ² 650m ² – 1,500m ² Greater than 1,500m ² Greater than 1,500m ² with significar 3F Visual Privacy Objective Adequate building separation distance external and internal visual privacy. Design Criteria Separation between windows and ba separation distances from buildings to Building Height	e site that allow for and support healthy plant and nagement of water and air quality. wing minimum requirements: Minimum Dimensions - 3m 6m nt existing tree cover 6m ces are shared equitably between neighbouring alconies is provided to ensure visual privacy is ar to the side and rear boundaries are as follows: Habitable rooms and balcon	d tree growth. They improve Deep Soil Zone (% of site area) 7% sites, to achieve reasonable levels of chieved. Minimum required ies Non-habitable rooms	As demonstrated by the sun view diagrams, the communal spaces can achieve a minimum of 2 hours of direct sunlight. Approximately 1,986m ² or 22.7% of the site area is provided as deep soil. of The scheme is generally consistent with ADG minimum separation distances for visual privacy. A setback at Level 5 and

3J Bicycle and Car Parking

Objective

Car Parking is provided based on proximity to public transport in metropolitan Sydney and centres in Design Criteria

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
- on land zoned, and sites within 400m of land zoned, B3 Commercial Core, B4 Mixed Use or equ
 regional centre

The minimum car parking requirement for residents and visitors is set out in the Guide to Traffic Gen 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.

4A Solar and Daylight acce	;35
Objective	
To optimise the number of apartme	nts receiving sunlight to habitable rooms, primary windows an
Design Criteria	
	ces of at least 70% of apartments in a building receive a minim mid winter in the Sydney Metropolitan Area and in the Newca
A maximum of 15% of apartments i	in a building receive no direct sunlight between 9 am and 3 pm
4B Natural Ventilation	
Objective	
,	ural cross ventilation is maximised to create a comfortable ind
Design Criteria	
ALL 1000/ C 1 1	
or greater are deemed to be cross v	ventilated only if any enclosure of the balconies at these levels
or greater are deemed to be cross v ventilation and cannot be fully enclo	
or greater are deemed to be cross v ventilation and cannot be fully enclo	ventilated only if any enclosure of the balconies at these levels osed.
or greater are deemed to be cross v ventilation and cannot be fully enclo	ventilated only if any enclosure of the balconies at these levels osed.
or greater are deemed to be cross v ventilation and cannot be fully enclo	ventilated only if any enclosure of the balconies at these levels osed.
or greater are deemed to be cross v ventilation and cannot be fully enclo Overall depth of a cross-over or cro	ventilated only if any enclosure of the balconies at these levels osed.
or greater are deemed to be cross ventilation and cannot be fully enclo Overall depth of a cross-over or cro 4C Ceiling Height Objective	ventilated only if any enclosure of the balconies at these levels osed.
or greater are deemed to be cross ventilation and cannot be fully enclo Overall depth of a cross-over or cro 4C Ceiling Height Objective	ventilated only if any enclosure of the balconies at these levels osed. iss-through apartment does not exceed 18m, measured glass
or greater are deemed to be cross ventilation and cannot be fully enclo Overall depth of a cross-over or cro 4C Ceiling Height Objective Ceiling height achieves sufficient na Design Criteria	ventilated only if any enclosure of the balconies at these levels osed. iss-through apartment does not exceed 18m, measured glass
or greater are deemed to be cross ventilation and cannot be fully enclo Overall depth of a cross-over or cro 4C Ceiling Height Objective Ceiling height achieves sufficient na Design Criteria	ventilated only if any enclosure of the balconies at these levels osed. iss-through apartment does not exceed 18m, measured glass atural ventilation and daylight access.
or greater are deemed to be cross ventilation and cannot be fully enclo Overall depth of a cross-over or cro 4C Ceiling Height Objective Ceiling height achieves sufficient na Design Criteria Measured from finished floor level to	ventilated only if any enclosure of the balconies at these levels osed. iss-through apartment does not exceed 18m, measured glass atural ventilation and daylight access.
or greater are deemed to be cross ventilation and cannot be fully enclo Overall depth of a cross-over or cro 4C Ceiling Height Objective <u>Ceiling height achieves sufficient na</u> Design Criteria Measured from finished floor level to <u>Minimum ceiling height</u>	ventilated only if any enclosure of the balconies at these levels osed. Iss-through apartment does not exceed 18m, measured glass atural ventilation and daylight access.
or greater are deemed to be cross ventilation and cannot be fully enclo Overall depth of a cross-over or cro 4C Ceiling Height Objective Ceiling height achieves sufficient na Design Criteria Measured from finished floor level to Minimum ceiling height Habitable rooms	ventilated only if any enclosure of the balconies at these levels osed. iss-through apartment does not exceed 18m, measured glass atural ventilation and daylight access. o finished ceiling level, minimum ceiling heights are: 2.7m
or greater are deemed to be cross ventilation and cannot be fully enclo Overall depth of a cross-over or cro 4C Ceiling Height Objective Ceiling height achieves sufficient na Design Criteria Measured from finished floor level to <u>Minimum ceiling height</u> Habitable rooms Non-habitable	ventilated only if any enclosure of the balconies at these levels osed. ass-through apartment does not exceed 18m, measured glass atural ventilation and daylight access. o finished ceiling level, minimum ceiling heights are: 2.7m 2.4m 2.7m for main living area floor
or greater are deemed to be cross ventilation and cannot be fully enclo Overall depth of a cross-over or cro 4C Ceiling Height Objective Ceiling height achieves sufficient na Design Criteria Measured from finished floor level to <u>Minimum ceiling height</u> Habitable rooms Non-habitable	ventilated only if any enclosure of the balconies at these levels osed. iss-through apartment does not exceed 18m, measured glass atural ventilation and daylight access. o finished ceiling level, minimum ceiling heights are: 2.7m 2.4m 2.7m for main living area floor 2.4m for second floor, where its area does not exceed area 1.8m at edge of room with a 30
or greater are deemed to be cross ventilation and cannot be fully enclo Overall depth of a cross-over or cro 4C Ceiling Height Objective Ceiling height achieves sufficient na Design Criteria Measured from finished floor level to <u>Minimum ceiling height</u> Habitable rooms Non-habitable For 2 storey apartments	ventilated only if any enclosure of the balconies at these levels psed. ass-through apartment does not exceed 18m, measured glass atural ventilation and daylight access. o finished ceiling level, minimum ceiling heights are: 2.7m 2.4m 2.4m 2.7m for main living area floor 2.4m for second floor, where its area does not exceed area

	windows deal with ensuring adequate privacy.
	The through-site link is 9m width and is adequate for the first 8storeys. The upper levels introduce a further setback of more than 3m to achieve 12m above level 8.
n regional areas.	√
a; or uivalent in a nominated	✓ Car parking spaces are provided in accordance with the DCP rates.
nerating	
private open space.	\checkmark
n of 2 hours direct le and Wollongong	✓ A total of 166 units / 230 (being 72% of total units) receive direct sunlight for a
	minimum of 2 hours.
t mid winter.	✓ A total of 15 units / 230 (being 6% of total units) receive NO direct sunlight in mid- winter (only)
r environment for	√
artments at ten storeys llows adequate natural	√ 61%, which is 142 of 230 units are cross- ventilated.
e to glass line.	N/A No cross-over apartments proposed
	√
	1
	Ceiling heights for residential units on all levels achieve 2.7m minimum for
0% of the apartment	habitable rooms. Floor to Floor heights are generally 3.1m with an increased on terrace levels.
/ of use	

8.2 Compliance Schedule SEPP 65 ADG Compliance

ALL 1	ayout		
Objective			*
2 V3	artment is functional, well organised and provide	s a high standard of amenity	
Design Criteria			√ The second se
Apartments are required to have Apartment Type	he following minimum internal areas: Minimum internal area		The proposal provides a mix of one, two and three bed units. Each unit type is
Studio	35m ²	1	designed to comply with the minimum
1 bedroom	50m ²		internal area requirements under this
2 bedroom	70m ²		part.
3 bedroom	90m ²		
	de only one bathroom. Additional bathrooms inc	crease the minimum internal area by 5m ²	
A fourth bedroom and further add	itional bedrooms increase the minimum internal	area by 12m ² each.	
	a window in an external wall with a total minimu ad air may not be borrowed from other rooms.	m glass area of not less than 10% of the	✓ All habitable rooms are provided with a window opening for natural daylight and air.
Objective			
Environmental performance of the	apartment is maximised.		
Design Criteria			Room depths are generally up to 8m.
Habitable room depths are limited	to a maximum of 2.5 x the ceiling height.		
In open plan layouts (where the liv window.	ving, dining and kitchen are combined) the maxi	imum habitable room depth is 8m from a	Habitable room depths are generally up to 8m to the centre of the kitchen
Objective			~
Note: Art. (1993)(1994)	o accommodate a variety of household activities	s and needs.	
Design Criteria			~
	m area of 10m ² and other bedrooms 9m ² (exclu	ding wardrobe space).	21
	nsion of 3m (excluding wardrobe space).		~
	ining rooms have a minimum width of:		~
 3.6m for studio and 1 bedroor 			
 4m for 2 and 3 bedroom apar 			
The width of cross-over or cross-t	hrough apartments are at least 4m internally to	avoid deep narrow apartment layouts.	N/A No cross through units are proposed
4E Private Open Space ar	nd Balconies		
TE I III die open opdee di	la Baloonico		
Objectives			\checkmark
Objectives Apartments provide appropriately	sized private open space and balconies to enha	ance residential amenity.	\checkmark
Apartments provide appropriately	sized private open space and balconies to enha	ance residential amenity.	×
Apartments provide appropriately Design Criteria		ance residential amenity.	4
Apartments provide appropriately Design Criteria All apartments are required to have	re primary balconies as follows:	ance residential amenity. /linimum depth	Balconies are designed in accordance with this requirement.
Apartments provide appropriately Design Criteria All apartments are required to hav Dwelling Type	re primary balconies as follows:		✓ Balconies are designed in accordance
Apartments provide appropriately Design Criteria All apartments are required to hav Dwelling Type	ve primary balconies as follows: Minimum Area 4m²		✓ Balconies are designed in accordance
Apartments provide appropriately Design Criteria All apartments are required to hav Dwelling Type Studio apartment	ve primary balconies as follows: Minimum Area 4m ² 8m ² 2	/linimum depth	✓ Balconies are designed in accordance
Apartments provide appropriately Design Criteria All apartments are required to hav Dwelling Type Studio apartment 1 bedroom apartment	ve primary balconies as follows: Minimum Area 4m ² 8m ² 10m ² 2	/linimum depth	✓ Balconies are designed in accordance
Apartments provide appropriately Design Criteria All apartments are required to hav Dwelling Type Studio apartment 1 bedroom apartment 2 bedroom apartment 3+ bedroom apartment	ve primary balconies as follows: Minimum Area 4m ² 8m ² 10m ² 2	Ainimum depth m m .4m	✓ Balconies are designed in accordance
Apartments provide appropriately Design Criteria All apartments are required to hav Dwelling Type Studio apartment 1 bedroom apartment 2 bedroom apartment 3+ bedroom apartment The minimum balcony depth to be For apartments at ground level or	ve primary balconies as follows: Minimum Area 4m ² 8m ² 10m ² 12m ² 2	Ainimum depth m m .4m 1m.	Balconies are designed in accordance with this requirement. Apartments at ground level are provided with terraces and achieve a minimum 3n
Apartments provide appropriately Design Criteria All apartments are required to hav Dwelling Type Studio apartment 1 bedroom apartment 2 bedroom apartment 3+ bedroom apartment The minimum balcony depth to be For apartments at ground level or	Pe primary balconies as follows: Minimum Area 4m ² 8m ² 10m ² 12m ² 2 counted as contributing to the balcony area is on a podium or similar structure, a private open	Ainimum depth m m .4m 1m.	Apartments at ground level are provided with this requirement. Apartments at ground level are provided with terraces and achieve a minimum 3m depth. A covered balcony zone is consistent with the levels above, with an increase terraced and landscape buffer to the street and the green spine communal
Apartments provide appropriately Design Criteria All apartments are required to hav <u>Dwelling Type</u> <u>Studio apartment</u> 1 bedroom apartment 2 bedroom apartment 3+ bedroom apartment The minimum balcony depth to be For apartments at ground level or It must have a minimum area of 1	Minimum Area Minimum Area 4m² - 8m² 2 10m² 2 12m² 2 e counted as contributing to the balcony area is on a podium or similar structure, a private open 5m² and a minimum depth of 3m.	Ainimum depth m m .4m 1m.	Apartments at ground level are provided with terraces and achieve a minimum 3m depth. A covered balcony zone is consistent with the levels above, with an increase terraced and landscape buffer to the
Apartments provide appropriately Design Criteria All apartments are required to hav Dwelling Type Studio apartment 1 bedroom apartment 2 bedroom apartment 3+ bedroom apartment The minimum balcony depth to be For apartments at ground level or	Minimum Area Minimum Area 4m² - 8m² 2 10m² 2 12m² 2 e counted as contributing to the balcony area is on a podium or similar structure, a private open 5m² and a minimum depth of 3m.	Ainimum depth m m .4m 1m.	Apartments at ground level are provided with this requirement. Apartments at ground level are provided with terraces and achieve a minimum 3rr depth. A covered balcony zone is consistent with the levels above, with an increase terraced and landscape buffer to the street and the green spine communal

Design Criteria The maximum number of apartments off a o	irculation core on a single level is eight.	Breaks/Slots in the building form have been designed to allow natural daylight into the lift lobbies.
		Building A – 7 Apts or less per core
		Building B - 7 Apts or less per core
		Building C - 7 Apts or less per core
		Building D – 9 Apts , Levels 1-4
		8 Apts or less for all other levels
		Building E – Max 5 Apts per level
For buildings of 10 storevs and over, the ma	aximum number of apartments sharing a single lift is 40.	N/A
		Buildings are 4-8 Storeys
4G Storage Objective		
Objective	d in each apartment.	×
	d in each apartment.	
Objective Adequate, well designed storage is provide Design Criteria		
Objective Adequate, well designed storage is provide Design Criteria	d in each apartment. s and bedrooms, the following storage is provided: Minimum Volume	Units are provided with adequate storage in accordance with the design criteria
Objective Adequate, well designed storage is provide Design Criteria In addition to storage in kitchens, bathroom	s and bedrooms, the following storage is provided:	Units are provided with adequate storage in accordance with the design criteria requirements.
Objective Adequate, well designed storage is provide Design Criteria In addition to storage in kitchens, bathroom Dwelling Type	s and bedrooms, the following storage is provided: Minimum Volume	Units are provided with adequate storage in accordance with the design criteria requirements. Additional storage is also provided at
Objective Adequate, well designed storage is provide Design Criteria In addition to storage in kitchens, bathroom Dwelling Type Studio apartment	s and bedrooms, the following storage is provided: Minimum Volume 4m ³	Units are provided with adequate storage in accordance with the design criteria requirements.

8.3 Solar Access Sun Eye Views - 2 Hour Visibility



9.30AM - June 21

10AM - June 21

11.30AM - June 21



11.45AM - June 21

12.45PM - June 21

1.45PM - June 21

	80%	80%	62%	82%	6%	71%
Total	40 / 50	43 / 54	32 / 52	54 / 66	1 / 16	170 / 238
Basement 04					/ 3	
Basement 03					/ 2	Grand Total
Basement 02					/ 5	
Basement 01					1/4	
Ground Floor	2 / 5	/ 5	1/5	1/7	/ 2	
Level 01	4 / 7	3 / 7	1/5	5/9		
Level 02	4 / 7	6 / 7	1 / 7	7/9		
Level 03	6/7	6 / 7	2 / 7	9/9		
Level 04	7 / 7	7/7	6 / 7	9/9		
Level 05	5 / 5	6 / 6	6 / 6	8 / 8		
Level 06	5 / 5	6 / 6	6 / 6	6 / 6		
Level 07	5 / 5	6 / 6	6 / 6	6 / 6		
Levei ux	2/2	3 / 3	3 / 3	3 / 3		



9AM - June 21

12PM - June 21

3PM - June 21



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APARTMENTS WITH CROSS VENTILATION

	Block A	Block B	Block C	Block D	
Level 09					
Level 08	2 / 2	3 / 3	3 / 3	3 / 3	
Level 07	4 / 5	4 / 6	4 / 6	4 / 6	
Level 06	4 / 5	4 / 6	4 / 6	4 / 6	
Level 05	4 / 5	4 / 6	4 / 6	4 / 8	
Level 04	4 / 7	4 / 7	4 / 7	4 / 9	
Level 03	4 / 7	4 / 7	4 / 7	4 / 9	
Level 02	4 / 7	4 / 7	4 / 7	4 / 9	
Level 01	4 / 7	4 / 7	2 / 5	4 / 9	
Ground Floor	0 / 2	2 / 4	2 / 4	2 / 4	
Basement 01					
Basement 02					
Basement 03					
Basement 04					
Total	30 / 47	33 / 53	31 / 51	33 / 63	
Percentage	64%	62%	61%	52%	

L07

*TOTAL NUMBER OF VENTILATION COMPLIANT APARTMENTS LOST: 4

NO. BY OK Date 1 FP Discussion JD AC 6911 1 WP ARO PLAN. ISSUE FOR INCOMANTON 12/1111 8 WP - ISSUE FOR INCOMANTON 1911 10 Issue for De Meeting JD AC 10 Issue for RINGRMATION RC 1914 E ISSUE FOR INFORMATION RC 1044	REVISION NOTES: 21 21 21 21 22 22 22 22 22	KEY PLAN	NOTE: KOICH TAKADA ARCHITECTS INTARETAIN ALL COMMON LAW AND STAUTIONY RIGHTS INCLUDING COPHRIGHT & AND INTELLECTUAL PROPERTY RIGHTS TO THIS DOLLINET: REPRODUCED OR DISTRIBUTED IN ANY WANNERY WITHOUT KTA'S EXPROSLED OF DISTRIBUTED IN ANY WANNERY WITHOUT KTA'S EXPROSLED OF THIS DOCLINET FOR ELEMEND AS LE OR INTEL TRANSFER OF THIS DOCLINET TO ELEMEND AS LE OR DISTRIBUTED ON SET AND UNDER NO CRUITATION FOR THE TRANSFER OF THIS DOCLINET TO ELEMEND AS LE OR THE TRANSFER OF THIS DOCLINET TO ELEMEND AS LE OR DISTRIBUTED ON SET AND UNDER NO CRUITATION FOR THE DISTRIBUTED AS A DISTRIBUTED ON SET AND UNDER NO CRUITATION FOR THE DISTRIBUTED ON SET AND UNDER NO CRUTTATION FOR THE DISTRIBUTED ON SET AND UNDER NO CRUTTATION FOR THE DISTRIBUTED ON SET AND UNDER NO CRUTTATION FOR THE DISTRIBUTED ON SET AND UNDER NO CRUTTATION FOR THE DISTRIBUTED ON SET AND UNDER NO CRUTTATION FOR THE DISTRIBUTED ON SET AND UNDER NO CRUTTATION FOR THE DISTRIBUTED ON SET AND UNDER NO CRUTTATION FOR THE DISTRIBUTED ON SET AND UNDER NO CRUTTATION FOR THE DISTRIBUTED ON SET AND UNDER NO CRUTTATION FOR THE DISTRIBUTED ON SET AND UNDER NO CRUTTATION FOR THE DISTRIBUTED ON SET AND UNDER NO CRUTTATION FOR THE DISTRIBUTED ON SET AND UNDER NO CRUTTATION FOR THE DISTRIBUTED ON SET AND UNDER NO CRUTTATION FOR THE DISTRIBUTED ON SE	omers	GREATON LEVEL 20, 20 BOND STREET, SYDNEY NSW 2000	ARCHITECT SUITE 41 & 42, LEVEL 4 61 MARLBOROUGH ST SURRY HILLS, NSW 2010 T 02 9698 8510	Koichi	QA STAMP	PROJECT ST LEONARDS STH, EQ LOT 18,19 & 20	DWG TITLE CROSS VENTILATION 02	
F DA LODGEMENT RC GW 28/04/ G RPI RESPONSE RC GW 07/10 H RFI RESPONSE 2.0 RC GW 10/12/	22 22 22		CONSTITUTE A HANSHER OF ANY LICENCE TO USE THE DOCUMENT WITHOUT KTA's KNOWLEDGE OR CONSENT. THE FOR DOCUMENT STAMPED BY KTA AS A 'AA CONTROLLED DOCUMENT STHE ONLY OFFICIAL VERSION OF THIS DOCUMENT AND IS STRICTLY SUBJECT TO COPYRIGHT 0. THE CONTENT AND ACCURACY OF THE DOCUMENT IS STRICTLY		UTDALE FROM 2000	ABN 63 131 365 896 NOMINATED ARCHITECT: KOICHI TAKADA NSW ARCHITECTS 6901	lakada			DWG NO. A0406	revision H
		CLOUD LEGEND REVISION ON HOLD	LIMITED TO THAT DEPICTED IN THE QA CONTROLLED POF. DO NOT MEASURE FROM THE ELECTRONIC OR HARD COPY VERSIONS OF THIS DOCUMENT. VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING SHOP DRAWINGS, FABRICATION, CONSTRUCTION OR INSTALLATION.			VIC ARCHITECTS 16179 QLD ARCHITECTS 5590 KOICHITAKADA.COM	Architects	THIS DOCUMENT IS NOT SUITABLE OR APPROVED FOR CONSTRUCTION AT ANY TIME UNLESS KTA HAVE NOTATED THE STATUS TITLE AS FOR CONSTRUCTION WITHOUT THE PRESENCE OF WIP, DRAFT OR ANY OTHER FORM OF QUALIFICATION ON THE DOCUMENT.	0 25 m	scale 1:500@A1, 1:1000@A3	DATE 16/12/2022

