DKO Architecture Places designed for people

Liverpool 127-129 Flowerdale Road, Liverpool, NSW SGCH

Liverpool, NSW SGCH February 2019



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Introduction

1.1 Development Overview

The development responds intelligently and sensitively to its location and future urban context. The role of DKO's architecture is to mediate between the existing condition and the future urban context.

Our design concept provides a framework which responds intelligently and sensitively to its location and future urban context. As Liverpool evolves further to meet changing conditions, it is vital that its architecture and built fabric changes in order to preserve and improve on its identity while responding to the needs of a new generation.

The subject site is within the growing suburb of Liverpool of Liverpool City Council. An area that will undergo a significant transformation in terms of urban density. The precinct encompasses both existing and planned public transport connections that will help provide a diverse and sustainable community.

This urban design report has been prepared in support of the submitted planning proposal. It is intended to supplement the SEPP 65 Report and assist council in determining the submitted development application.

The report evaluates the site in relation to the proposed architecture, the urban interface, the public realm, building mass and scale, pedestrian and vehicle connectivity, and amenity to the residents and public.





Introduction

Urban Context 1.2



Key

Public

Health

Commerical / Retail

Education / Culture

Public Open Space



Introduction

1.3 Site Photos





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2.01 Principle 01 - Context & Neighbourhood Character

Apartment Design Guide (ADG)

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.

Response

The proposal complies with R4 High Density Residential Zoning Controls under the Liverpool LEP 2008 and will therefore complement the desired future character of the area. The development will promote infrastructure efficiency and support local commercial, retail and recreational activity in the area.

The proposed buildings are highly articulated and have been visually broken down into volumes. The massing will sensitively respond to existing conditions and is aligned with councils future plans for the area.

The proposed development complies with ADG setback requirements to all boundaries and exceeds minimum deep soil requirements. The proposal incorporates attractive landscape areas that surround the built form on ground level. This includes provisions for large tree planting in deep soil zones within side, front and rear setbacks; these planting zones will enhance the character of the streetscape along Flowerdale road and Smith Crescent. Generous private open spaces are provided to ground floor units, allowing for an activated and dynamic street character. The proposed development is compatible with the built form context of the site.



Summer Breeze



2.02 Principle 02 - Built Form and Scale

Apartment Design Guide (ADG)

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.

Response

The development responds intelligently and sensitively to its location and future urban context. The role of DKO's architecture is to mediate between the existing conditions and the future urban context.

The design proposal's scale in terms of bulk and height has been carefully considered to respond to the areas transition into a future growth area. Instead of having a single linear building, the proposed scheme breaks up the massing on site by visually having several buildings by additional elements such as slots and change in material. Visually, the bulk of the buildings are softened further as a result of material selection, massing techniques and landscaping that is located at the base of each building.



2.03 Principle 03 - Density

Apartment Design Guide (ADG)

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.

Response

The proposed development is located approximately 50m from bus stops on Flowerdale Road and 800m from Liverpool train station.

The proposal will contribute to a high quality streetscape for the area. The unit sizes are according to DCP / SEPP 65 standards and each unit is provided with a private open space.

The density is appropriate for the site given its accessibility to public transport, access to communal open space, the built form context, and the high amenity achieved for every unit in the development.



2.04 Principle 04 - Sustainability

Apartment Design Guide

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.

Response

The building has been designed to achieves to BASIXs.

The proposed development will reduce the necessity for mechanical heating and cooling with 64% of units being cross ventilated.

The depth of the proposed balconies, ranging from 2 m to 2.5 m to the North contributes to passive solar performance by the balconies of the units above blocking high angle hot summer sun and allowing low angle winter sun to penetrate the unit. Screening and shading devices are also incorporated into the facades to provide additional control over solar access.

The accessibility of the site to public transport decreases the carbon footprint of the development by reducing the need for private motor vehicle usage. Providing a viable alternative is vital to changing patterns of travel behaviour.

Minimising the apartments that receive no solar access to only 15% reduces the heating energy load in winter.



Low-energy Lighting

lighting

used throughout the building.

Energy Efficient water heaters will also

be integrated into the development.

Additionally, the proposal will use

water saving fixtures and fittings as

well as energy efficient lighting, air-

conditioning, lifts, and appliances to

minimise water and energy loads.

Low-energy

will

be



Smart Building Systems

Integrated building systems such as heating, cooling and hot water will be designed to respond to the environmental conditions of the site. The consolidation of these building-wide systems will minimise environmental impact, installation costs, and significantly reduce ongoing running costs for residents.



Rainwater Collection

All rainwater on site will be captured and stored in water tanks located onsite. These water tanks will be plumbed to garden taps and landscape irrigation to support public and private gardens throughout the development.



BASIX Targets

Through the strategies outlined above, the proposal will achieve at least the minimum NSW Benchmark Consumption for energy and water. Landscaping that includes lowmaintenance and local indigenous plants will minimise water use and create a robust native landscape.



Passive Solar Design

Apartments subjected to excessive solar gain and heat loss will be recessed behind balconies to minimise summer solar heat gain and shield apartments from harsh summer sun. Winter daylight will penetrate deep into the interior of by ways of balconies.

2.05 Principle 05 - Landscape - Ground Floor

Apartment Design Guide (ADG)

Good design recognises that together landscape and buildings operate as an integrated and sustainable system, resulting in greater aesthetic quality and amenity for both occupants and the adjoining public domain.

Landscape design builds on the existing site's natural and cultural features in responsible and creative ways. It enhances the development's natural environmental performance by coordinating water and soil management, solar access, microclimate, tree canopy and habitat values. It contributes to the positive image and contextual fit of development through respect for streetscape and neighbourhood character, or desired future character.

Landscape design should optimise usability, privacy and social opportunity, equitable access and respect for neighbours' amenity, and provide for practical establishment and long term management.

Response

Landscaping of private and communal open spaces wrap around the building at ground level. The landscaping of the site is predominantly to the same domestic scale as surrounding individual residential properties, however the proposed planting schedule has considered a much more generous number of trees and shrubs given that neighbouring properties have little or minimal tree coverage.

The building sits harmoniously within the streetscape, where additional planting is proposed to further enhance its contextual design response. The proposed landscaped areas will aid in reducing the scale of the building and integrate the development with the surrounding environment. On level 4 a landscaped communal open space is provided which is orientated North, providing exceptional opportunities for the residences of the building to gather.







Landscape - Rooftop



2.05 Principle 05 - Landscape Calculations





Areas Inculuded in the Landscape Calculations					
Landscape Calculations					
Site Area	1907 sqm				
Ground Floor	594 sqm				
Level 4	389 sqm				
Total	983 sqm				
%	51.5%				





2.06 Principle 06 - Amenity

Apartment Design Guide (ADG)

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.

Response

The proposed building is aligned on a East-West axis to provide the maximum amenity to a majority of the dwellings, with most units having northern aspect.

In the proposed development, unit depths are reduced and daylight access is shared more equitably across the site. This approach achieves 2+ hours of sunlight to 72% of the total units in midwinter and 64% of units with natural cross ventilation.

Passive solar is enhanced by the balconies of the units above blocking high angle hot summer sun and allowing low angle winter sun to penetrate the units. The proposed apartment layout allows adequate circulation and privacy for each room. The solar access for the development is sound with minimal single aspect apartments facing south.

The proposed development has a maximum of 10 units off two cores, which helps to ensure good amenity for residents.



2.06 Principle 06 - Amenity - Solar Access





lar Access Calculations						
2+ Hours Solar Access	No Solar Access					
3	1					
7x2 = 14	2x2 = 4					
7	1					
4	0					
28	6					
72%	15%					
nber	39					
	2+ Hours Solar Access 3 7x2 = 14 7 4 28 72%					



2.06 Principle 06 - Amenity - Shadow Diagrams





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2.06 Principle 06 - Amenity - Eye of the Sun



2.06 Principle 06 - Amenity - Cross Ventilation

Apartment Design Guide (ADG)

Natural ventilation is the movement of sufficient volumes of fresh air through an apartment to create a comfortable indoor environment. Sustainable design practice incorporates natural ventilation by responding to the local climate and reduces the need for mechanical ventilation and air conditioning. To achieve adequate natural ventilation, apartment design must address the orientation of the building, the configuration of apartments and the external building envelope.

Response

The development consists generally of open plan units with relatively shallow apartment depths which facilitates good ventilation to all habitable rooms. A high number of corner apartments within the development also allow the proposed design to achieve a high percentage of well-ventilated units.

Outlined by the State Environmental Planning Policy No.65 - Apartment Design Guide, a minimum of 60% of total apartments (23 units) require crossventilation, to which we have proposed 64% (25 units).

The building's orientation take full advantage of prevailing breezes to maximize the movement of fresh air to create a comfortable indoor environment. Large openable windows and doors are to be effectively incorporated to reduce the need for mechanical ventilation and air conditioning.





Apartments With Cross Ventilation Apartments Without Cross Ventilation



2.06 Principle 06 - Amenity - Cross Ventilation



Cross

Ground Flo

Level 1 - 3 Level 4

Total %

Total Unit I

SS	s Ventilation Calculations						
	Cross Ventilation						
oor	4						
3	6x3 = 18						
ļ	3						
	25						
	64%						
Nur	nber	39					





2.06 Principle 06 - Amenity - Storage



8.3

8.3

404

6.

104

105 106

107

109 DD/

108

8.

209 dda

301

302

303



2.06 Principle 06 - Amenity - Storage





Typical One Bedroom Apartment



6 m³ storage required Compliant Typical Two Bedroom Apartment

8 m³ storage required Compliant

2.07 Principle 07 - Safety

Apartment Design Guide (ADG)

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.

Response

The design proposal provides clear and well defined lobby entries to each building with the main entry on Smith Crescent and a secondary private pedestrian entry off Flowerdale Road. These lobby entries will have clear and unobstructed views from the street and will be secure, lockable and well-lit for the safety of the residents.

Furthermore, all external spaces will have multiple clear sight lines without obstacles, low shrub planting will reduce the number of places to hide and all paths will be well-lit at night time and designed to meet relevant Australian Lighting Standards.

Casual Surveillance of Open Spaces: Casual surveillance entrances and exits on the site are possible from the units. Corner balconies and windows provide a wider degree of casual surveillance along the street.



2.08 Principle 08 - Housing Diversity - Apartment Mix



Level 3 1:500

Level 4 1:500

#

9

26

2

2

39





Unit Mix

1 Bedroom Unit 11/39 = 28%

2 Bedroom Unit 28/39 = 72%

3 Bedroom Unit 0/39 = 0%



2.08 Principle 08 - Housing Diversity - Typical Apartments



Typical 1 Bedroom Apartment ~50m²



Typical 2 Bedroom Apartment ~70m²

2.08 Principle 08 - Housing Diversity - Adaptable Apartments



1 Bedroom Adaptable Apartment ~50m²



2 Bedroom Adaptable Apartment ~70m²

2.09 Principle 09 - Aesthetics

Apartment Design Guide (ADG)

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 well designed apartment development responds to the existing or future local context, particularly desirable elements and repetitions of the streetscape.

Response

The development proposes a 5 storey building surrounded by landscaped gardens and communal open space. The building's main entrance is positioned on the North along Smith Cresent. Residents and visitors enter the building along a path at street level; the main entrance is accentuated by communal areas, ornamental trees and planting that line the walkway up to the entrance door of the ground floor lobby (refer to landscape architect's drawing). Motor vehicle and service access is via Smith Cresent. This ramp entrance is at the right of the site.

The massing of the proposal has been broken into several volumes to ensure an interesting and appropriate overall proportion is achieved. This reduces the bulk and scale to the building. A combination of glazed balustrades and full height vertical screen create a visually dynamic and articulated façade.

Materials, Colours and Textures

The colour choices utilise light colour framing with dark colour underlay to create strong contrast and to sculpt the building, giving a sense of depth to the facade presentation. The facade is composed primarily of brick, which varies in tone throughout the buildings. This reinforces the articulation of the façade achieved through varied setbacks and step downs in building mass. The brick element contributes to the texture and materiality of the façade and is in-keeping with the surrounds and the general character of the surrounding buildings.



Articulated Parapets



Metal Cladding



Glass Balustrades





Slab Edge / Alternating Brick Colours

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2.09 Principle 09 - Architectural Expression



2.09 Principle 09 - Architectural Expression



2.09 Principle 09 - Architectural Expression



3.0 SEPP Compliance Table

Table 1.	Summary of compliance with the key Apartment Design Guide '	Design Criteria'	Table 1.	Summary of compliance with the key Apartment Design Guide	Design Criteria'
Control	ADG Design Criteria	Compliance	Control	ADG Design Criteria	Compliance
3D Communal Open space		Site area: 1,907m ²		Bedrooms have a minimum dimension of 3m (excluding wardrobe space).	Compliance achieved
		Required Communal open space: 477m ² (25%) Proposed Communal open space: 606m ² (31.7%)		Living rooms or combined living/dining rooms have a minimum width of:	Compliance achieved
	Minimum of 25% of the site area should be devoted to communal open space.	Communal open space is provided at both the ground Level and at Level 4. A high level of solar access is achieved to both	4D-3 Apartment Size + layout	3.6m for studio and 1 bedroom apartments	
		communal open spaces achieving a high level of amenity. Compliance is achieved with regards to ADG Design Guidance	Size + layout	4m for 2 and 3 bedroom apartments	
		As the main communal open space is located on the roof level of the building, it receives unobstructed solar access, easily	_	The width of cross-over or cross-through apartments are at least 4m internally to avoid deep narrow apartment layouts.	Compliance achieved
	Developments achieve a minimum of 50% direct sunlight to the principal usable part of the communal open space for a minimum of 2 hours between 9	exceeding the minimum requirements.		Apartments are to have the following balcony dimensions:	Compliance achieved
	am and 3 pm on 21 June (mid-winter)	Compliance achieved	_	• 1br – 8sqm with min.2m depth	
3E	Minimum of 7% of a site should be a deep soil zone with the following	Site area: 1,907m ²	4E Private open	2br – 10sqm with min. 2m depth	
Deep Soil Zones	minimum dimensions:	Required Deep soil: 133m ² (7%) Proposed deep soil zone: 358m ² (18.8%)	space and balconies	3br – 12sqm with min. 2.4m depth	
	- greater than 1,500m ² – 6m	Compliance achieved		Ground level apartments should contain a minimum of 15m ² of open space, with a minimum dimension in one direction of 3m.	Ground Level apartments all has set out in the ADG for 1 Bed and
	Up to four storeys/12 meters	The building provides 6m setbacks to sides with neighboring properties from levels G-4 and 5.5m DCP setbacks to the streets		with a minimum dimension in one direction of 3m.	Compliance is achieved with reg
3F Visual Privacy Building separation	 6 meters to the boundary between habitable rooms/balconies 3 meters to the boundary between non-habitable rooms 	it interacts with. Compliance is achieved with regards to ADG Design Guidance	4F Common circulation and spaces		Each building has a maximum of
	Five to eight storeys /up to 25 meters	Compnance is achieved with regards to ADO Design Guidance		The maximum number of apartments off a circulation core on a single level is eight.	All lobbies are designed to have
	 9 meters to the boundary between habitable rooms/balconies 4.5 meters to the boundary between non-habitable rooms 				Compliance achieved
	Nine storeys and above/ over 25 meters			For buildings of 10 storeys and over, the maximum number of apartments sharing a single lift is 40.	Compliance achieved
	 12 meters between habitable rooms/balconies 6 meters between non-habitable rooms 		4G	Studio apartments require 4m ² of storage area	Storage is wholly provided in ea
		Consider and a sample with City of Linear and Council DCD and	Storage	 One bedroom dwellings require 6m³ of storage area Two bedroom dwellings require 8m³ of storage area. 	Compliance is achieved with reg
	The maximum car parking rates are as follows: Residential	Car parking rates comply with City of Liverpool Council DCP 2018. Compliance achieved		Three bedroom dwellings require 10m ³ of storage area.	
3J	0.6 Spaces per 1 Bed 0.9 Spaces per 2Bed				
Bicycle and	1.4 Spaces per 3 Bed				
Car Parking	Retail: 1 per 25m2 Childcare: 1 space per 8 children				
	Staff: 1 space per 2				
	Visitors: 1 per 10 dwellings		_		
4A	Living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 2 hours direct sunlight between 9 am and 3 pm	Minimum number of apartments with 2hrs solar access required: 28 Proposed: 28 (72%)			
			-		
Table 1.	Summary of compliance with the key Apartment Design Guide '	Design Criteria'			
Control	ADG Design Criteria	Compliance			
Solar + Daylight Access	at mid-winter in the Sydney Metropolitan Area and in the Newcastle and Wollongong local government areas.	Compliance achieved			
Access	In all other areas, living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 3 hours direct sunlight				
	between 9 am and 3 pm at mid-winter.		_		
	A maximum of 15% of apartments in a building receive no direct sunlight between 9 am and 3 pm at mid-winter.	Compliance is achieved with regards to ADG Design Guidance			
	At least 60% of apartments are naturally cross ventilated in the first nine	Number of Apartments: 39	_		
4P	storeys of the building. Apartments at ten storeys or greater are deemed to be cross ventilated only if any enclosure of the balconies at these levels allows	Cross Ventilated Apartments: 25/39 apartments (64%)			
4B Natural Ventilation	adequate natural ventilation and cannot be fully enclosed.	Compliance achieved	_		
, children	Overall depth of a cross-over or cross-through apartment does not exceed 18m, measured glass line to glass line.	No cross over or cross through apartments proposed			
		Compliance achieved	_		
	Minimum ceiling heights are as follows: 2.7m for habitable rooms 	Proposed 2.7m habitable – Compliance achieved Proposed 2.4 m non habitable – Compliance achieved			
4C	2.7m for habitable rooms 2.4m for non-habitable rooms	r roposea 2.4 m non nabitable – Compnance acmeveu			
Ceiling heights	 double storey apartments – 2.7m for main living area, 2.4m for second 				
neignus	floor where its area does not exceed 50% of the apartment area attic spaces – 1.8m at edge of room with a minimum 30degree slope				
	in mixed use areas – 3.3m for ground and first floor				
			_		
	Minimum Apartment sizes:	Compliance achieved			
	Minimum Apartment sizes: • 70m ² for two bedrooms; and	Compliance achieved			
4D-1	 70m² for two bedrooms; and 90m² for three bedrooms. 	Compliance achieved			
Apartment	 70m² for two bedrooms; and 90m² for three bedrooms. Add an 5m² for additional bathrooms 	Compliance achieved			
Apartment	 70m² for two bedrooms; and 90m² for three bedrooms. Add an 5m² for additional bathrooms Add an 12m² for additional bedrooms 		_		
Apartment	 70m² for two bedrooms; and 90m² for three bedrooms. Add an 5m² for additional bathrooms Add an 12m² for additional bedrooms Every habitable room must have a window in an external wall with a total minimum glass area of no less than 10% of the floor area of the room. Day 	Compliance achieved Compliance achieved	-		
4D-1 Apartment Size + layout	 70m² for two bedrooms; and 90m² for three bedrooms. Add an 5m² for additional bathrooms Add an 12m² for additional bedrooms Every habitable room must have a window in an external wall with a total minimum glass area of no less than 10% of the floor area of the room. Day light and air may not be borrow from another room 	Compliance achieved	-		
Apartment Size + layout 4D-2 Apartment	 70m² for two bedrooms; and 90m² for three bedrooms. Add an 5m² for additional bathrooms Add an 12m² for additional bedrooms Every habitable room must have a window in an external wall with a total minimum glass area of no less than 10% of the floor area of the room. Day light and air may not be borrow from another room Habitable room depths are limited to a maximum of 2.5 x the ceiling height. 		-		
Apartment Size + layout 4D-2	 70m² for two bedrooms; and 90m² for three bedrooms. Add an 5m² for additional bathrooms Add an 12m² for additional bedrooms Every habitable room must have a window in an external wall with a total minimum glass area of no less than 10% of the floor area of the room. Day light and air may not be borrow from another room 	Compliance achieved	-		
Apartment Size + layout 4D-2 Apartment	 70m² for two bedrooms; and 90m² for three bedrooms. Add an 5m² for additional bathrooms Add an 12m² for additional bedrooms Every habitable room must have a window in an external wall with a total minimum glass area of no less than 10% of the floor area of the room. Day light and air may not be borrow from another room Habitable room depths are limited to a maximum of 2.5 x the ceiling height. Open plan layouts (where living, dining and Kitchen are combined habitable 	Compliance achieved Compliance achieved	-		

ll have more than 15m2 private open space. The minimum balcony depth is the minimum depth l and 2 Bed units. h regards to ADG Design Guidance

um of 5 units off a single core per level.

ave natural light and ventilation; with direct access to the communal gardens on ground level.

n each and every apartment. 1 regards to ADG Design Guidance 19th February 2019

Council of Submission:

Liverpool City Council Ground floor, 33 Moore street Liverpool, NSW 2170

Re:

127-129 Flowerdale Road, Liverpool, 2170

SEPP 65 Design Statement

To Whom It May Concern

Pursuant to clause 50(1A) of the Environmental Planning and Assessment Regulation 2000, effective from July 26, 2003;

I hereby declare that I am a qualified designer, which means, a person registered as an architect in accordance with the architects act 1921, as defined by Clause 3 of the Environmental Planning and Assessment Regulation 2000

I directed the design of the residential development stated above and I affirm that the design achieves the design quality principals as set out in Part 1 of the 'State Environmental Planning Policy No.65- Design Quality of Residential Apartment Development';

I have provided further detail on the Designs compliance with all ten of the principals in SEPP 65 Design Compliance Table accompanying this development application

Yours Faithfully

lan Lim Senior Design Architect Registration No: 8473 (NSW)



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