

aleksandar design group

52 Kellett Street, Potts Point NSW 2011

T: 02 9361 5560 E: mj@aleksandardesigngroup.com.au www.aleksandardesigngroup.com.au

Nominated Architect: Aleksandar Jelicic Registration No. 7167

© Copyright Aleksandar Design Group PTY LTD

Revisions:

Revision A
Revision B
Revision C
Revision D
February 2018
February 2018
February 2018



INTRODUCTION

1	STRATEGIC POSITIONING INTRODUCTION CONTEXT	04 05 06
	TRANSPORT & MOVEMENT	07
	PROPOSED TRANSPORT & MOVEMENT	80
	WALKING CATCHMENT	09
	OPEN SPACES	10
	RECENT RESIDENTIAL DEVELOPMENT	11
	SOCIAL INFRASTRUCTURE	12 13
	OPPORTUNITIES & CONSTRAINTS LAND USE & INFRASTRUCTURE	14
	CAMPBELLTOWN VISION	15
	CAN BELLIOWIN VIOLEN	
2	PLANNING FRAMEWORK	16
	INTRODUCTION	17
	CURRENT LEP FRAMEWORK	18
3	SITE ANALYSIS	20
	INTRODUCTION	21
	SITE ANALYSIS - SUBJECT SITE	22
	STREETSCAPE	23
4	PROPOSAL	24
	SITE PLAN	25
	FLOOR PLANS	26
	ELEVATIONS	34
	SECTION	38
	BUILT FORM EVOLUTION - OPEN SPACE	
	BUILT FORM EVOLUTION - THROUGH	40
	STREET TYPES	41
	SHADOW DIAGRAMS	43
	SOLAR ANALYSIS	44 46
	CROSS VENTILATION ANALYSIS YIELD	48
	SKETCH CONCEPT IMAGES	49
	PRECEDENTS	51



STRATEGIC POSITIONING

CAMPBELLTOWN TRAIN STAITON

CAMPBELLTOWN BOUNDARY

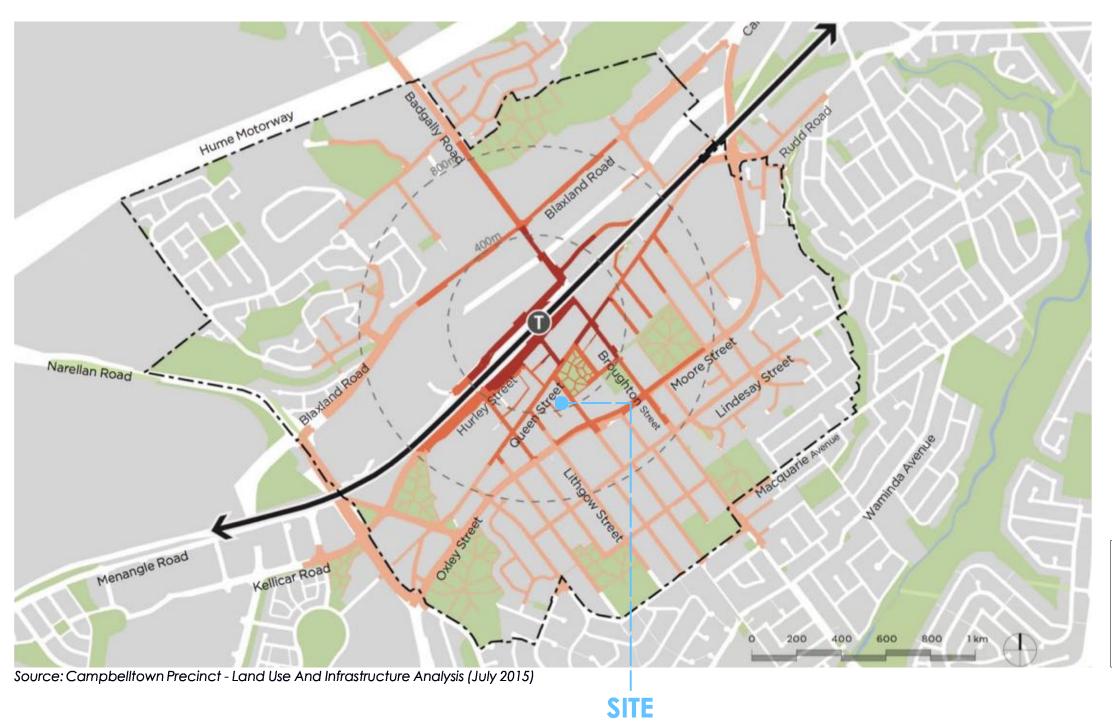
SUBJECT SITE

Source: Floor Space Ratio Map - Campbelltown LEP 2015













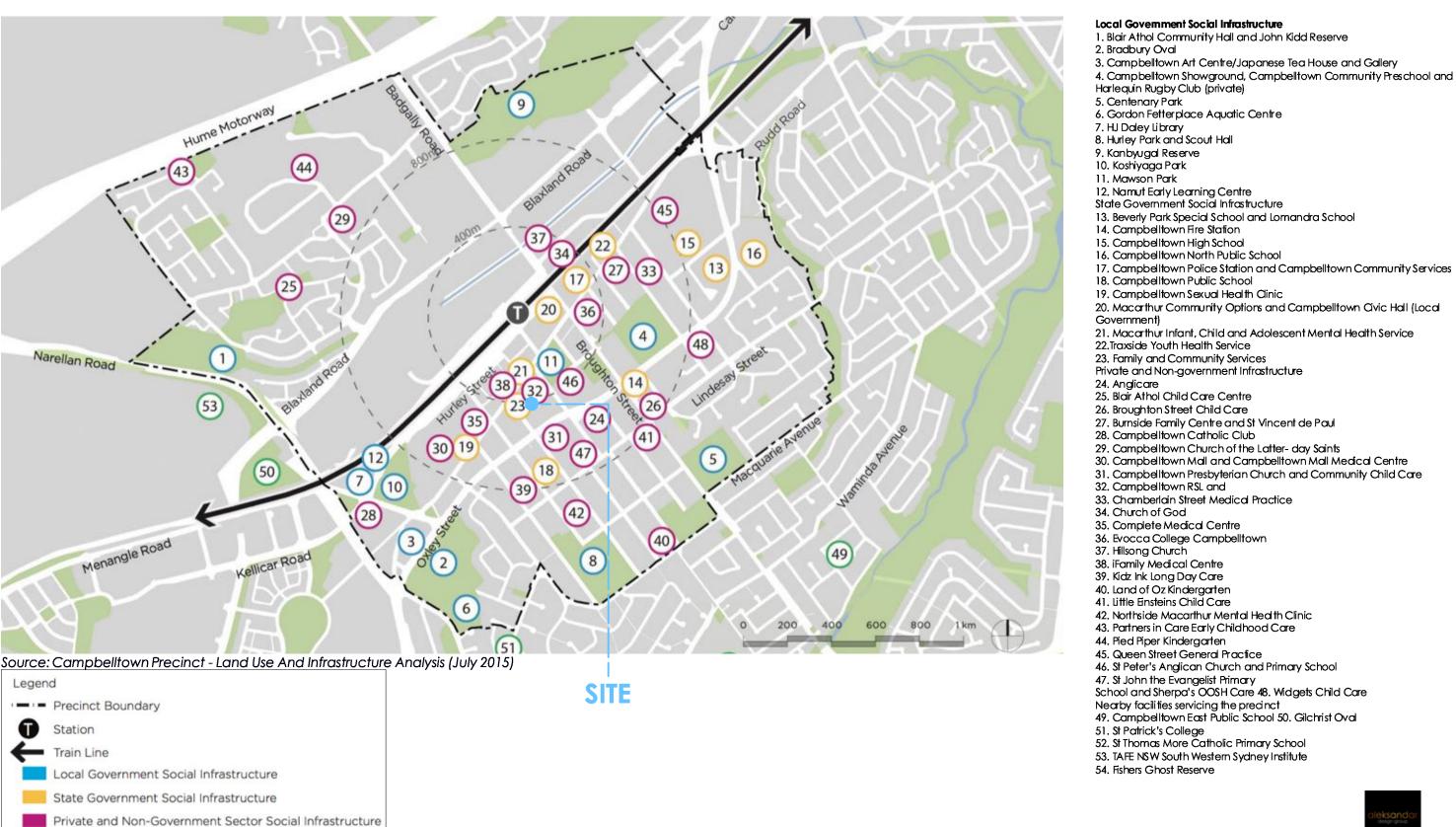




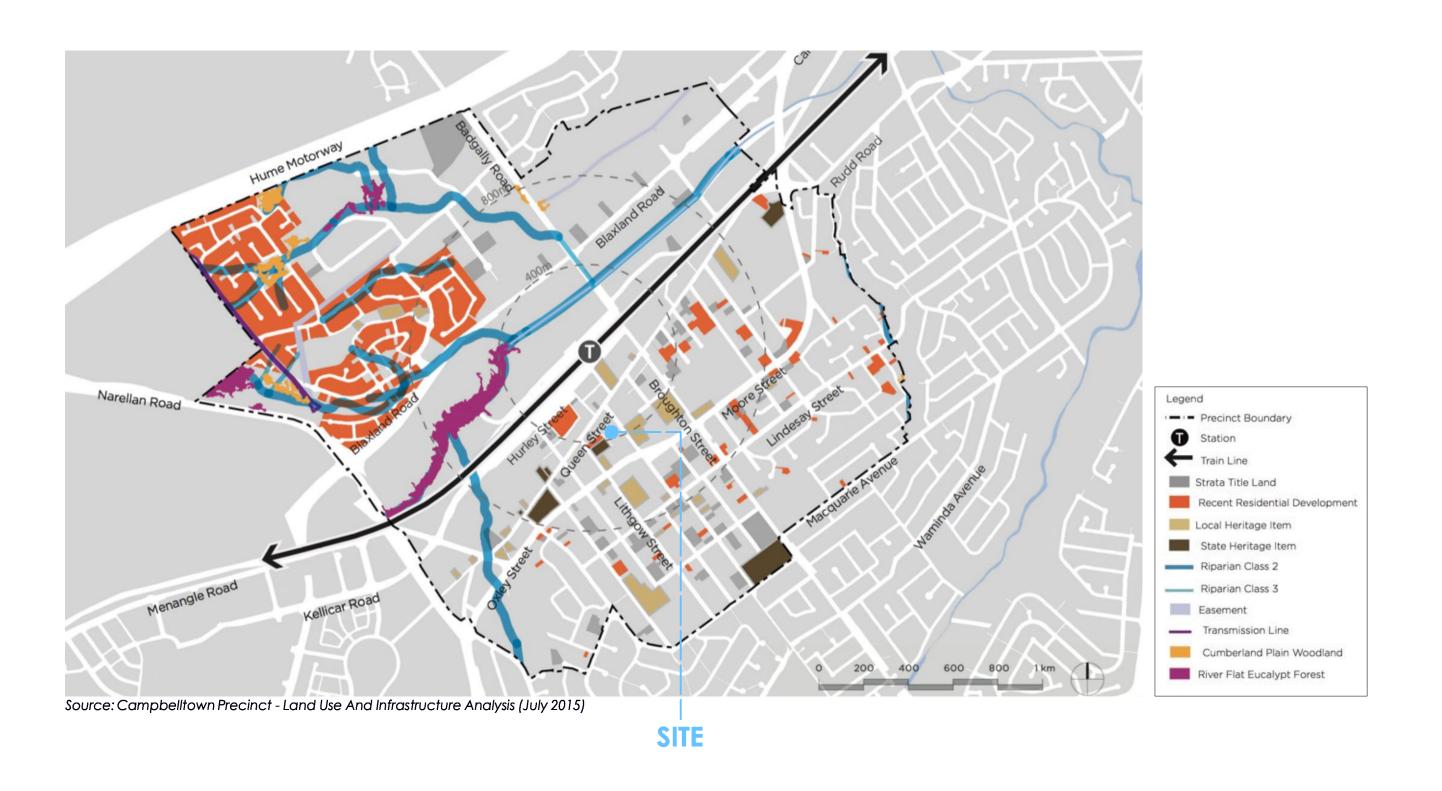


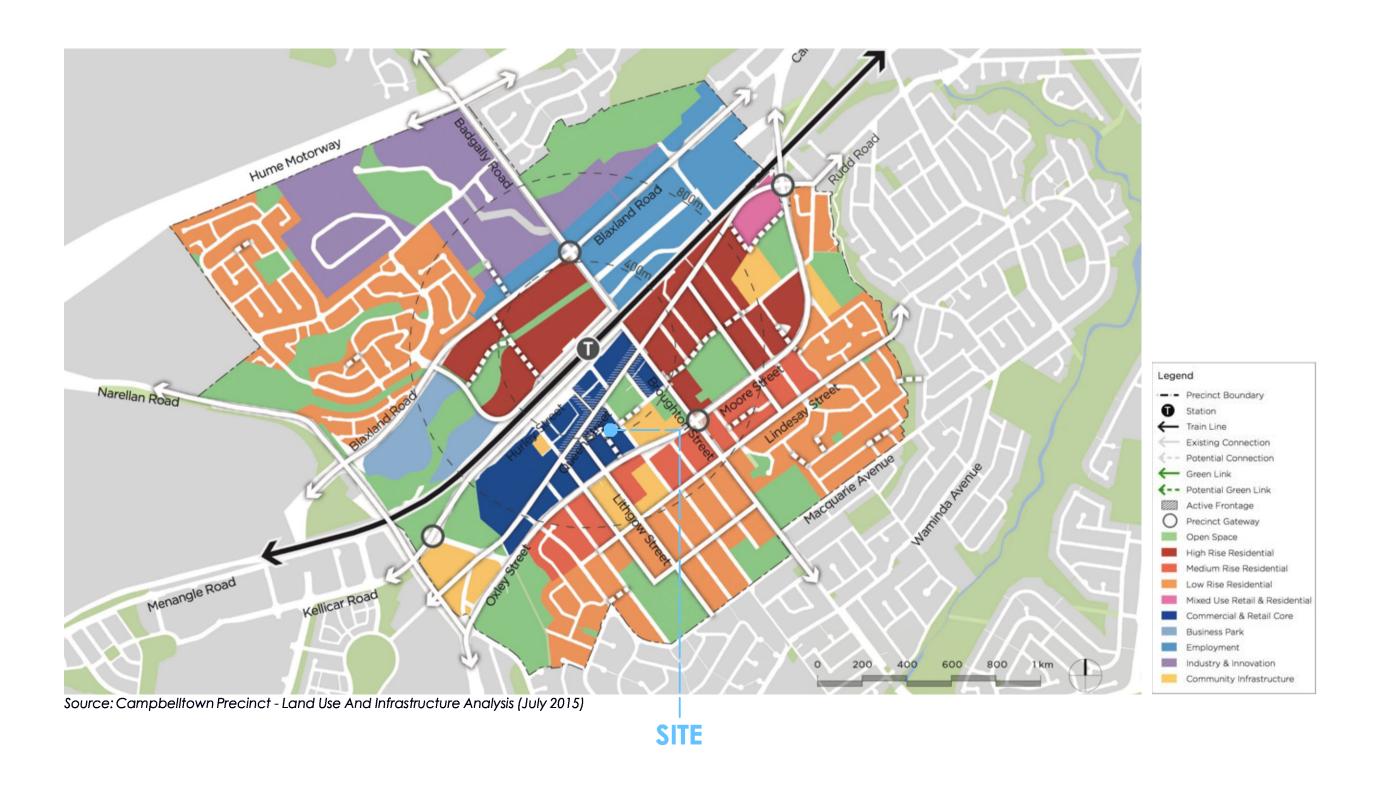
SOCIAL INFRASTRUCTURE

Nearby Facilities









CAMPBELLTOWN VISION - PUBLIC DOMAIN & MALL CONCEPT



Source: Google Maps + Campbelltown Precinct - Land Use And Infrastructure Analysis (July 2015)

Queen Street and Campbelltown Mall are proposed to be upgraded to become an inclusive, safe and attractive urban place with active ground floor retail and outdoor dining.

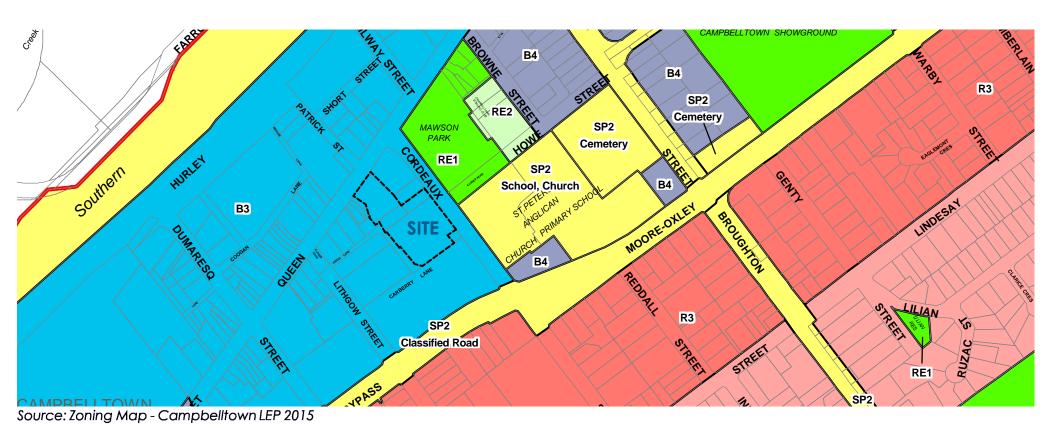


2

PLANNING FRAMEWORK



Source: Floor Space Ratio Map - Campbelltown LEP 2015



B1 Neighbourhood Centre B2 Local Centre B4 Mixed Use B5 Business Developmen IN1 General Industrial IN2 Light Industrial R2 Low Density Residential R3 Medium Density Residential R4 High Density Residential R5 Large Lot Residential RE1 Public Recreation RE2 Private Recreation RU2 Rural Landscape RU5 Village SP1 Special Activities SP2 Infrastructure W1 Natural Waterways DM Deferred Matter SEDP (Major Development) 2005 Edmondson Park South SWGC South West Growth Centre

Land Zoning Map - Sheet LZN_008B

Centres Map - Sheet CEN_008 Centres C

STREET STREET





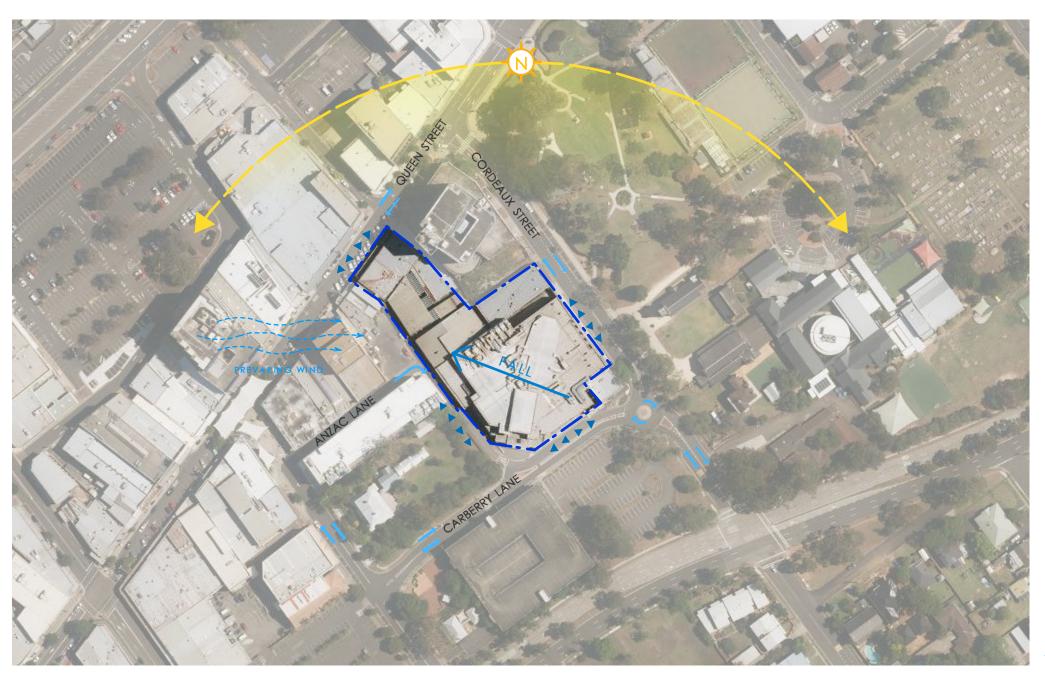
3

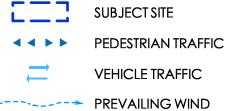
SITE ANALYSIS

INTRODUCTION









STREETSCAPE SITE



1. South-West view Queen Street



3. North view Cordeaux Street



5. West view Carberry Lane



2. North-East view Queen Street



4. South view Cordeaux Street



6. West view Anzac Lane





4

PROPOSAL

155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN

SITE PLAN





Site Plan 1:1000

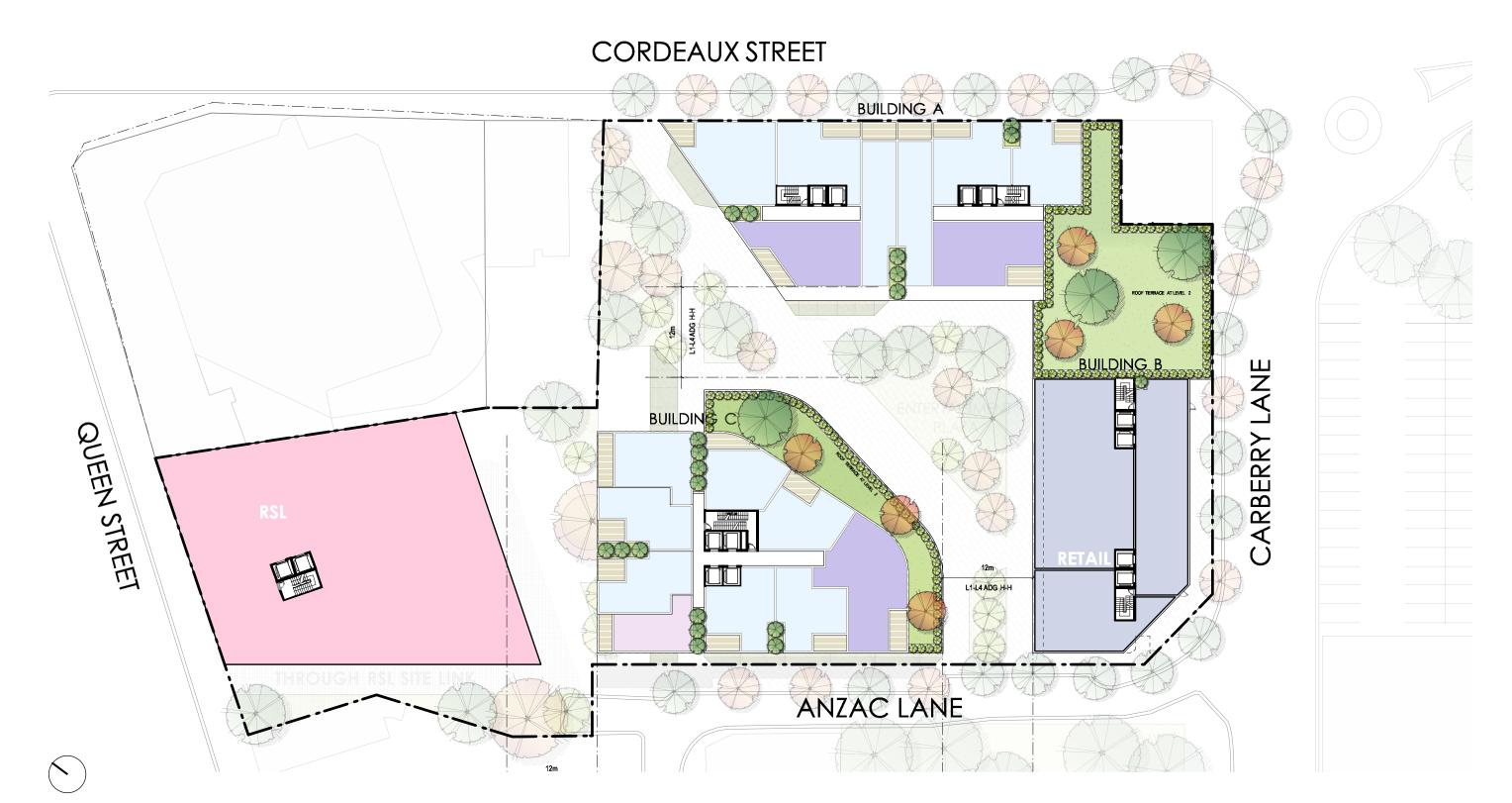


155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN



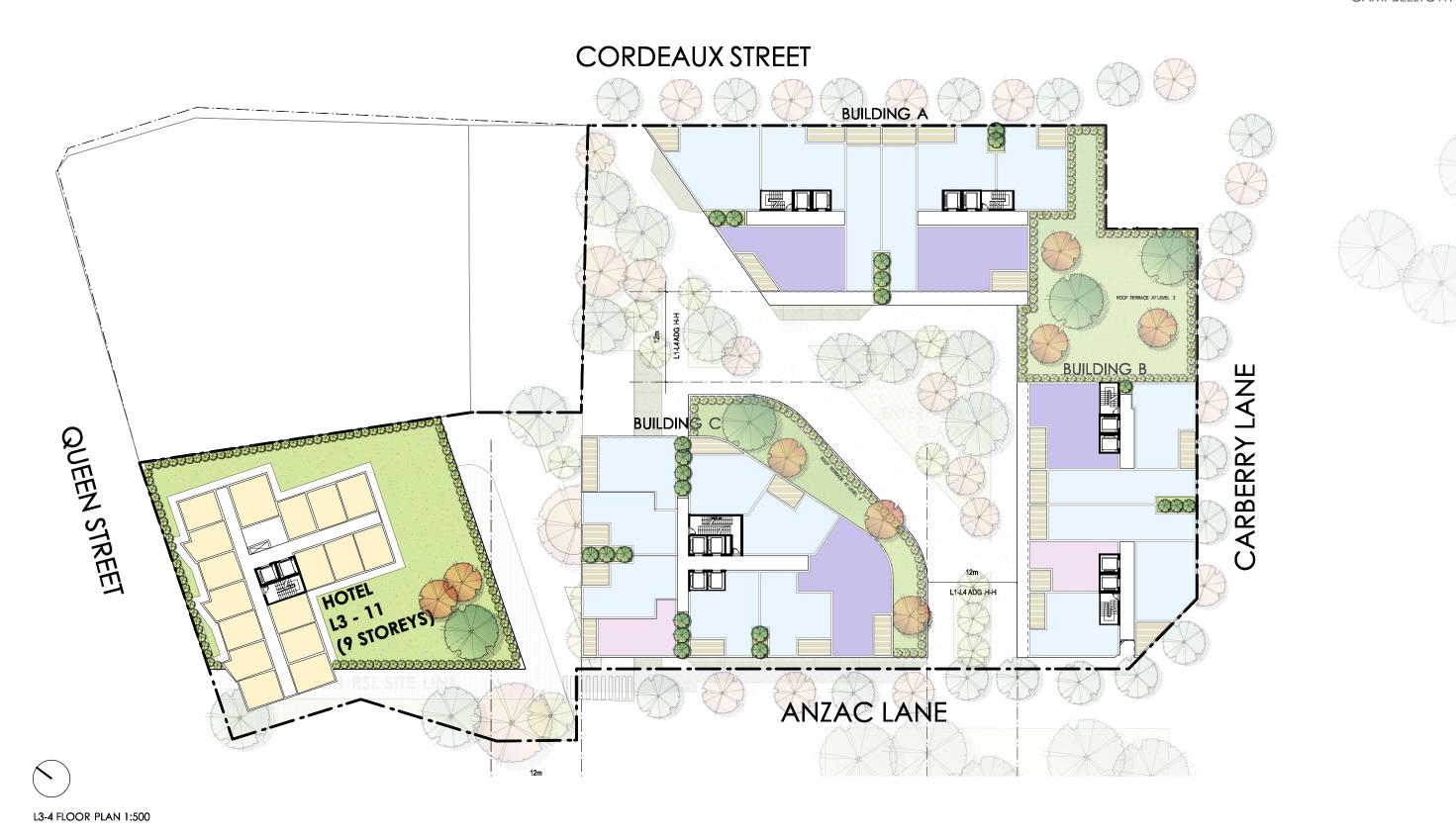


L2 FLOOR PLAN 1:500





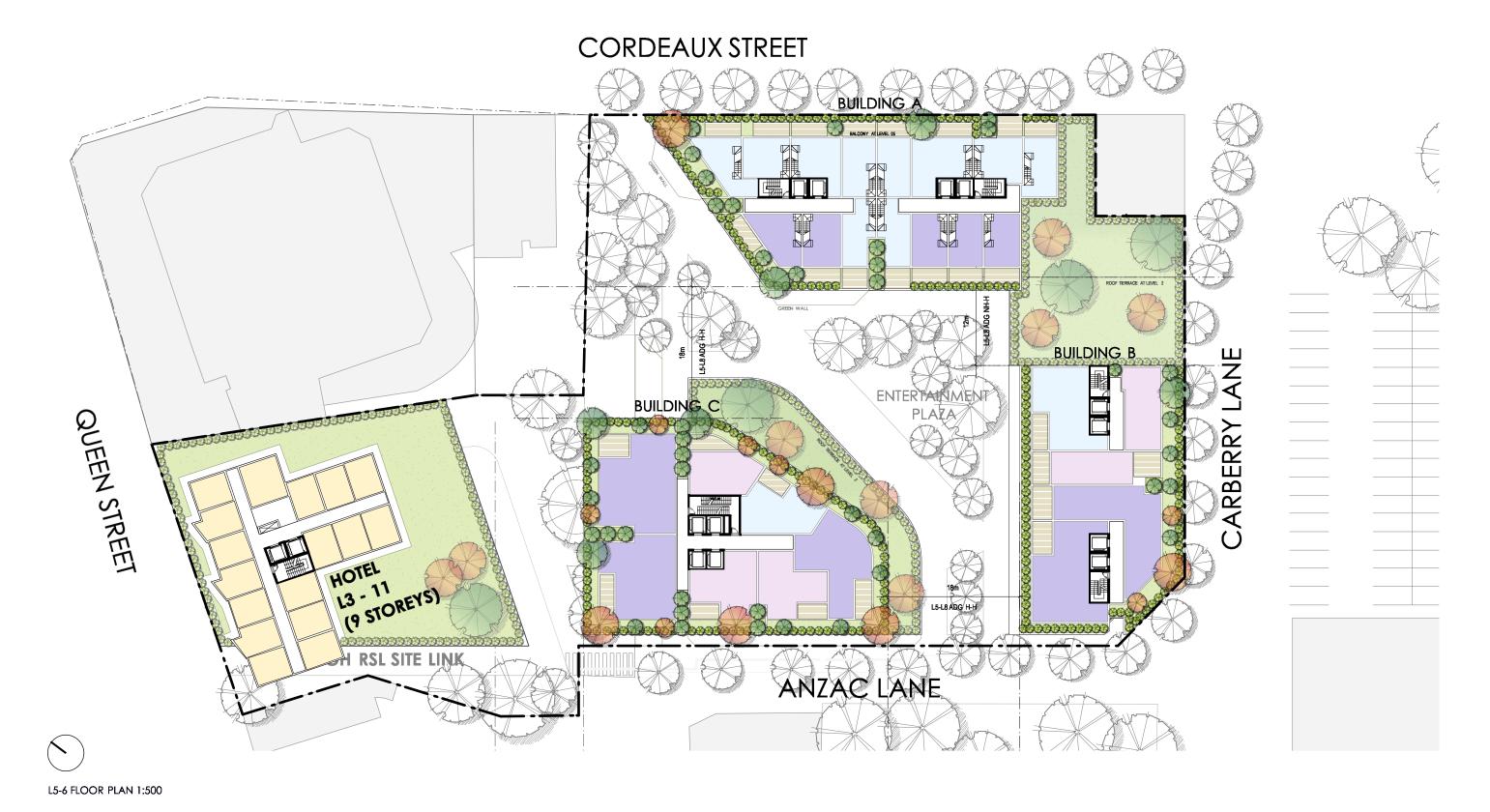
L3-4 FLOOR PLAN





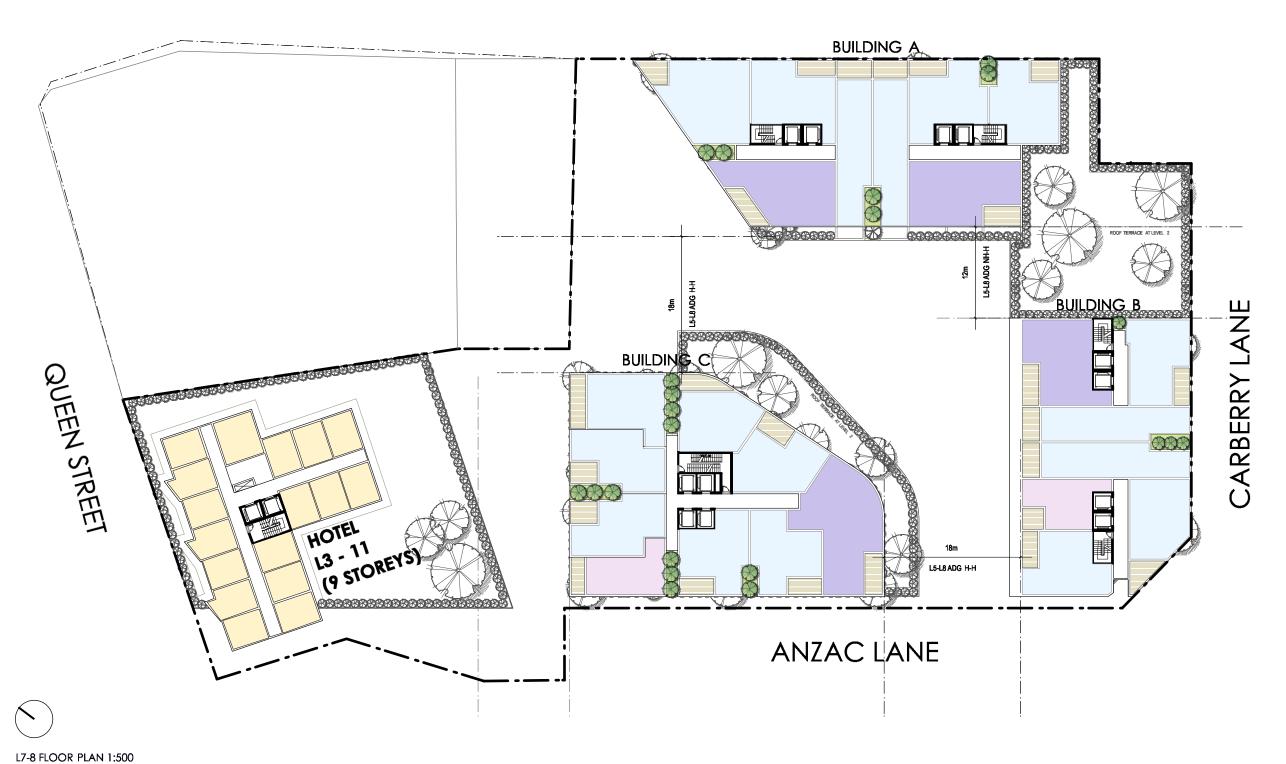
155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN

L5-6 FLOOR PLAN

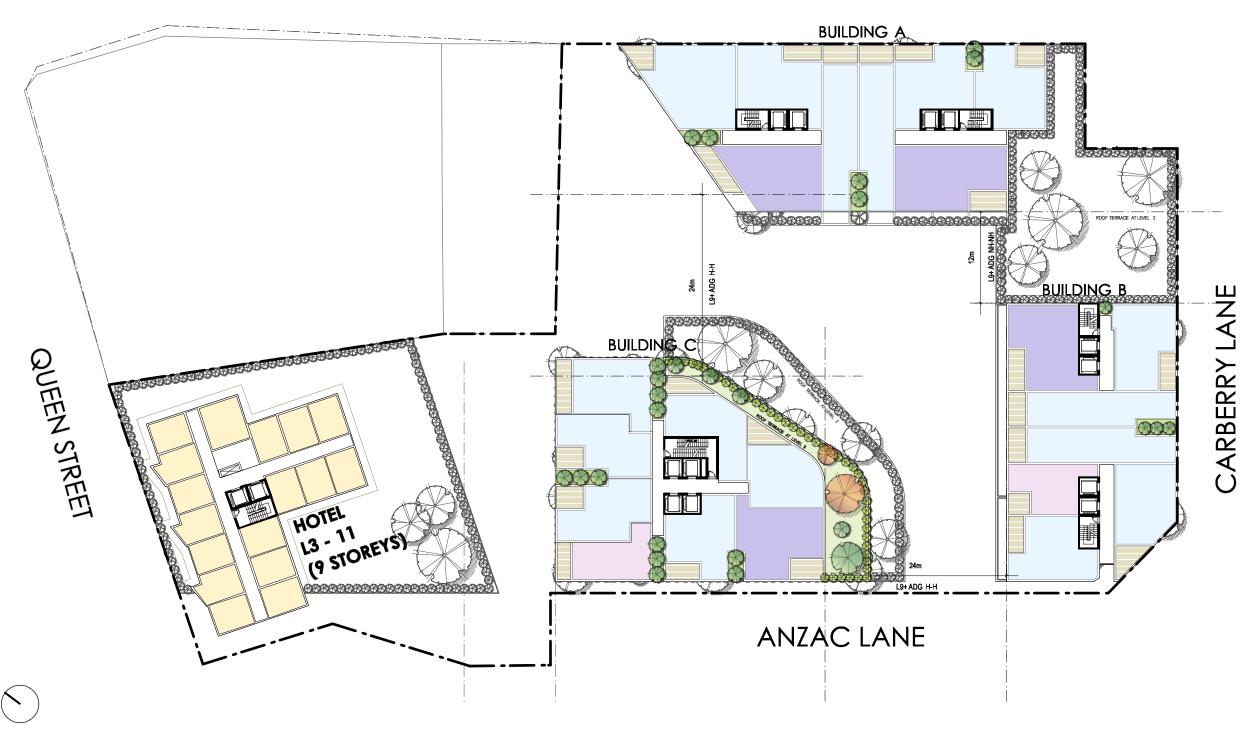


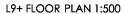


L7-8 FLOOR PLAN





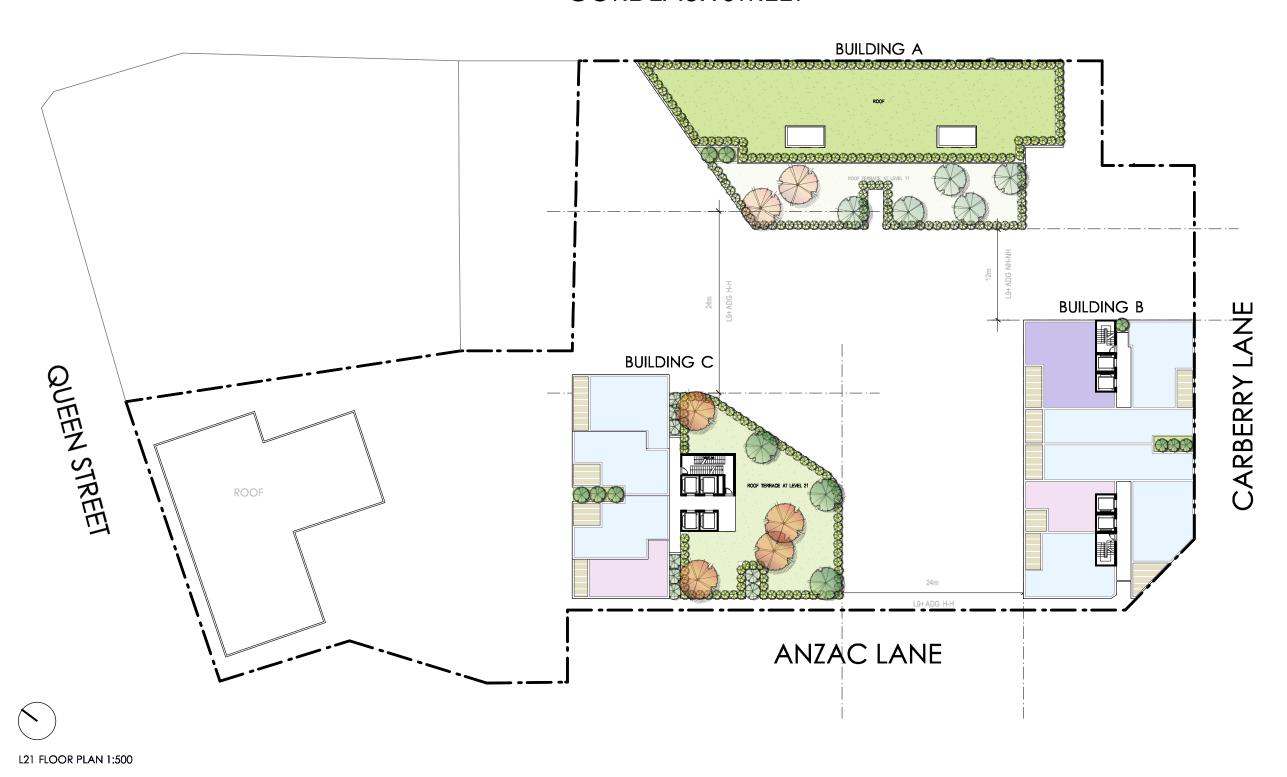












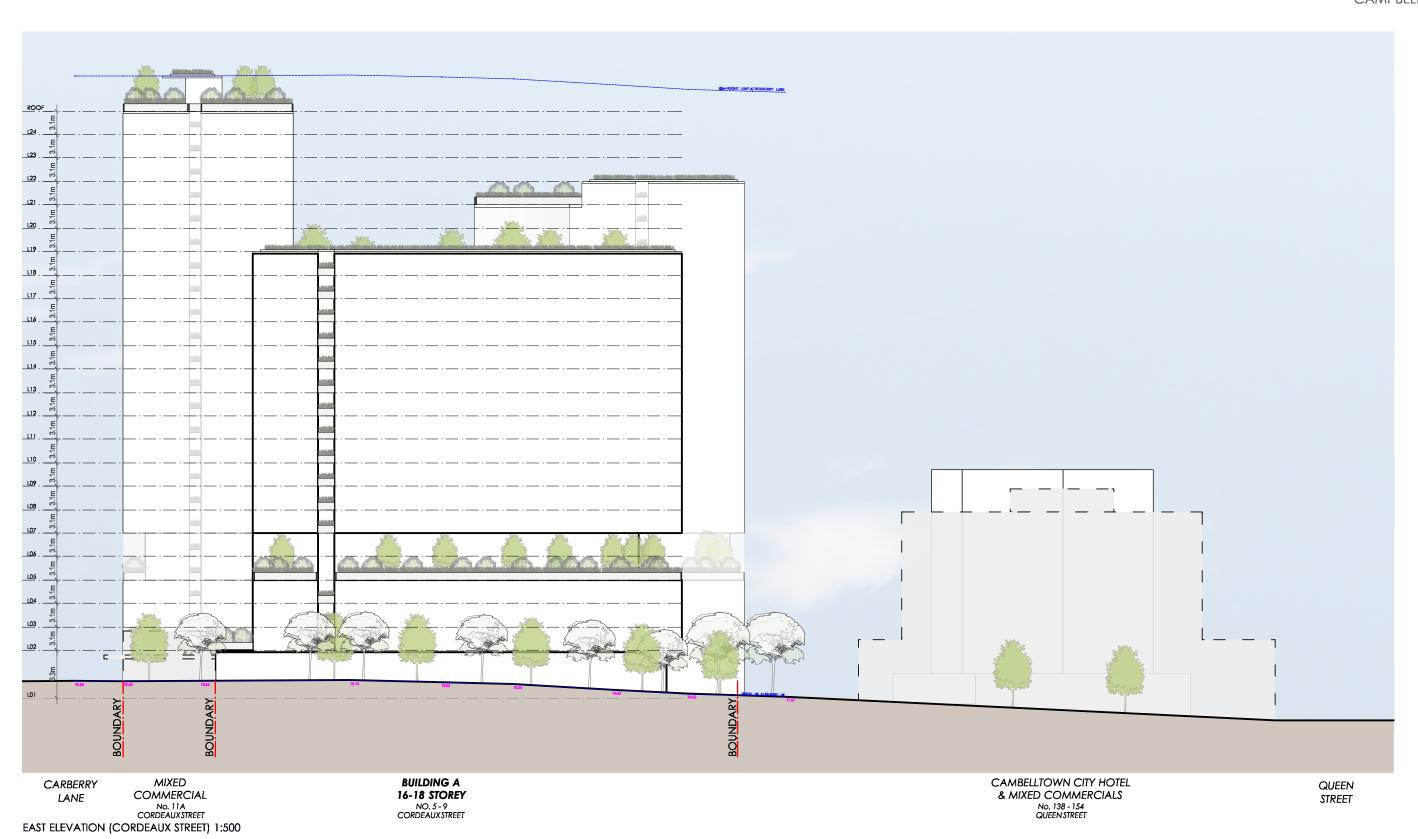


MASSING ELEVATION 01

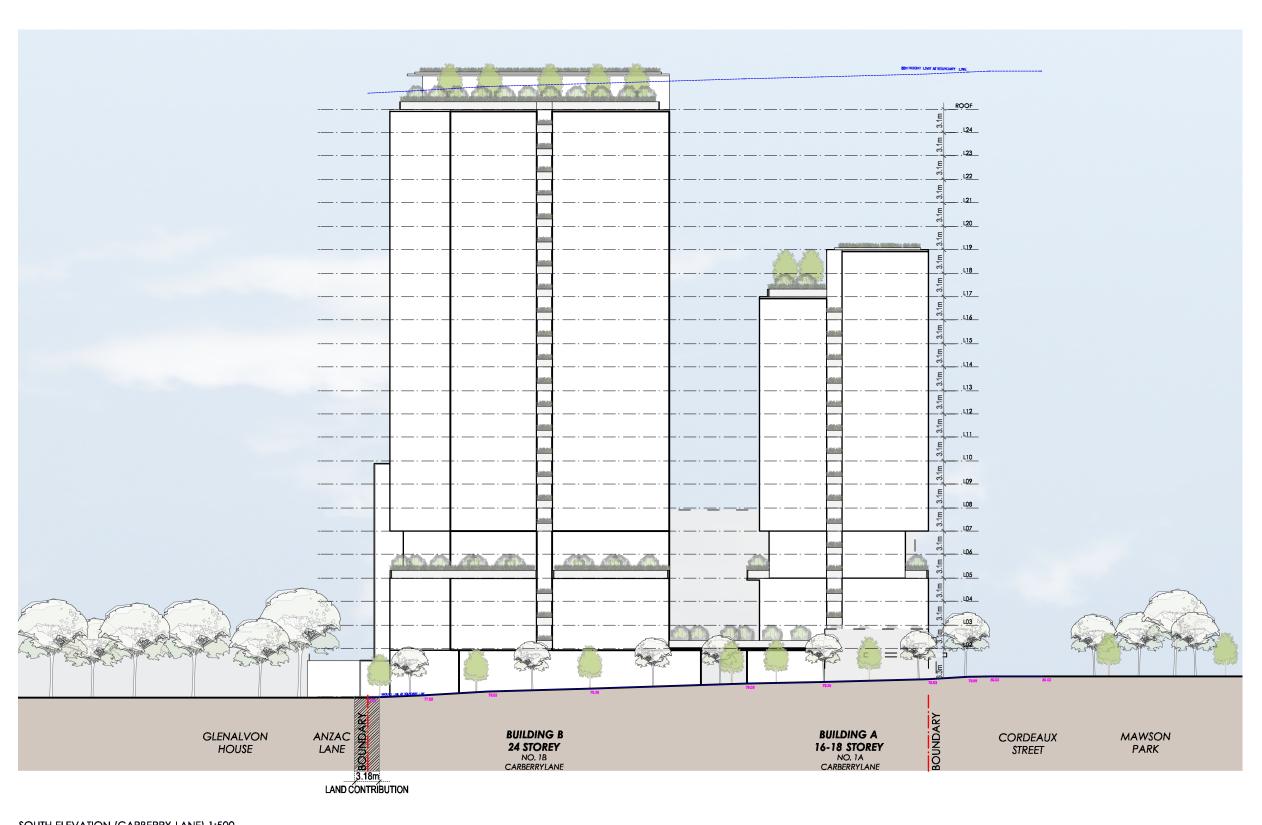


MASSING ELEVATION 02

155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN

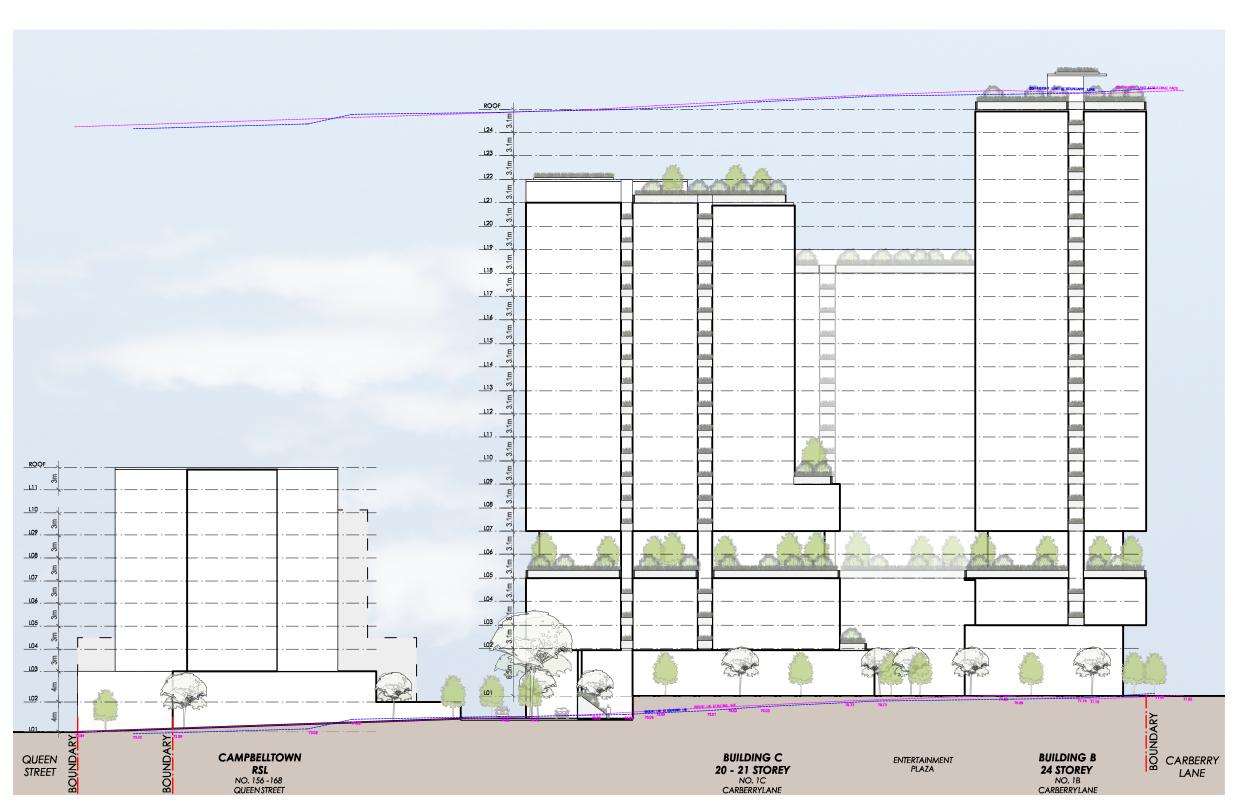






SOUTH ELEVATION (CARBERRY LANE) 1:500



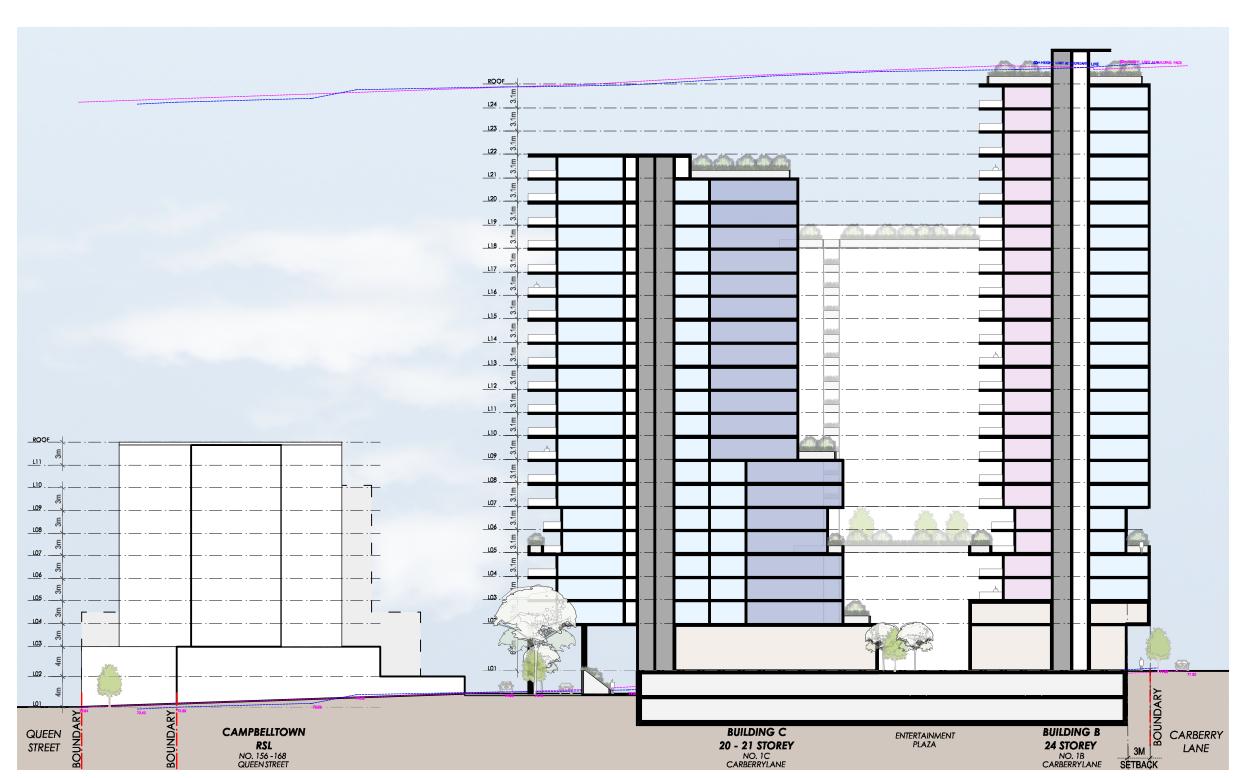


WEST ELEVATION (ANZAC LANE) 1:500



SECTION

155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN



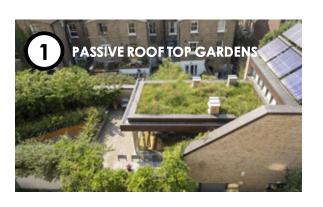
SECTION (QUEEN STREET - CARBERRY LANE) 1:500



OPEN SPACES

155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN

GLENALVON BLDG C 20-21 STOREYS LDG A CAMPBELLTOWN RSL CORDEAUX STREET MAWSON PARK





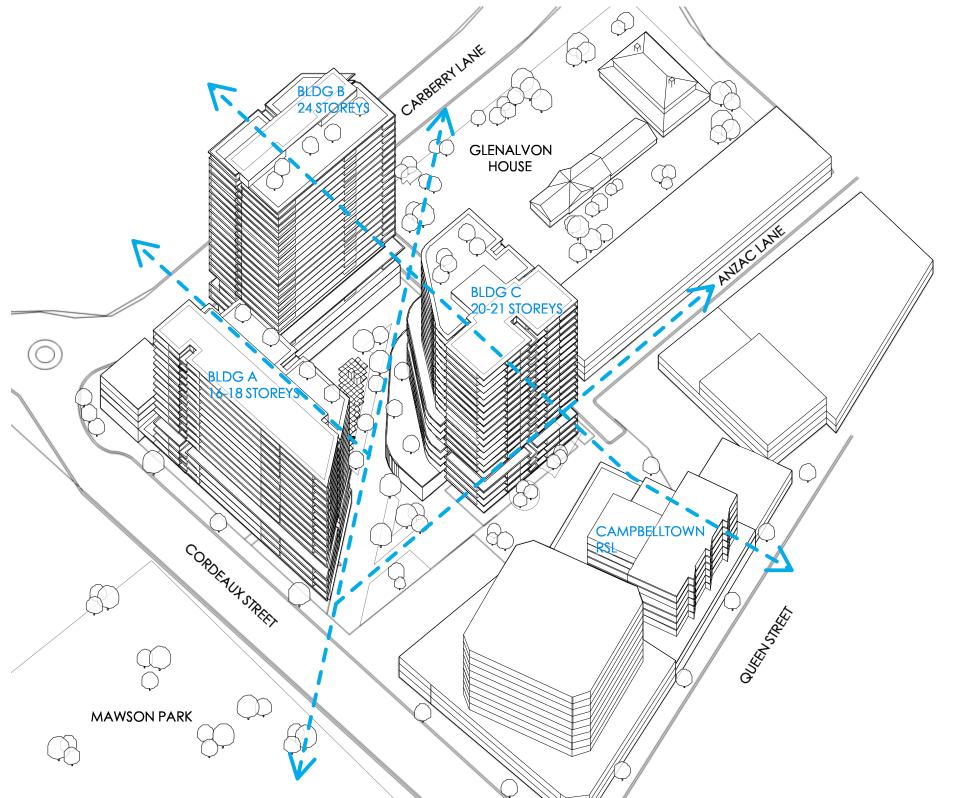


PASSIVE ROOF TOP GARDENS

COMMUNAL ACTIVE OPEN SPACE/ROOF TERRACES

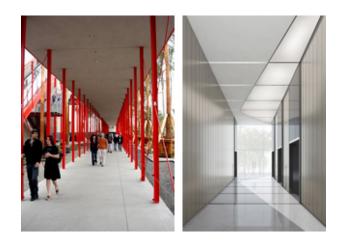
PUBLIC OPEN SPACE







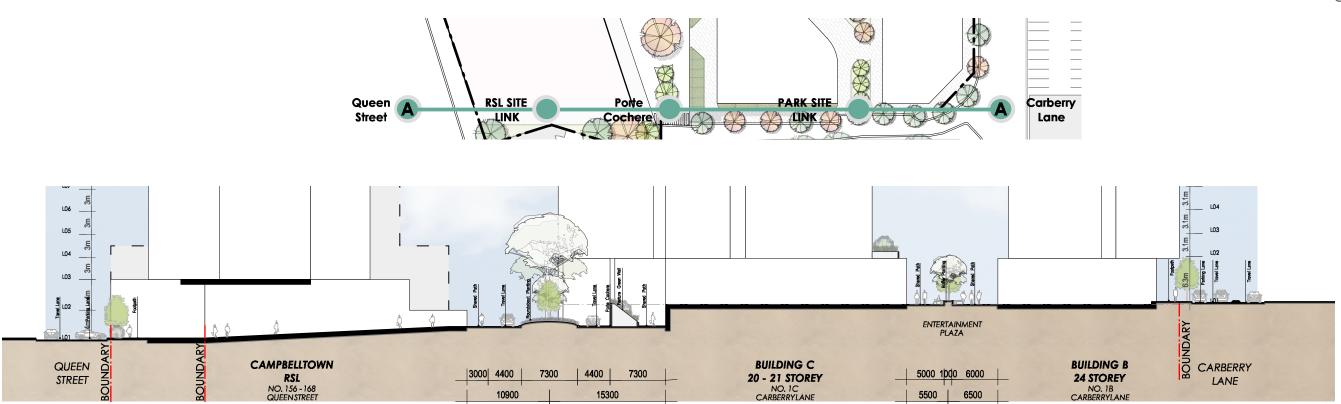




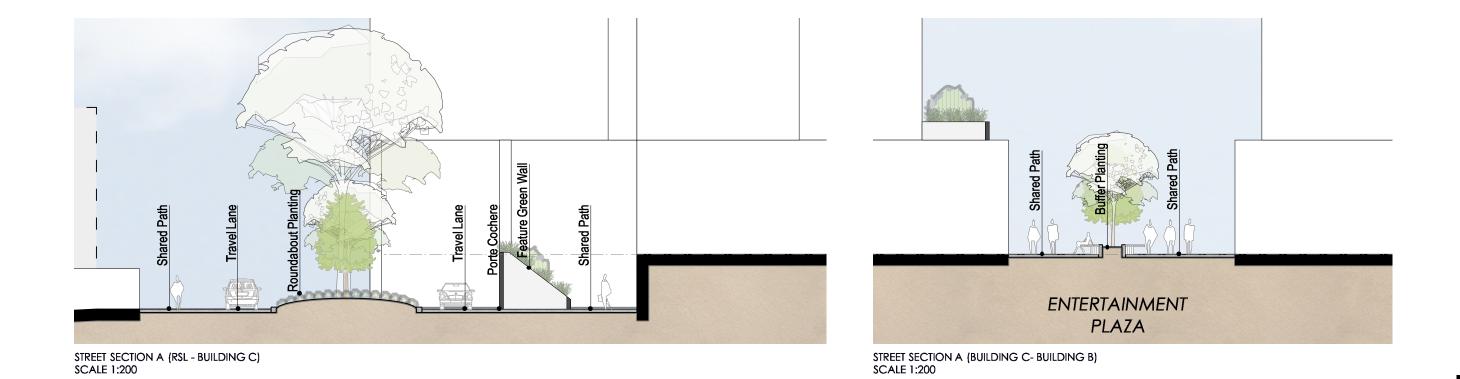


STREET TYPE

155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN

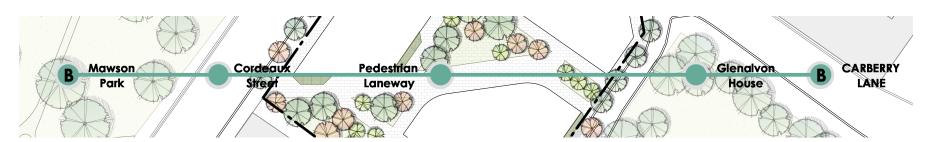


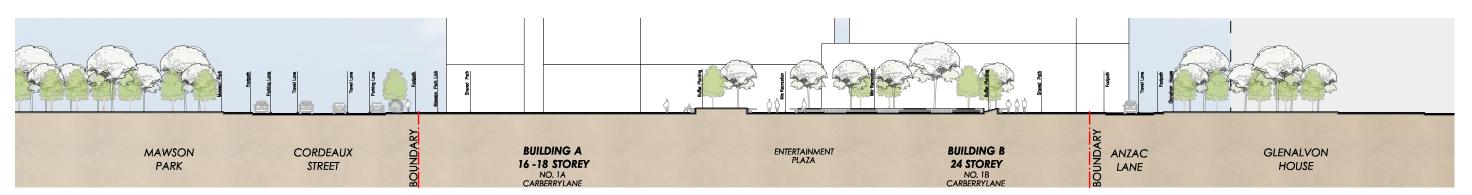
STREET SECTION A SCALE 1:500



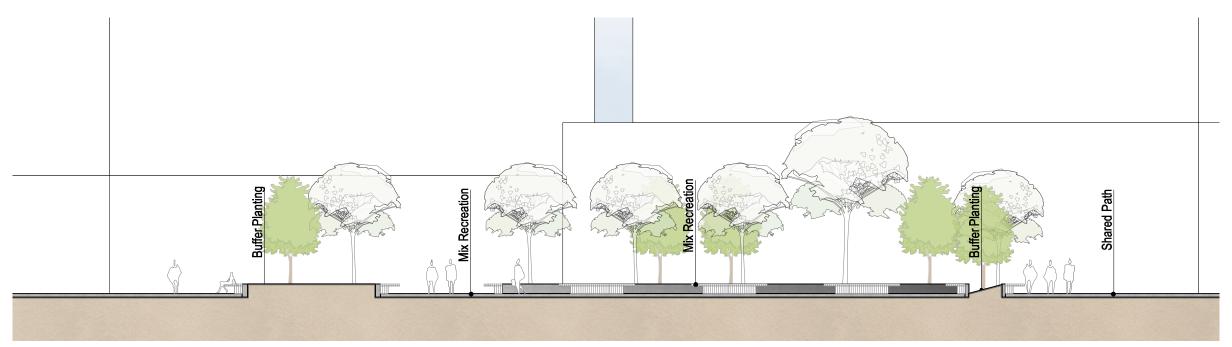
STREET TYPE

155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN



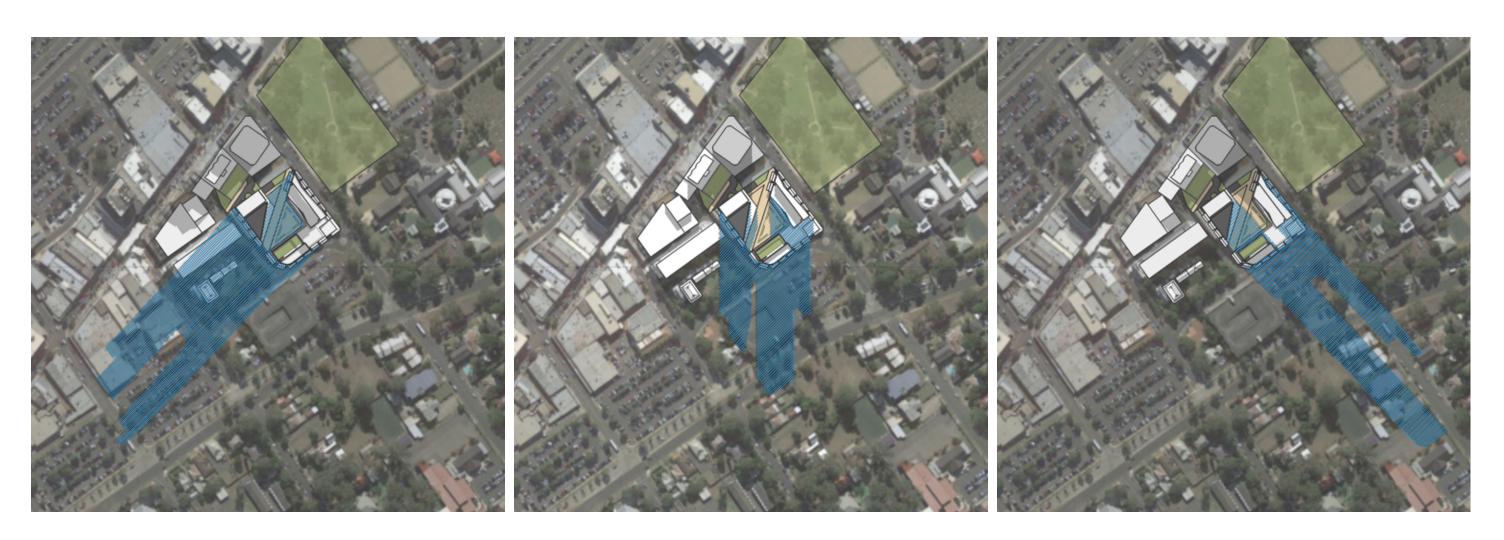


STREET SECTION B SCALE 1:500



STREET SECTION B (THROUGH SITE LINK) SCALE 1:200



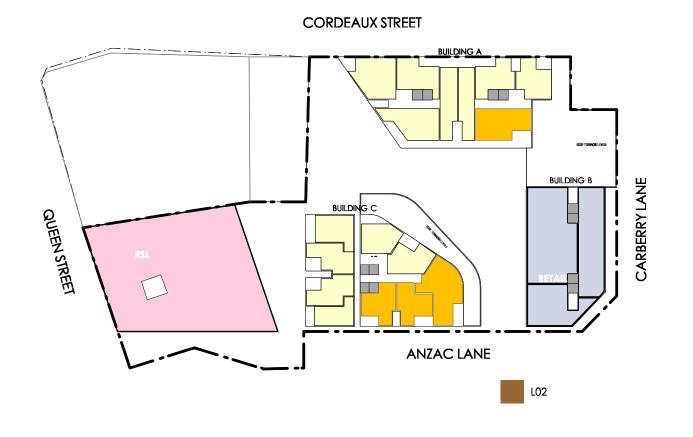


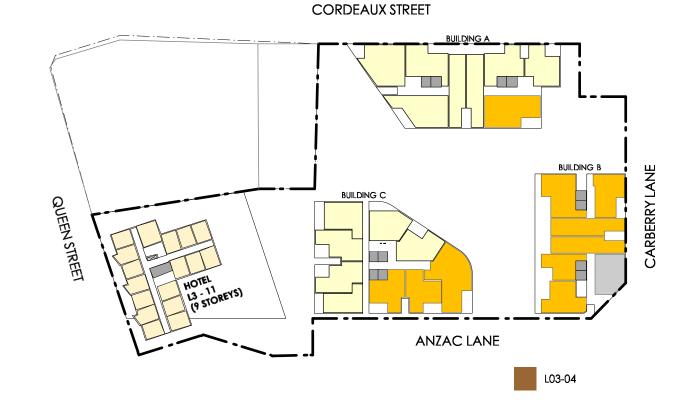


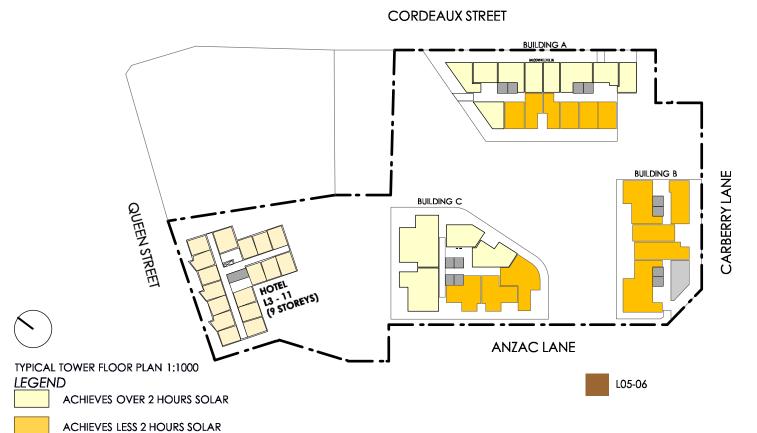
NO SOLAR

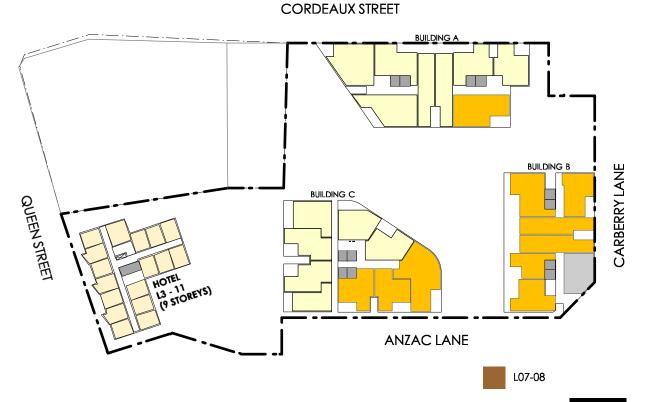
SOLAR ANALYSIS

155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN





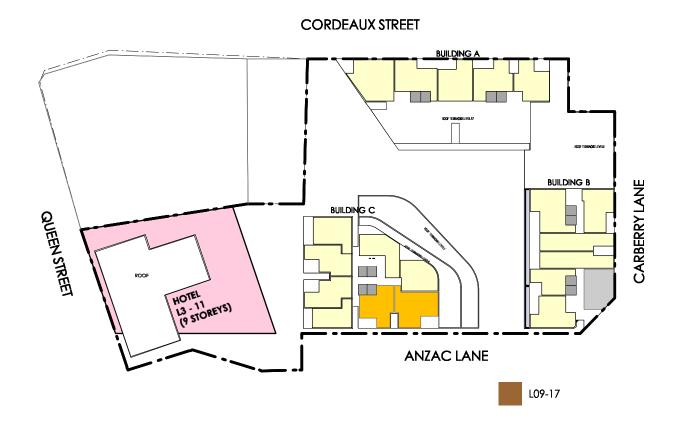


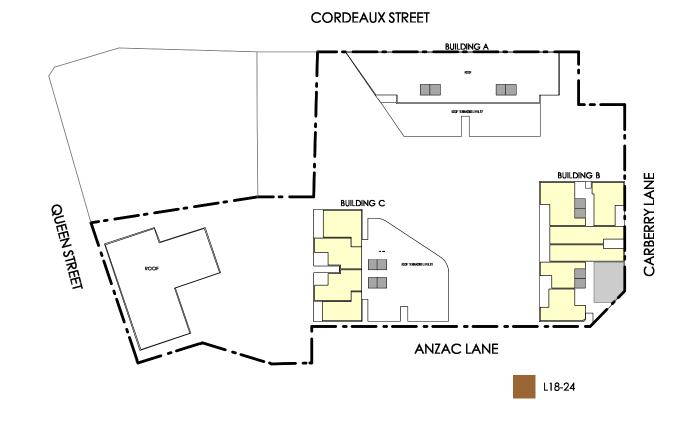




SOLAR ANALYSIS

155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN







TYPICAL TOWER FLOOR PLAN 1:1000

LEGEND
ACHIEVES OVER 2 HOURS SOLAR

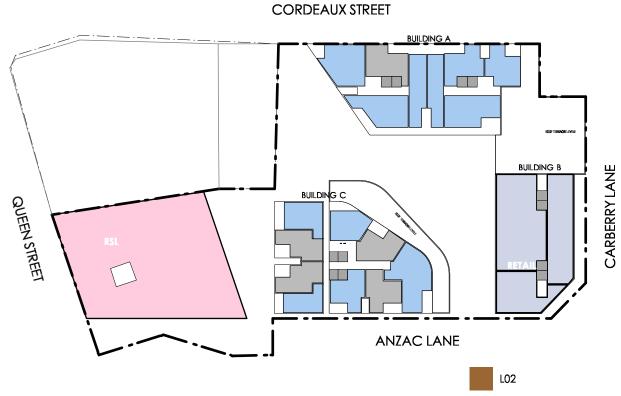
ACHIEVES LESS 2 HOURS SOLAR

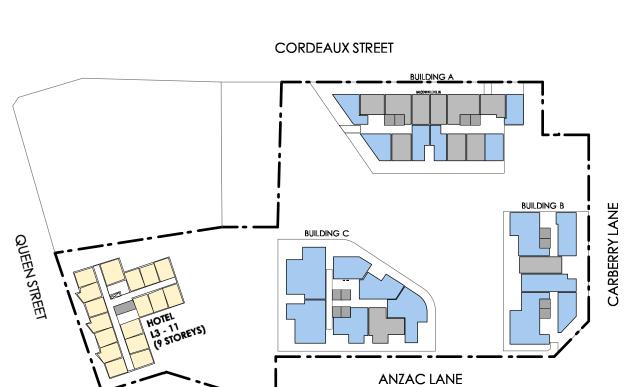
NO SOLAR



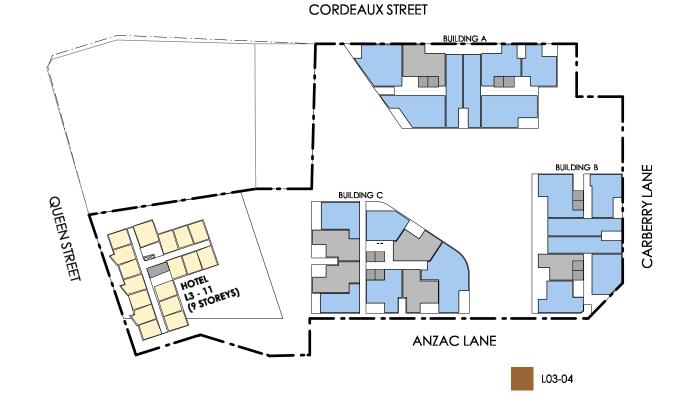
CROSS VENTILATION ANALYSIS

155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN





L05-06





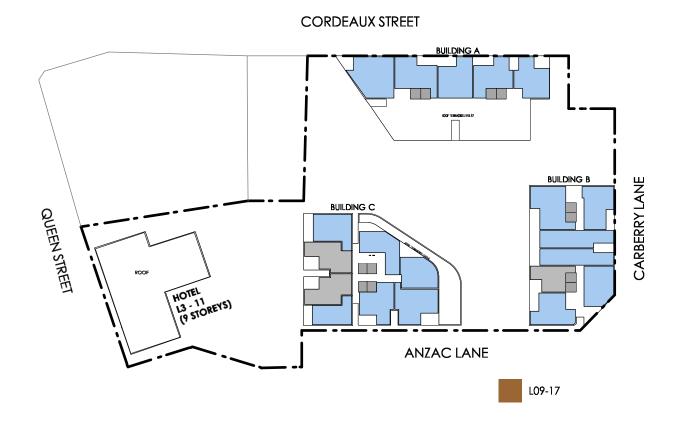
ACHIEVES CROSS VENTILATION

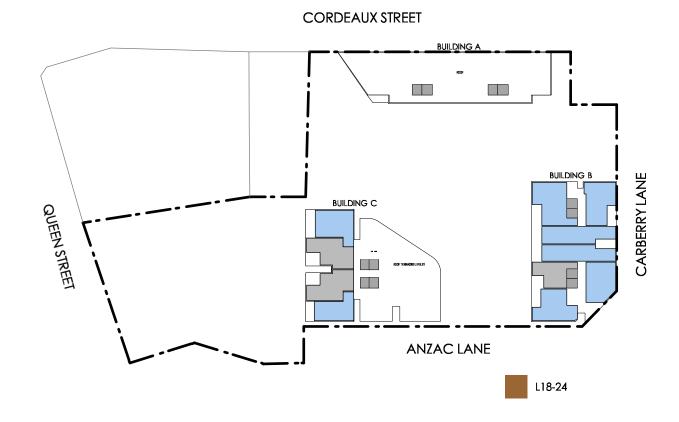


CROSS VENTILATION ANALYSIS 1:1000 LEGEND

CROSS VENTILATION ANALYSIS

155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN







CROSS VENTILATION ANALYSIS 1:1000 LEGEND

ACHIEVES CROSS VENTILATION





YIELD

ROPOSED YIELD - COMPLYII SE SL IOTEL ETAIL / COMMERICAL	3:	3 COMMERCIAL CORE 2 m NO. OF STOREYS 1 1								
PROPOSED YIELD - COMPLYII USE USL HOTEL RETAIL / COMMERICAL APARTMENTS	3: NG HIEGHT LEVEL L01 L02 L03-08 L1 L2	2 m NO, OF STOREYS 1 1								
PROPOSED YIELD - COMPLYIE RSL HOTEL RETAIL / COMMERICAL APARTMENTS	LEVEL L01 L02 L03-08 L1 L2	NO. OF STOREYS 1 1								
USE RSL HOTEL RETAIL / COMMERICAL APARTMENTS	LO1 LO2 LO3-08	1 1								
RSL HOTEL RETAIL / COMMERICAL APARTMENTS	L01 L02 L03-08	1 1								
ISL IOTEL IETAIL / COMMERICAL IPARTMENTS	L01 L02 L03-08	1 1					PROPOSED ENVELOPE	PROPO	SED GFA	NO. OF UNITS
HOTEL RETAIL / COMMERICAL APARTMENTS	L02 L03-08 L1 L2	1					M2		и2	
RETAIL / COMMERICAL APARTMENTS	L02 L03-08 L1 L2	1						85% FOR COMM	75% FOR RESIDENTIA	L /85M2
APARTMENTS	L03-08						1450	1230		
RETAIL / COMMERICAL APARTMENTS	L1 L2						770	655		
APARTMENTS	L2	6				400	2400	2250		
APARTMENTS	L2	1				3100	3100	2635		
	L3-4	1				3450	3450	2000	2588	30
TOTALS		2				3780	7560		5670	67
TOTALS	L5-10	6				2550	15300		11475	135
		10					34030	6770	19733	232
		PROPOSED GFA								2 M2
		PROPOSED FSR TOTAL UNITS							3.3	3 :1
* NOTE: AREAS FOR RSL + HOTE	EL EXTRAPOLAT		WINGS BY C	EN ONE GPO	DUP DATED SEP	PT 2015				232
NOIL. AREASTOR RSE THOIL	L LAIKAI OLAI	LD I KOM CONCLI I DKA	WINGS BI G	LIN ONL GIC	OF DATED SEE	1. 2015				
PROPOSED YIELD - 450 RESID	ENTIAL APART	IMENTS								
<u>USE</u>	LEVEL	NO. OF STOREYS	1BED	2BED	3BED	NO. OF UNITS	PROPOSED ENVELOPE	PROPO	SED GFA	
							M2	٨	и2	
								85% FOR COMM	RESIDENTIAL	/85M2
<u>RSL</u>	L01	1					1450	1230		
	L02	1					1450	1233		
HOTEL	L03-11	9				17	513		4617	
						153				
BUILDING A										
RETAIL / COMMERICAL	L1	1					1062	903		
APARTMENTS	L1 L2	1		6	2	8	816	903	816	
AI AKIMENIS	L3-4	2		6	2	16	816		1632	
	L5-6	2		5	2.5	15	659		1318	
	L7-8	2		6	2	16	816		1632	
	L9-15	7		6	2	56	808		5656	
	L16	1		6	2	8	808		808	
	L17-18	2		5		10	535		1070	
TOTALS		18	0	86	27	129		3365	17549	
BUILDING B										
RETAIL / COMMERICAL	L1	1				0	713	606	(17	
APARTMENTS	L2	2	1	5	1	0	617 617		617 1234	
	L3-4 L5-6	2	1	2	2	10	451		902	
	L7-8	2	1	5	1	14	617		1234	
	L9-12	6	1	5	1	42	617		3702	
	L13-23	9	1	5	1	63	617		5553	
	L24	1	1	5	1	7	617		617	
TOTALS		24	20	100	20	150		606	13859	
BUILDING C										
RETAIL / COMMERICAL	L1	1	,	7	1	^	811	689	907	
APARTMENTS	L2 L3-4	1 2	1	7	1	9	806 806		806 1612	
	L3-4 L5-6	2	3	1	3	18	611		1612	
	L7-8	2	1	7	1	18	806		1612	
	L9-12	4	2	5	1	32	667		2668	
	L13-19	7	2	5	1	56	667		4669	
	L20	1	2	5	1	8	667		667	
	L21	1	1	3		4	341		341	
TOTALS		21	30	98	17	159		689	13597	
UNIT MIX			11%	65%	15%		450			
					TOTAL UNITS	438	450 TARGET			
					PROPOSED					6 M2

^{*} NOTE: AREAS FOR RSL + HOTEL EXTRAPOLATED FROM CONCEPT DRAWINGS BY GEN ONE GROUP DATED SEPT. 2015

155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN



155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN



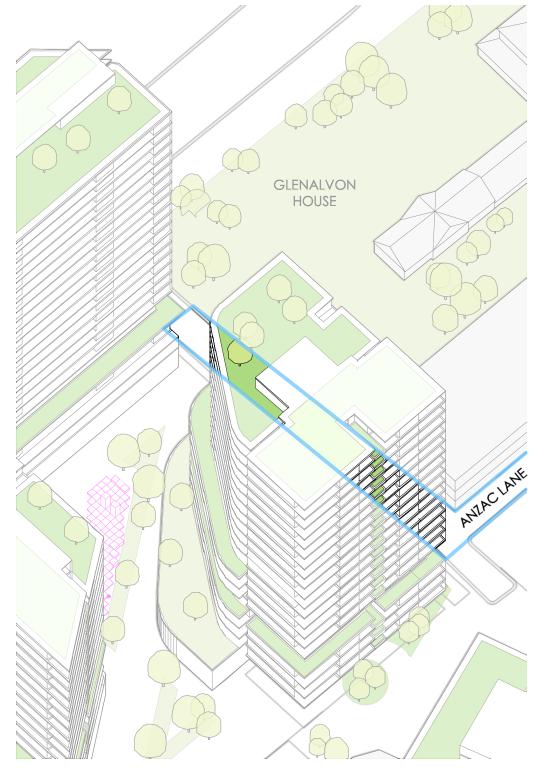


155 - 168 QUEEN STREET, 1 CARBERRY LANE & 3 CORDEAUX STREET, CAMPBELLTOWN

SKETCH CONCEPTS







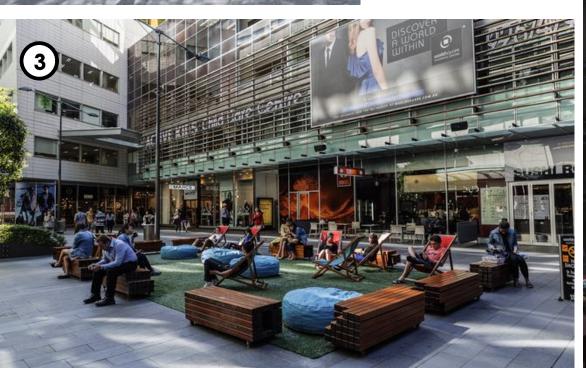




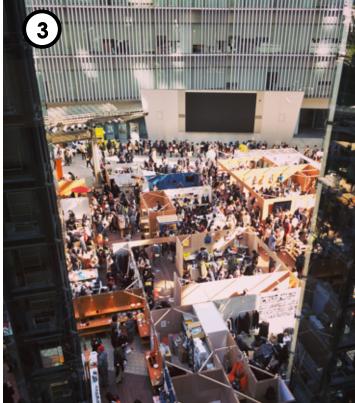












CENTRAL COURTYARD + PUBLIC DOMAIN









PRECEDENTS - 11/11A CORDEAUX ST FUTURE DEVELOPMENT



PROPOSED DEVELOPMENT WITH EXISTING BUILDING AT 11/11A CORDEAUX ST

Facade articulation enveloped on southern facade of building A and eastern facade of building B.



PROPOSED DEVELOPMENT ASSIMILATING 11/11A CORDEAUX ST

Proposed development podium extended to integrate corner lot at 11/11A Cordeaux St.

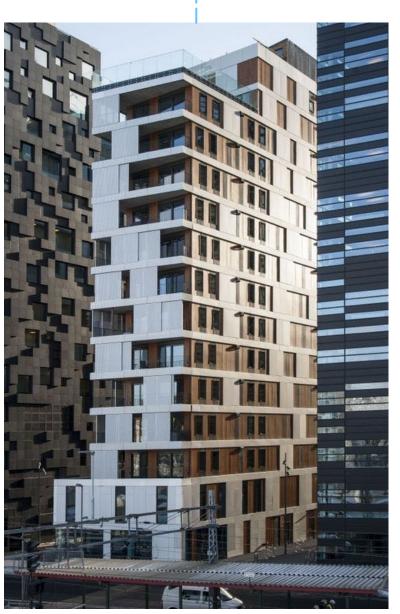












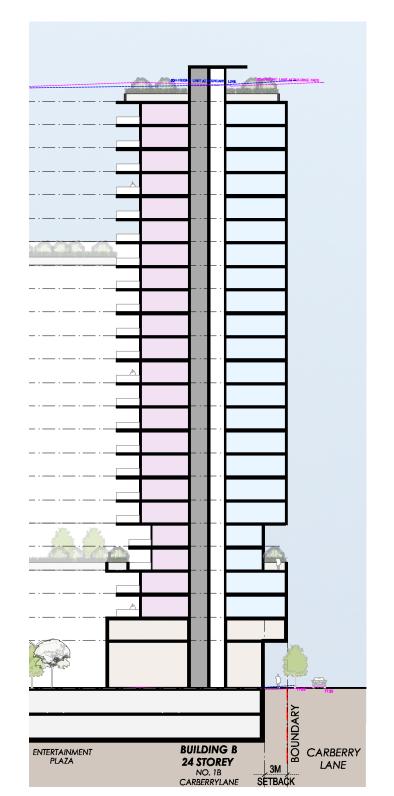


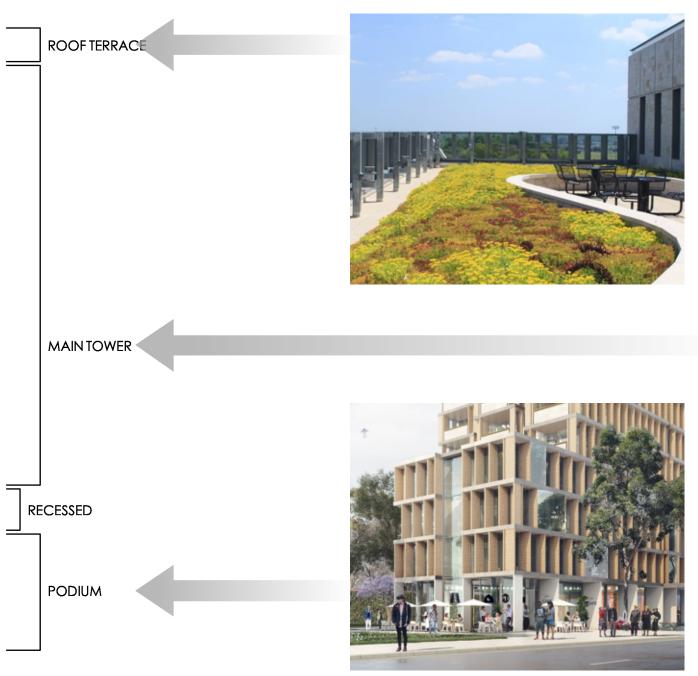














WEST ELEVATION (ANZAC LANE) 1:500

JANUARY 19 2018

'Missed opportunity' for green roofs as Sydney's apartment boom continues



If there was ever any doubt about the need for green infrastructure to complement Sydney's building boom, the scorching heatwave that cooked the city earlier this month should have cured it.

In the first week of 2018, Sydney baked through 40 degree temperatures, while Penrith, in the city's west, clocked in at the hottest place on earth as the mercury hit 47.3 degrees.

Oasis in the city

"You forget that you're living in the city", Pyrmont resident Kyle Jenkins says rooftop gardens bring communities together.

The current apartment boom is likely to exacerbate what is known as the urban-heat island effect, where buildings and the surrounding concrete and asphalt streetscapes absorb and lock in the sun's heat.

At the same time, however, architecture and sustainability experts say there is now an unprecedented opportunity to harness Sydney's ever expanding rooftop coverage by making green roofs and walls a standard feature on new residential and commercial buildings.



A resident of the M Central apartment complex, in Pyrmont, sunbakes on the building's green roof. Photo:

However, they say a lack of proactive policy measures mean this opportunity is slipping through the hands of the NSW government and councils.

"In the absence of a proper evidence-based consideration of green space and green infrastructure, we're likely to see the slums of the future being developed," Dr Paul Osmond, director of UNSW's sustainable built environment program, said.

"In 10 to 20 years' time, will people want to live in these places?"

Scientific research has repeatedly recognised the insulation benefits of living infrastructure, such as green roofs and walls, in reducing energy consumption both in summer and winter, lowering energy and electricity bills as a result.

For example, a 2015 experiment, conducted at the University of Technology, Sydney, found that the process of retrofitting one of the university's roofs with succulent plants lowered the roof temperature by as much as 5 degrees.

A separate study by UNSW professor Mat Santamouris found the large-scale application of green roofs could lower the ambient temperature by up to 3 degrees.

Sara Wilkinson, from the UTS school of built environment, said about 32 per cent of horizontal surfaces in Sydney are rooftops, but the potential has remained largely untapped.



The One Central Park building, on Broadway, Chippendale, with its eye-catching green facade, has become an iconic feature of Sydney's inner city skyline. Photo: Jessica Hromas

In the City of Sydney, the only NSW council that has a specific policy on green roofs and walls, there are 53 green roofs, which equates to less than 1 per cent of the total available roof space.

At a policy-level, Sydney lags well behind other more dense cities such as Singapore, London, Stockholm and Toronto when it comes to promoting the installation of green roofs and walls, Dr Wilkinson said.

"Greening them really does make a change to heat stress and your urban environment," she said. "We are missing an opportunity to create a beautiful garden city."

Singapore, by comparison, is widely recognised as a world leader when it comes to green roofs. As one of the most densely populated countries in the world, it is also an example of the success that can be achieved through a co-ordinated and targeted policy framework.

"They realised back in the '60s they were a concrete jungle and they needed to do something about it." Dr Wilkinson said.

"What we're seeing in Singapore now in 2018 is 40 years of planning and policy setting." The uptake of green roofs in Singapore has boomed by more than 800 per cent in the past decade, and today the compact island has 80.5 hectares of skyrise greenery across 182 projects.

This has been driven by an array of government-led incentives, such as planning policies that offer developers additional floor space, or grants that cover up to 50 per cent of the cost of green roof and wall installations.

No equivalent measures or financial incentives exist in Sydney. However, the NSW government has made recent significant steps into this space, unveiling a draft green infrastructure policy last November, which increases Sydney's urban tree canopy from 16 to 40 per cent through the planting of 5 million trees.

At the same time, the government is pushing ahead with planning strategies that concentrate new high rise developments around train stations. For example, rezoning around 11 stations along the Sydenham to Bankstown rail corridor is expected to deliver 35,000 new homes over the next 20 years.

In December, the government cleared the way for a further 20,000 homes to be built through rezoning around the rail corridor from Macquarie Fields to Macarthur in Sydney's south-west.

Jock Gammon, co-founder of Junglefy, a company that installs and maintains living infrastructure, said it was more cost effective to install green roofs during the building's construction, and incentivising developers was key.

"It won't happen retrospectively because once they [developers] get their certificate, they aren't really going to want to put one up," he said.

Aside from the environmental benefits, rooftops are also an obvious, if partial, solution to the increasing encroachment by development on green space at ground level.

At the M Central apartment complex in Pyrmont, the 3000 square metres of landscaped rooftop joins the two separate apartment buildings, providing a communal space for residents to mingle and walk their pets.

"When we show potential renters into the building, that is really the point of sale. They see the roof and say 'wow'," building manager Karl Rees said.