APPENDIX B

UPG OVERSHADOWING STUDIES

High Street Penrith

DKO

SHADOW STUDY RE1

DKO ARCHITECTURE

URBAN APARTMENTS PTY LTD



VERNAL EQUINOX

7AM

MARCH 20TH - REDUCE BY 69m²

Built Context	20th	720	76.6%	
Built Context + Approved DA18/0271		870	92.5%	
Additional Shadow by approved DA18/0264		150	15.9%	
Built Context + DA18/0264 + Proposed		939	99.8%	
Additional Shadow by Proposed		69	7.3%	•
Built Context + Proposed		939	99.8%	
Additional Shadow by Proposed without DA18/0264		219	23.2%	
Difference between additional shadow of Proposed and DA18/0264		69	7.3%	

8AM MARCH 11TH - REDUCE BY 340m²

Built Context	11th	0	0.0%	
Built Context + Approved DA18/0268		565	60.1%	
Additional Shadow by approved DA18/0264		565	60.1%	
Built Context + DA18/0264 + Proposed		905	96.2%	
Additional Shadow by Proposed		340	36.1%	\leftarrow
Built Context + Proposed		905	96.2%	
Additional Shadow by Proposed without DA18/0264		905	96.2%	
Difference between additional shadow of Proposed and DA18/0264		340	36.1%	

9AM

MARCH 16TH - REDUCE BY 197m²

Built Context	16th	0	0.0%	
Built Context + Approved DA18/0269		238	25.3%	
Additional Shadow by approved DA18/0264		238	25.3%	
Built Context + DA18/0264 + Proposed		436	46.3%	
Additional Shadow by Proposed		197	21.0%	\leftarrow
Built Context + Proposed		233	24.7%	
Additional Shadow by Proposed without DA18/0264		233	24.7%	
Difference between additional shadow of Proposed and DA18/0264		-6	-0.6%	

AUTUMN EQUINOX

7AM

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SEP 17TH - REDUCE BY 17m²

Built Context	17th	207.03
Built Context + Approved DA18/0280		860
Additional Shadow by approved DA18/0264		653
Built Context + DA18/0264 + Proposed		878
Additional Shadow by Proposed		17
Built Context + Proposed		839
Additional Shadow by Proposed without DA18/0264		632
Difference between additional shadow of Proposed and DA18/0264		-21

8AM OCT 14TH - REDUCE BY 606m²

Built Context	14th	0
Built Context + Approved DA18/0306		293
Additional Shadow by approved DA18/0264		293
Built Context + DA18/0264 + Proposed		899
Additional Shadow by Proposed		606
Built Context + Proposed		899
Additional Shadow by Proposed without DA18/0264		899
Difference between additional shadow of Proposed and DA18/0264		606

9AM NO ADDITIONAL SHADOW BY PROPOSED



0.0% 31.1% 31.1% 95.5% 64.4% 95.5% 95.5% 64.4%

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APRIL 2023

VERNAL EQUINOX

7AM

MARCH 20TH - REDUCE BY 69m²

Built Context	20th	720	76.6%
Built Context + Approved DA18/0271		870	92.5%
Additional Shadow by approved DA18/0264		150	15.9%
Built Context + DA18/0264 + Proposed		939	99.8%
Additional Shadow by Proposed		69	7.3%
Built Context + Proposed		939	99.8%
Additional Shadow by Proposed without DA18/0264		219	23.2%
Difference between additional shadow of Proposed and DA18/0264		69	7.3%

8AM MARCH 11TH - REDUCE BY 340m²

Built Context	11th	0	0.0%
Built Context + Approved DA18/0268		565	60.1%
Additional Shadow by approved DA18/0264		565	60.1%
Built Context + DA18/0264 + Proposed		905	96.2%
Additional Shadow by Proposed		340	36.1%
Built Context + Proposed		905	96.2%
Additional Shadow by Proposed without DA18/0264		905	96.2%
Difference between additional shadow of Proposed and DA18/0264		340	36.1%

9AM

Built Context	16th	0	0.0%
Built Context + Approved DA18/0269		238	25.3%
Additional Shadow by approved DA18/0264		238	25.3%
Built Context + DA18/0264 + Proposed		436	46.3%
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Additional Shadow by Proposed without DA18/0264		233	24.7%
Difference between additional shadow of Proposed and DA18/0264		-6	-0.6%

AUTUMN EQUINOX

7AM SEP 17TH - REDUCE BY 17m²

Built Context	17th	207.03	22.0%
Built Context + Approved DA18/0280		860	91.4%
Additional Shadow by approved DA18/0264		653	69.4%
Built Context + DA18/0264 + Proposed		878	93.3%
Additional Shadow by Proposed		17	1.8%
Built Context + Proposed		839	89.2%
Additional Shadow by Proposed without DA18/0264		632	67.2%
Difference between additional shadow of Proposed and DA18/0264		-21	

8AM OCT 14TH - REDUCE BY 606m²



9AM

MARCH 16TH - REDUCE BY 197m²

NO ADDITIONAL SHADOW BY PROPOSED

VERNAL EQUINOX - AMENDED BUILDING HEIGHTS

BUILT CONTEXT + DA18/0264

+ PROPOSED

939m²



HIGH STREET PENRITH

BUILT CONTEXT + DA18/0264

+ PROPOSED

565m²

URBAN APARTMENTS PROJECT 00012012

APRIL 2023



44 STOREYS REDUCED BY 4 STOREYS



BUILT CONTEXT + DA18/0264

+ PROPOSED

- 238m²



BUILT CONTEXT + DA18/0264 + DA ----- 436m²



BUILT CONTEXT + DA18/0264 - 238m²

MARCH 16TH - REDUCE BY 198m²

AUTUMN EQUINOX - AMENDED BUILDING HEIGHTS

9AM 7AM 8AM OCT 14TH - REDUCE BY 606m² SEP 17TH - REDUCE BY 13m² BUILT CONTEXT + DA18/0264 BUILT CONTEXT + DA18/0264 864m² - 293m² BUILT CONTEXT + DA18/0264 BUILT CONTEXT + DA18/0264 + DA + DA 877m² SHADOW IMPACT DUE TO **BUILDING FOOTPRINT**

17 STOREYS REDUCED BY 31 STOREYS

BUILT CONTEXT + DA18/0264 + PROPOSED

864m²



35 STOREYS REDUCED BY 13 STOREYS

BUILT CONTEXT + DA18/0264 + PROPOSED

HIGH STREET PENRITH

- **565m**²

DKO ARCHITECTURE

NO ADDITIONAL SHADOW BY PROPOSED

OVERSHADOW IMPACT PROPOSED



UNION LANE

Tower Option _ Residnetial Tower Levels

High Street, Penrith								
Development Summar	ry - 6:1 scher	me						
Site Area:	4,715 n	n2						
Allowable FSR	6.00 ::	1						
Max GFA	28,290 n	n2						
Proposed GFA:	28,423 n	n2						
Proposed FSR:	6.03 ::	1						
GBA to GFA - Res	78%							
GBA to GFA - Com Ret	94%							
	Г		Тс	ower 1		Tow	ver 2	TOTAL
		GBA	GFA	GFA	Total	CRA	GFA	CEA
	L	GBA	Res	COM/RET	GFA	GBA	Res	GFA
Ground		2252		2117	2117			2117
Mezzanine				0	0			0

	То	wer 1			Towe	er 2		TOTAL
GBA	GFA	GFA	Total	GB/		GFA		GFA
GBA	Res	COM/RET	GFA	GDA	`	Res		GFA
2252		2117	2117					2117
		0	0					0
2252		2117	2117					2117
2252		2117	2117					2117
2252		2117	2117					
905	706		706	694		541		1247
905	706		706	694		541		1247
905	706		706	694		541		1247
905	706		706	694		541		1247
905	706		706	694		541		1247
905	706		706	694		541		1247
905	706		706	694	.	541		1247
905	706		706	694	.	541		1247
905	706		706	694	.	541		1247
905	706		706	694	.	541		1247
905	706		706	694	.	541		1247
905	706		706	694	.	541		1247
905	706		706	694	.	541		1247
905	706		706	694	.	541		1247
905	706		706	694	.	541		1247
905	706		706	694	.	541		1247
18963	11294	8468	19762	763	4	8661	1	28423

DISCLAIMER

Level 19

ubtotal

Level 1 Level 2 Level 3 Level 4

Level 5 Level 6 Level 7 Level 8 Level 9

Level 10

Level 11 Level 12 Level 13 Level 14 Level 15 Level 16 Level 17 Level 18

These areas are schematic only and subject to council and other requisite approval. Areas are not to be used for marketing purposes. This scheme has been prepared generally within the bounds of the current site dimensions however is subject to detailed discussion with council, hence may be subject to change once advice is received.

This design has been prepared without structural or services engineering input hence is subject to change once advice is received.

*Further Studies Required

© DKC Except: drawing withese*

part of this dealt with

OVERSHADOW IMPACT PROPOSED















DKO ARCHITECTURE

PROJECT 00012012

11am

Proposed building

6:1 2 Tower envelope

URBAN APARTMENTS PTY LTD V PENRITH CITY COUNCIL [2023] NSWLEC 1094 JUDGEMENT

Clause 8.2 of the PLEP operates to set a jurisdictional precondition to the grant 204 of development consent insofar as development consent is not to be granted to development on specified land if a specified jurisdictional fact is established (Toga, at [37]).

Subclause (3) operates to set a jurisdictional precondition to the grant of development consent. It is a negative rather than a positive jurisdictional precondition. Development consent is not to be granted to development on specified land if a specified jurisdictional fact is established. The specified land is "land to which this Part applies". This land is land identified as Penrith City Centre on the Clause Application Map. The specified jurisdictional fact is that development on this specified land "would result in overshadowing of public open space to a greater degree than would result from adherence to the controls indicated for the land on the Height of Buildings Map."

Strict compliance with the standard at cl 8.2 is unnecessary in this case when 229 regard is had to the objectives of cl 4.3, and to cl 8.7 which seeks greater density and height that necessarily produces longer shadows. In general terms, the written request sets out five grounds as to why strict compliance is unreasonable or unnecessary:

(1)The purpose of the standard is to protect public open space within the Penrith City Centre from overshadowing. Penrith City Centre contains a number of areas of public open space and the proposal impacts a small parcel of land outside the Penrith City Centre, to a limited area, for a limited part of the day, on around 40% of the days of the year (notwithstanding the figure of 53% at [221]).

(2) The development has been designed to follow the setback controls applying to a key site, which concentrates the building mass in a podium and single tower that is intended to limit the footprint of the building on the site, reduce the breadth of shadow impact to residences on the southern side of Union Lane, and express the gross floor area in a tall slender tower. As a nominated key site, the bulk and scale of the development is intentionally to be distinct to surrounding development, and the proposal meets the bulk and scaled intended by the control.

(3) The density and height are consistent with the character sought for the locality and has been guided by a Design Integrity process that has included design experts representation from the Government Architect NSW, Penrith City Council and the Applicant. The proposal represents a high quality outcome, confirmed through the Design Integrity process.

(4) The overall design scheme, bulk, scale and height of the development is compatible with the intended character sought through the provisions for Key Sites that increase the FSR for the site and removes the applicable height control, that has led to a single tall tower with a narrow and fast moving shadow.

(5) The built form, including its departure from the sun access control, is compatible with the desired role of the site in the Penrith CBD as a Key Site.

264 I accept the statement made by the written request that beyond the contravention of cl 8.2, no material adverse environmental impacts arise from the single, taller tower on the site.

However, as the written request fails to establish grounds on which compliance 265 with the control at cl 8.2 are unreasonable or unnecessary, it is the impact caused by the breach of cl 8.2 that is the subject of the written request, and it cannot be said that an absence of other impacts, beyond the impact the subject of the breach, are environmental planning grounds sufficient to justify the contravention.

Accordingly, the Court is unable to uphold the written request. As such, the 269 power to grant consent is not enlivened.

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