



309 KING STREET NEWCASTLE

COUNCIL RFI - SOLAR

25 JUNE 2025



Fender Katsalidis acknowledges the Traditional Custodians of the land on which we operate, live and gather. We recognise their continuing connection to land, water and community. We pay respect to Elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples today.



Rob Mirams
Partner



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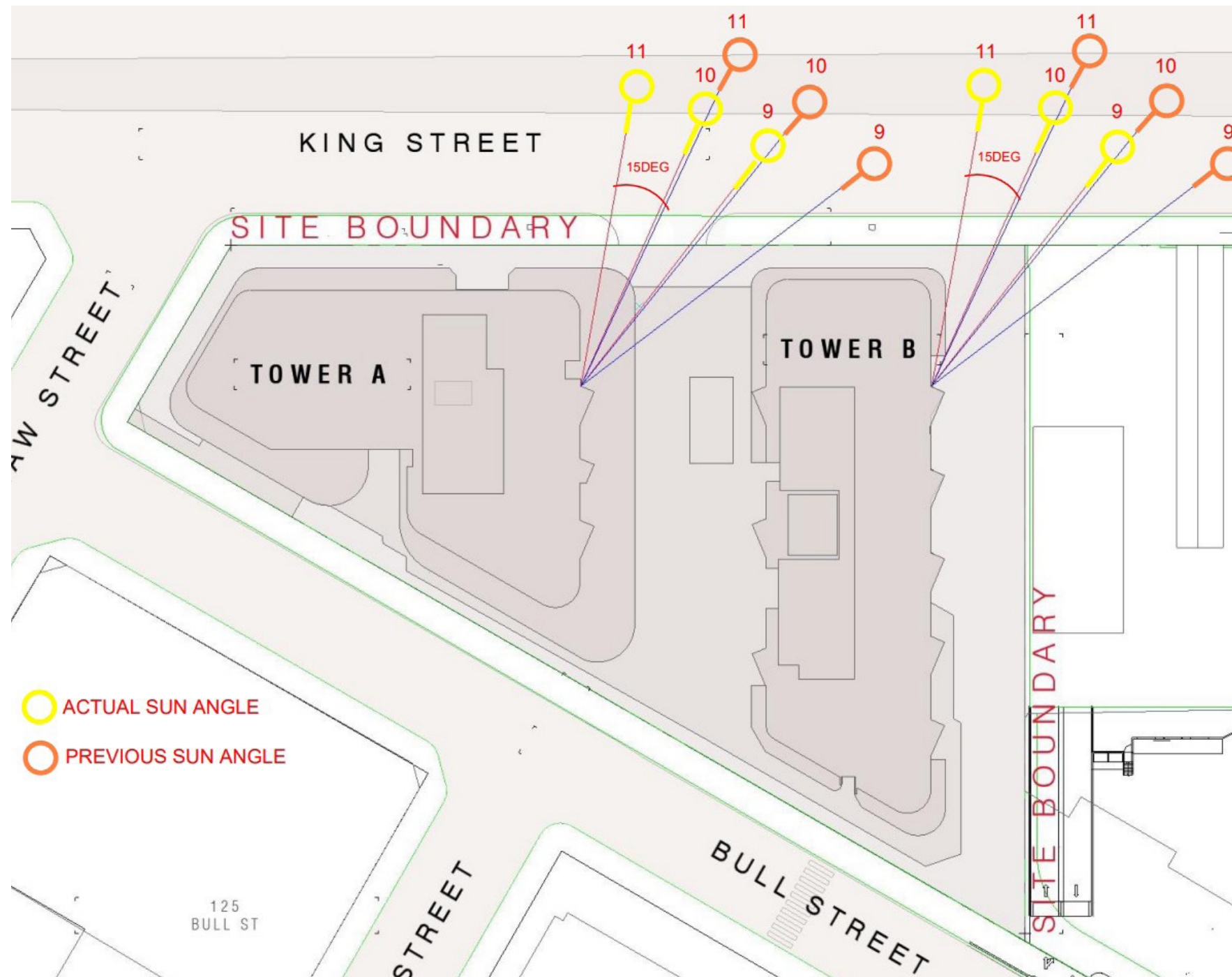
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6

**SOLAR ACCESS
ANALYSIS MOD 2
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FK STATEMENT

FK STATEMENT



Explanation of variance in Solar Analysis

In May 2025 when converting sun-eye view diagrams to REVIT in response to a Newcastle Council RFI dated 6th March 2025, it was discovered that the previously issued sun-eye view diagrams, created in ArchiCAD were not matching the new diagrams. A forensic review of the ArchiCAD files, dating back to 2018 and the original DA Approval, revealed that the previously documented sun-eye view was set up incorrectly, using the wrong solar angles for a site located in Newcastle. The resultant error is a 15 degree shift in the angle of the sun, rotating anti-clockwise around the site, therefore reducing the available morning sun by approximately 1 hour.

Why completing solar analysis using 3D modelling of solar projection is more accurate than visual assessment of sun eye view diagrams:

The ADG provides for two alternative ways to assess solar access. One method is to assess 'the quantity of direct sunlight within the living room or private open space can be demonstrated, where required, on a vertical plane using the view from the sun technique'. The second method is to assess if a minimum of 1m² of direct sunlight, measured at 1m above floor level is provided within living rooms and private open spaces, this assessment is done by modelling actual sunlight projecting into apartments, onto the 1m plane.

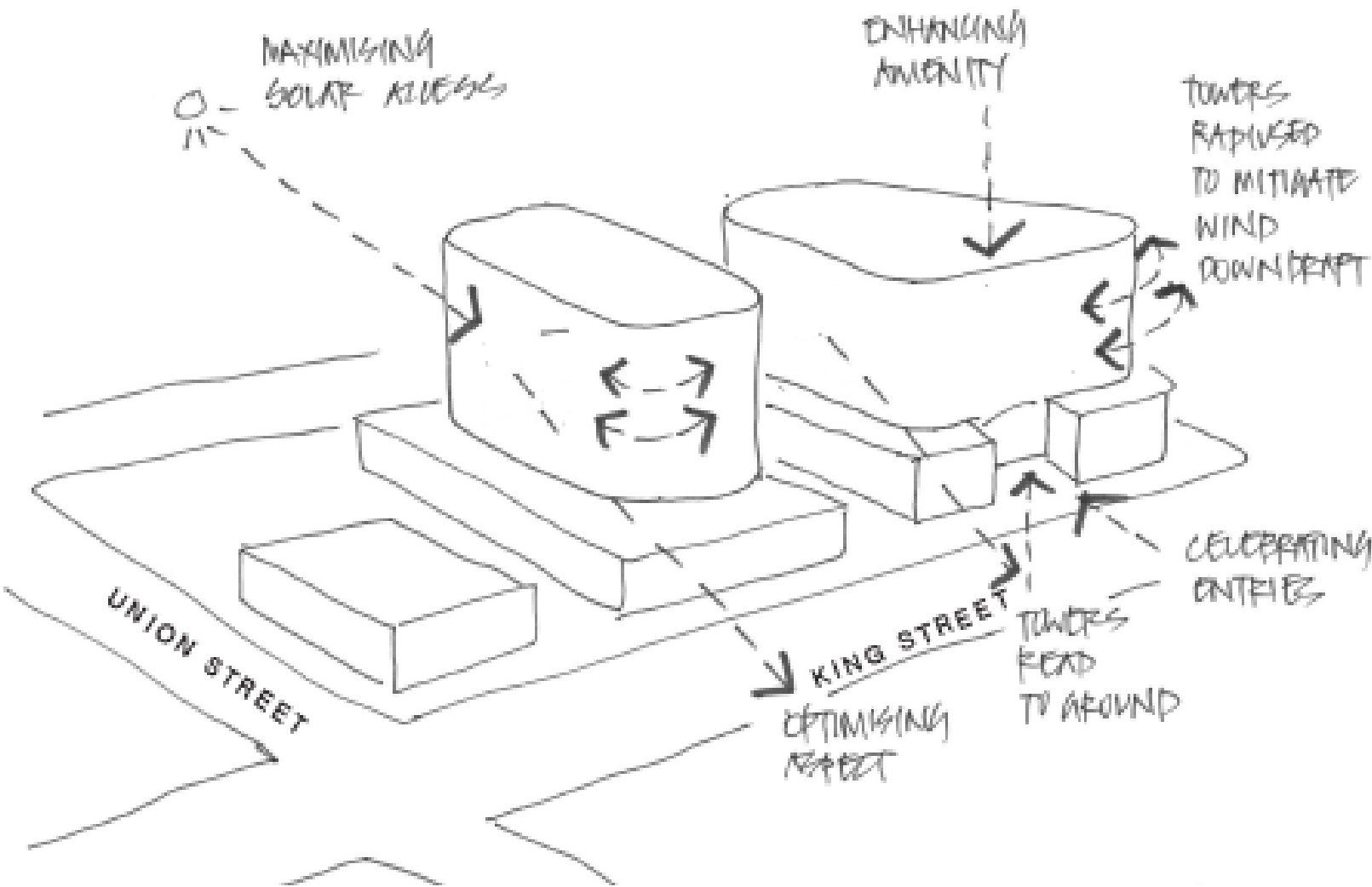
While sun-eye view analysis provides a useful visual indication of solar access to building façades, it does not directly reflect the specific ADG requirement, which measures sunlight on a horizontal surface located 1 metre above the floor level within an apartment's living area. As such, there can be differences between the sunlight observed on vertical façades and the actual internal floor plane.

To more precisely assess ADG compliance, we have modelled sunlight projection onto a 1m high plane within the living areas using a 3D model. This method has been used to evaluate the performance of the ERA project. We believe this is more reliable and aligns with ADG requirements compared to reliance solely on sun-eye diagrams.

Relying on a visual assessment of sun eye diagrams may also be less accurate due to the resolution of the diagrams. Where PDF quality is not good, linework can become unclear when zooming into specific areas of the facade on a computer screen. This can lead to a less accurate result.

CONCEPTUAL MASSING DIAGRAM

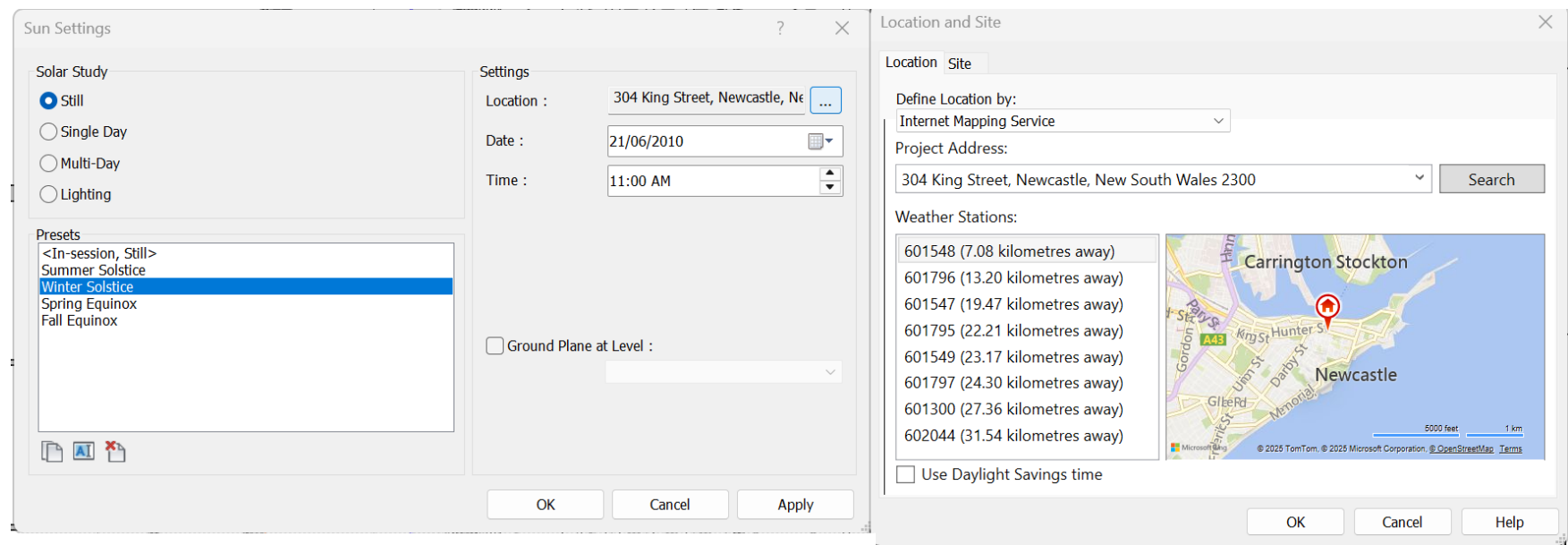
EXPRESSION SMOOTHED COHESIVENESS



This diagram illustrates how architectural massing at concept design stage considered orientation to local streets, the relationship of the towers to street level experience, enhancement of amenity, protection from winds and solar access.

SOLAR ANALYSIS METHODOLOGY

SOLAR ANALYSIS METHODOLOGY

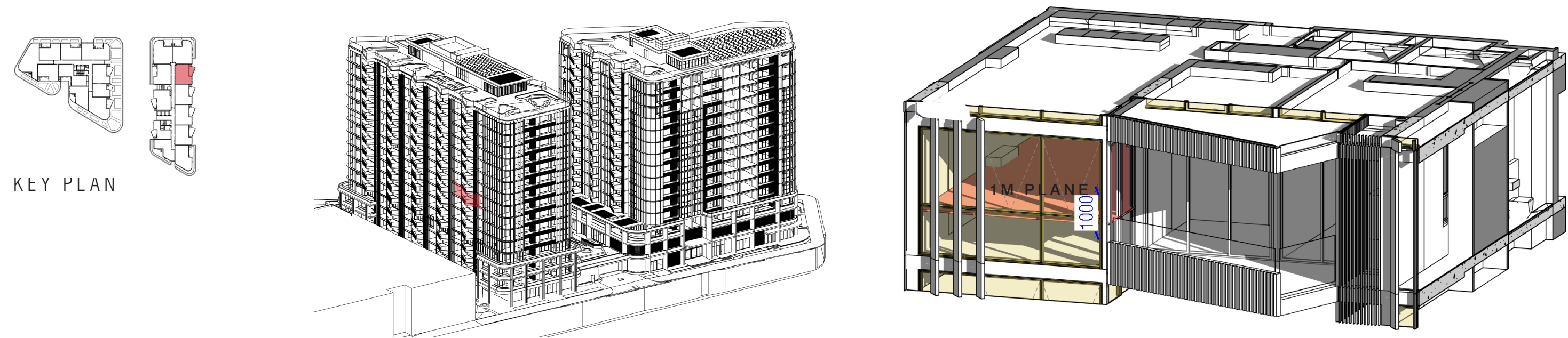


Methodology:

FK has conducted a daylight analysis of the living rooms and private open spaces in accordance with the ADG requirements. The assessment was carried out using CAD software accurately set to the correct coordinates and winter solstice conditions. The objective was to demonstrate that a minimum of 1sqm of direct sunlight is received at 1 metre above floor level for at least 15 minutes.

The initial analysis was supported by a 3D sun-eye view, followed by a more detailed examination of daylight access within individual apartments, as illustrated in the accompanying diagrams.

CONSTRAINS FROM THE CAD PROGRAM



3D SUN EYE VIEW

IN DEPTH APARTMENT ANALYSIS

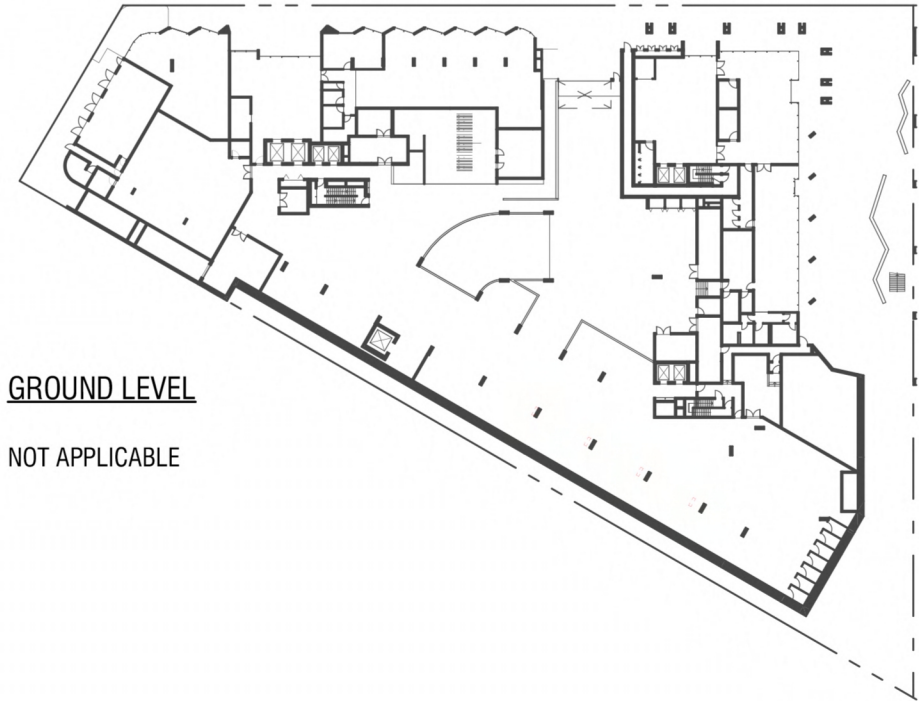
1

**SOLAR ACCESS ANALYSIS
ORIGINAL DA - LIVING AREA**

QA METRICS

GROUND LEVEL

NOT APPLICABLE



LEVEL 1

RAC

Not Applicable

PODIUM RESIDENTIAL APARTMENTS - 21

- 4** > 2 hrs Solar Access
- 8** 1 hr 45min Solar Access
- 4** 1 hr 30min Solar Access
- 5** < 1 hr 30min Solar Access
- 0** 0 hrs Solar Access



LEVEL 2

RAC

Not Applicable

PODIUM RESIDENTIAL APARTMENTS - 24

- 4** > 2 hrs Solar Access
- 11** 1 hr 45min Solar Access
- 1** 1 hr 30min Solar Access
- 6** < 1 hr 30min Solar Access
- 2** 0 hrs Solar Access



LEVEL 3

RAC

Not Applicable

PODIUM RESIDENTIAL APARTMENTS - 24

- 4** > 2 hrs Solar Access
- 11** 1 hr 45min Solar Access
- 1** 1 hr 30min Solar Access
- 6** < 1 hr 30min Solar Access
- 2** 0 hrs Solar Access



LEVEL 4

RAC

Not Applicable

TOWER RESIDENTIAL APARTMENTS - 11

- 2** > 2 hrs Solar Access
- 7** 1 hr 45min Solar Access
- 0** 1 hr 30min Solar Access
- 1** < 1 hr 30min Solar Access
- 1** 0 hrs Solar Access



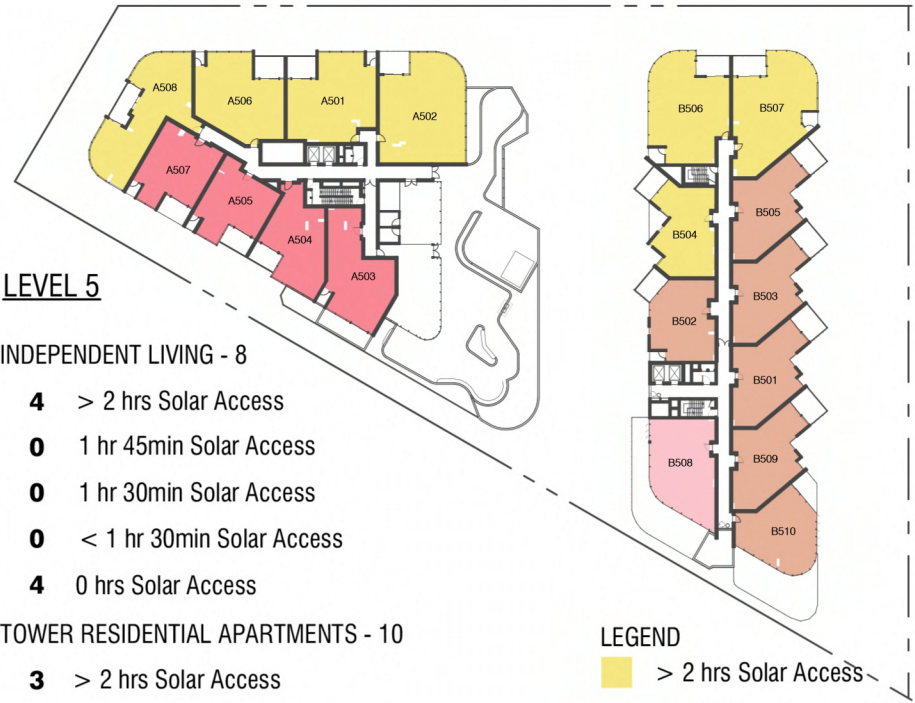
LEVEL 5

INDEPENDENT LIVING - 8

- 4** > 2 hrs Solar Access
- 0** 1 hr 45min Solar Access
- 0** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 4** 0 hrs Solar Access

TOWER RESIDENTIAL APARTMENTS - 10

- 3** > 2 hrs Solar Access
- 6** 1 hr 45min Solar Access
- 1** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 0** 0 hrs Solar Access



LEGEND

- > 2 hrs Solar Access
- 1 hr 45min Solar Access
- 1 hr 30min Solar Access
- < 1 hr 30min Solar Access
- 0 hrs Solar Access

ORIGINAL DA

PRELIMINARY FOR DISCUSSION ONLY

Q A METRICS

LEVEL 6

- INDEPENDENT LIVING - 10
- 4 > 2 hrs Solar Access
 - 2 1 hr 45min Solar Access
 - 0 1 hr 30min Solar Access
 - 0 < 1 hr 30min Solar Access
 - 4 0 hrs Solar Access
- TOWER RESIDENTIAL APARTMENTS - 10
- 3 > 2 hrs Solar Access
 - 6 1 hr 45min Solar Access
 - 1 1 hr 30min Solar Access
 - 0 < 1 hr 30min Solar Access
 - 0 0 hrs Solar Access

LEVEL 7

- INDEPENDENT LIVING - 10
- 4 > 2 hrs Solar Access
 - 2 1 hr 45min Solar Access
 - 0 1 hr 30min Solar Access
 - 0 < 1 hr 30min Solar Access
 - 4 0 hrs Solar Access
- TOWER RESIDENTIAL APARTMENTS - 10
- 3 > 2 hrs Solar Access
 - 7 1 hr 45min Solar Access
 - 0 1 hr 30min Solar Access
 - 0 < 1 hr 30min Solar Access
 - 0 0 hrs Solar Access

LEVEL 8

- INDEPENDENT LIVING - 10
- 4 > 2 hrs Solar Access
 - 2 1 hr 45min Solar Access
 - 0 1 hr 30min Solar Access
 - 0 < 1 hr 30min Solar Access
 - 4 0 hrs Solar Access
- TOWER RESIDENTIAL APARTMENTS - 10
- 3 > 2 hrs Solar Access
 - 7 1 hr 45min Solar Access
 - 0 1 hr 30min Solar Access
 - 0 < 1 hr 30min Solar Access
 - 0 0 hrs Solar Access

LEVEL 9

- INDEPENDENT LIVING - 10
- 4 > 2 hrs Solar Access
 - 2 1 hr 45min Solar Access
 - 0 1 hr 30min Solar Access
 - 0 < 1 hr 30min Solar Access
 - 4 0 hrs Solar Access
- TOWER RESIDENTIAL APARTMENTS - 10
- 5 > 2 hrs Solar Access
 - 5 1 hr 45min Solar Access
 - 0 1 hr 30min Solar Access
 - 0 < 1 hr 30min Solar Access
 - 0 0 hrs Solar Access

LEVEL 10

- INDEPENDENT LIVING - 10
- 4 > 2 hrs Solar Access
 - 2 1 hr 45min Solar Access
 - 0 1 hr 30min Solar Access
 - 0 < 1 hr 30min Solar Access
 - 4 0 hrs Solar Access
- TOWER RESIDENTIAL APARTMENTS - 10
- 5 > 2 hrs Solar Access
 - 5 1 hr 45min Solar Access
 - 0 1 hr 30min Solar Access
 - 0 < 1 hr 30min Solar Access
 - 0 0 hrs Solar Access

LEVEL 11

- INDEPENDENT LIVING - 10
- 4 > 2 hrs Solar Access
 - 2 1 hr 45min Solar Access
 - 0 1 hr 30min Solar Access
 - 0 < 1 hr 30min Solar Access
 - 4 0 hrs Solar Access
- TOWER RESIDENTIAL APARTMENTS - 10
- 5 > 2 hrs Solar Access
 - 5 1 hr 45min Solar Access
 - 0 1 hr 30min Solar Access
 - 0 < 1 hr 30min Solar Access
 - 0 0 hrs Solar Access

- LEGEND
- > 2 hrs Solar Access
 - 1 hr 45min Solar Access
 - 1 hr 30min Solar Access
 - < 1 hr 30min Solar Access
 - 0 hrs Solar Access

ORIGINAL DA

PRELIMINARY FOR DISCUSSION ONLY

PROJECT
Wests Newcastle

DRAWING TITLE
SOLAR ACCESS DIAGRAMS -
APARTMENTS

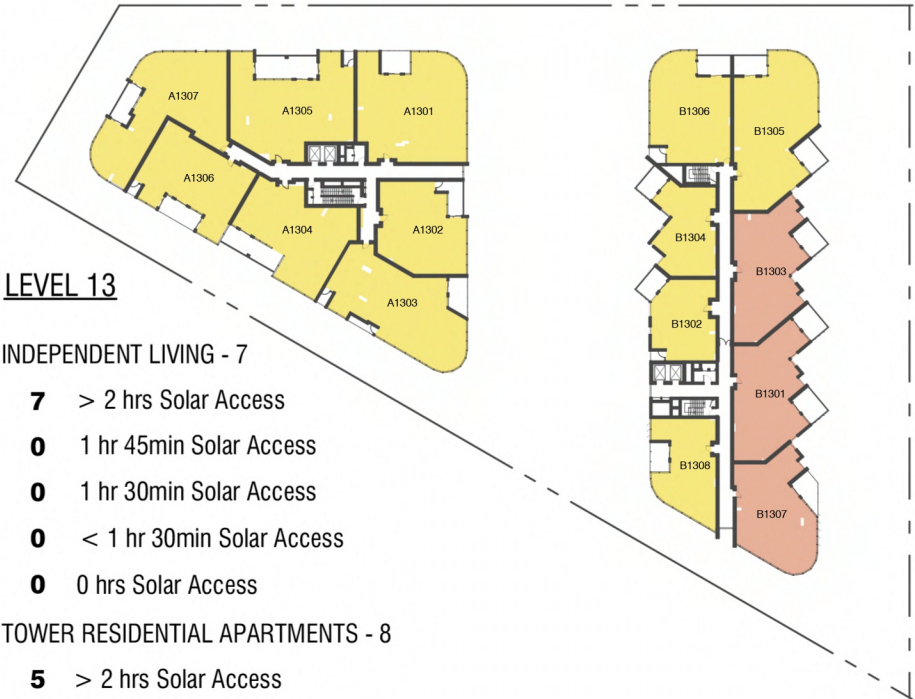
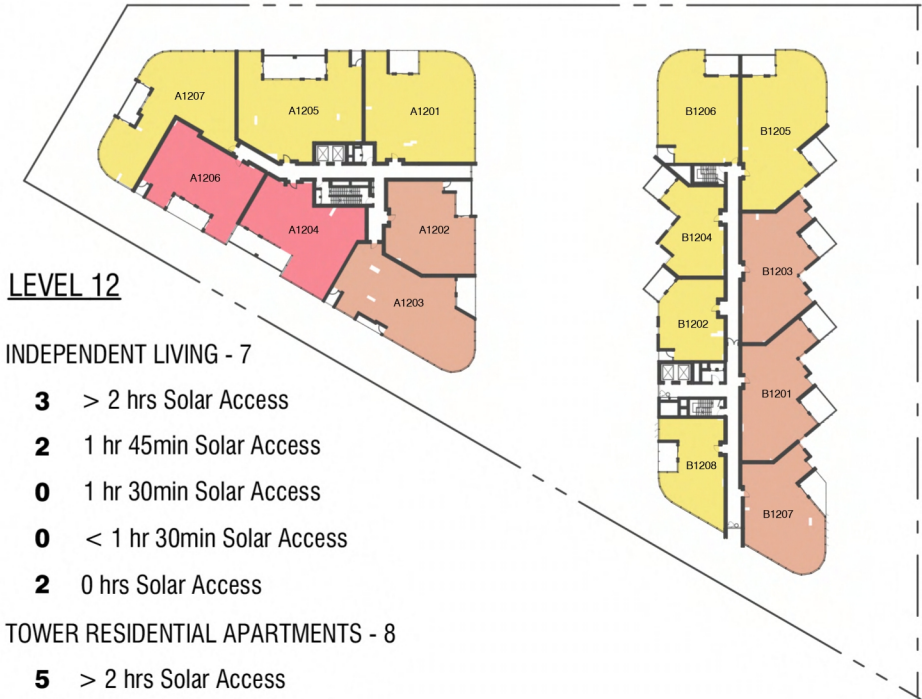
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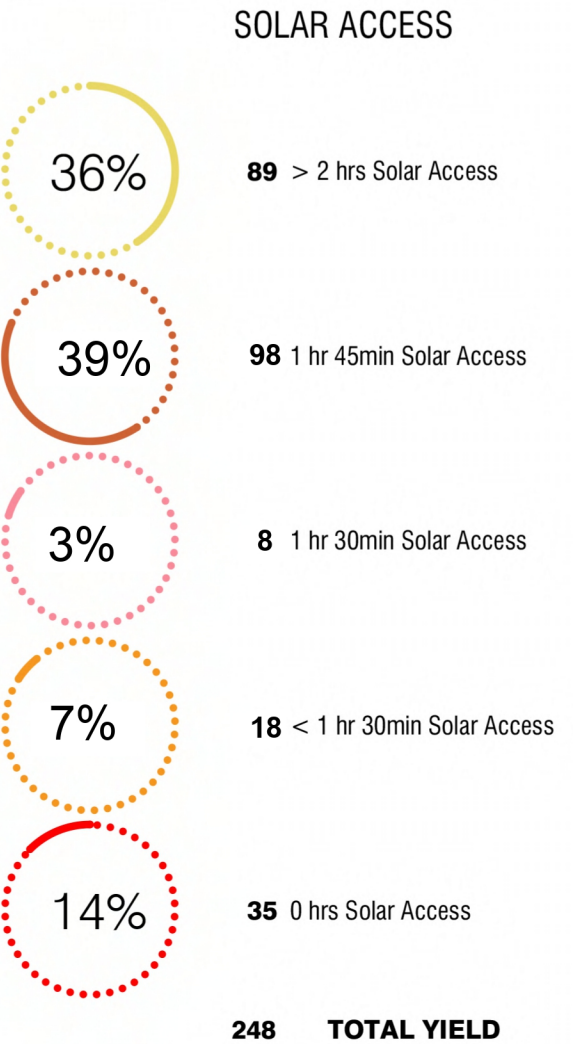
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QA METRICS



SUMMARY



LEGEND

- > 2 hrs Solar Access
- 1 hr 45min Solar Access
- 1 hr 30min Solar Access
- < 1 hr 30min Solar Access
- 0 hrs Solar Access

ORIGINAL DA

PRELIMINARY FOR DISCUSSION ONLY

PROJECT
Westis Newcastle

DRAWING TITLE
SOLAR ACCESS DIAGRAMS -
APARTMENTS

SCALE
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DATE
4/06/2025

DRAWING NUMBER
SK-250608A.3



2

SOLAR ACCESS ANALYSIS MOD 1 - LIVING AREA

LEVEL GROUND

PODIUM A - COMMERCIAL / RETAIL / MEDICAL
Not Applicable building class 6 and 9a

LEVEL 1

TOWER A - 4 INDEPENDENT LIVING UNITS
Not Applicable

PODIUM B - 9 RESIDENTIAL APARTMENTS

- 2** > 2 hrs Solar Access
- 0** 1hr 45min Solar Access
- 5** 1hr 30min Solar Access
- 1** < 1hr 30min Solar Access
- 1** 0 hrs Solar Access

LEVEL 2

PODIUM A - RAC
Not Applicable

TOWER B - 11 RESIDENTIAL APARTMENTS

- 2** > 2 hrs Solar Access
- 0** 1hr 45min Solar Access
- 6** 1hr 30min Solar Access
- 2** < 1hr 30min Solar Access
- 1** 0 hrs Solar Access

LEVEL 3

PODIUM A - RAC
Not Applicable

TOWER B - 11 RESIDENTIAL APARTMENTS

- 2** > 2 hrs Solar Access
- 0** 1hr 45min Solar Access
- 7** 1hr 30min Solar Access
- 1** < 1hr 30min Solar Access
- 1** 0 hrs Solar Access

LEVEL 4

TOWER A - 11 INDEPENDENT LIVING UNITS

- 6** > 2 hrs Solar Access
- 1** 1hr 45min Solar Access
- 1** 1hr 30min Solar Access
- 0** < 1hr 30min Solar Access
- 3** 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 4** > 2 hrs Solar Access
- 0** 1hr 45min Solar Access
- 5** 1hr 30min Solar Access
- 1** < 1hr 30min Solar Access
- 1** 0 hrs Solar Access

LEVEL 5

TOWER A - 11 INDEPENDENT LIVING UNITS

- 6** > 2 hrs Solar Access
- 1** 1hr 45min Solar Access
- 1** 1hr 30min Solar Access
- 0** < 1hr 30min Solar Access
- 3** 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 4** > 2 hrs Solar Access
- 0** 1hr 45min Solar Access
- 5** 1hr 30min Solar Access
- 1** < 1hr 30min Solar Access
- 1** 0 hrs Solar Access

LEGEND

- > 2 hrs Solar Access
- 1hr 45min Solar Access
- 1hr 30min Solar Access
- < 1hr 30min Solar Access
- 0 hrs Solar Access

MOD 1

PROJECT

DRAWING TITLE
PROPOSED SOLAR ACCESS
DIAGRAMS

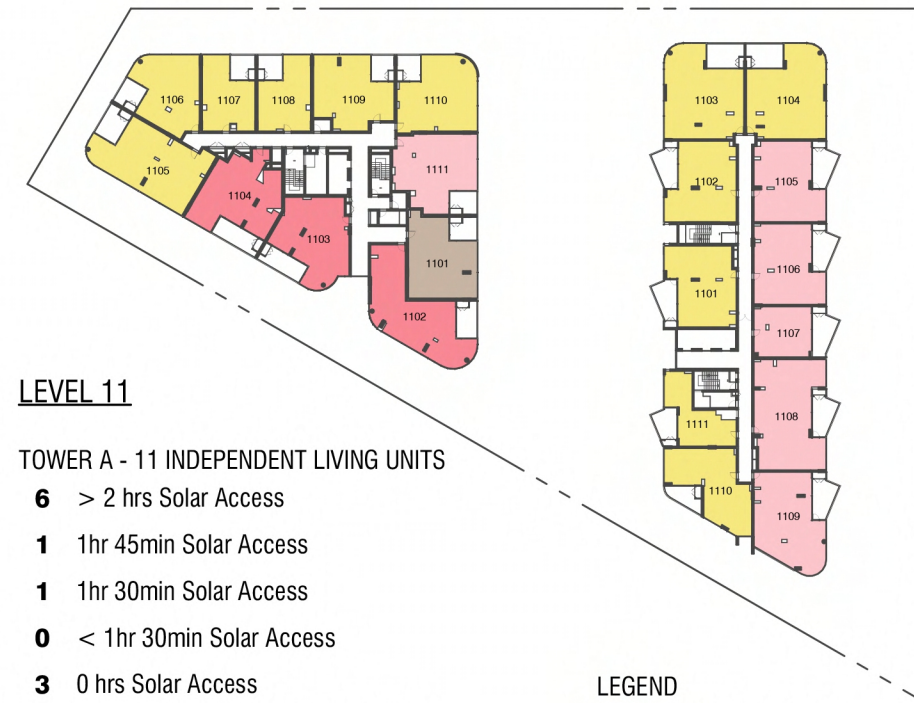
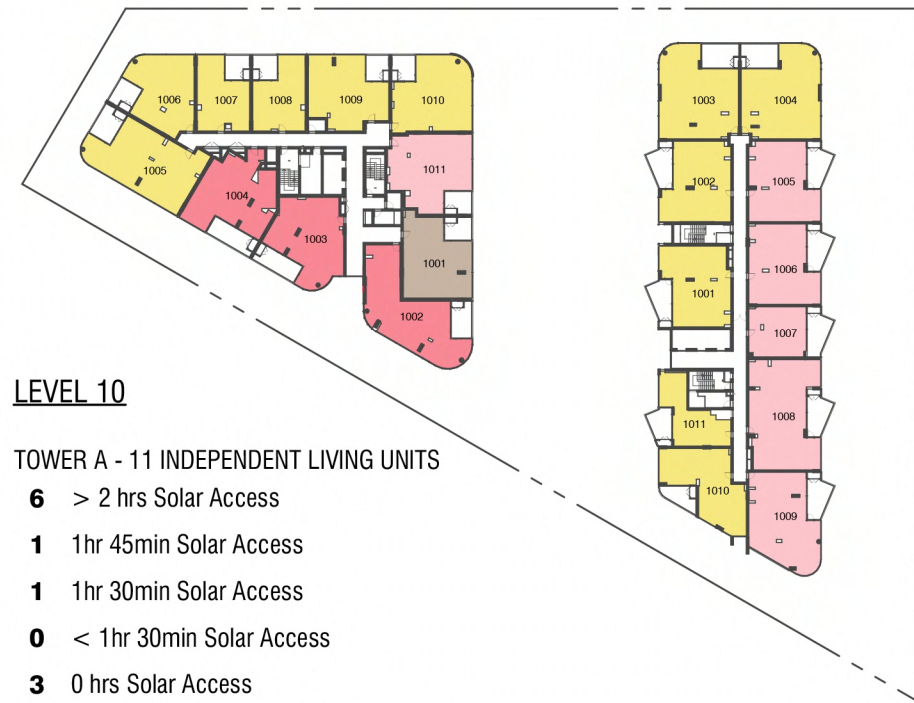
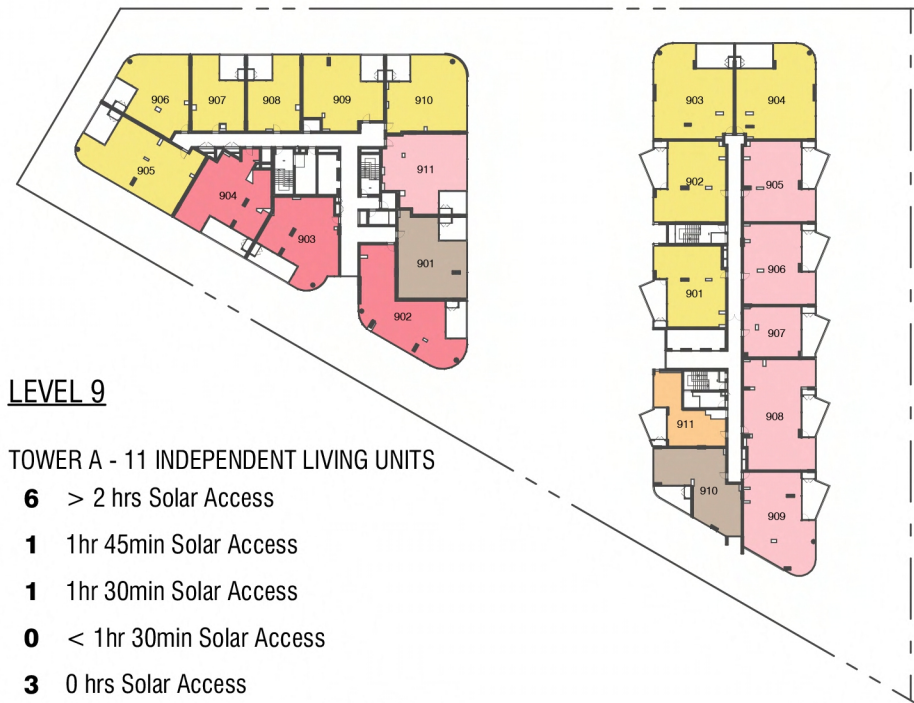
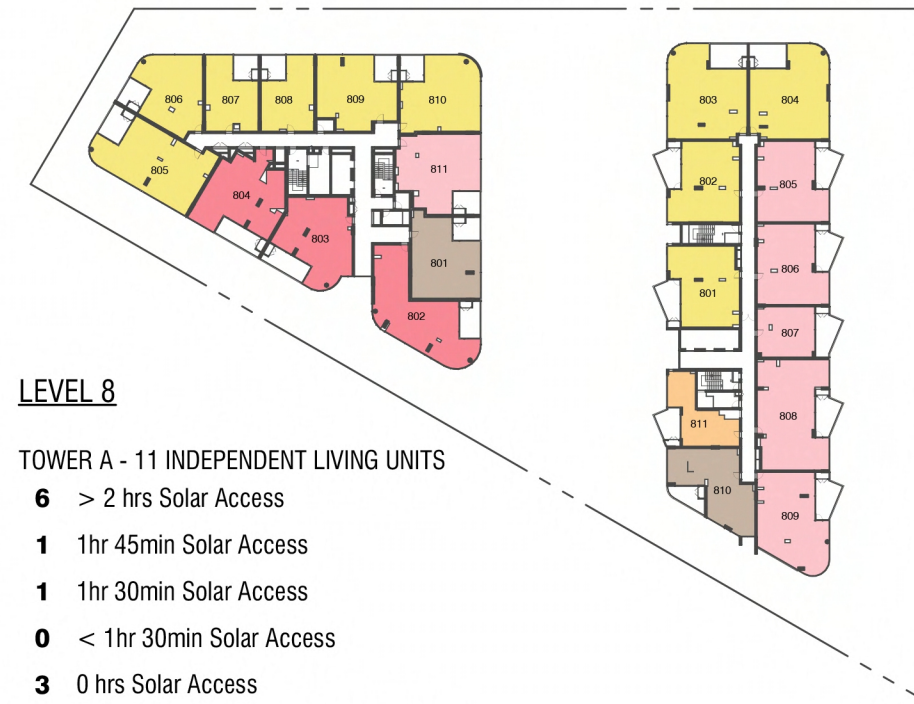
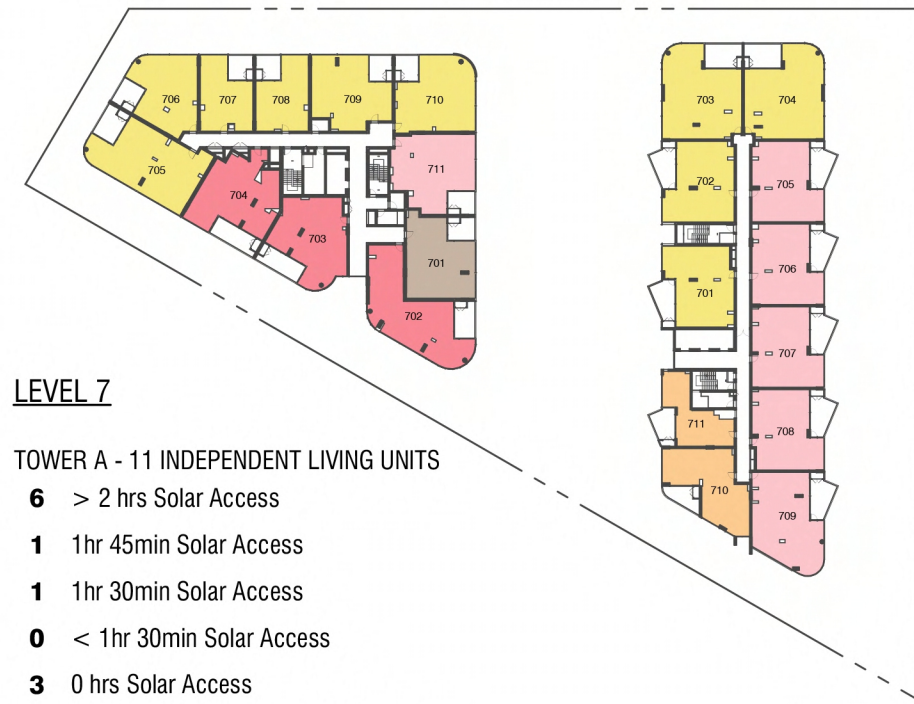
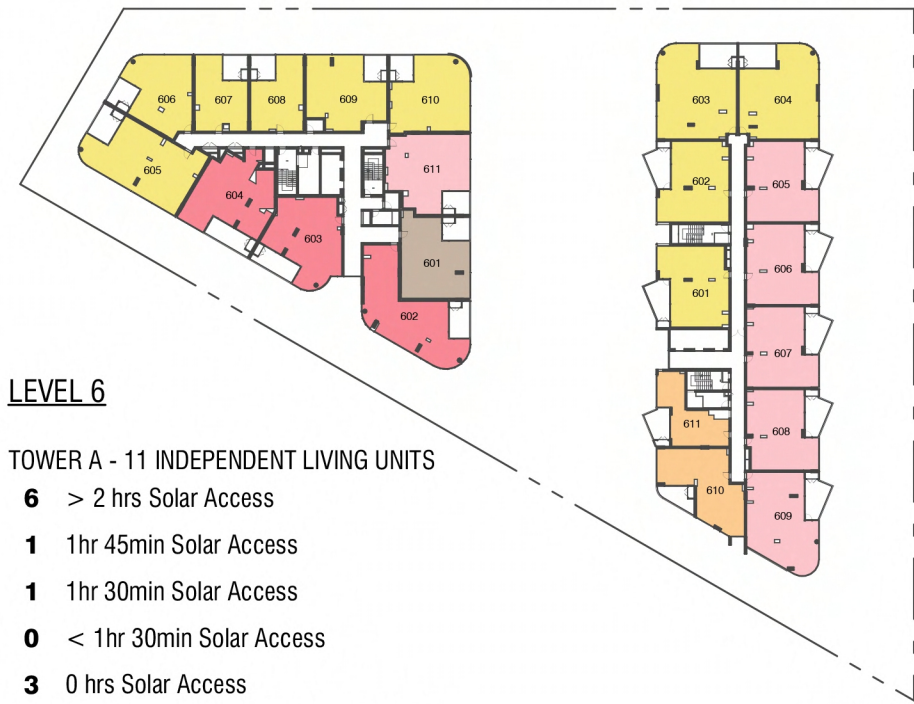


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DATE
5/06/2025

DRAWING NUMBER
DA517





MOD 10

PROJECT

DRAWING TITLE
PROPOSED SOLAR ACCESS
DIAGRAMS



SCALE
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0 M 3 M

DATE
5/06/2025

DRAWING NUMBER
DA518



S U M M A R Y

TOWER A SOLAR ACCESS 107 INDEPENDENT LIVING UNITS

55% 59 > 2 hrs Solar Access

9% 10 1hrs 45mins Solar Access

9% 10 1hrs 30mins Solar Access

0% 0 <1hrs 30mins Solar Access

26% 28 0 hrs Solar Access

TOWER B SOLAR ACCESS 152 RESIDENTIAL APARTMENTS

39% 60 > 2 hrs Solar Access

1% 2 1hrs 45mins Solar Access

47% 72 1hrs 30mins Solar Access

9% 13 <1hrs 30mins Solar Access

3% 5 0 hrs Solar Access

TOTALS SOLAR ACCESS 259 RESIDENTIAL APARTMENTS

46% 119 > 2 hrs Solar Access

4% 12 1hrs 45mins Solar Access

32% 82 1hrs 30mins Solar Access

5% 13 <1hrs 30mins Solar Access

13% 33 0 hrs Solar Access

LEVEL 12

TOWER A - 11 INDEPENDENT LIVING UNITS

- 6 > 2 hrs Solar Access
- 1 1hr 45min Solar Access
- 1 1hr 30min Solar Access
- 0 < 1hr 30min Solar Access
- 3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 6 > 2 hrs Solar Access
- 0 1hr 45min Solar Access
- 5 1hr 30min Solar Access
- 0 < 1hr 30min Solar Access
- 0 0 hrs Solar Access

LEVEL 13

TOWER A - 8 INDEPENDENT LIVING UNITS

- 5 > 2 hrs Solar Access
- 1 1hr 45min Solar Access
- 1 1hr 30min Solar Access
- 0 < 1hr 30min Solar Access
- 1 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 6 > 2 hrs Solar Access
- 0 1hr 45min Solar Access
- 5 1hr 30min Solar Access
- 0 < 1hr 30min Solar Access
- 0 0 hrs Solar Access

LEVEL 14

TOWER A - 8 INDEPENDENT LIVING UNITS

Not Applicable

TOWER B - 11 RESIDENTIAL APARTMENTS

- 6 > 2 hrs Solar Access
- 0 1hr 45min Solar Access
- 5 1hr 30min Solar Access
- 0 < 1hr 30min Solar Access
- 0 0 hrs Solar Access

MOD 1

PROJECT

DRAWING TITLE
PROPOSED SOLAR ACCESS
DIAGRAMS



SCALE
1:200@A3
0 M 3 M

DATE
5/06/2025

DRAWING NUMBER
DA519

LEGEND

- > 2 hrs Solar Access
- 1hr 45min Solar Access
- 1hr 30min Solar Access
- < 1hr 30min Solar Access
- 0 hrs Solar Access



3

SOLAR ACCESS ANALYSIS MOD 2 - LIVING AREA

LEVEL GROUND
PODIUM A - COMMERCIAL / RETAIL
Not Applicable building class 6

LEVEL 3
PODIUM A - 10 RESIDENTIAL APARTMENTS
4 > 2 hr Solar Access
0 1 hr 45min Solar Access
3 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
3 0 hrs Solar Access
TOWER B - 11 RESIDENTIAL APARTMENTS
3 > 2 hr Solar Access
5 1 hr 45min Solar Access
1 1 hr 30min Solar Access
2 < 1 hr 30min Solar Access
0 0 hrs Solar Access

LEVEL 1
TOWER A - 2 RESIDENTIAL APARTMENTS
0 > 2 hr Solar Access
0 1 hr 45min Solar Access
0 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
2 0 hrs Solar Access
PODIUM B - 8 RESIDENTIAL APARTMENTS
2 > 2 hr Solar Access
0 1 hr 45min Solar Access
0 1 hr 30min Solar Access
6 < 1 hr 30min Solar Access
0 0 hrs Solar Access

LEVEL 4
TOWER A - 10 RESIDENTIAL APARTMENTS
4 > 2 hr Solar Access
0 1 hr 45min Solar Access
3 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
3 0 hrs Solar Access
TOWER B - 11 RESIDENTIAL APARTMENTS
3 > 2 hr Solar Access
5 1 hr 45min Solar Access
1 1 hr 30min Solar Access
2 < 1 hr 30min Solar Access
0 0 hrs Solar Access

LEVEL 2
PODIUM A - 10 RESIDENTIAL APARTMENTS
4 > 2 hr Solar Access
0 1 hr 45min Solar Access
3 1 hr 30min Solar Access
3 < 1 hr 30min Solar Access
0 0 hrs Solar Access
TOWER B - 11 RESIDENTIAL APARTMENTS
2 > 2 hr Solar Access
4 1 hr 45min Solar Access
2 1 hr 30min Solar Access
3 < 1 hr 30min Solar Access
0 0 hrs Solar Access

LEVEL 5
TOWER A - 10 RESIDENTIAL APARTMENTS
4 > 2 hr Solar Access
0 1 hr 45min Solar Access
3 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
3 0 hrs Solar Access
TOWER B - 11 RESIDENTIAL APARTMENTS
3 > 2 hr Solar Access
5 1 hr 45min Solar Access
1 1 hr 30min Solar Access
2 < 1 hr 30min Solar Access
0 0 hrs Solar Access

LEGEND
Yellow > 2 hrs Solar Access
Brown 1 hr 45min Solar Access
Pink 1 hr 30min Solar Access
Orange < 1 hr 30min Solar Access
Red 0 hrs Solar Access

REVISION			REVISION		
01	GFA CALCULATIONS	BB 29.08.2018	09	SECTION 4.55 APPLICATION SUBMISSION	RL 06.06.2023
02	DEVELOPMENT APPLICATION FOR COUNCIL	BB 19.08.2019	10	SECTION 4.55 RFI SUBMISSION	TA 19.08.2019
03	FOR COUNCIL DISCUSSION	PM 28.11.2022	11	DEVELOPMENT APPLICATION	TA 16.10.2024
04	CONCEPT DESIGN ISSUE	RAS 03.02.2023	12	UDRP AND COUNCIL RFI AMENDMENT ISSUE	TF 21.03.2025
05	TOWER B - SCHEMATIC DESIGN	AR 03.03.2023	13	COUNCIL RFI 2	FK 24.04.2025
06	ISSUE FOR REVIEW	RAS 06.04.2023			
07	TOWER A AND B SCHEMATIC DESIGN	PM 17.05.2023			
08	TOWER A AND B SCHEMATIC DESIGN	TF 03.03.2023			

MOD 2

QUALITY ASSURANCE (FK IS A CERTIFIED COMPANY TO ISO 9001:2015)
THIS PROJECT IS SUBJECT TO THE FK QUALITY ASSURANCE SYSTEM
SCHEMATIC DESIGN REVIEW FOR THIS PROJECT IS YET TO BE COMPLETED.
DESIGN DEVELOPMENT REVIEW FOR THIS PROJECT IS YET TO BE COMPLETED.
TENDER DOCUMENTATION REVIEW FOR THIS PROJECT IS YET TO BE COMPLETED.
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DRAWN	DATE	CHECKED	PLOT DATE	JOB NO.	SCALE
TA	21.03.2025	TF	05.06.2025	22104	1:1000@A3

PROJECT
309 King Street
Newcastle NSW 2302

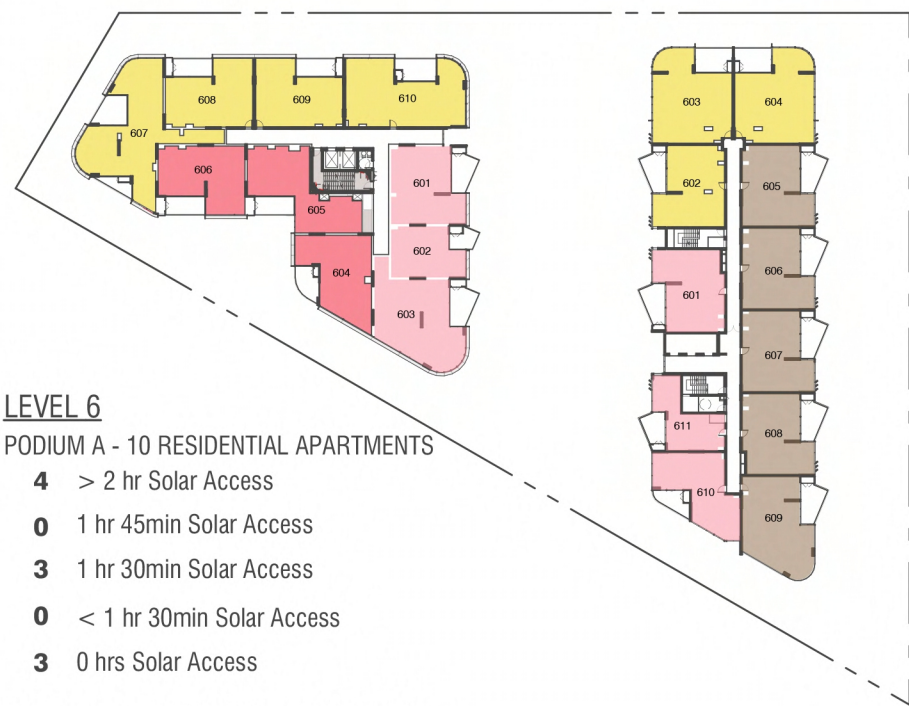
DRAWING TITLE
PROPOSED SOLAR ACCESS DIAGRAMS

FENDER KATSALIDIS
WWW.FKAUSTRALIA.COM
L21, 259 GEORGIE STREET, SYDNEY
NEW SOUTH WALES 2000 AUSTRALIA
TELEPHONE: + 61 2 8216 3500
FENDER KATSALIDIS (AUST) PTY LTD ACN 092 943 032

ISSUE PURPOSE
DEVELOPMENT APPLICATION

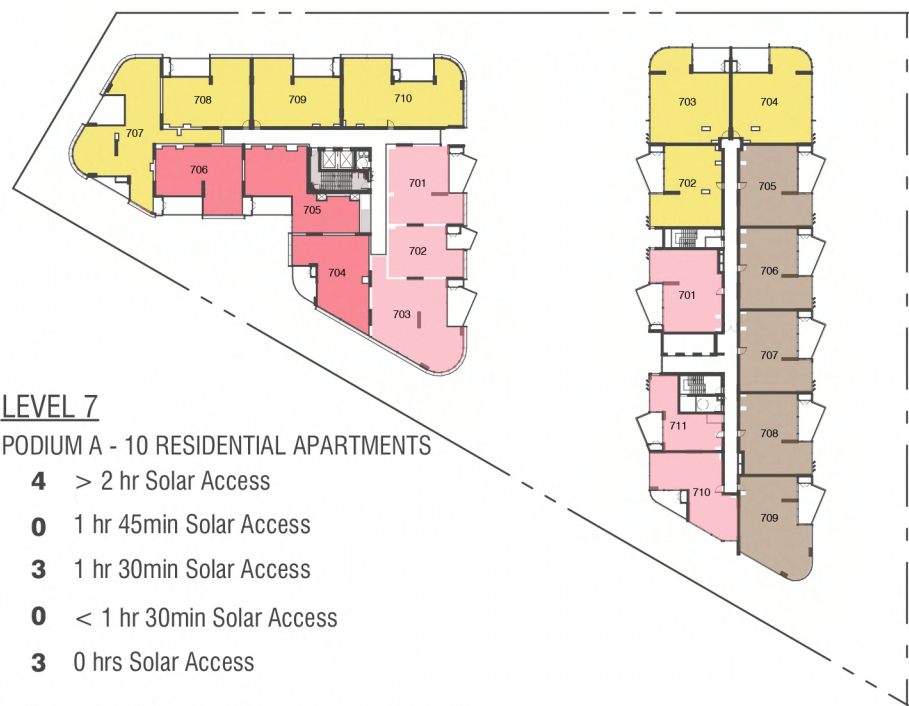
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REV. 13
DRAWING NO. DA516



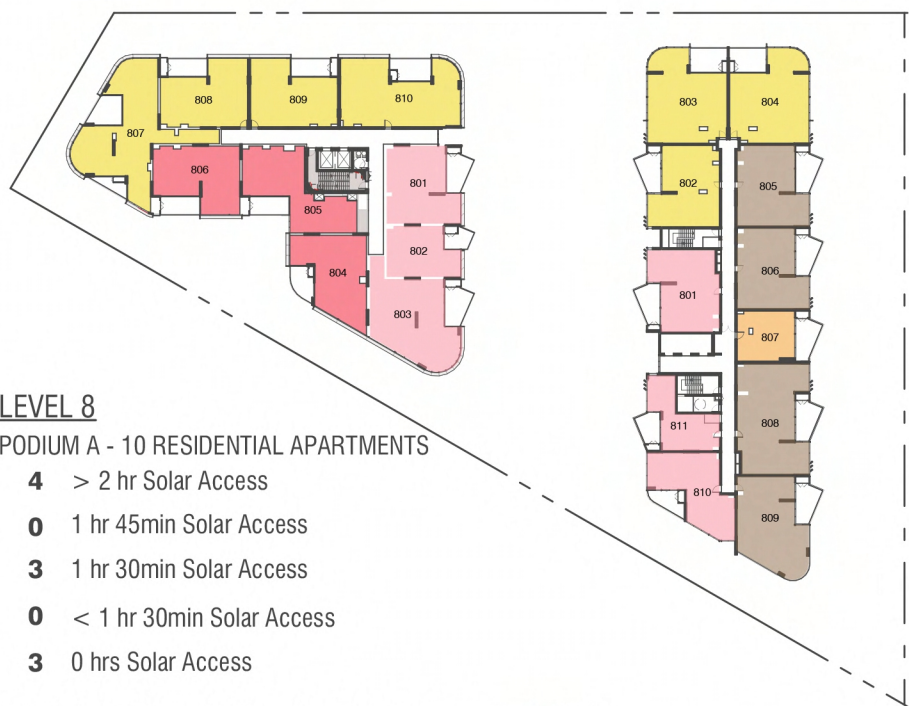
- LEVEL 6**
PODIUM A - 10 RESIDENTIAL APARTMENTS
- 4** > 2 hr Solar Access
 - 0** 1 hr 45min Solar Access
 - 3** 1 hr 30min Solar Access
 - 0** < 1 hr 30min Solar Access
 - 3** 0 hrs Solar Access

- TOWER B - 11 RESIDENTIAL APARTMENTS
- 3** > 2 hr Solar Access
 - 5** 1 hr 45min Solar Access
 - 3** 1 hr 30min Solar Access
 - 0** < 1 hr 30min Solar Access
 - 0** 0 hrs Solar Access



- LEVEL 7**
PODIUM A - 10 RESIDENTIAL APARTMENTS
- 4** > 2 hr Solar Access
 - 0** 1 hr 45min Solar Access
 - 3** 1 hr 30min Solar Access
 - 0** < 1 hr 30min Solar Access
 - 3** 0 hrs Solar Access

- TOWER B - 11 RESIDENTIAL APARTMENTS
- 3** > 2 hr Solar Access
 - 5** 1 hr 45min Solar Access
 - 3** 1 hr 30min Solar Access
 - 0** < 1 hr 30min Solar Access
 - 0** 0 hrs Solar Access

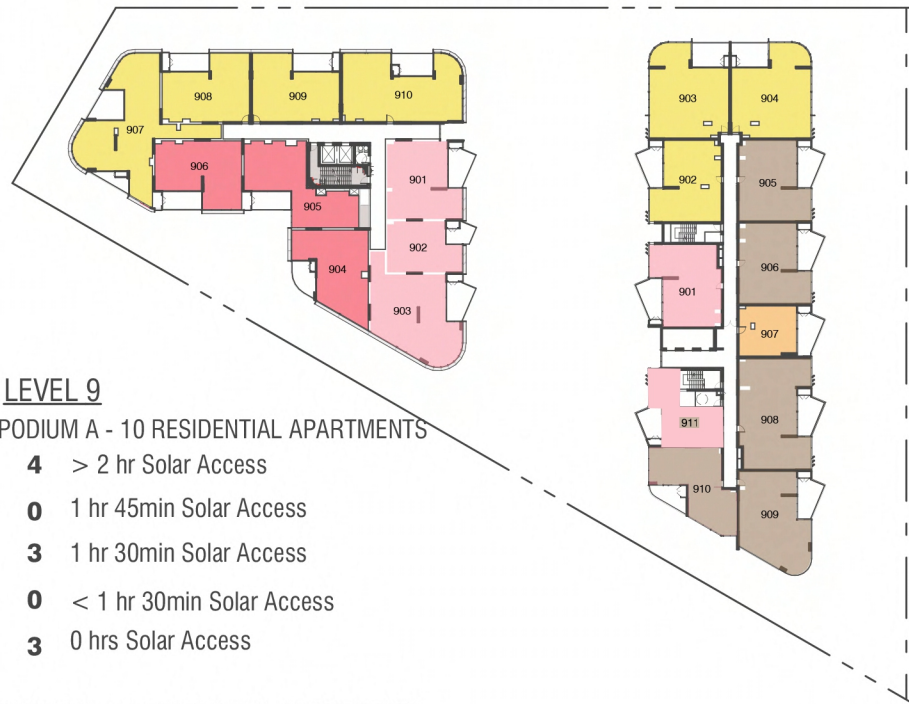


- LEVEL 8**
PODIUM A - 10 RESIDENTIAL APARTMENTS
- 4** > 2 hr Solar Access
 - 0** 1 hr 45min Solar Access
 - 3** 1 hr 30min Solar Access
 - 0** < 1 hr 30min Solar Access
 - 3** 0 hrs Solar Access

- TOWER B - 11 RESIDENTIAL APARTMENTS
- 3** > 2 hr Solar Access
 - 4** 1 hr 45min Solar Access
 - 3** 1 hr 30min Solar Access
 - 1** < 1 hr 30min Solar Access
 - 0** 0 hrs Solar Access

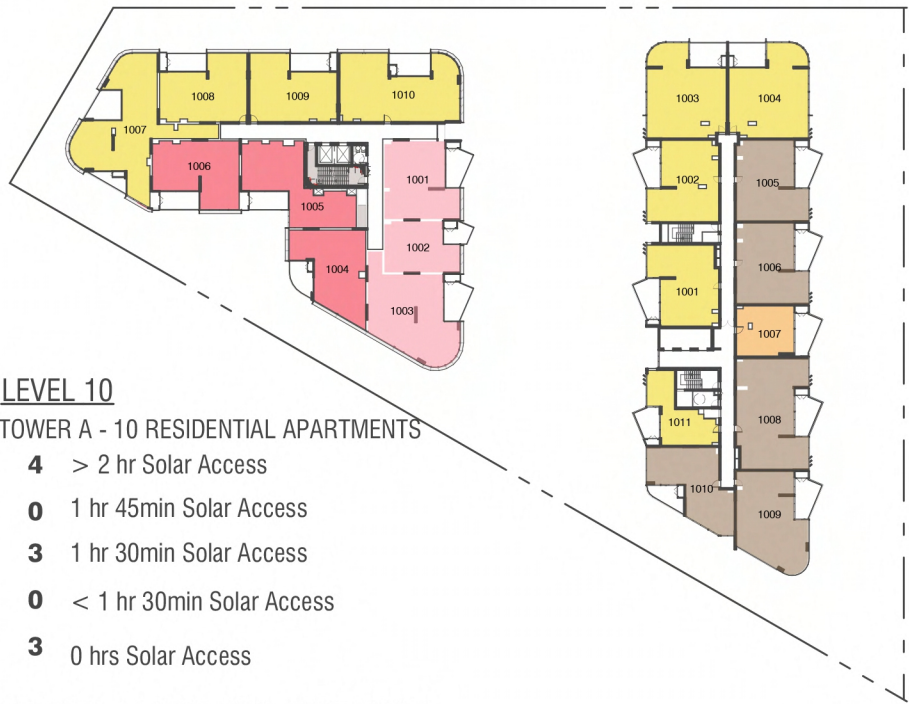
LEGEND

- > 2 hrs Solar Access
- 1 hr 45min Solar Access
- 1 hr 30min Solar Access
- < 1 hr 30min Solar Access
- 0 hrs Solar Access



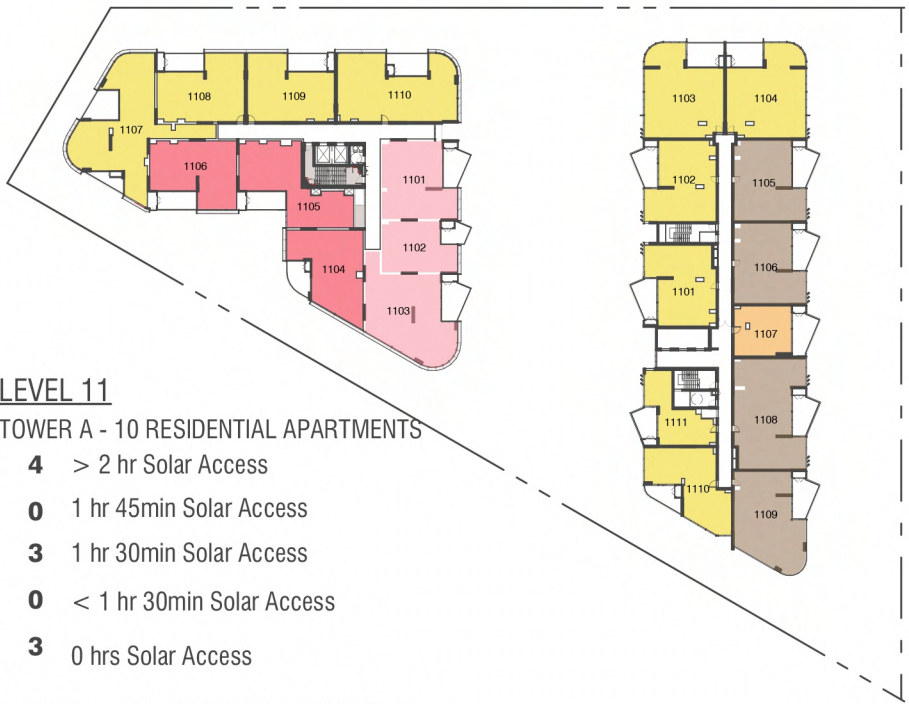
- LEVEL 9**
PODIUM A - 10 RESIDENTIAL APARTMENTS
- 4** > 2 hr Solar Access
 - 0** 1 hr 45min Solar Access
 - 3** 1 hr 30min Solar Access
 - 0** < 1 hr 30min Solar Access
 - 3** 0 hrs Solar Access

- TOWER B - 11 RESIDENTIAL APARTMENTS
- 3** > 2 hr Solar Access
 - 5** 1 hr 45min Solar Access
 - 2** 1 hr 30min Solar Access
 - 1** < 1 hr 30min Solar Access
 - 0** 0 hrs Solar Access



- LEVEL 10**
TOWER A - 10 RESIDENTIAL APARTMENTS
- 4** > 2 hr Solar Access
 - 0** 1 hr 45min Solar Access
 - 3** 1 hr 30min Solar Access
 - 0** < 1 hr 30min Solar Access
 - 3** 0 hrs Solar Access

- TOWER B - 11 RESIDENTIAL APARTMENTS
- 5** > 2 hr Solar Access
 - 5** 1 hr 45min Solar Access
 - 0** 1 hr 30min Solar Access
 - 1** < 1 hr 30min Solar Access
 - 0** 0 hrs Solar Access



- LEVEL 11**
TOWER A - 10 RESIDENTIAL APARTMENTS
- 4** > 2 hr Solar Access
 - 0** 1 hr 45min Solar Access
 - 3** 1 hr 30min Solar Access
 - 0** < 1 hr 30min Solar Access
 - 3** 0 hrs Solar Access

- TOWER B - 11 RESIDENTIAL APARTMENTS
- 6** > 2 hr Solar Access
 - 4** 1 hr 45min Solar Access
 - 0** 1 hr 30min Solar Access
 - 1** < 1 hr 30min Solar Access
 - 0** 0 hrs Solar Access

U:\22104 309 King Street Newcastle (GWH)\Model\SD-TP_DAI\BIM_Arch\Cad\250602_deferred approval CHANGES.pln

REVISION				REVISION			
01	DEVELOPMENT APPLICATION	MP	29.08.2018	09	SECTION 4.55 APPLICATION SUBMISSION	RL	06.06.2023
02	DEVELOPMENT APPLICATION FOR COUNCIL	BB	19.08.2019	10	SECTION 4.55 RFI SUBMISSION	TA	30.11.2023
03	FOR COUNCIL DISCUSSION	PM	28.11.2022	11	SECTION 4.55 RFI SUBMISSION	TA	19.08.2019
04	CONCEPT DESIGN ISSUE	RAS	03.02.2023	12	DEVELOPMENT APPLICATION	TA	16.10.2024
05	TOWER B - SCHEMATIC DESIGN	AR	03.03.2023	13	UDRP AND COUNCIL RFI AMENDMENT ISSUE	TF	21.03.2025
06	ISSUE FOR REVIEW	RAS	06.04.2023	14	COUNCIL RFI 2	FK	24.04.2025
07	TOWER A AND B SCHEMATIC DESIGN	PM	17.05.2023	MOD 2			
08	TOWER A AND B SCHEMATIC DESIGN	TF	03.03.2023				

QUALITY ASSURANCE (FK IS A CERTIFIED COMPANY TO ISO 9001:2015)

THIS PROJECT IS SUBJECT TO THE FK QUALITY ASSURANCE SYSTEM

- ☐ SCHEMATIC DESIGN REVIEW FOR THIS PROJECT IS YET TO BE COMPLETED.
- ☐ DESIGN DEVELOPMENT REVIEW FOR THIS PROJECT IS YET TO BE COMPLETED.
- ☐ TENDER DOCUMENTATION REVIEW FOR THIS PROJECT IS YET TO BE COMPLETED.
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DRAWN	DATE	CHECKED	PLOT DATE	JOB NO.	SCALE
TA	21.03.2025	TF	04.06.2025	22104	1:1000@A3



PROJECT

309 King Street
Newcastle NSW 2302

DRAWING TITLE

PROPOSED SOLAR ACCESS DIAGRAMS

FENDER KATSALIDIS
WWW.FKAUSTRALIA.COM
L21, 259 GEORGE STREET, SYDNEY
NEW SOUTH WALES 2000 AUSTRALIA
TELEPHONE: + 61 2 8216 3500
FENDER KATSALIDIS (AUST) PTY LTD ACN 092 943 032

ISSUE PURPOSE

DEVELOPMENT APPLICATION



DRAWING NO.

14 **DA517**

LEVEL 12

TOWER A - 9 RESIDENTIAL APARTMENTS

- 4 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 3 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 6 > 2 hr Solar Access
- 4 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 1 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

LEVEL 13

TOWER A - 9 RESIDENTIAL APARTMENTS

- 4 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 3 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 6 > 2 hr Solar Access
- 4 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 1 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

SUMMARY

TOWER A SOLAR ACCESS
129 RESIDENTIAL APARTMENTS

- 43% 55 > 2 hrs Solar Access
- 0% 0 1 hr 45min Solar Access
- 28% 36 1 hr 30min Solar Access
- 2% 3 < 1 hr 30min Solar Access
- 27% 35 0 hrs Solar Access

TOWER B SOLAR ACCESS
151 RESIDENTIAL APARTMENTS

- 38% 58 > 2 hrs Solar Access
- 36% 55 1 hr 45min Solar Access
- 11% 16 1 hr 30min Solar Access
- 13% 22 < 1 hr 30min Solar Access
- 0% 0 0 hrs Solar Access

ACROSS BOTH TOWERS SOLAR ACCESS
280 RESIDENTIAL APARTMENTS

- 40% 113 > 2 hrs Solar Access
- 20% 55 1 hr 45min Solar Access
- 18% 52 1 hr 30min Solar Access
- 9 % 25 < 1 hr 30min Solar Access
- 12% 35 0 hrs Solar Access

- LEGEND
- > 2 hrs Solar Access
 - 1 hr 45min Solar Access
 - 1 hr 30min Solar Access
 - < 1 hr 30min Solar Access
 - 0 hrs Solar Access

NOTE:
PERCENTAGES HAVE BEEN ROUNDED TO NEAREST
WHOLE NUMBER, THUS TOTAL RESULTS IN 99%

LEVEL 14

TOWER A - 9 RESIDENTIAL APARTMENTS

- 9 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 11 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 1 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

- LEGEND
- > 2 hrs Solar Access
 - 1 hr 45min Solar Access
 - 1 hr 30min Solar Access
 - < 1 hr 30min Solar Access
 - 0 hrs Solar Access

U:\22104 309 King Street Newcastle (GWH)\Model\SD-TP_DABIM_Arch\Cad\250602_deferred approval CHANGES.pln

REVISION				REVISION			
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07	TOWER A AND B SCHEMATIC DESIGN	PM	17.05.2023				
08	TOWER A AND B SCHEMATIC DESIGN	TF	03.03.2023				

MOD 2

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DRAWN	DATE	CHECKED	PLOT DATE	JOB NO.	SCALE
TA	21.03.2025	TF	05.06.2025	22104	1:1000@A3



PROJECT

309 King Street
Newcastle NSW 2302

DRAWING TITLE

PROPOSED SOLAR ACCESS DIAGRAMS

FENDER KATSAIDIS

WWW.FKAUSTRALIA.COM

L21, 259 GEORGE STREET, SYDNEY
NEW SOUTH WALES 2000 AUSTRALIA

TELEPHONE: +61 2 8216 3500
FENDER KATSAIDIS (AUST) PTY LTD ACN 092 943 032

ISSUE PURPOSE

DEVELOPMENT APPLICATION



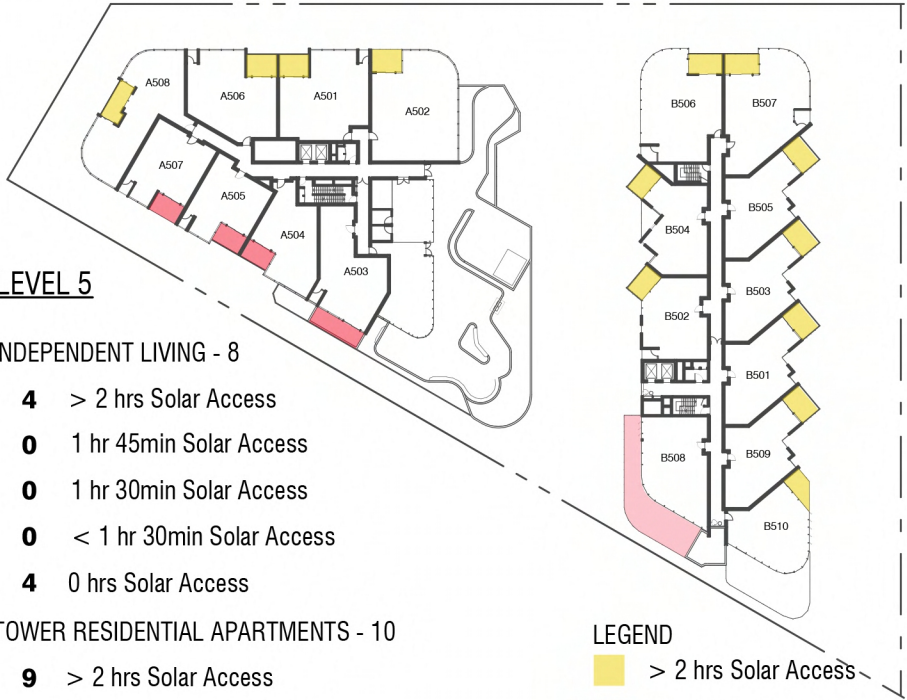
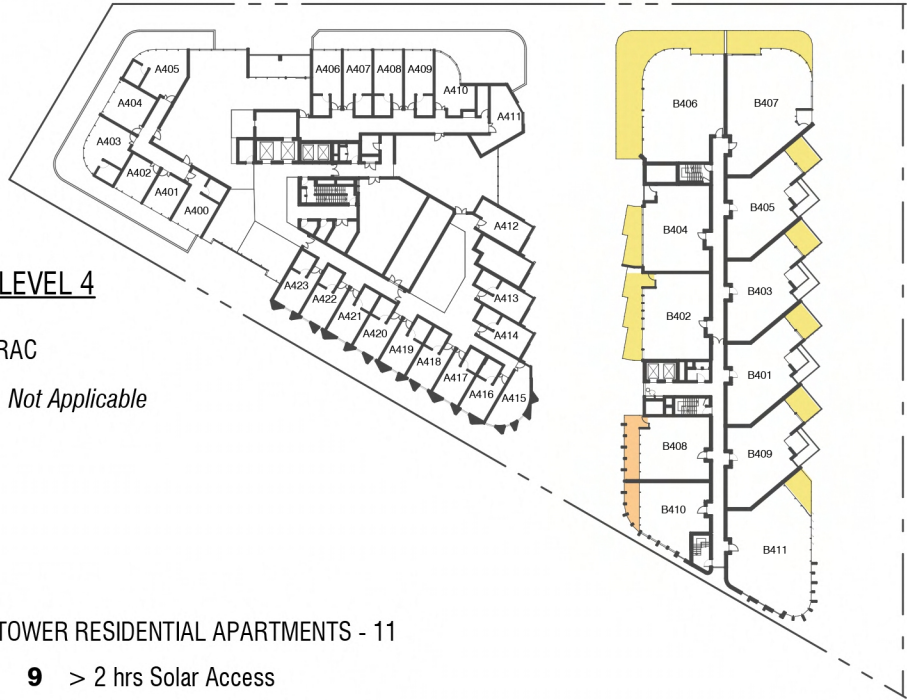
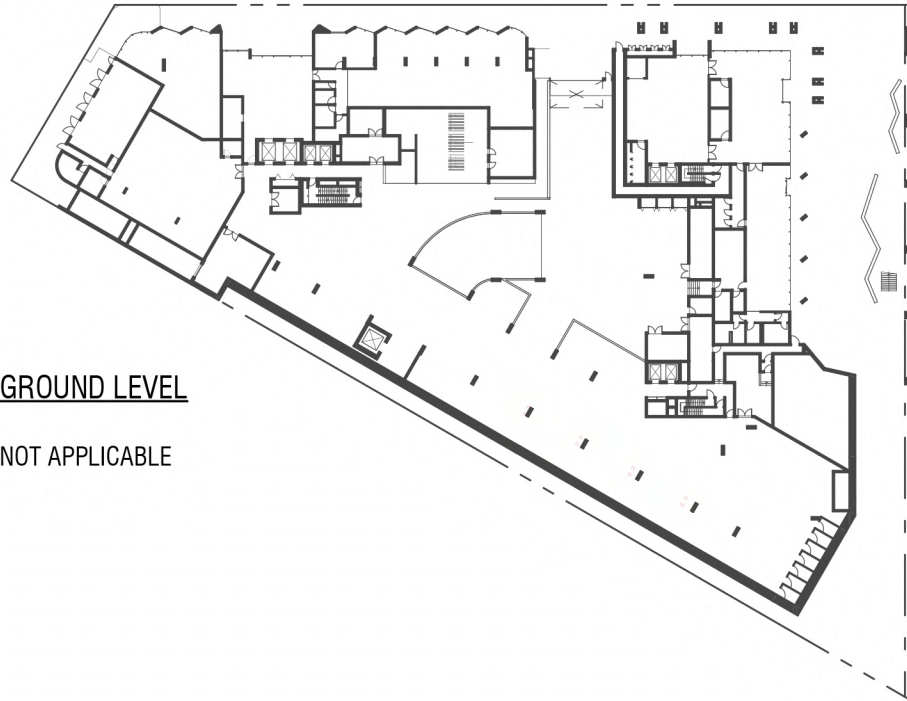
REV. 14

DRAWING NO. DA518

4

**SOLAR ACCESS
ANALYSIS ORIGINAL DA
BALCONY AREA**

QA METRICS



LEGEND

- > 2 hrs Solar Access
- 1 hr 45min Solar Access
- 1 hr 30min Solar Access
- < 1 hr 30min Solar Access
- 0 hrs Solar Access

PRELIMINARY FOR DISCUSSION ONLY

Q A M E T R I C S

LEVEL 6

INDEPENDENT LIVING - 10

- 6** > 2 hrs Solar Access
- 0** 1 hr 45min Solar Access
- 0** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 4** 0 hrs Solar Access

TOWER RESIDENTIAL APARTMENTS - 10

- 9** > 2 hrs Solar Access
- 0** 1 hr 45min Solar Access
- 1** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 0** 0 hrs Solar Access

LEVEL 7

INDEPENDENT LIVING - 10

- 6** > 2 hrs Solar Access
- 0** 1 hr 45min Solar Access
- 0** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 4** 0 hrs Solar Access

TOWER RESIDENTIAL APARTMENTS - 10

- 9** > 2 hrs Solar Access
- 0** 1 hr 45min Solar Access
- 1** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 0** 0 hrs Solar Access

LEVEL 8

INDEPENDENT LIVING - 10

- 6** > 2 hrs Solar Access
- 0** 1 hr 45min Solar Access
- 0** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 4** 0 hrs Solar Access

TOWER RESIDENTIAL APARTMENTS - 10

- 10** > 2 hrs Solar Access
- 0** 1 hr 45min Solar Access
- 0** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 0** 0 hrs Solar Access

LEVEL 9

INDEPENDENT LIVING - 10

- 6** > 2 hrs Solar Access
- 0** 1 hr 45min Solar Access
- 0** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 4** 0 hrs Solar Access

TOWER RESIDENTIAL APARTMENTS - 10

- 10** > 2 hrs Solar Access
- 0** 1 hr 45min Solar Access
- 0** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 0** 0 hrs Solar Access

LEVEL 10

INDEPENDENT LIVING - 10

- 6** > 2 hrs Solar Access
- 0** 1 hr 45min Solar Access
- 0** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 4** 0 hrs Solar Access

TOWER RESIDENTIAL APARTMENTS - 10

- 10** > 2 hrs Solar Access
- 0** 1 hr 45min Solar Access
- 0** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 0** 0 hrs Solar Access

LEVEL 11

INDEPENDENT LIVING - 10

- 6** > 2 hrs Solar Access
- 0** 1 hr 45min Solar Access
- 0** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 4** 0 hrs Solar Access

TOWER RESIDENTIAL APARTMENTS - 10

- 10** > 2 hrs Solar Access
- 0** 1 hr 45min Solar Access
- 0** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 0** 0 hrs Solar Access

LEGEND

- 10** > 2 hrs Solar Access
- 0** 1 hr 45min Solar Access
- 0** 1 hr 30min Solar Access
- 0** < 1 hr 30min Solar Access
- 0** 0 hrs Solar Access

PRELIMINARY FOR DISCUSSION ONLY

ORIGINAL DA

PROJECT
Wests Newcastle

DRAWING TITLE
SOLAR ACCESS DIAGRAMS -
BALCONIES

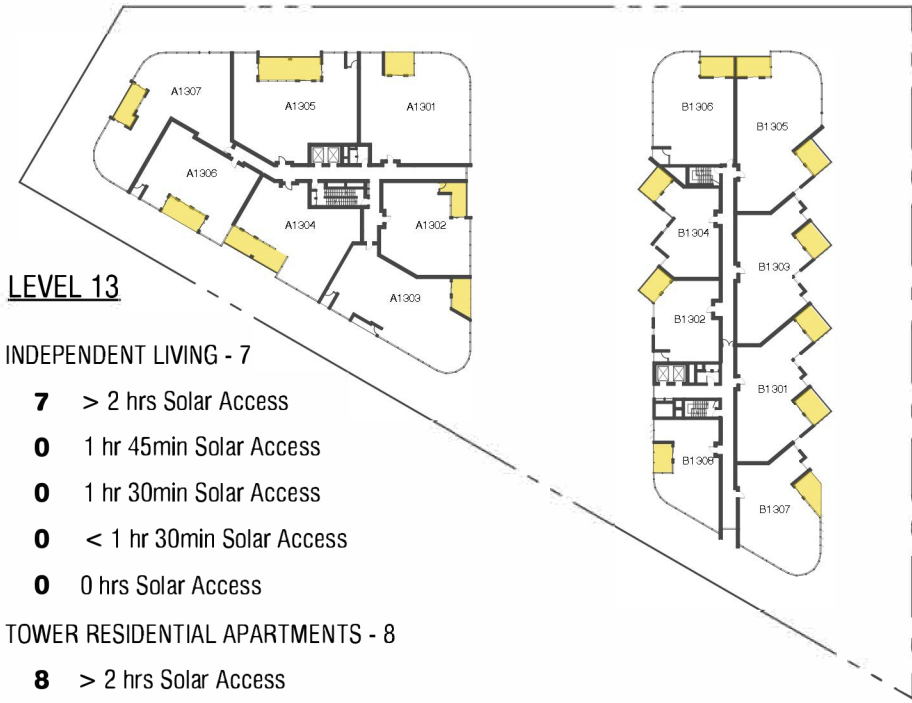
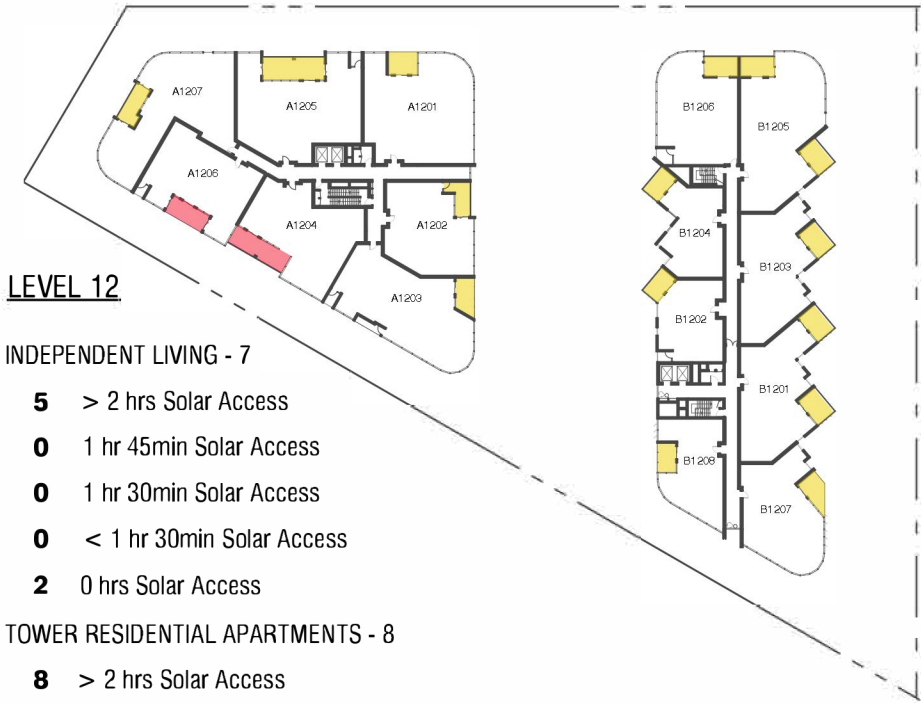
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DATE
4/06/2025

DRAWING NUMBER
SK-250608A.5

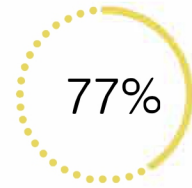


QA METRICS

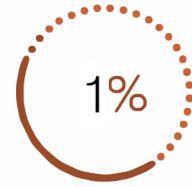


SUMMARY

SOLAR ACCESS



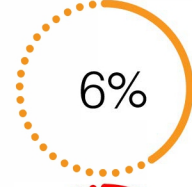
191 > 2 hrs Solar Access



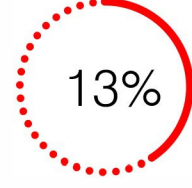
5 1 hr 45min Solar Access



7 1 hr 30min Solar Access



14 < 1 hr 30min Solar Access



31 0 hrs Solar Access

248 TOTAL YIELD

NOTE:
PERCENTAGES HAVE BEEN ROUNDED
TO NEAREST WHOLE NUMBER, THUS TOTAL
RESULTS IN 99%

LEGEND

- > 2 hrs Solar Access
- 1 hr 45min Solar Access
- 1 hr 30min Solar Access
- < 1 hr 30min Solar Access
- 0 hrs Solar Access

PRELIMINARY FOR DISCUSSION ONLY

ORIGINAL DA

PROJECT
Wests Newcastle

DRAWING TITLE
SOLAR ACCESS DIAGRAMS -
BALCONIES



SCALE
1:1000

DATE
4/06/2025

DRAWING NUMBER
SK-250608A.6



5

SOLAR ACCESS ANALYSIS MOD 1 - BALCONY AREA

LEVEL GROUND

PODIUM A - COMMERCIAL / RETAIL / MEDICAL
Not Applicable building class 6 and 9a

LEVEL 1

TOWER A - 4 INDEPENDENT LIVING UNITS
Not Applicable

LEVEL 2

PODIUM A - RAC
Not Applicable

LEVEL 3

PODIUM A - RAC
Not Applicable

TOWER B - 11 RESIDENTIAL APARTMENTS

LEVEL 4

TOWER A - 11 INDEPENDENT LIVING UNITS

TOWER B - 11 RESIDENTIAL APARTMENTS

LEVEL 5

TOWER A - 11 INDEPENDENT LIVING UNITS

TOWER B - 11 RESIDENTIAL APARTMENTS

LEGEND

- > 2 hrs Solar Access
- 1hr 45min Solar Access
- 1hr 30min Solar Access
- < 1hr 30min Solar Access
- 0 hrs Solar Access

- 8 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 1 1 hr 30min Solar Access
- 2 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

- 7 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 2 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

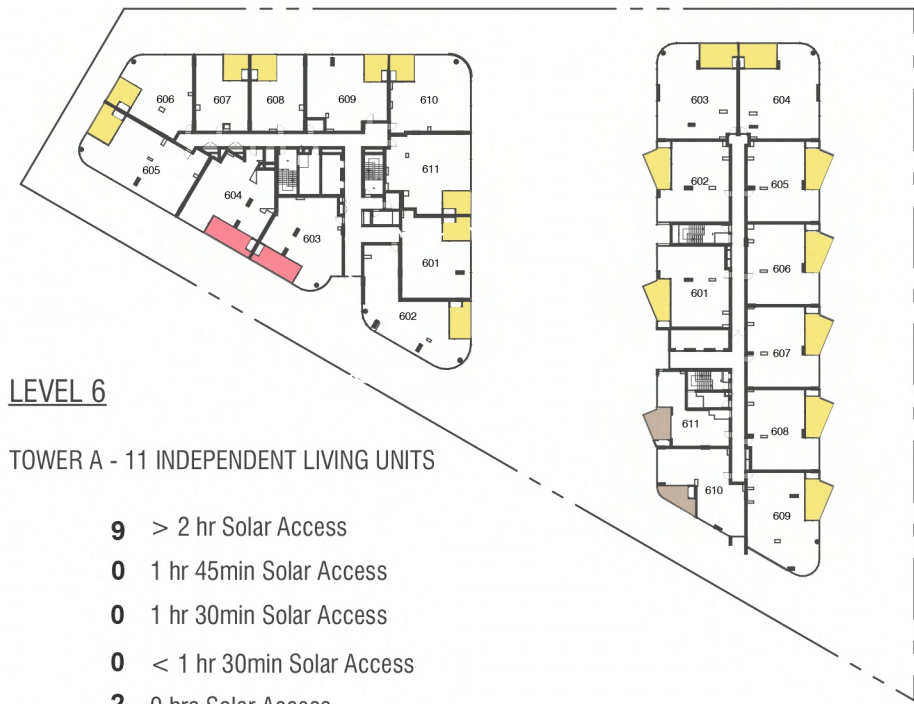
- 7 > 2 hr Solar Access
- 1 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 3 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

- 9 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 2 0 hrs Solar Access

- 8 > 2 hr Solar Access
- 1 1 hr 45min Solar Access
- 2 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

- 9 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 2 0 hrs Solar Access

- 9 > 2 hr Solar Access
- 1 1 hr 45min Solar Access
- 1 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access



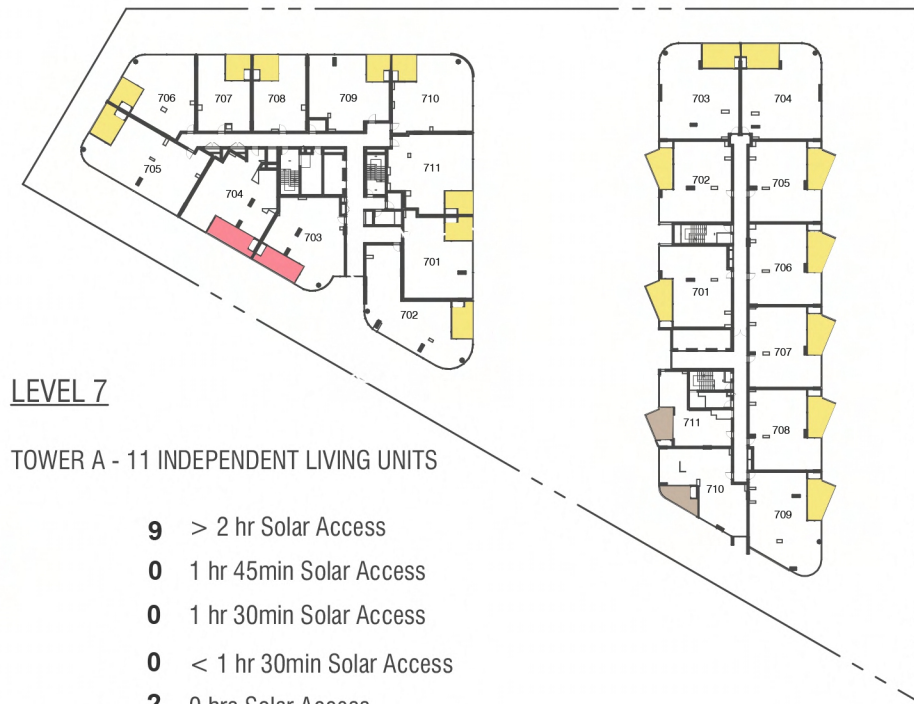
LEVEL 6

TOWER A - 11 INDEPENDENT LIVING UNITS

- 9 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 2 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 9 > 2 hr Solar Access
- 2 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access



LEVEL 7

TOWER A - 11 INDEPENDENT LIVING UNITS

- 9 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 2 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 9 > 2 hr Solar Access
- 2 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access



LEVEL 8

TOWER A - 11 INDEPENDENT LIVING UNITS

- 9 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 2 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 10 > 2 hr Solar Access
- 1 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

LEGEND

- > 2 hrs Solar Access
- 1hr 45min Solar Access
- 1hr 30min Solar Access
- < 1hr 30min Solar Access
- 0 hrs Solar Access



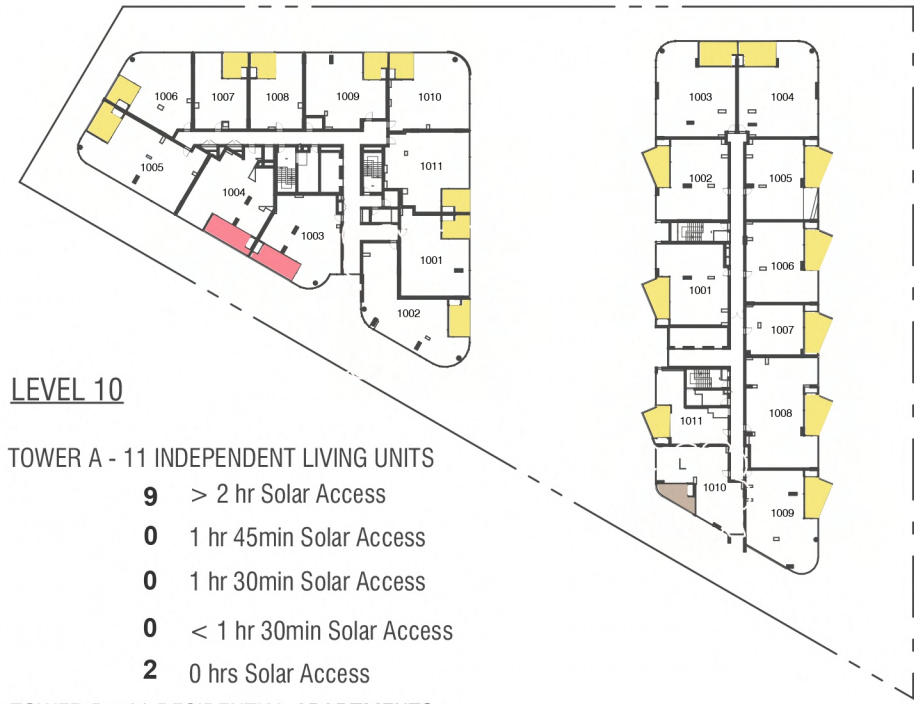
LEVEL 9

TOWER A - 11 INDEPENDENT LIVING UNITS

- 9 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 2 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 10 > 2 hr Solar Access
- 1 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access



LEVEL 10

TOWER A - 11 INDEPENDENT LIVING UNITS

- 9 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 2 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 10 > 2 hr Solar Access
- 1 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access



LEVEL 11

TOWER A - 11 INDEPENDENT LIVING UNITS

- 9 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 2 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 11 > 2 hr Solar Access
- 1 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 1 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

MOD 1

PROJECT

DRAWING TITLE
PROPOSED SOLAR ACCESS
DIAGRAMS_BALCONY



SCALE
1:200@A3
0 M 3 M

DATE
4/06/2025

DRAWING NUMBER
SK250604B.5



S U M M A R Y

TOWER A SOLAR ACCESS
107 INDEPENDENT LIVING UNITS

TOWER B SOLAR ACCESS
152 RESIDENTIAL APARTMENTS

ACROSS BOTH TOWERS SOLAR ACCESS
259 RESIDENTIAL +INDEPENDENT UNITS

84% 89 > 2 hrs Solar Access

86% 131 > 2 hrs Solar Access

85% 220 > 2 hrs Solar Access

0% 00 1 hr 45min Solar Access

7% 11 1 hr 45min Solar Access

4% 11 1 hr 45min Solar Access

0% 00 1 hr 30min Solar Access

2% 03 1 hr 30min Solar Access

1% 03 1 hr 30min Solar Access

0% 00 < 1 hr 30min Solar Access

5% 07 < 1 hr 30min Solar Access

3% 07 < 1 hr 30min Solar Access

16% 18 0 hrs Solar Access

0% 00 0 hrs Solar Access

7% 18 0 hrs Solar Access

LEVEL 12

TOWER A - 11 INDEPENDENT LIVING UNITS

- 9 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 2 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 11 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

LEGEND

- > 2 hrs Solar Access
- 1hr 45min Solar Access
- 1hr 30min Solar Access
- < 1hr 30min Solar Access
- 0 hrs Solar Access

LEVEL 13

TOWER A - 8 INDEPENDENT LIVING UNITS

- 8 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 11 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

LEVEL 14

TOWER B - 11 RESIDENTIAL APARTMENTS

- 11 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

MOD 1

PROJECT

DRAWING TITLE
PROPOSED SOLAR ACCESS
DIAGRAMS_BALCONY



SCALE
1:200@A3
0 M 3 M

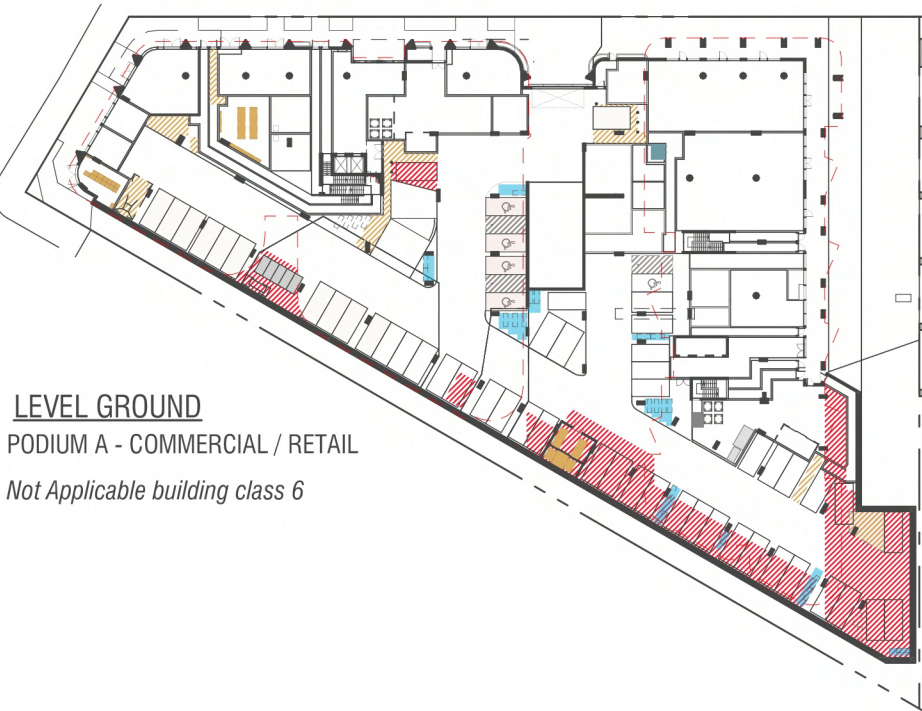
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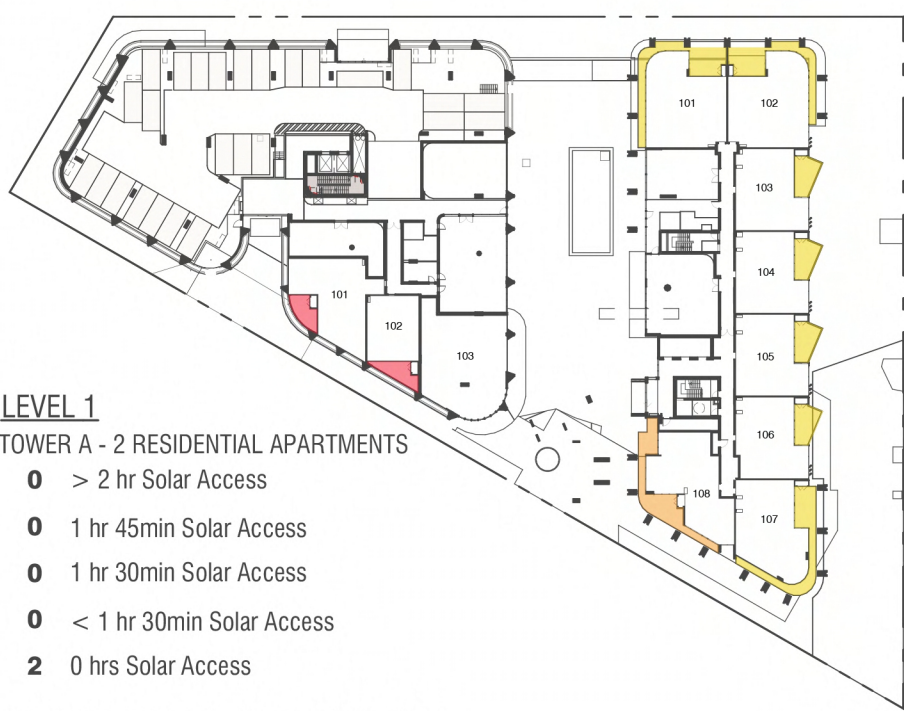


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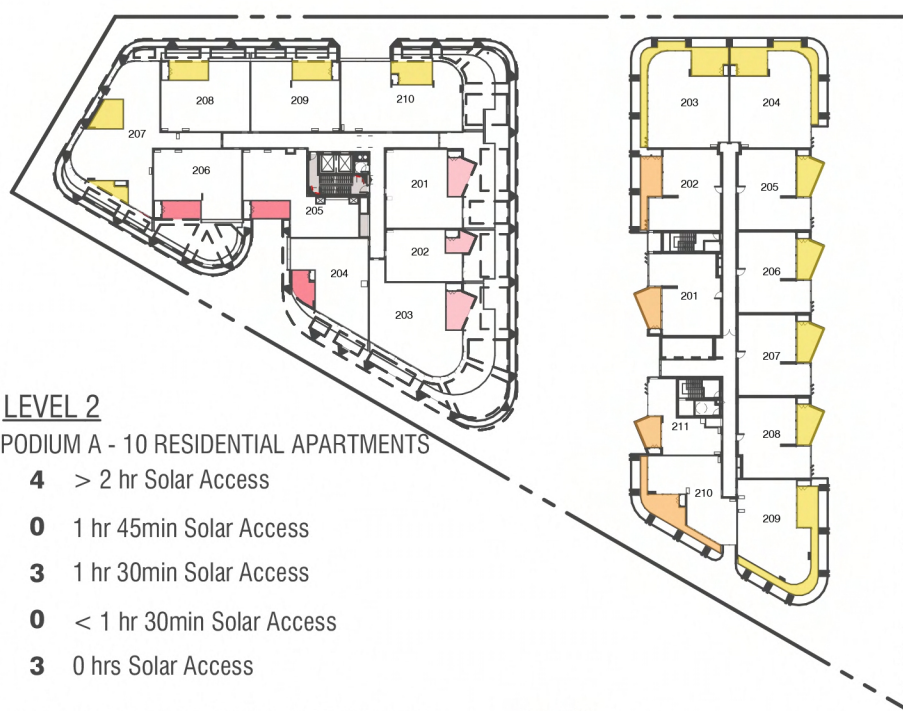
SOLAR ACCESS ANALYSIS MOD 2 - BALCONY AREA



LEVEL GROUND
PODIUM A - COMMERCIAL / RETAIL
Not Applicable building class 6



LEVEL 1
TOWER A - 2 RESIDENTIAL APARTMENTS
0 > 2 hr Solar Access
0 1 hr 45min Solar Access
0 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
2 0 hrs Solar Access



LEVEL 2
PODIUM A - 10 RESIDENTIAL APARTMENTS
4 > 2 hr Solar Access
0 1 hr 45min Solar Access
3 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS
7 > 2 hr Solar Access
0 1 hr 45min Solar Access
0 1 hr 30min Solar Access
4 < 1 hr 30min Solar Access
0 0 hrs Solar Access

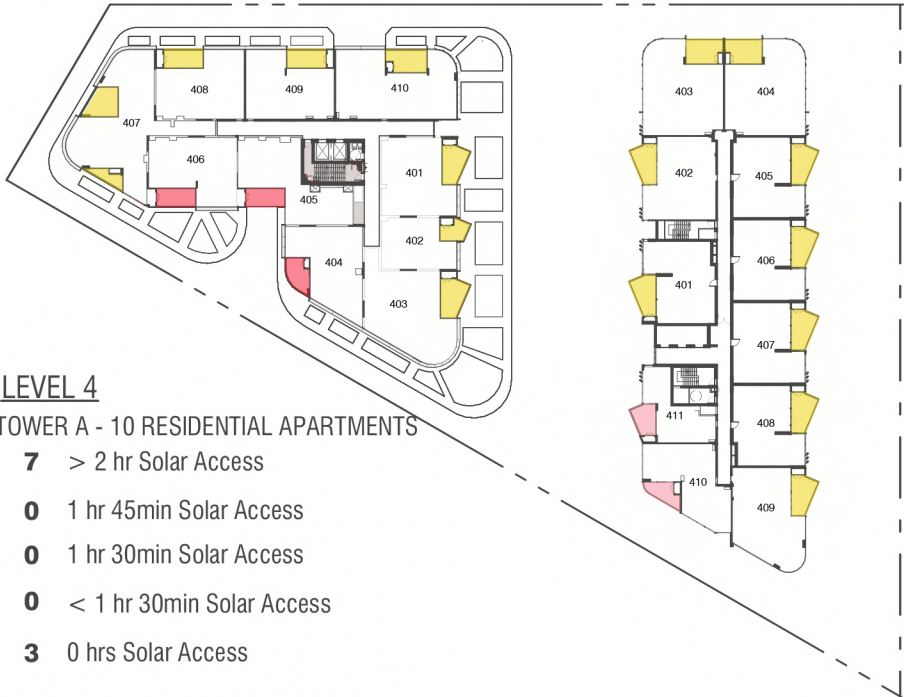
LEGEND

- > 2 hrs Solar Access
- 1 hr 45min Solar Access
- 1 hr 30min Solar Access
- < 1 hr 30min Solar Access
- 0 hrs Solar Access



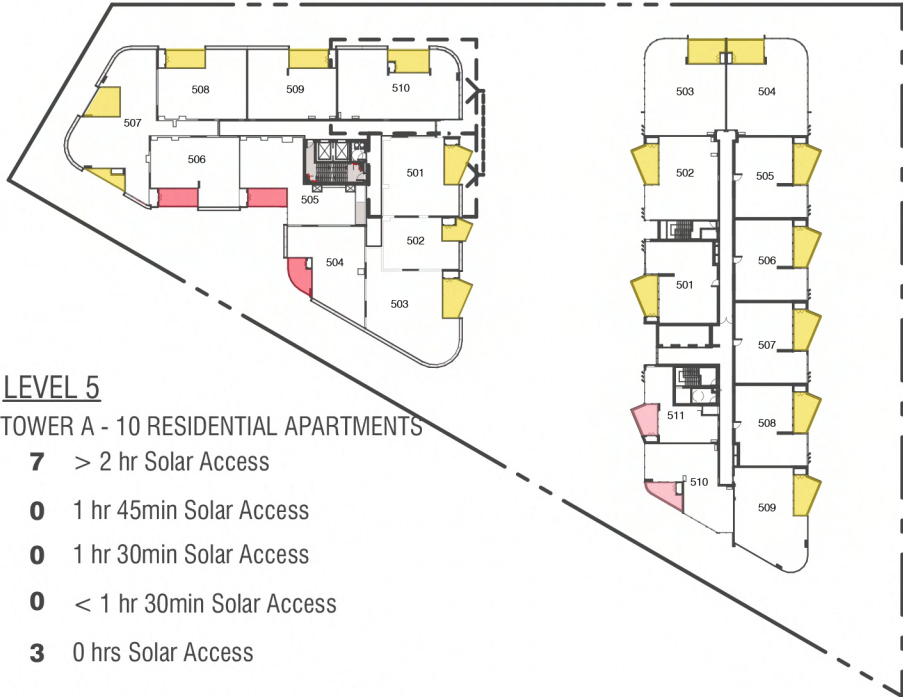
LEVEL 3
PODIUM A - 10 RESIDENTIAL APARTMENTS
4 > 2 hr Solar Access
3 1 hr 45min Solar Access
0 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS
9 > 2 hr Solar Access
0 1 hr 45min Solar Access
0 1 hr 30min Solar Access
2 < 1 hr 30min Solar Access
0 0 hrs Solar Access



LEVEL 4
TOWER A - 10 RESIDENTIAL APARTMENTS
7 > 2 hr Solar Access
0 1 hr 45min Solar Access
0 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS
9 > 2 hr Solar Access
0 1 hr 45min Solar Access
2 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
0 0 hrs Solar Access



LEVEL 5
TOWER A - 10 RESIDENTIAL APARTMENTS
7 > 2 hr Solar Access
0 1 hr 45min Solar Access
0 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS
9 > 2 hr Solar Access
1 1 hr 45min Solar Access
0 1 hr 30min Solar Access
1 < 1 hr 30min Solar Access
0 0 hrs Solar Access

U:\22104 309 King Street Newcastle (GWH)\Model\SD-TP_D\BIM_Arch\Cad\250602_deferred approval CHANGES.pln

REVISION			
01	PROPOSED SOLAR ACCESS DIAGRAMS	TF	04.06.2025

REVISION

MOD 2

QUALITY ASSURANCE (FK IS A CERTIFIED COMPANY TO ISO 9001:2015)

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- ☐ SCHEMATIC DESIGN REVIEW FOR THIS PROJECT IS YET TO BE COMPLETED.
 - ☐ DESIGN DEVELOPMENT REVIEW FOR THIS PROJECT IS YET TO BE COMPLETED.
 - ☐ TENDER DOCUMENTATION REVIEW FOR THIS PROJECT IS YET TO BE COMPLETED.
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DRAWN	DATE	CHECKED	PLOT DATE	JOB NO.	SCALE
FK	04.06.2025	FK	04.06.2025	22104	1:1000@A3



PROJECT

309 King Street
Newcastle NSW 2302

DRAWING TITLE
PROPOSED SOLAR ACCESS DIAGRAMS

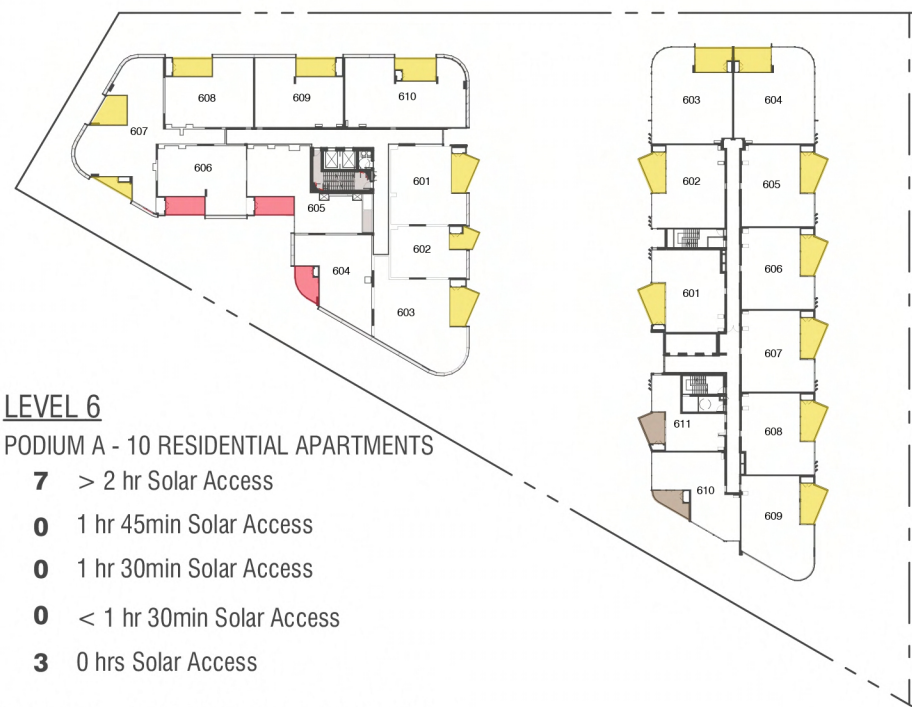
FENDER KATSLIDIS

WWW.FKAUSTRALIA.COM
L21, 259 GEORGE STREET, SYDNEY
NEW SOUTH WALES 2000 AUSTRALIA
TELEPHONE: +61 2 8216 3500
FENDER KATSLIDIS (AUST) PTY LTD ACN 092 943 032



ISSUE PURPOSE
DEVELOPMENT APPLICATION

REV.	DRAWING NO.
01	DA516-A



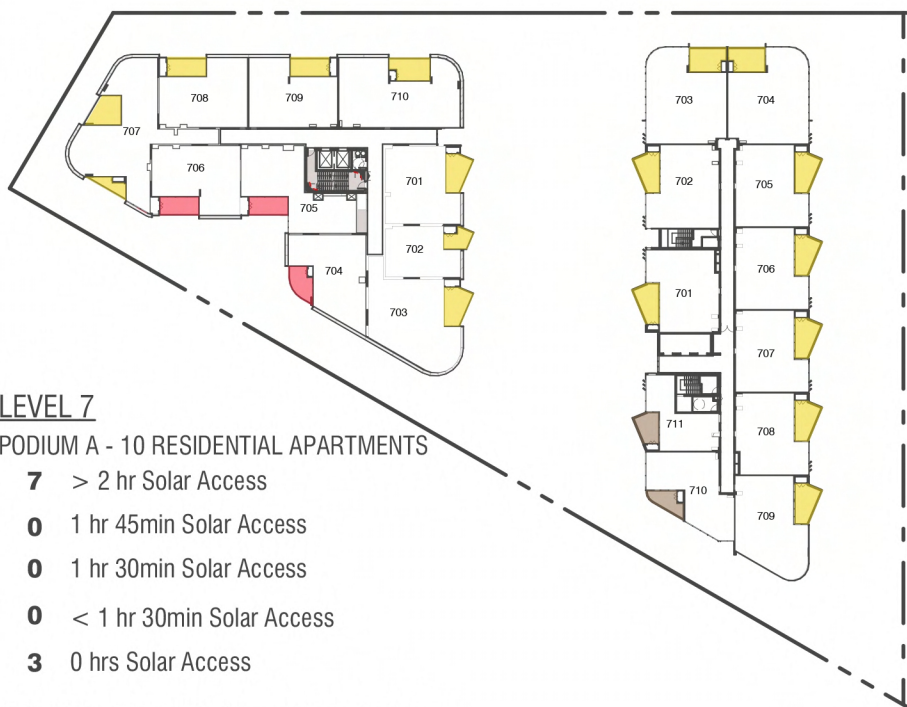
LEVEL 6

PODIUM A - 10 RESIDENTIAL APARTMENTS

- 7 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 9 > 2 hr Solar Access
- 2 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access



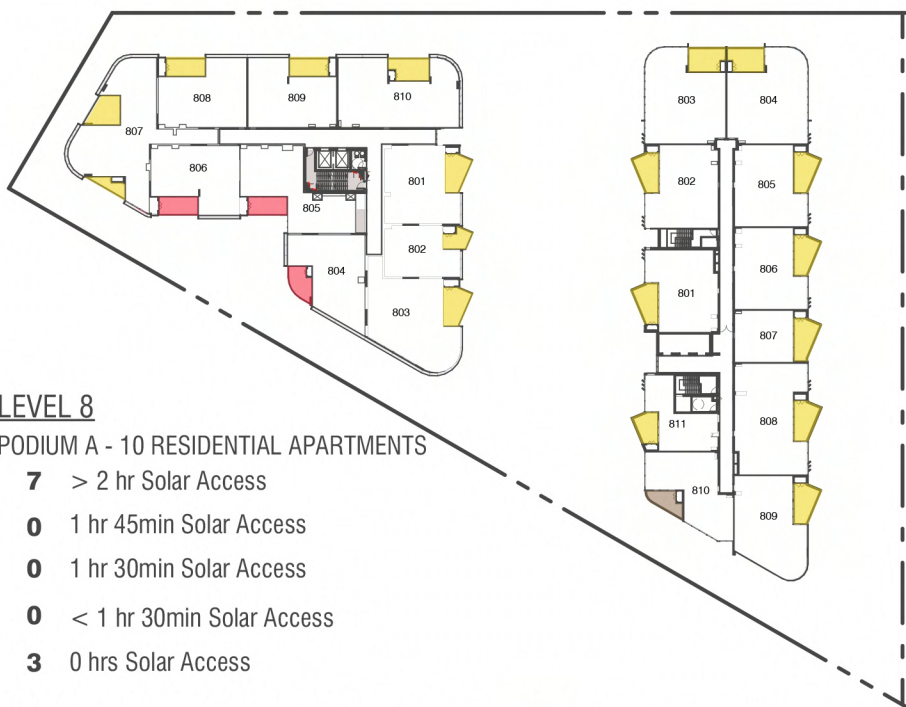
LEVEL 7

PODIUM A - 10 RESIDENTIAL APARTMENTS

- 7 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 9 > 2 hr Solar Access
- 2 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access



LEVEL 8

PODIUM A - 10 RESIDENTIAL APARTMENTS

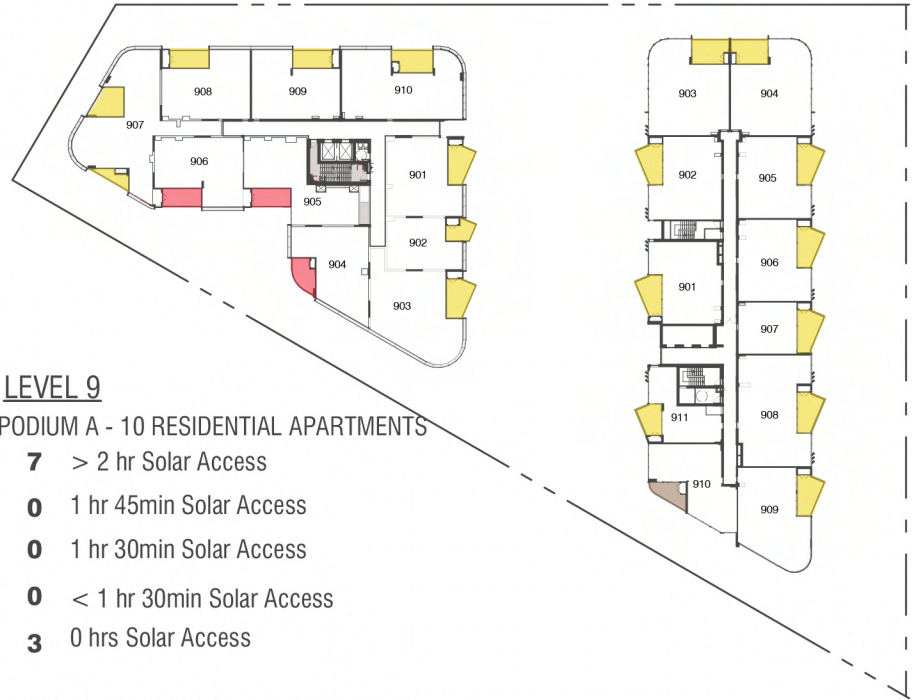
- 7 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 10 > 2 hr Solar Access
- 1 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

LEGEND

- > 2 hrs Solar Access
- 1 hr 45min Solar Access
- 1 hr 30min Solar Access
- < 1 hr 30min Solar Access
- 0 hrs Solar Access



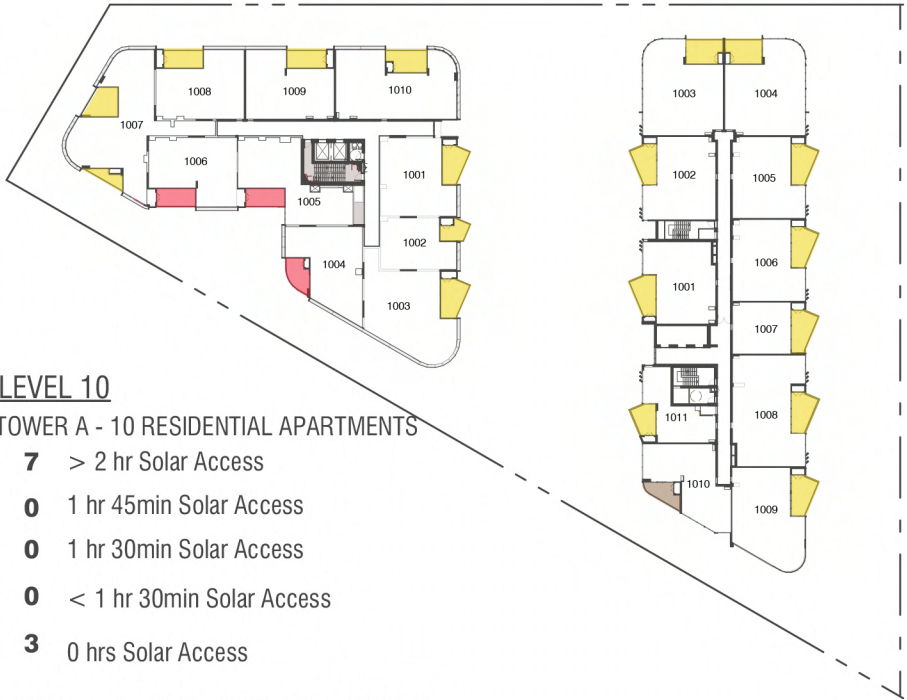
LEVEL 9

PODIUM A - 10 RESIDENTIAL APARTMENTS

- 7 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 10 > 2 hr Solar Access
- 1 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access



LEVEL 10

TOWER A - 10 RESIDENTIAL APARTMENTS

- 7 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 10 > 2 hr Solar Access
- 1 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access



LEVEL 11

TOWER A - 10 RESIDENTIAL APARTMENTS

- 7 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS

- 11 > 2 hr Solar Access
- 0 1 hr 45min Solar Access
- 0 1 hr 30min Solar Access
- 0 < 1 hr 30min Solar Access
- 0 0 hrs Solar Access

U:\22104 309 King Street Newcastle (GWH)\Modell\SD-TP_D\BIM_Arch\Cad\250602_deferred approval CHANGES.pln

REVISION			REVISION
01	PROPOSED SOLAR ACCESS DIAGRAMS	TF	04.06.2025

MOD 2

QUALITY ASSURANCE (FK IS A CERTIFIED COMPANY TO ISO 9001:2015)

THIS PROJECT IS SUBJECT TO THE FK QUALITY ASSURANCE SYSTEM

- ☐ SCHEMATIC DESIGN REVIEW FOR THIS PROJECT IS YET TO BE COMPLETED.
- ☐ DESIGN DEVELOPMENT REVIEW FOR THIS PROJECT IS YET TO BE COMPLETED.
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PROJECT

309 King Street
Newcastle NSW 2302

DRAWING TITLE
PROPOSED SOLAR ACCESS DIAGRAMS

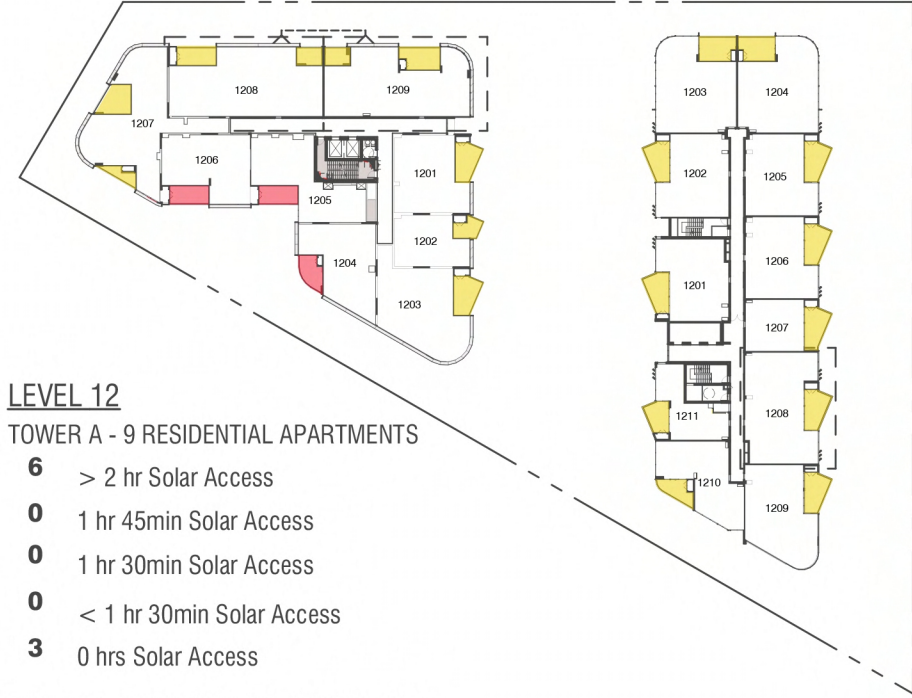
FENDER KATSLIDIS

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TELEPHONE: +61 2 8216 3500
FENDER KATSLIDIS (AUST) PTY LTD ACN 092 943 032



ISSUE PURPOSE
DEVELOPMENT APPLICATION

REV.	DRAWING NO.
01	DA517-A



LEVEL 12
TOWER A - 9 RESIDENTIAL APARTMENTS
6 > 2 hr Solar Access
0 1 hr 45min Solar Access
0 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS
11 > 2 hr Solar Access
0 1 hr 45min Solar Access
0 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
0 0 hrs Solar Access



LEVEL 13
TOWER A - 9 RESIDENTIAL APARTMENTS
6 > 2 hr Solar Access
0 1 hr 45min Solar Access
0 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
3 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS
11 > 2 hr Solar Access
0 1 hr 45min Solar Access
0 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
0 0 hrs Solar Access

SUMMARY

TOWER A SOLAR ACCESS

129 RESIDENTIAL APARTMENTS

64%82 > 2 hrs Solar Access

2%3 1 hr 45min Solar Access

0%0 1 hr 30min Solar Access

0%0 < 1 hr 30min Solar Access

31%40 0 hrs Solar Access

TOWER B SOLAR ACCESS

151 RESIDENTIAL APARTMENTS

88%134 > 2 hrs Solar Access

5%7 1 hr 45min Solar Access

3%4 1 hr 30min Solar Access

4%7 < 1 hr 30min Solar Access

0%0 0 hrs Solar Access

ACROSS BOTH TOWERS SOLAR ACCESS

280 RESIDENTIAL APARTMENTS

77%216 > 2 hrs Solar Access

4%10 1 hr 45min Solar Access

1%4 1 hr 30min Solar Access

3%7 < 1 hr 30min Solar Access

14%40 0 hrs Solar Access

LEGEND

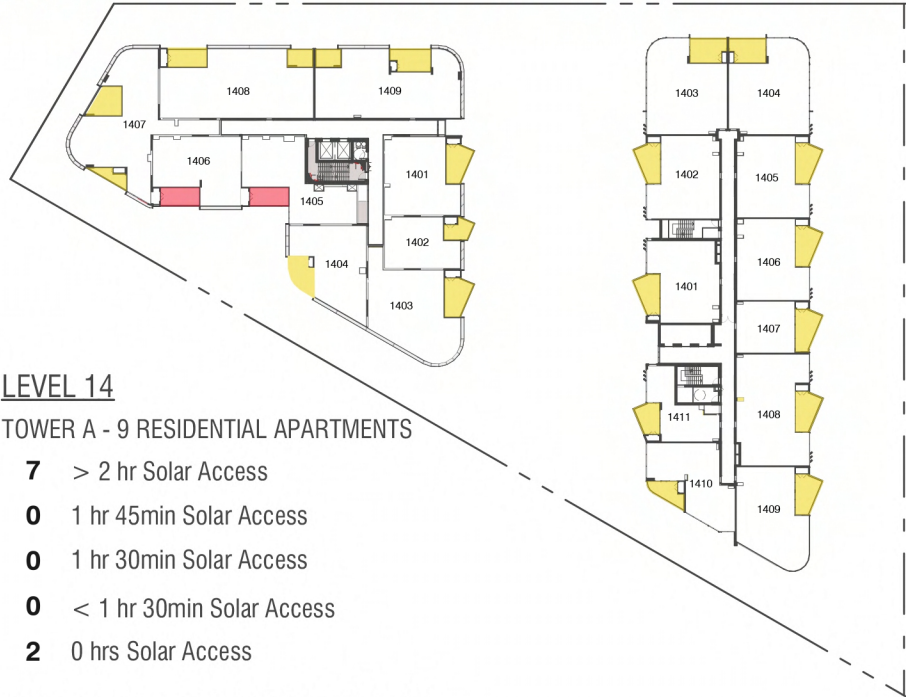
> 2 hrs Solar Access

1 hr 45min Solar Access

1 hr 30min Solar Access

< 1 hr 30min Solar Access

0 hrs Solar Access



LEVEL 14
TOWER A - 9 RESIDENTIAL APARTMENTS
7 > 2 hr Solar Access
0 1 hr 45min Solar Access
0 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
2 0 hrs Solar Access

TOWER B - 11 RESIDENTIAL APARTMENTS
11 > 2 hr Solar Access
0 1 hr 45min Solar Access
0 1 hr 30min Solar Access
0 < 1 hr 30min Solar Access
0 0 hrs Solar Access

LEGEND
> 2 hrs Solar Access
1 hr 45min Solar Access
1 hr 30min Solar Access
< 1 hr 30min Solar Access
0 hrs Solar Access