



## SHADOW DIAGRAM CERTIFICATION

NUMBER: SDC197303

DATE: MAY 2023

PROJECT: 400 - 404 Cabramatta Rd  
Cabramatta

CLIENT: TCON INVESTMENTS - Design Niche  
1/45 Crosby St Greystanes NSW



DA	L&E	EXPERT	CONSULTANT
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CERTIFICATE		Statement	Process
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

I hereby certify that the shadow diagrams provided for this proposed design are accurate and in accordance with the following information.  
This certification is applicable only to the shadow diagrams produced as listed below.

Version 3 – revised design update as per Issue B design files. POS solar catchment in PLAN only is 1m above FFL to enable accurate solar analysis. For clarity POS in VFS mode is FFL level only.

CERTIFICATION DETAILS FOR SHADOW DIAGRAMS		
Project Details		
Applicable for Shadow Diagrams Numbered		
Issue		
Dated		
ACCURACY DETAILS	DATA	TOLERANCE
Existing Building	Embedded into Embedded into Architectural SITE PLAN - DESIGNNICHE, Ref 22020  Neighbour STAGE 2 design added in Version 2 – provided as 3D File from Client	+/- 150mm Replication of Survey data.
Neighbouring Buildings		
Topography and Site		
Proposed Design	Architectural Plans – Issue B May 2023	+/- 150mm
RL critical heights	Architectural Plans & Survey	+/- 40mm
Shadow Cast per Component	3D Modelling Software (post June 2020 - Vray engine) (pre June 2020 – Mental Ray Engine)	+/- 120mm
Comparative Shadow Analysis per time	3D Model & Post Processing	3 - 5% tolerance across total image frame
PRECEDENCE RULE - DATA		
1. Survey 2. Architectural Plans / 3D Model (issue B May 2023)		

CERTIFIER SIGNED:

Cameron McFadzean

Certifier:

Cameron McFadzean

Registered Architect NSW 8750, BA (Architecture) B Architecture, AssessorABSA, AssocIES

Deneb Design

# SHADOW DIAGRAM CERTIFICATION SDC197303

## ITEM 1. SOLAR ACCESS CALCULATIONS

Higher resolution image on master Diagrams – includes impact of Stage 2 development to the North (Version 2).

### Compliance is achieved. (2hrs)

Note: An area must be in sunlight for at least a full 2hour period before compliance is registered for that unit. No area minimum sizes have been applied in the definition of sunlight areas.

		AREAS RECEIVING SUNLIGHT																TOTAL		COMPLIANCE	
TIME: MID WINTER		900		1000		1100		1200		1300		1400		1500							
BLOCK	UNIT COUNT	LIVING	POS	LIVING	POS	LIVING	POS	LIVING	POS	LIVING	POS	LIVING	POS	LIVING	POS	LIVING	POS	LIVING	POS	LIVING	POS
BLOCK A	11	yes					yes	yes	yes	yes	yes	yes	yes	yes	yes	5	5	YES	YES		
BLOCK B	8	yes					yes	yes	yes	yes	yes	yes	yes	yes	yes	5	5	YES	YES		
BLOCK C	9	yes	yes	yes	yes		yes	yes	yes	yes						4	4	YES	YES		
BLOCK D	7	yes	yes	yes	yes		yes	yes	yes	yes						4	4	YES	YES		
BLOCK E	8	yes		yes	yes		yes	yes	yes	yes	yes	yes				5	4	YES	YES		
BLOCK F	1	yes		yes	yes	yes	yes	yes	yes	yes	yes	yes				6	4	YES	YES		
BLOCK G (Except U45-46)	4	yes	yes	yes	yes	yes	yes		yes		yes					3	5	YES	YES		
U45 - U46	2	yes	yes	yes	yes	yes	yes		yes		yes					3	5	YES	YES		
BLOCK H	3	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	7	7	YES	YES		
TOTAL	53																	53	53	100%	100%



## ITEM 3. PROCESS OF SHADOW DIAGRAM PRODUCTION – post June 2020 issue

A brief summation of the process of digital shadow production used by Deneb Design follows.

1. 3D Model created from information in typical order of precedence: (refer to specific documents for variation to this order of precedence).
  - 1.1 Survey Plan –
  - 1.2 Architectural Models (3D) and Elevations
  - 1.3 Architectural Plans
  - 1.4 Site Photos / Aerial images.

The accuracy of the translation of these data sources are provided in the certification document. Where accuracy and validity cannot be determined the tolerances are not stated. The tolerances stated are median figures gathered from self auditing process. It is not uncommon for different data sources to contain discrepancies, hence the precedence rule.

2. Sunlight System

Daylight system – a photometrical physically-based light source, based on IES standards (Illuminating Engineering Society) is positioned within the model using True North orientation (derived from Plans/Survey). Date and Time values are set, and these are processed internally by computer algorithms (MAX) to determine azimuth and altitude. The altitude and azimuth angles are available upon request. Pre June 2020 – Mental Ray raytracing engine is used. Post June 2020 – Vray Brute Force ray tracing engine is used.

3. Shadow Image

For each and every time slot a image is rendered using the 3D model and daylight system for every component of the shadow set. A single time slot may consist of several (typically 4) shadow types. Due to render resolution and edge blurriness, particularly in low light where the shadow cast becomes difficult to differentiate accuracy tolerance is determined as a percentage across the entire image. This is as low as 0.5%, however due to the number of passes and composition of the final shadow image this tolerance is indicated as a higher figure and shown in the certification document. Refer also to dynamic range and thresholds for more information. Typical image slots:

- 3.1 Neighboring structures and ground / terrain and other features.
- 3.2 Neighboring shadows cast
- 3.2 Existing Building (if present) and existing shadow cast
- 3.3 Proposed Building and proposed shadow cast
- 3.4 Other Stages or variations if required.

4. Composition

Composition is the ordering and opacity of the image slots. The rendered image slots are compositioned and coloured/separated to create a shadow diagram showing different shadowing of elements – self, existing, proposed, additional etc. This process is subject to human compositioning error only – ie it is either accurate or has an obvious error related to composition – Deneb Design work procedures determine a sequence of steps which has reduced this compositional error to nearly zero occurrence. This composition can include numerous options as per the clients direction.

Algorithms are used to analyse the pixels of each render to determine shadow cast – refer to item 7. Scripts are used to automate the procedure of taking three common shadows – proposed, existing and neighbor, and translating these into more meaningful Reduced, Identical and Additional.

5. Shadow Types – Classifications

A typical shadow diagram has several different shadow types shown. Not all shadow diagrams have all of these types.

- 5.1 Existing Building and Shadow– The existing building is 3D modeled and the shadow that is cast is called the existing shadow. This existing shadow may also be divided into IDENTICAL and REDUCED Shadow types.
- 5.2 Proposed Building (Orange) and Shadow– The proposed building is modeled and typically shown in PLAN. The shadow cast from this proposed building is called the proposed shadow. This is typically not show by itself – and is divided into IDENTICAL and ADDITIONAL shadow types.
- 5.3 REDUCED Shadow (Green Dot) – The reduced shadow is determined by comparing the existing shadow and the proposed shadow. The proposed shadow is removed from the existing shadow, with any remaining existing shadow now called the reduced shadow. (function is: Existing – Proposed = Reduced Shadow)
- 5.4 IDENTICAL Shadow (Black Dot) – This is the shadow where the existing and proposed shadows coincide – ie the are both the same. (function is: Proposed = Existing)
- 5.5 ADDITIONAL Shadow – (Red Dot) – the additional shadow is determined by comparing the existing shadow and the proposed shadow. The existing shadow is removed from the proposed shadow, with any remaining proposed shadow now called the Additional Shadow. (function is: Proposed – Existing = Additional Shadow)
- 5.6 Neighbor Buildings – Where these are 3D all shadows will be cast across the 3D building. This is important where the shadow casts across a terrain and then travels up the wall. This will show the shadow terminating at the wall in PLAN. If sufficient shadow cast extends over the top of the wall then it will be shown on the roof (and be visible in PLAN).
- 5.7 NEIGHBOR Shadows (grey stripe)– these are shadows cast from neighbor buildings. For clarity of comparison these are shown in combination with all other shadows. Ie We show the existing &/or proposed shadow falling over the top of the neighbor shadow. This is important when considering solar access. Ie the neighbor shadow does not remove the overshadowing of either existing or proposed. This methodology has been brought about by the established “tradition” of not showing any neighbor shadows, and by the complication that not all neighbor buildings can be modeled if they are not on survey.
- 5.8 The methodology of classifying structures into existing, proposed is clearly defined by the architectural plans depicting the proposed works and existing conditions. Typically the survey is used for the existing conditions. The methodology of classifying structures into the neighbor category has some scope which is typically documented and detailed in the plans themselves. Generally most items not within the site boundary are treated as neighbor structures. Existing fences are typically treated as neighbor structures.

6. Layout

Each image time slot in composition becomes a single shadow image. These shadow images are positioned in page with time stamps and titles placed alongside. Deneb Design work procedure has a code checking system to assist in ensuring the correct shadow image is placed in the correct place on the page. This procedure is semi-automated and human error can occur. Self auditing has revealed a <1% occurrence.

7. Shadow Parts and edge accuracy.

The daylight system used in the production of the shadows produces photo-real shadows that have a Umbra (dark part) and a Penumbra (gradient from dark to light). This is most obvious in low sun angles, where the shadows are long. As the length of the shadow increases the edge of it becomes “blurry”. An algorithm analysis each render for the dynamic range to determine where to classify the shadow – ie it determines a threshold value for the greyscale shadow cast. The notion of dynamic range is important to this algorithm for instance in low light (low sun and terrain sloping away from the light) the dynamic range (difference between black and white) in the render is small – thereby reducing the ability to accurately classify the shadow cast. Pre June2020 – Mental Ray raytracing engine . Post June 2020 – Vray brute force engine – which enables more control of these elements for sharper edge definition when required.

8. Solar Calculations

8.1 Methodology and accuracy - Where provided the solar calculations provide numerical areas to various shadow areas – ie existing and proposed. Reference to the definitions in this document is required. The areas are calculated by an algorithm analyzing the shadow area (refer to item 7) and returning a pixel count. This pixel count is then scaled to appropriate unit conversion (typically m2). Due to the item 7 consideration and the scaling effect a tolerance expressed as a % of total image is given. A manual system of translating the area values into a presentation table is used and subject to human error. Several formulas are used within the table to express comparative analysis (% change etc) and these are also subject to human error.

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TITLE	SHADOW DIAGRAMS PLAN AND VFS
PROJECT	PROPOSED Townhouses 400-404 Cabramatta Rd 2-18 Orange Grove Rd & 6 Links Rd Cabramatta
DESIGNER	
CLIENT	TCON INVESTMENTS
DENEB DESIGN	3D SHADOW DIAGRAMS VISUALISATION + ANALYSIS 02 9997 7480 info@denebdesign.com.au   denebdesign.com.au
	PAGE : SD 01 SCALE : 1:600 (A3) DATE : MAY 23 VERSION : 03 REF : 1973

# CERTIFIED SHADOW DIAGRAM

CERTIFIED SHADOW DIAGRAM  
No : SDC197303  
Refer to attached Certificate.

Certifier:  
C McFadzean  
B Arch BA (Arch) IES ABSA AAAI  
Member of IES  
(The Illuminating Engineers Society of Australia)

## SHADOW AREA KEY

 SHADOW  
POS Solar catchment is calculated as 1 m above FFL for POS in PLAN only.

## DATA SOURCE

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

DESIGNER  
  
Building Designers

CLIENT  
TCOIN INVESTMENTS

DENEB DESIGN  
3D SHADOW DIAGRAMS  
VISUALISATION + ANALYSIS  
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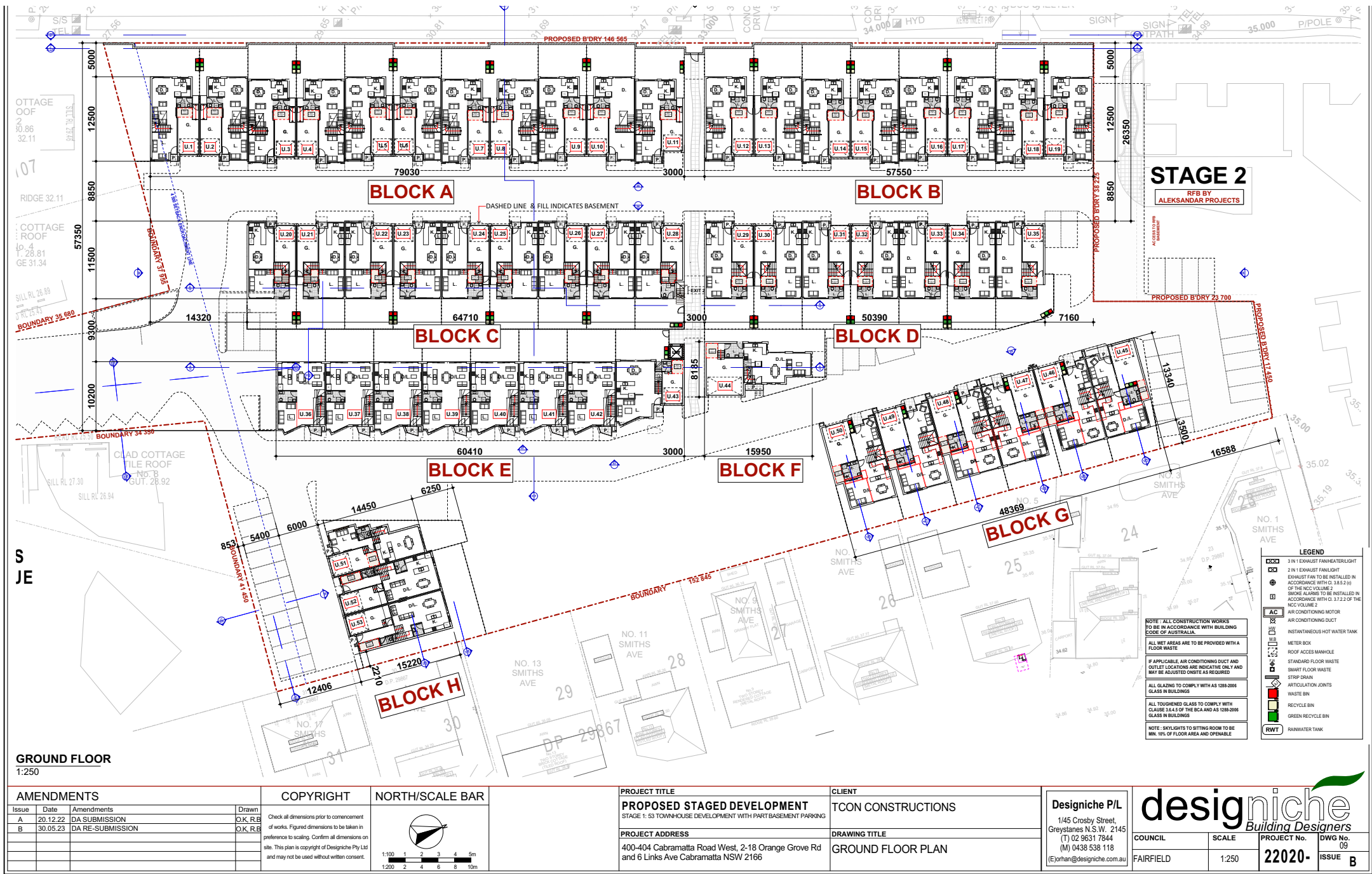
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VERSION	:	03
REF	:	1973

## NOTES

1. Trees, landscape omitted from calculations
2. Side Fence not shown. Courtyard Fencing is shown.
3. True north used as solar north.
4. Terrain is approximate outside of the site
5. Limited survey information available on adjoining sites.
6. Winter solstice - 21 June
7. POS Solar catchment is 1 m above FFL for PLAN view only.
8. Time Zone - AEST unless noted (Aust. Eastern Standard Time - AEST)

## DATA SOURCE (in order of precedence)

- Registered Survey - Embedded into Architectural SITE PLAN - DESIGNNICHE, Ref 22020
- 3D MODEL FROM 3D DATA FILE - DESIGN NICHE - MAY 2023
- Architectural Plans - DESIGN NICHE, Ref B, 22020



## SHADOW AREA KEY

SHADOW  
POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

## SUMMARY TABLE WINTER SOLSTICE 21 JUNE

### TITLE SHADOW DIAGRAMS PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

DESIGNER

**designnische**  
Building Designers

CLIENT

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3D SHADOW DIAGRAMS  
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denebdesign

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		AREAS RECEIVING SUNLIGHT																	
TIME: MID WINTER		900		1000		1100		1200		1300		1400		1500		TOTAL		COMPLIANCE	
BLOCK	UNIT COUNT	LIVING	POS	LIVING	POS	LIVING	POS	LIVING	POS	LIVING	POS	LIVING	POS	LIVING	POS	LIVING	POS	LIVING	POS
BLOCK A	11	yes				yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	5	5	YES	YES
BLOCK B	8	yes				yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	5	5	YES	YES
BLOCK C	9	yes	yes	yes	yes		yes	yes	yes	yes						4	4	YES	YES
BLOCK D	7	yes	yes	yes	yes		yes	yes	yes	yes						4	4	YES	YES
BLOCK E	8	yes		yes	yes		yes	yes	yes	yes	yes	yes				5	4	YES	YES
BLOCK F	1	yes		yes	yes	yes	yes	yes	yes	yes	yes	yes				6	4	YES	YES
BLOCK G (Except U45-46)	4	yes	yes	yes	yes	yes	yes		yes		yes					3	5	YES	YES
U45 - U46	2	yes	yes	yes	yes	yes	yes		yes		yes					3	5	YES	YES
BLOCK H	3	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	7	7	YES	YES
TOTAL	53															53	53	100%	100%



SHADOW AREA KEY

SHADOW

POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

9:00

Winter Solstice June 21

TITLE

SHADOW DIAGRAMS

PLAN

PROJECT

PROPOSED Townhouses

400-404 Cabramatta Rd

2-18 Orange Grove Rd & 6 Links Rd

Cabramatta

DESIGNER

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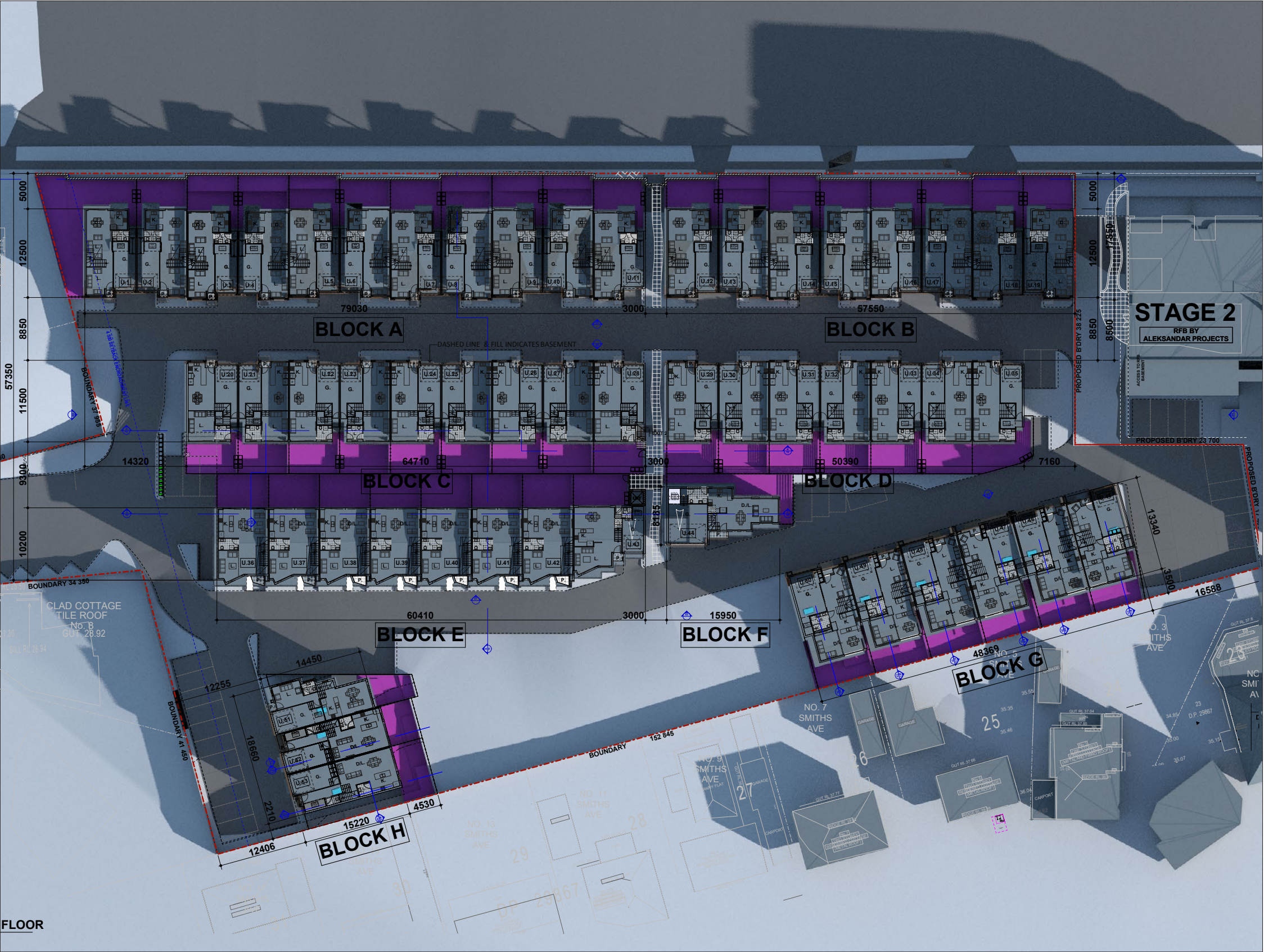
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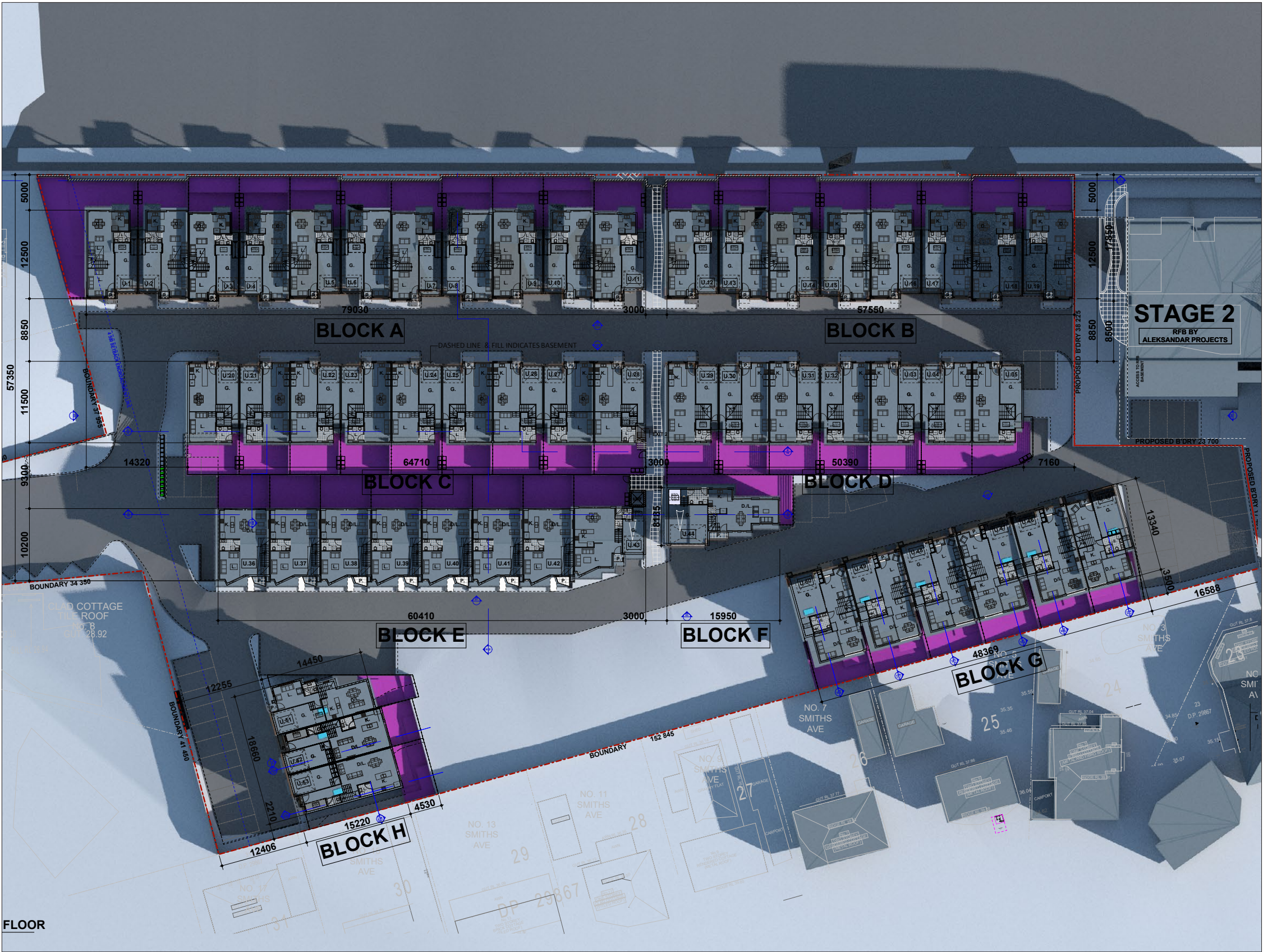
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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
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												PROJECT No.		DWG No.	
												22020-		09	
												ISSUE		B	





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A	20.12.22	DA SUBMISSION	O.K. R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		(T) 02 9631 7844		SCALE	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		(M) 0438 538 118		PROJECT No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				(E)orhan@designniche.com.au		22020-	
														DWG No.	
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No : SDC197303  
Refer to attached Certificate.

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C McFadzean  
B Arch BA (Arch) IES ABSA AAAI  
Member of IES  
(The Illuminating Engineers Society of Australia)

SHADOW AREA KEY

SHADOW

POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

9:15  
Winter Solstice June 21


TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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Building Designers

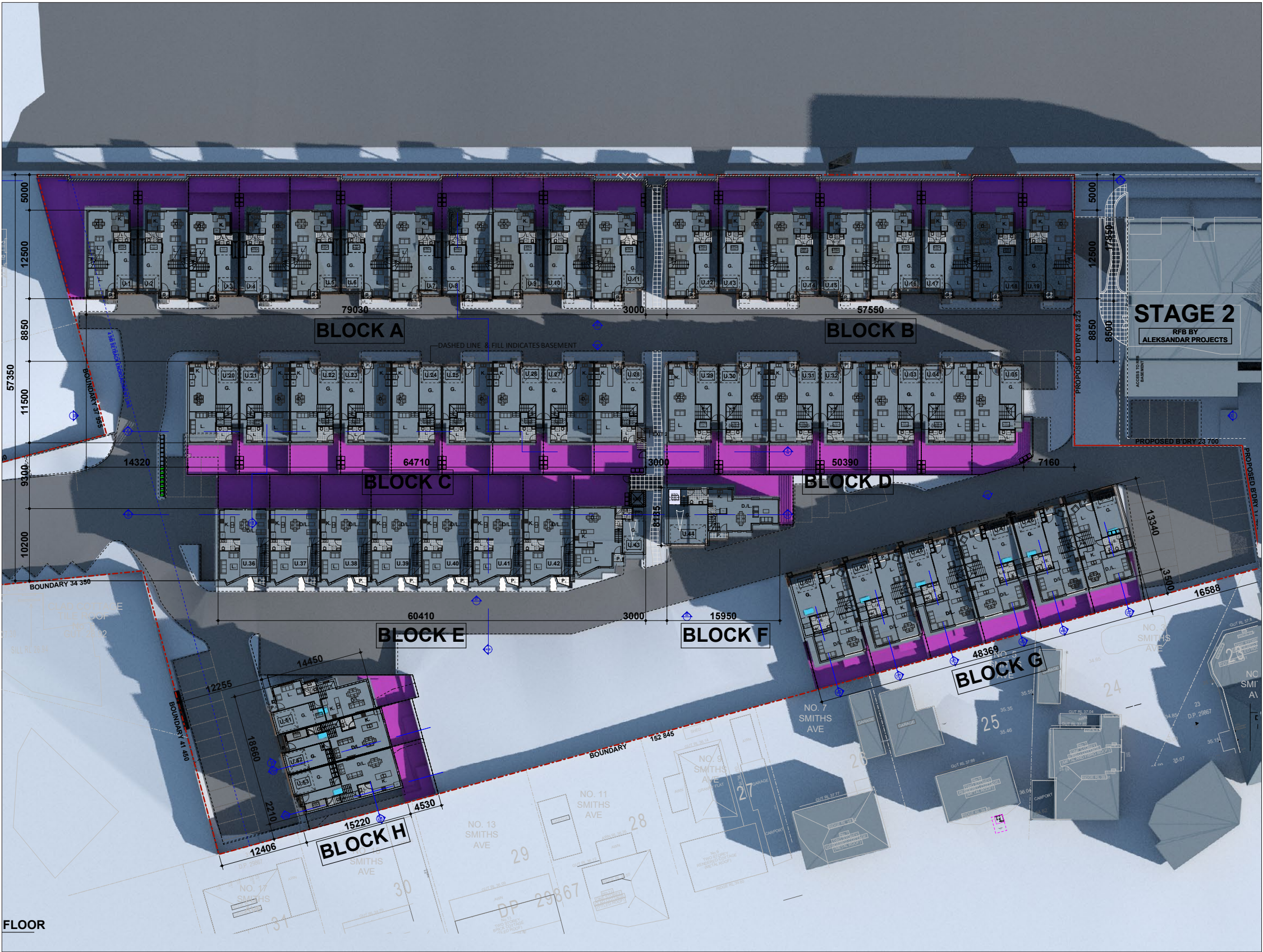
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SHADOW AREA KEY

 SHADOW

POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

9:30  
Winter Solstice June 21


TITLE  
SHADOW DIAGRAMS  
PLAN

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400-404 Cabramatta Rd  
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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.			PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) jordan@designniche.com.au		COUNCIL		DWG No. 09
A	20.12.22	DA SUBMISSION	OK, R.B.				PROJECT ADDRESS		DRAWING TITLE		SCALE		PROJECT No. <b>22020-</b>		
B	01.05.23	DA RE-SUBMISSION	OK, R.B.				400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN		FAIRFIELD			ISSUE <b>B</b>	





Certifier:  
C McFadzean  
B Arch BA (Arch) IES ABSA AAAI

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SHADOW AREA KEY

SHADOW

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9:45

Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

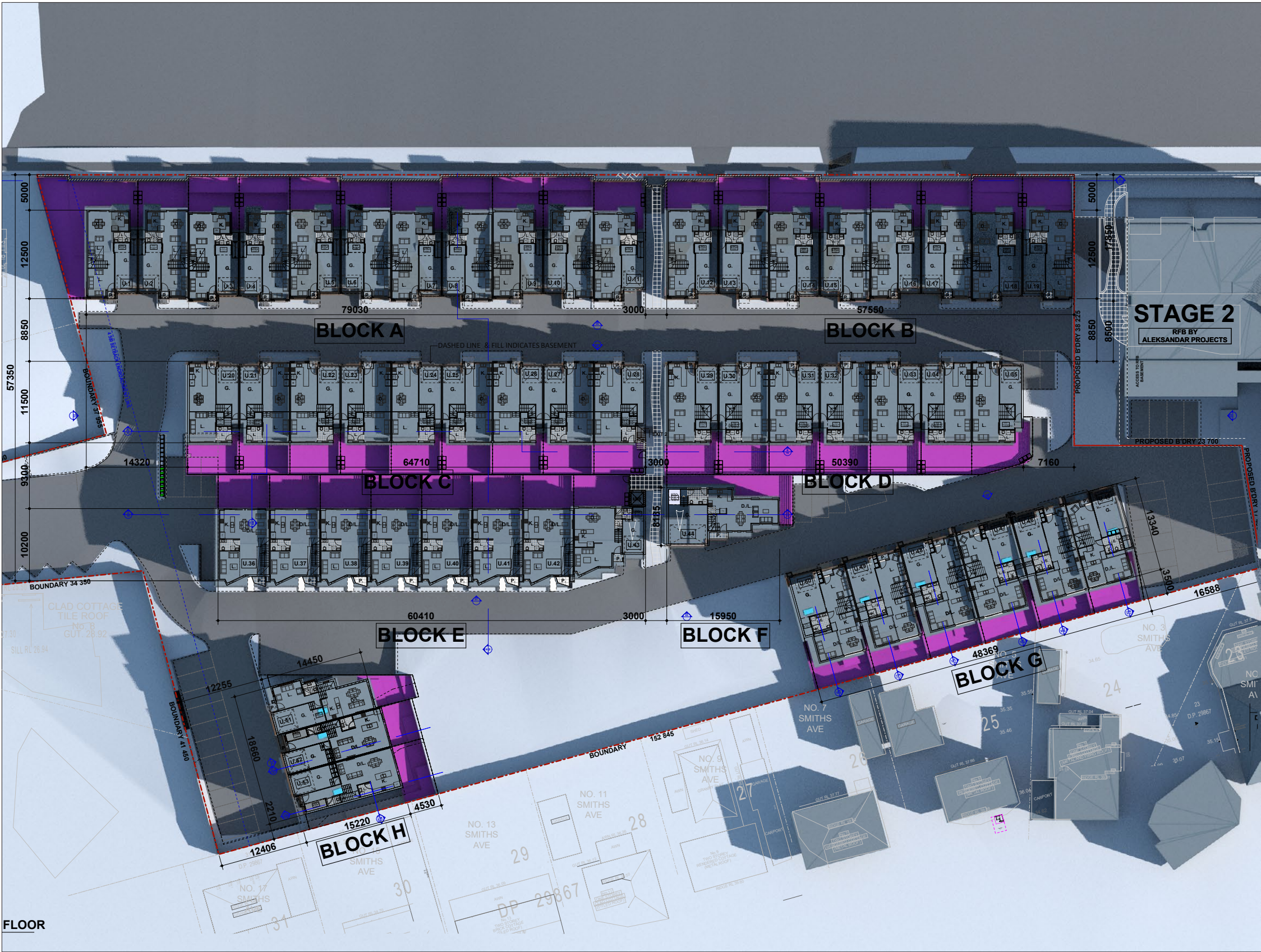
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														09	
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														B	



SHADOW AREA KEY

SHADOW  
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10:00  
Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

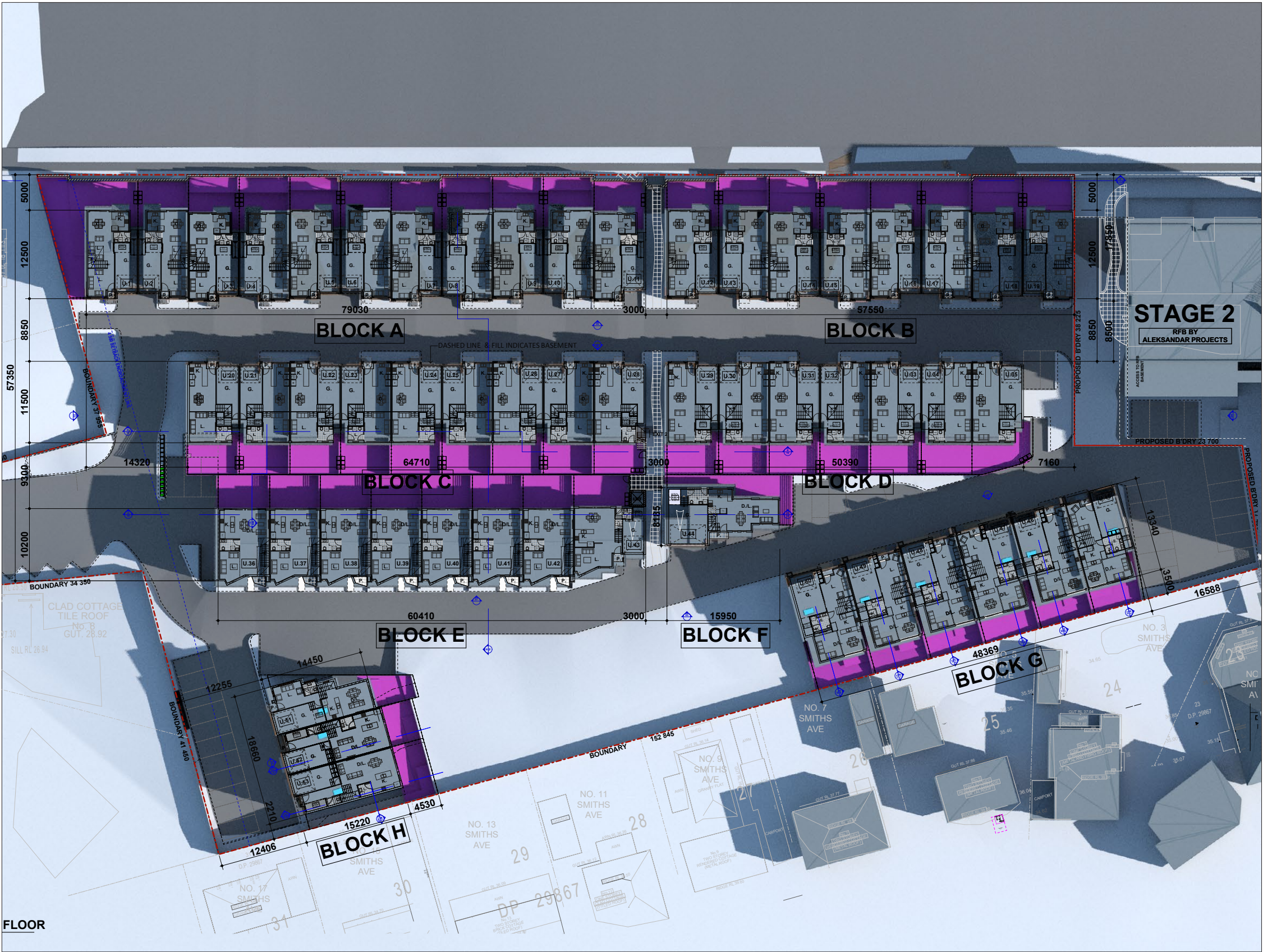
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Winter Solstice June 21

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PLAN

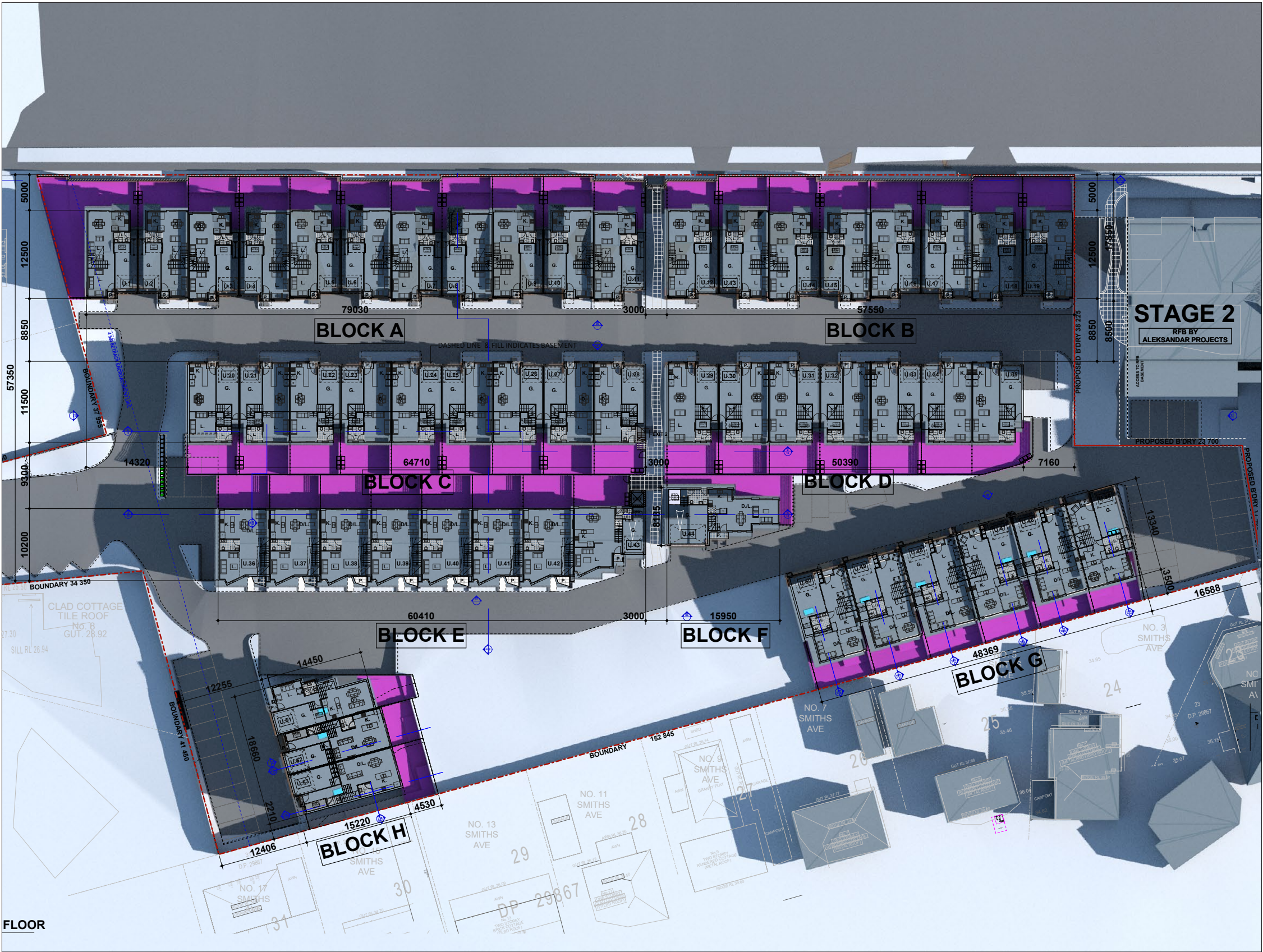
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PROPOSED Townhouses  
400-404 Cabramatta Rd  
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Cabramatta

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A	20.12.22	DA SUBMISSION	O.K. R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		COUNCIL		SCALE	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		FAIRFIELD		PROJECT No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				22020-		DWG No.	
												09		ISSUE	
												B			



SHADOW AREA KEY

SHADOW  
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10:30  
Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

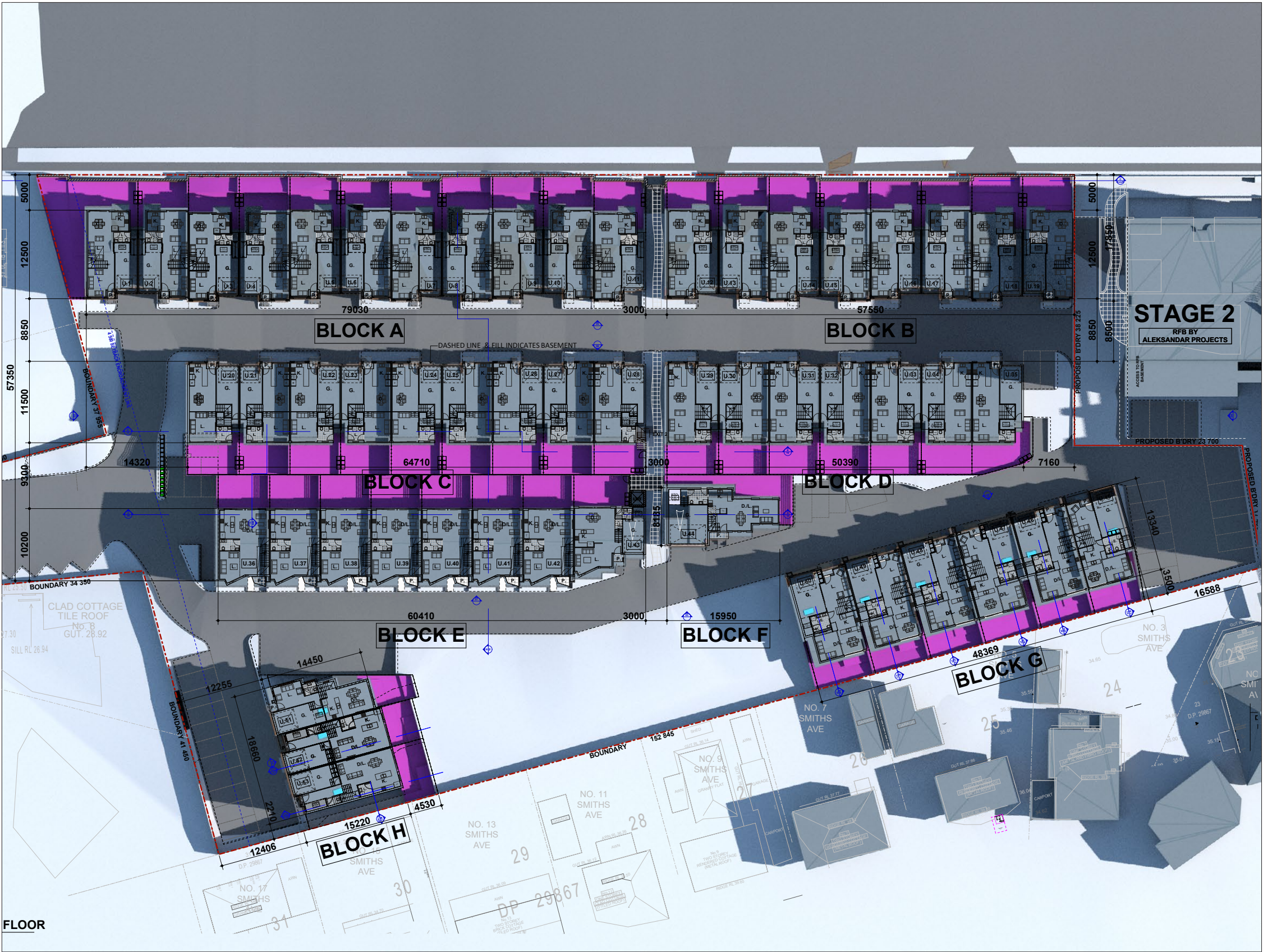
PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
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TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

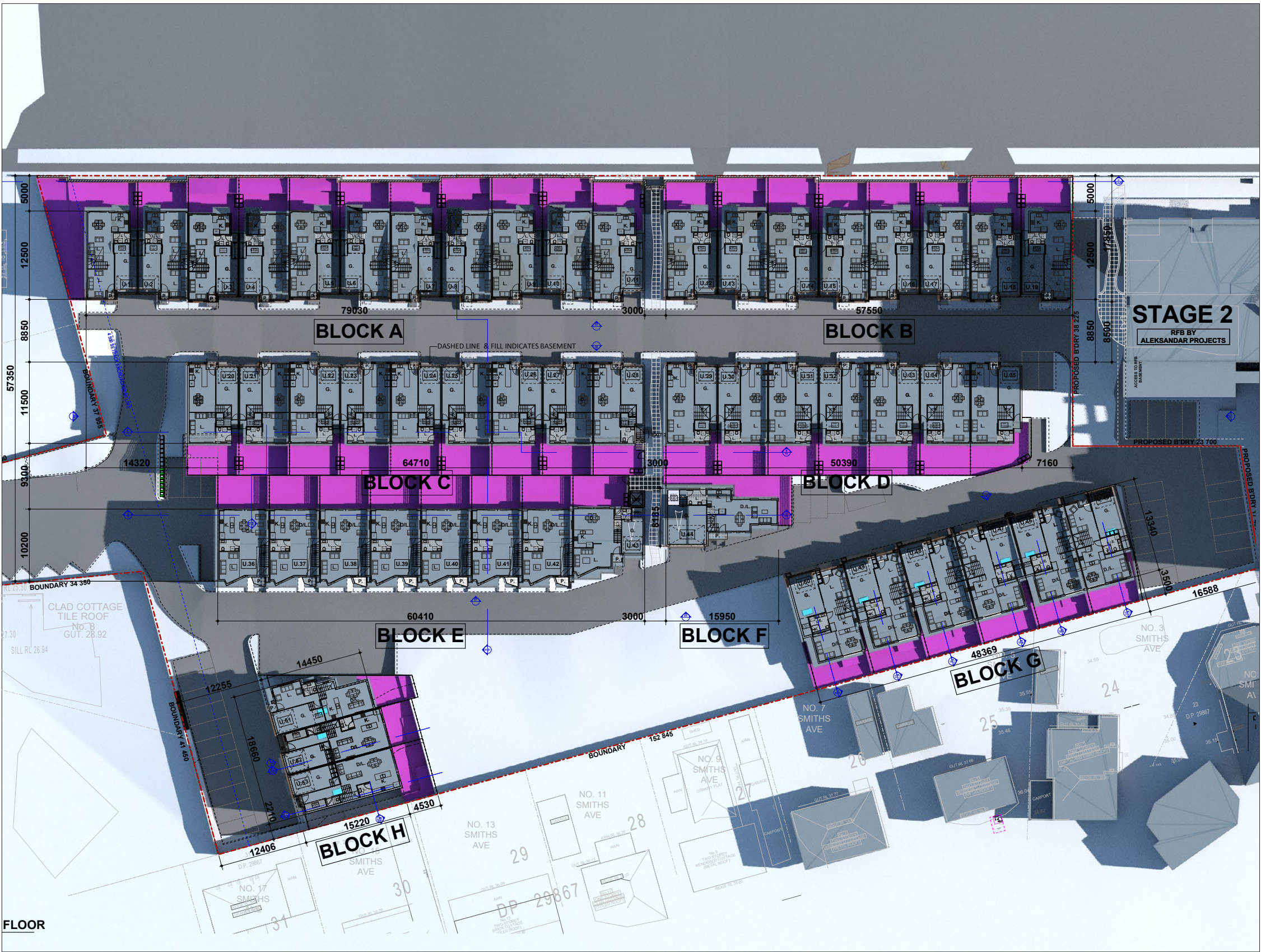
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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
														ISSUE	
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Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

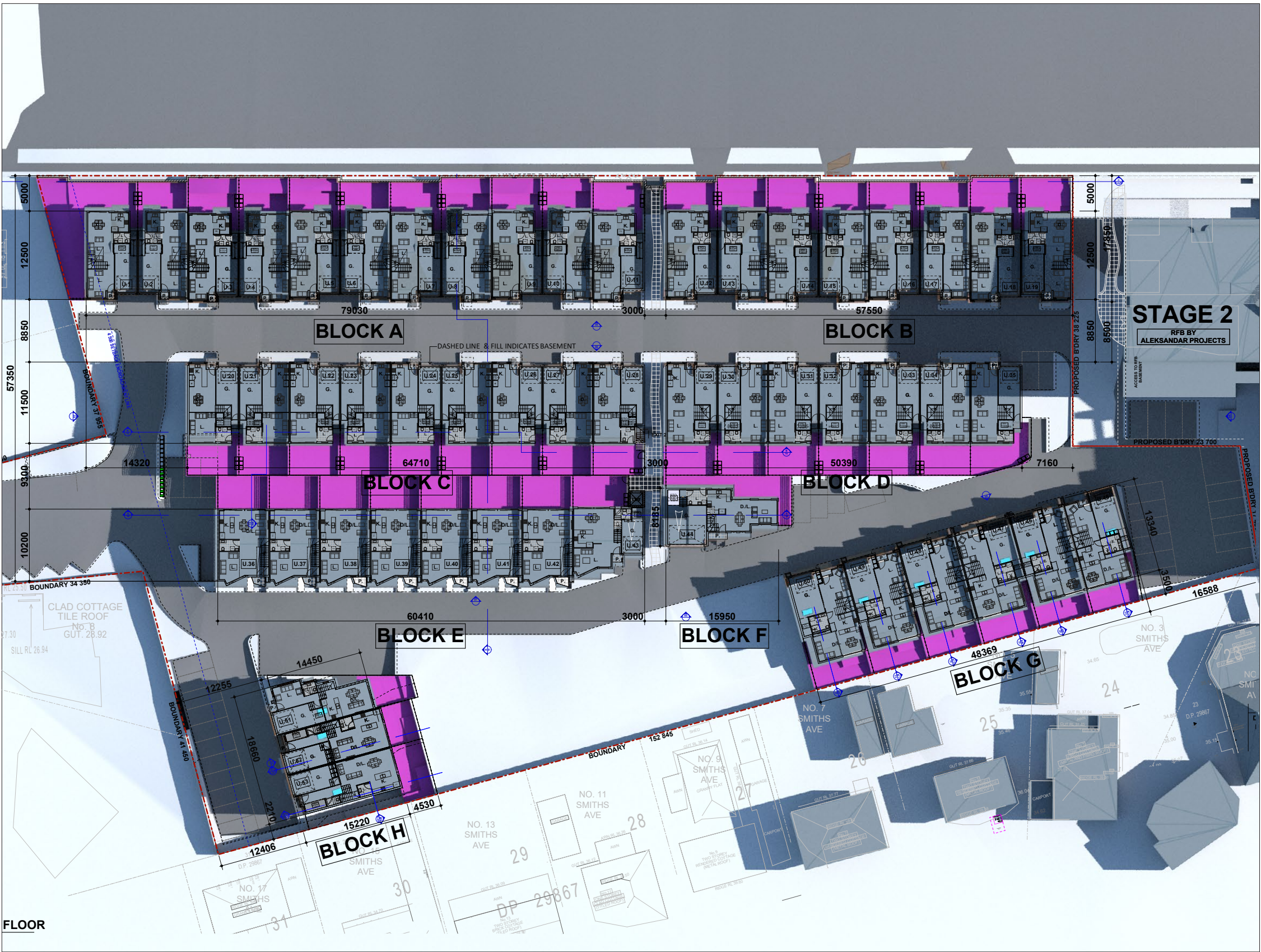
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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN		PROJECT No. 22020-		SCALE 1:250	
												DWG No. 09			
												ISSUE B			



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Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

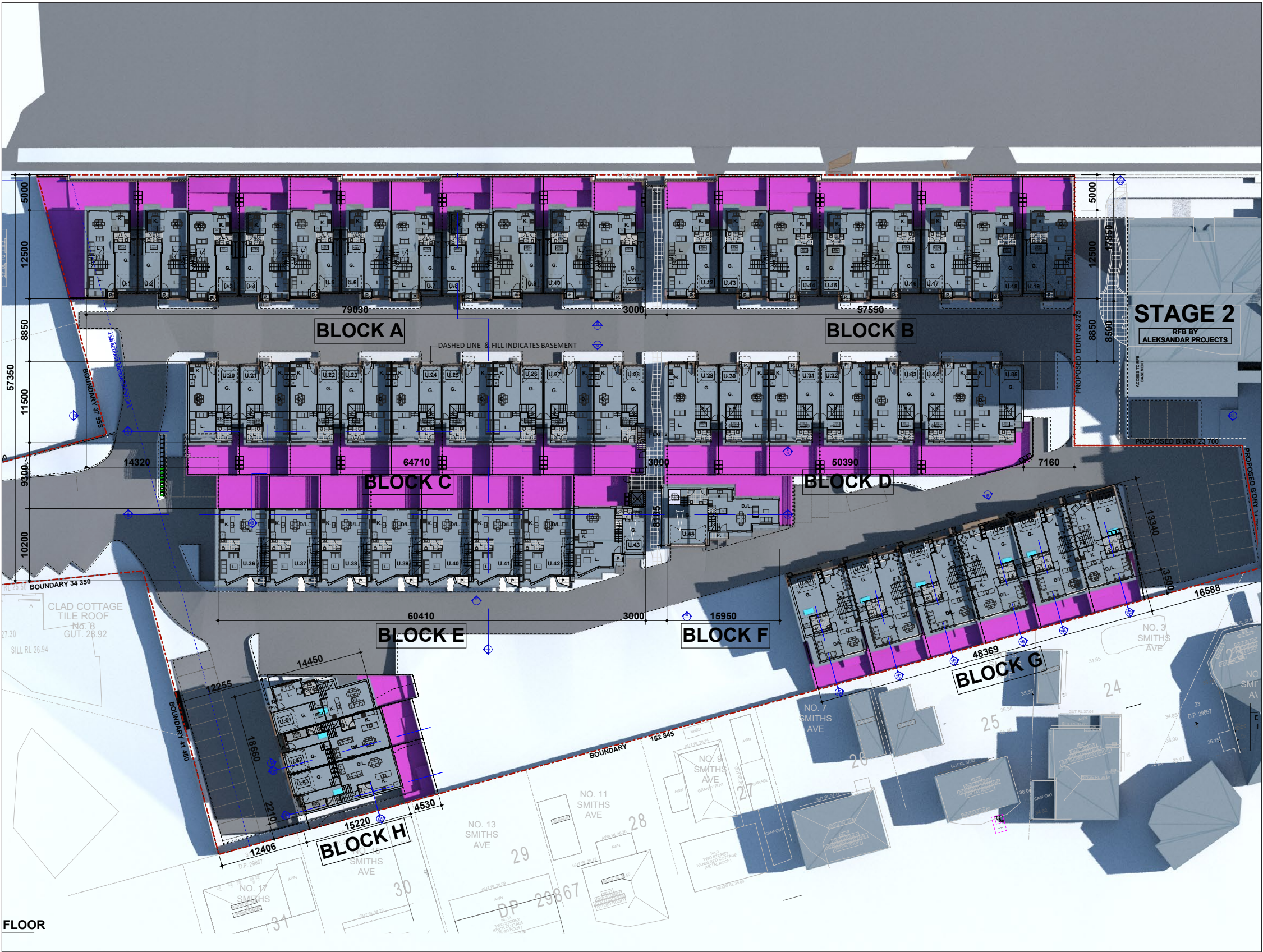
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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
														ISSUE	
														B	



SHADOW AREA KEY

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11:30  
Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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A	20.12.22	DA SUBMISSION	O.K. R.B.					PROJECT ADDRESS		DRAWING TITLE		FAIRFIELD		SCALE	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN		PROJECT No.		DWG No.	
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TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) jordan@designniche.com.au		COUNCIL		SCALE		PROJECT No.		DWG No.	
A	20.12.22	DA SUBMISSION	O.K. R.B.					PROJECT ADDRESS		DRAWING TITLE				FAIRFIELD		1:250		22020-		09	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN								ISSUE		B	



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Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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A	20.12.22	DA SUBMISSION	O.K. R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		COUNCIL		SCALE	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		FAIRFIELD		PROJECT No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				22020-		DWG No.	
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														ISSUE	
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SHADOW AREA KEY

SHADOW  
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12:15  
Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
														ISSUE	
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SHADOW AREA KEY

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12:30  
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TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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A	20.12.22	DA SUBMISSION	O.K. R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		COUNCIL		SCALE	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		FAIRFIELD		PROJECT No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				22020-		DWG No.	
												1:250		09	
														ISSUE	
														B	





SHADOW

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12:45

Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

DESIGNER

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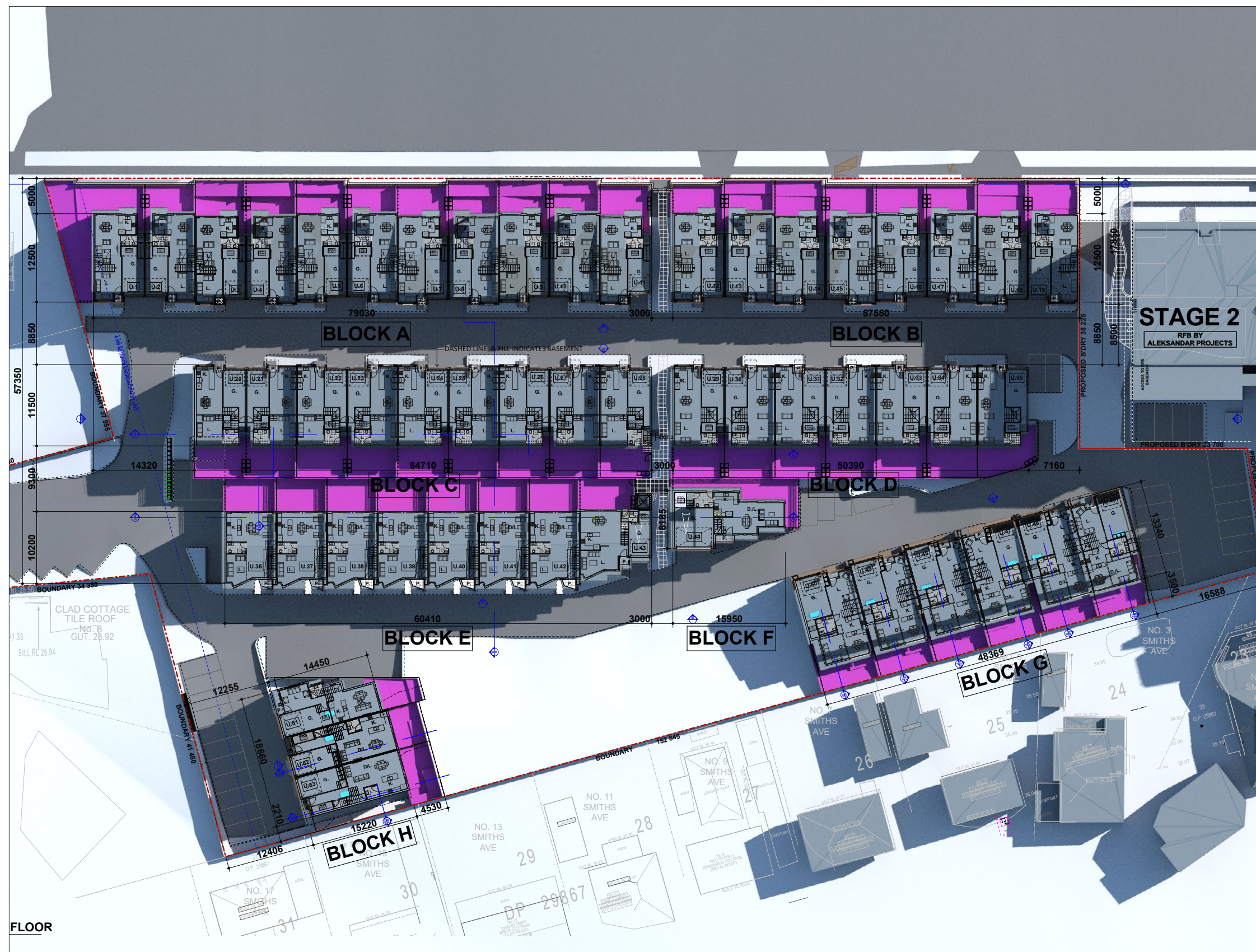
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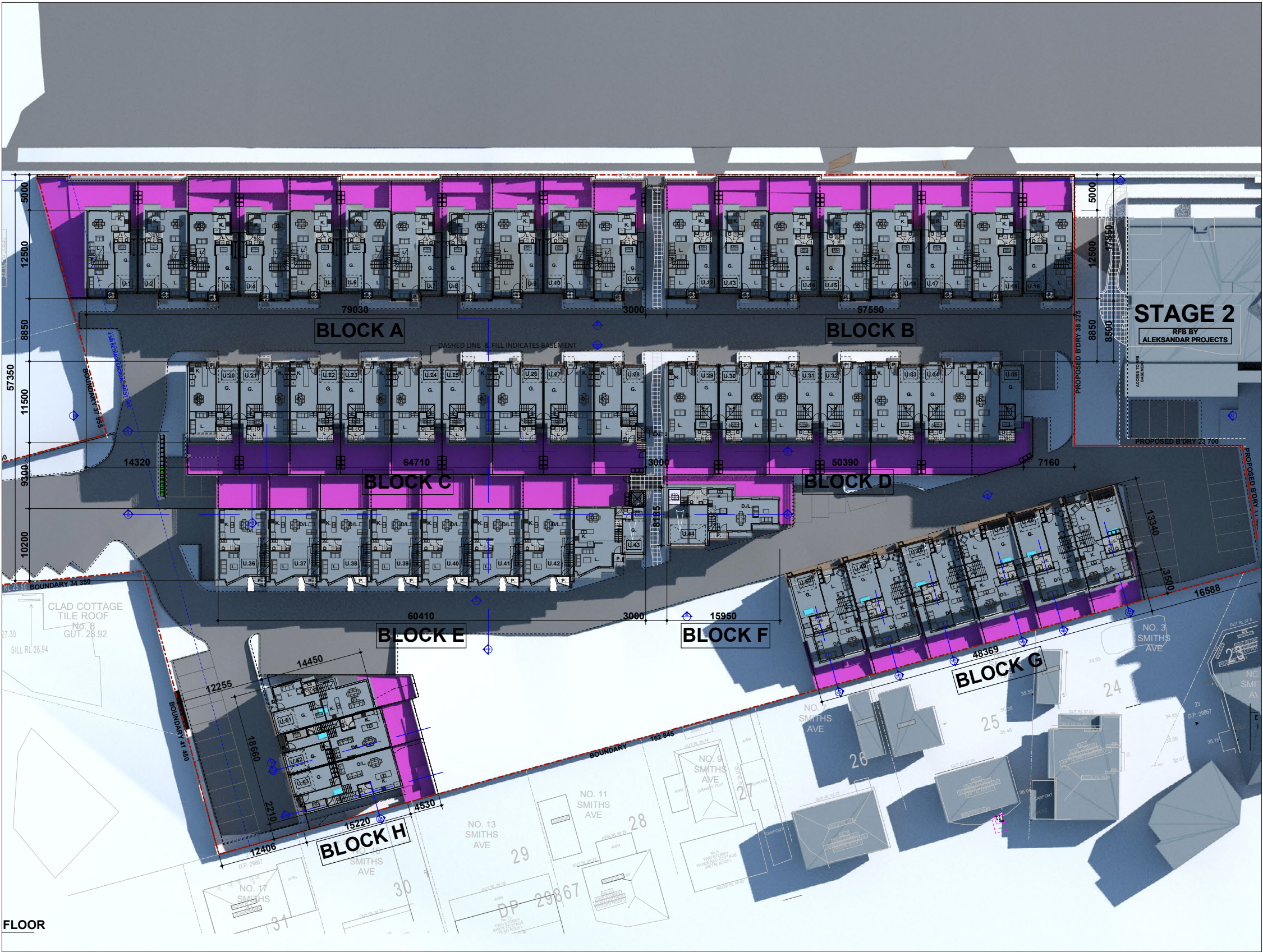


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Issue	Date	Amendments	Drawn	<div>Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designiche Pty Ltd and may not be used without written consent.</div>	<div></div> <div><div>1:100</div><div>1200</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5m</div><div>0m</div></div>	<div>PROPOSED STAGED DEVELOPMENT</div> <div>STAGE 1: S3 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING</div>				TCON CONSTRUCTIONS								
A	20.12.22	DA SUBMISSION	O.K. R.E.			<div>PROJECT ADDRESS</div> <div>400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166</div>				<div>DRAWING TITLE</div> <div>GROUND FLOOR PLAN</div>								
B	01.05.23	DA RE-SUBMISSION	O.K. R.E.															





SHADOW AREA KEY

SHADOW

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13:00  
Winter Solstice June 21


TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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Issue	Date	Amendments	Drawn	<div>Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.</div> <div> <div><div>1:10012345m</div><div>1:200246810m</div></div></div>		<div>PROPOSED STAGED DEVELOPMENT</div> <div>STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING</div> <div>PROJECT ADDRESS</div> <div>400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166</div>		<div>DRAWING TITLE</div> <div>GROUND FLOOR PLAN</div>		<div>Designniche P/L</div> <div>1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) jordan@designniche.com.au</div>		<div>COUNCIL</div> <div>FAIRFIELD</div> <div>SCALE</div> <div>1:250</div> <div>PROJECT No.</div> <div>22020-</div> <div>DWG No.</div> <div>09</div> <div>ISSUE</div> <div>B</div>			
A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												



SHADOW AREA KEY

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13:15  
Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

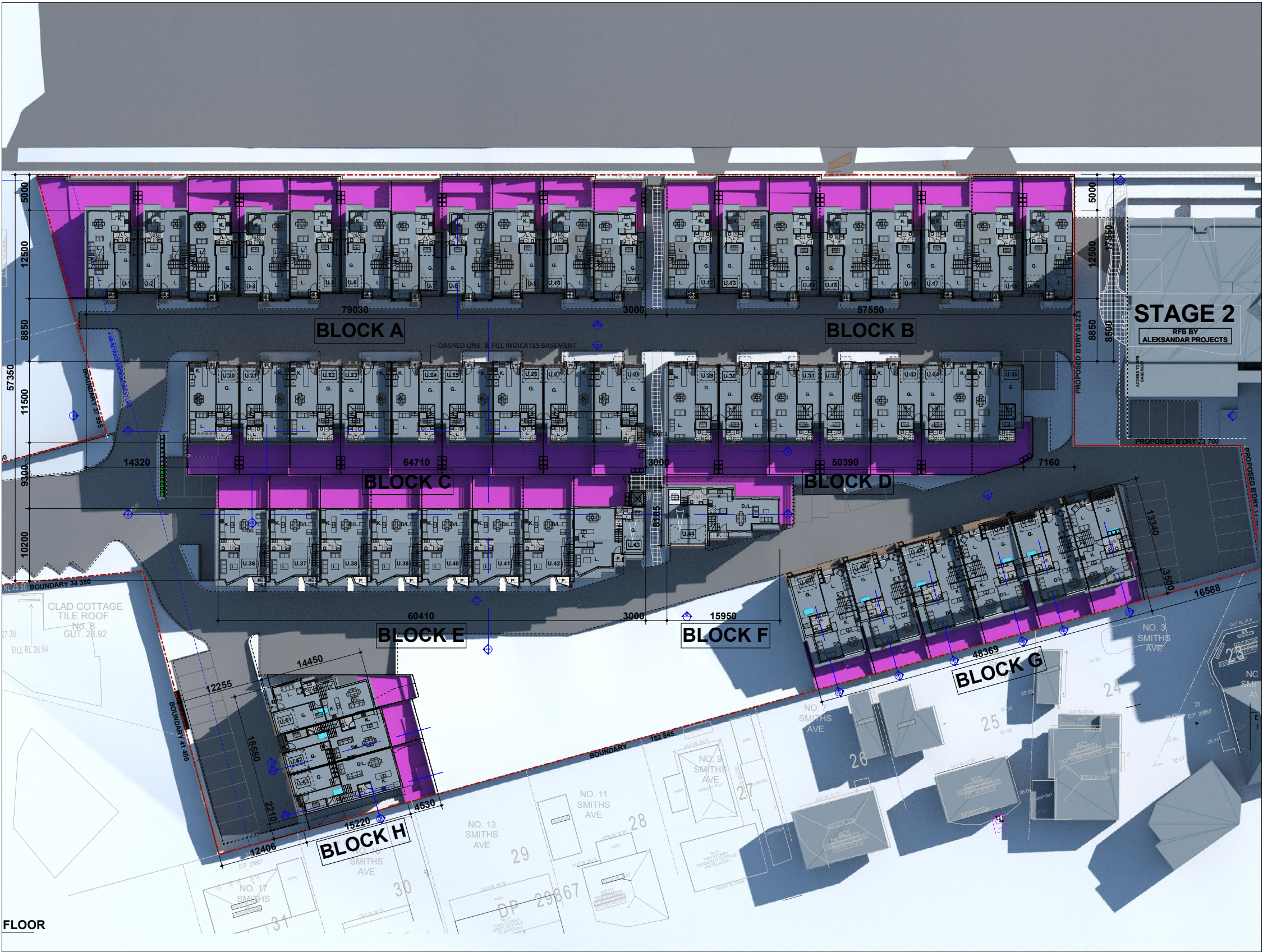
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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT		TCON CONSTRUCTIONS		1/45 Crosby Street, Greyhounds N.S.W. 2145		COUNCIL	
A	20.12.22	DA SUBMISSION	O.K. R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		(T) 02 9631 7844		SCALE	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		(M) 0438 538 118		PROJECT No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				(E) jordan@designniche.com.au		22020-	
														DWG No. 09	
														ISSUE B	



SHADOW AREA KEY

SHADOW  
POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

13:30  
Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

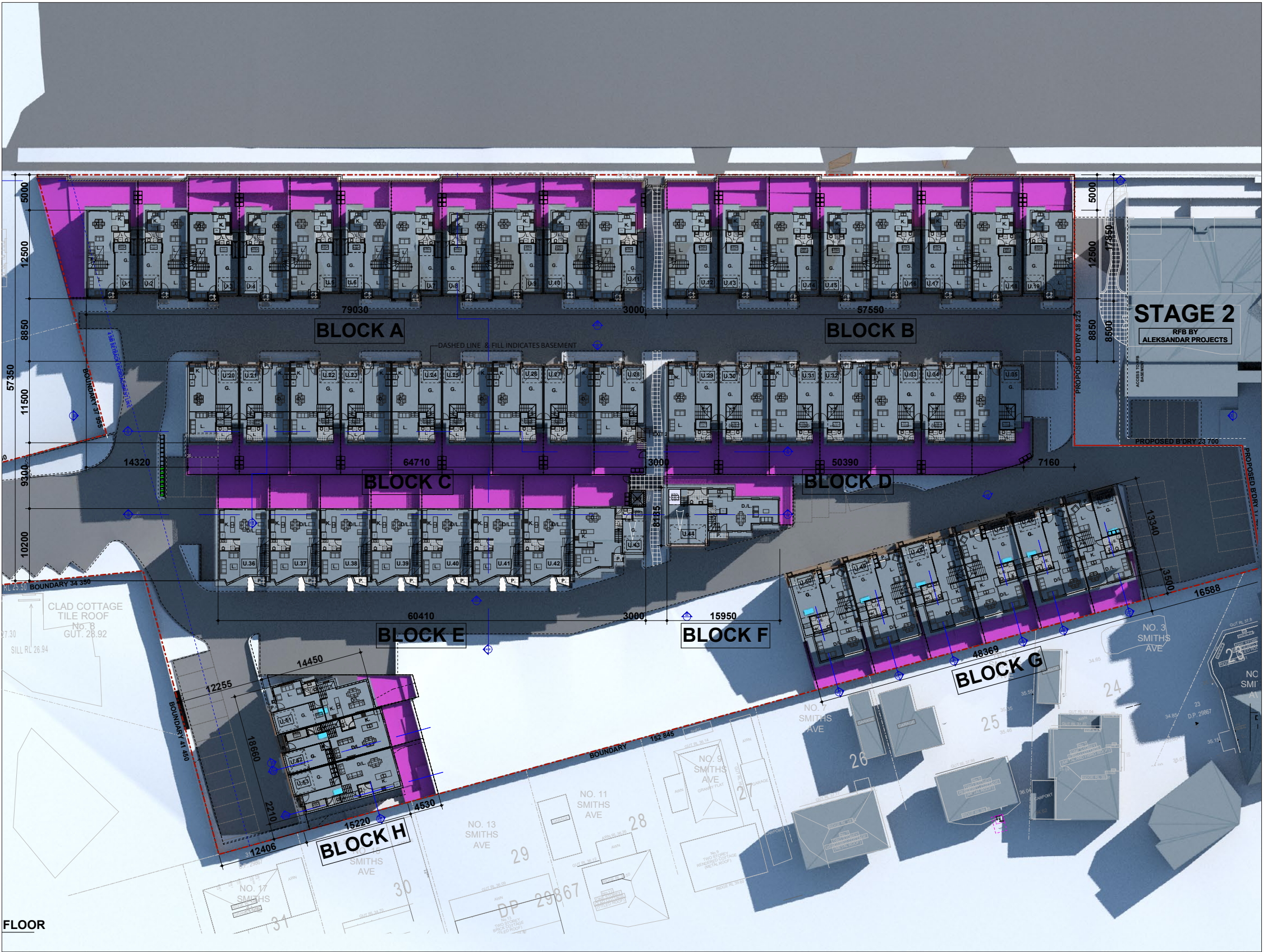
PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) jordan@designniche.com.au		COUNCIL FAIRFIELD	
A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
														ISSUE	
														B	



SHADOW AREA KEY

SHADOW  
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13:45  
Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

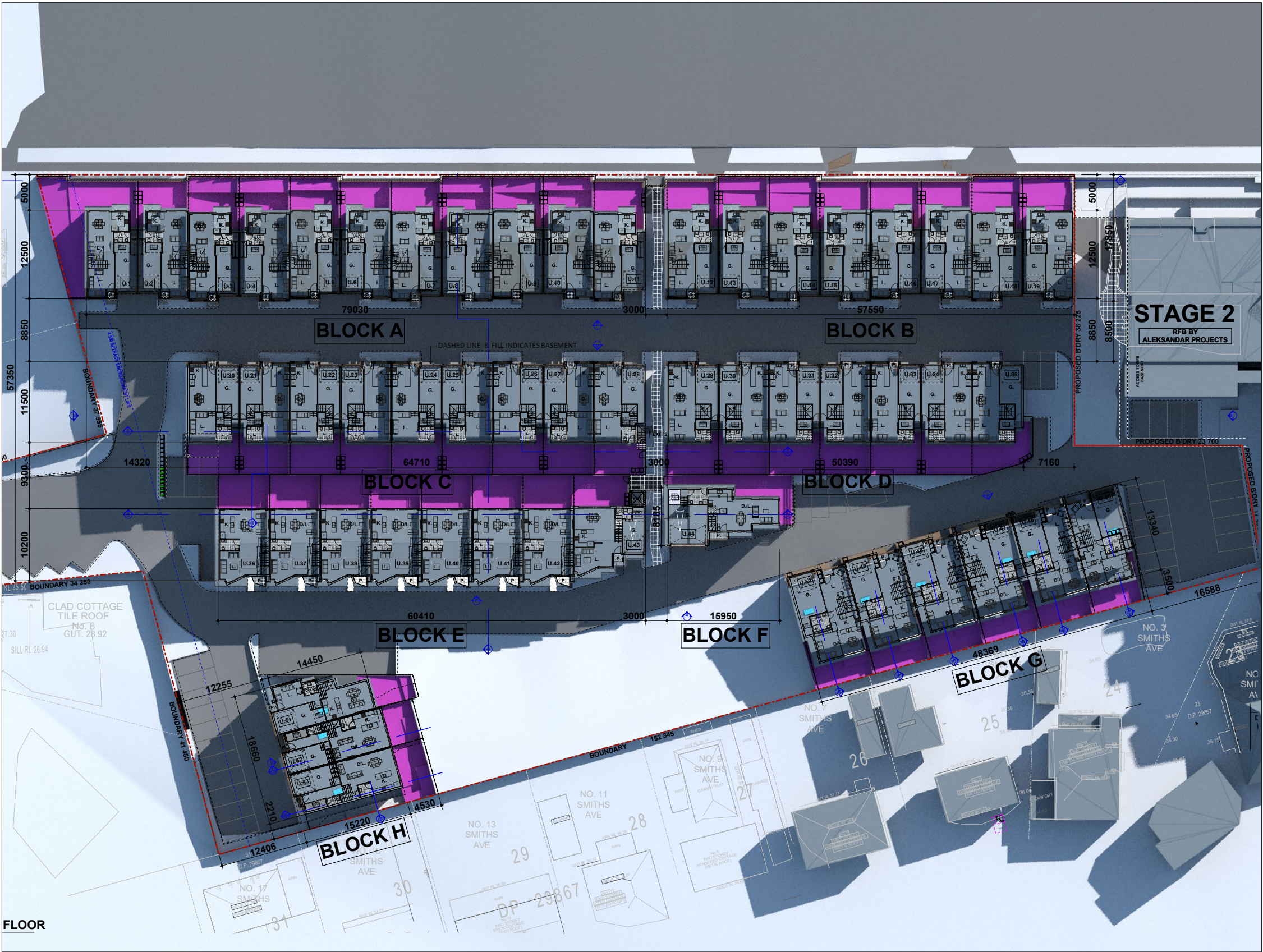
PROJECT  
PROPOSED Townhouses  
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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) jordan@designniche.com.au		COUNCIL FAIRFIELD	
A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
														ISSUE	
														B	



SHADOW AREA KEY

SHADOW  
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14:00  
Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

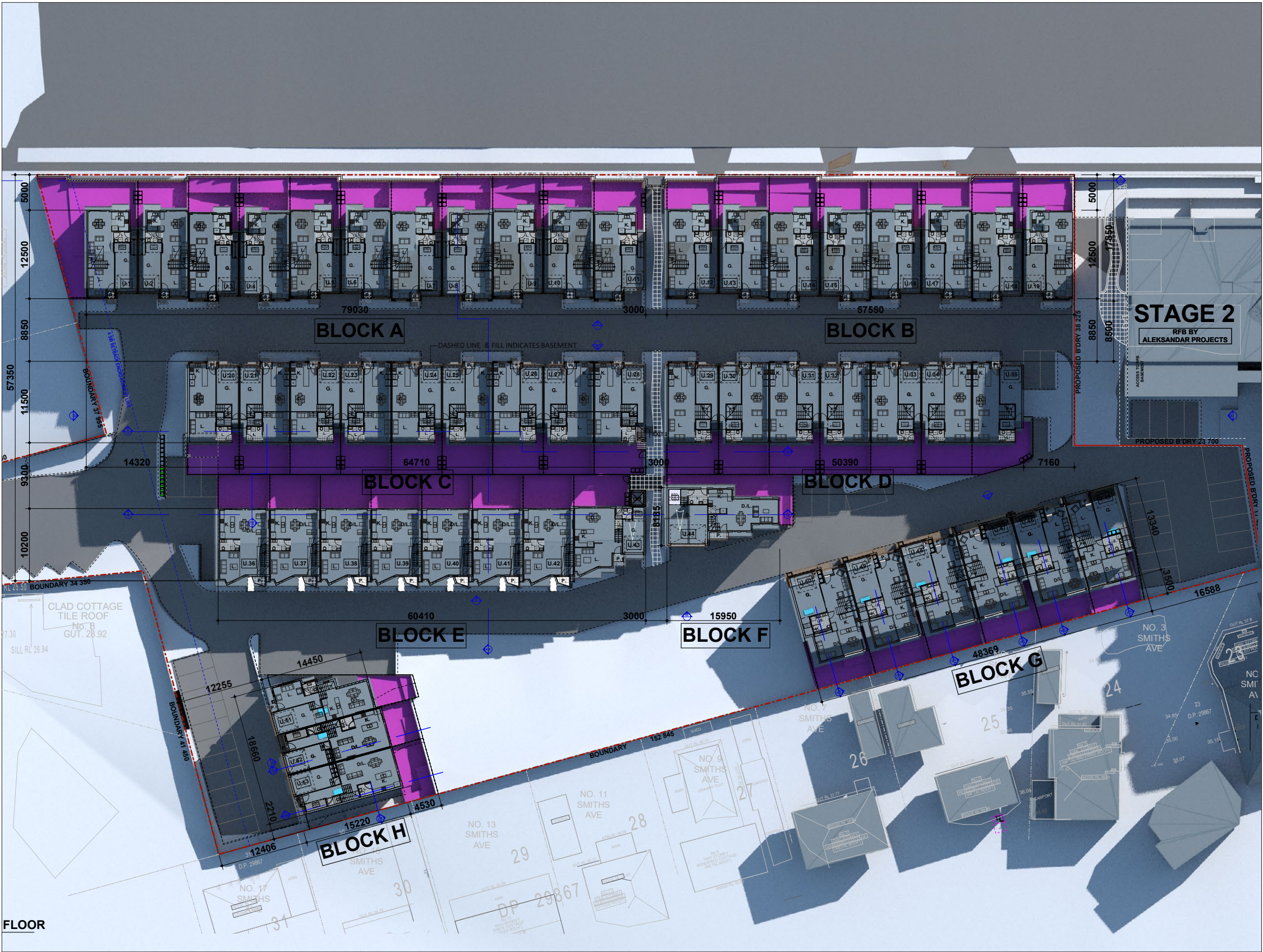
PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) jordan@designniche.com.au		COUNCIL FAIRFIELD	
A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
														ISSUE	
														B	



SHADOW AREA KEY

SHADOW  
POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

14:15  
Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

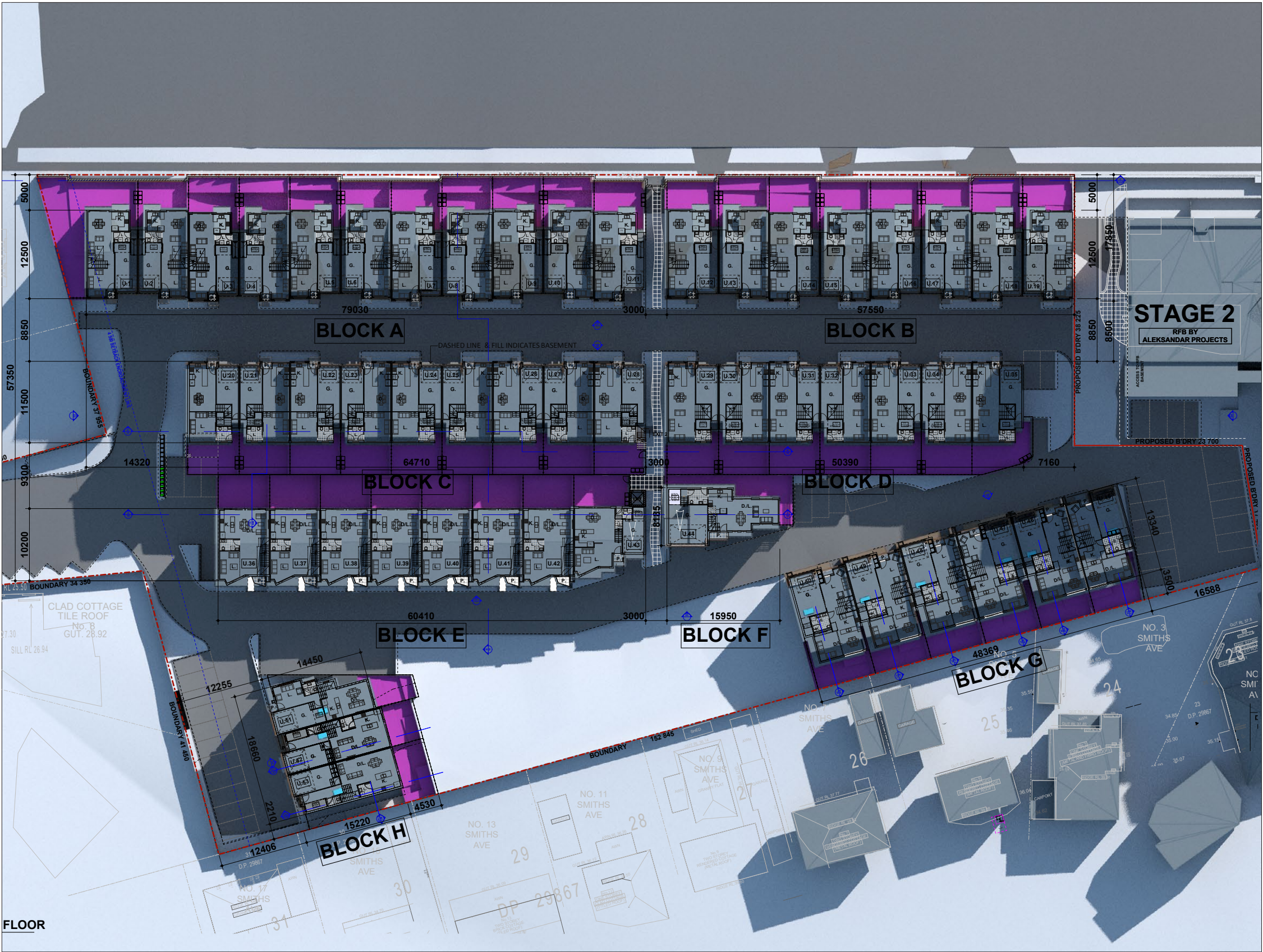
PROJECT  
PROPOSED Townhouses  
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2-18 Orange Grove Rd & 6 Links Rd  
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Issue	Date	Amendments	Drawn				PROPOSED STAGED DEVELOPMENT		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) jordan@designniche.com.au		COUNCIL	SCALE
A	20.12.22	DA SUBMISSION	O.K.R.B.	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.			STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE				FAIRFIELD	1:250
B	01.05.23	DA RE-SUBMISSION	O.K.R.B.				400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				PROJECT No.	DWG No.
													22020-	09
													ISSUE	B



SHADOW AREA KEY

SHADOW  
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14:30  
Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

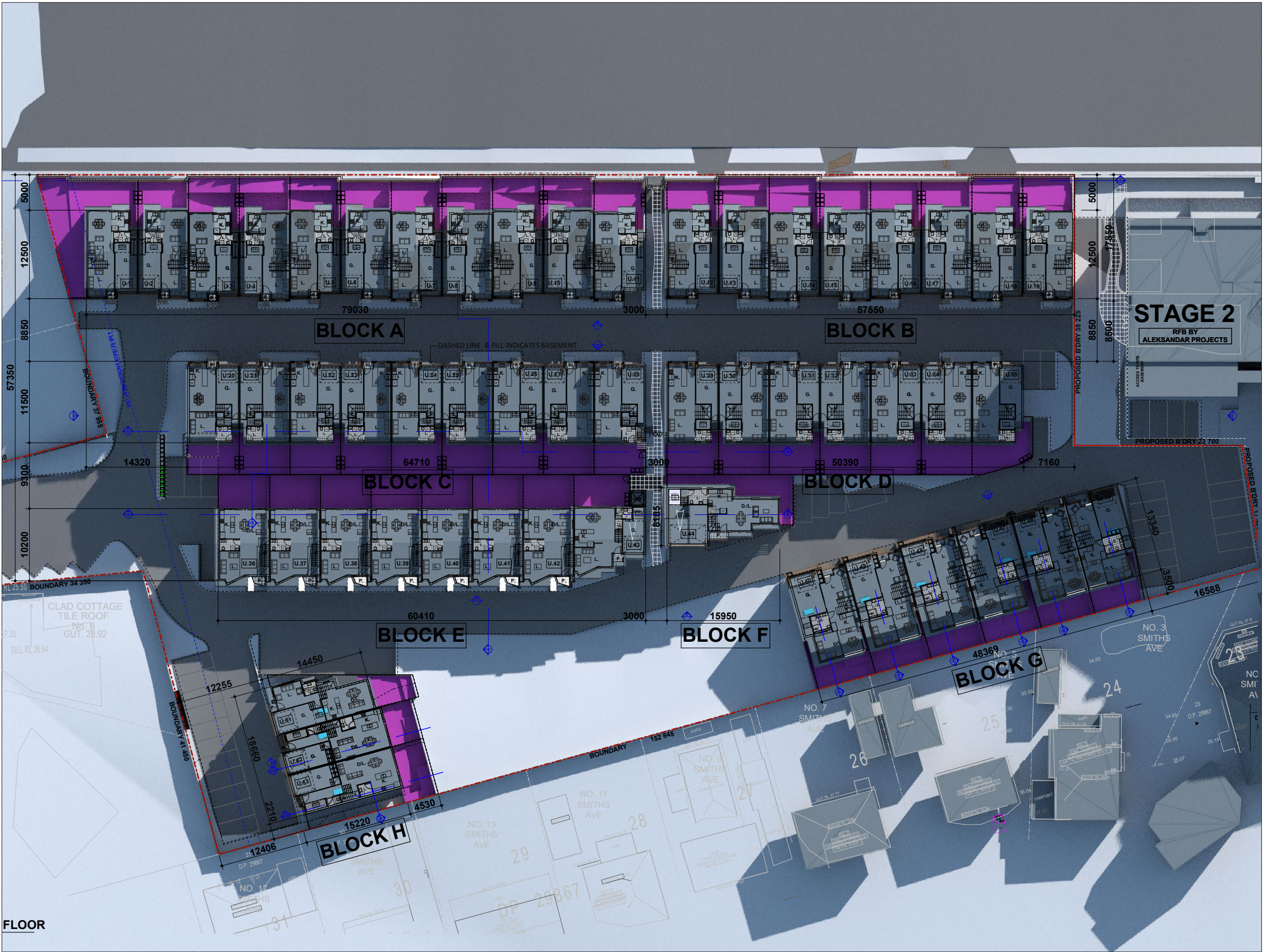
PROJECT  
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2-18 Orange Grove Rd & 6 Links Rd  
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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT		TCON CONSTRUCTIONS		1/45 Crosby Street, Greyhounds N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) jordan@designniche.com.au		COUNCIL	
A	20.12.22	DA SUBMISSION	O.K. R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		FAIRFIELD		SCALE	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		PROJECT No.		DWG No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				22020-		09	
														ISSUE	
														B	



SHADOW AREA KEY

SHADOW  
POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

14:45  
Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

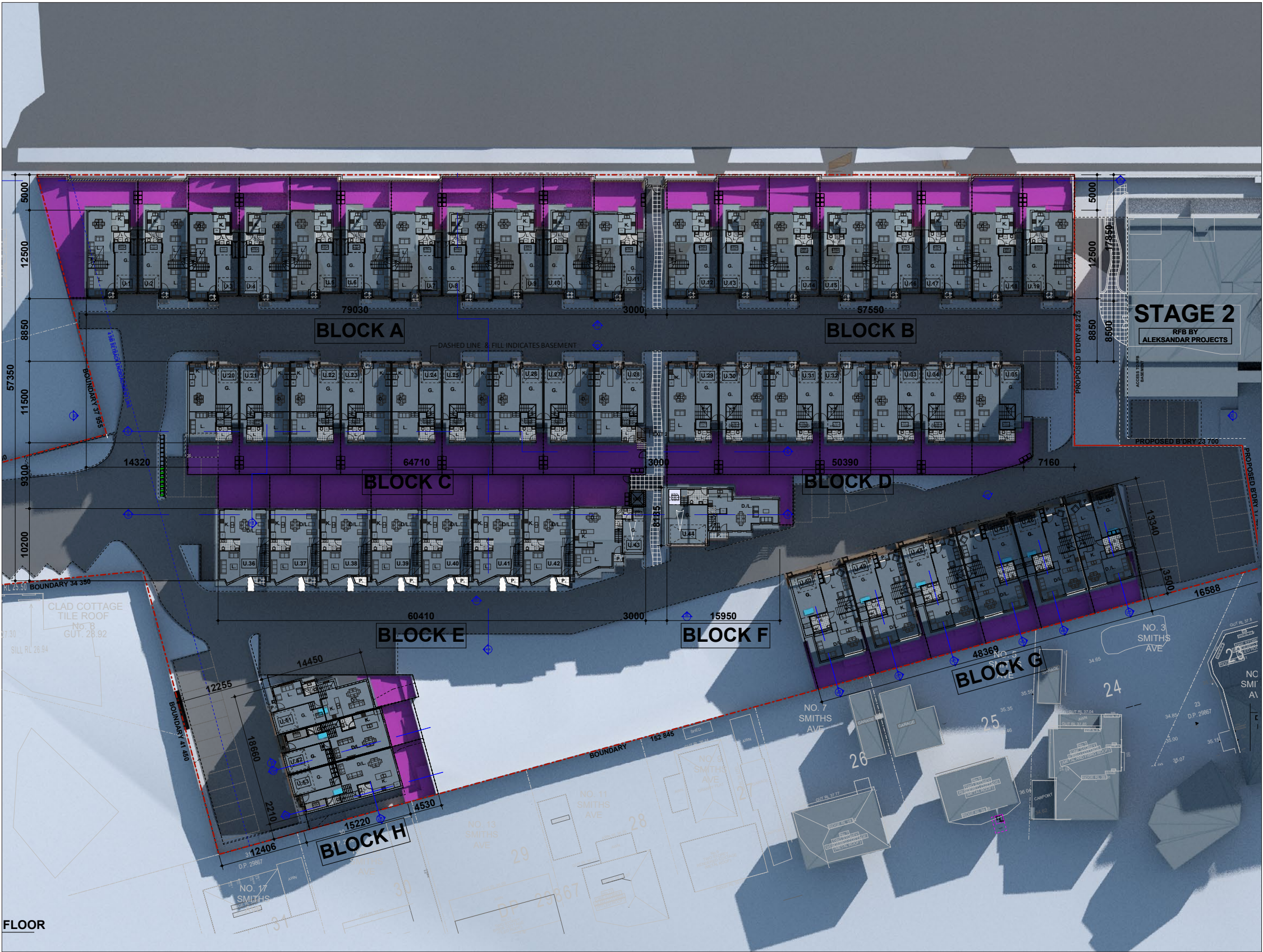
PROJECT  
PROPOSED Townhouses  
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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) jordan@designniche.com.au		COUNCIL FAIRFIELD		SCALE 1:250		PROJECT No. 22020-		DWG No. 09 ISSUE B	
A	20.12.22	DA SUBMISSION	O.K. R.B.																		
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.																		
								PROJECT ADDRESS		DRAWING TITLE											
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN											



SHADOW AREA KEY

SHADOW  
POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

15:00  
Winter Solstice June 21

TITLE  
SHADOW DIAGRAMS  
PLAN

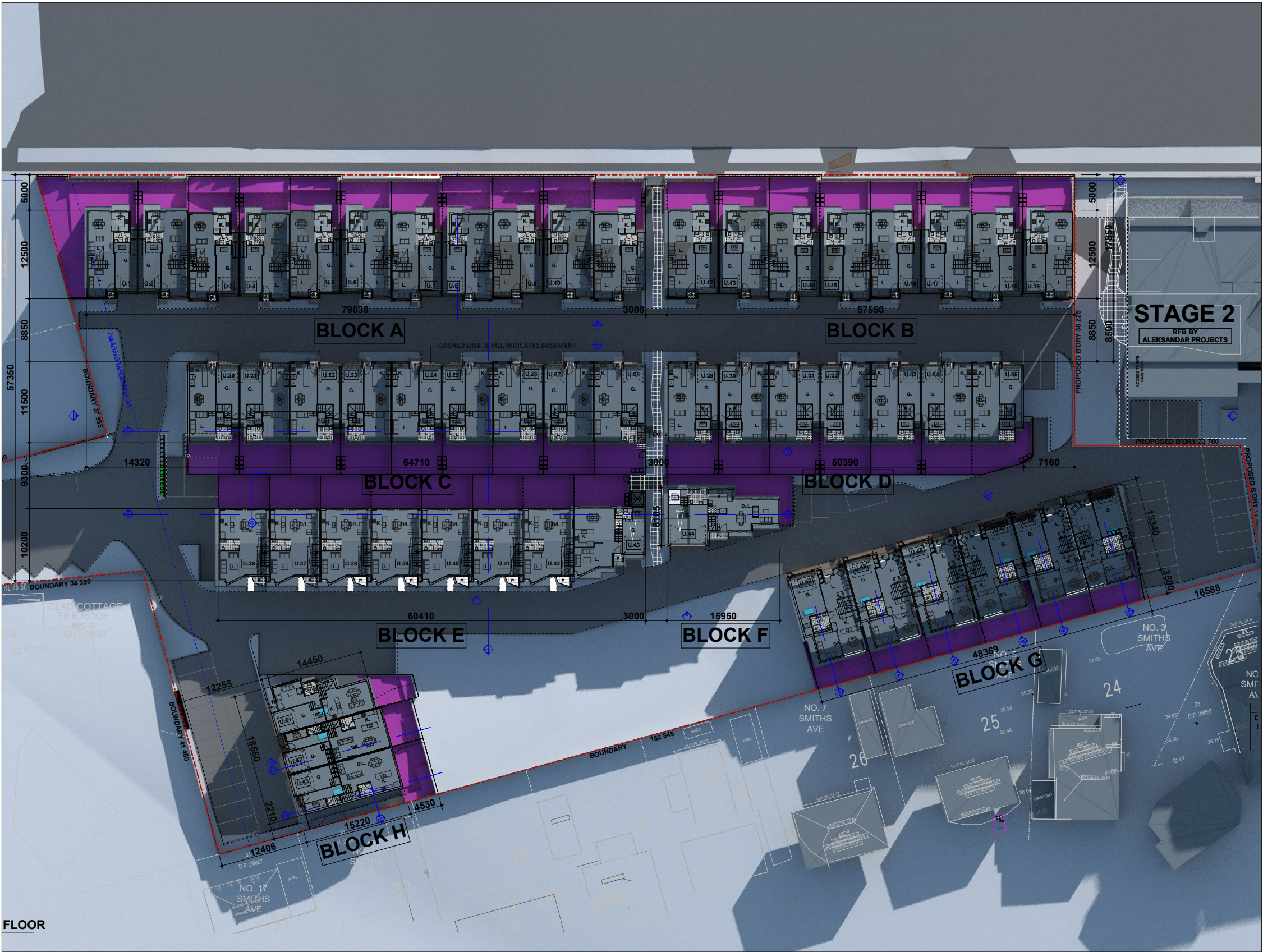
PROJECT  
PROPOSED Townhouses  
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2-18 Orange Grove Rd & 6 Links Rd  
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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.		 1:100 1 2 3 4 5m 1:200 2 4 6 8 10m		PROPOSED STAGED DEVELOPMENT		TCON CONSTRUCTIONS		145 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) jordan@designniche.com.au		Building Designers	
A	20.12.22	DA SUBMISSION	OK R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		COUNCIL		SCALE	
B	01.05.23	DA RE-SUBMISSION	OK R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		FAIRFIELD		PROJECT No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				22020-		DWG No.	
												09		ISSUE	
												B			



SHADOW AREA KEY

SHADOW  
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9:00  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) orhan@designniche.com.au		COUNCIL FAIRFIELD	
A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN		PROJECT No. 22020-		SCALE 1:250	
												DWG No. 09			
												ISSUE B			



SHADOW AREA KEY

SHADOW  
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9:15  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.	1:100 1 2 3 4 5m 1:200 2 4 6 8 10m		PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) orhan@designniche.com.au		COUNCIL SCALE PROJECT No. DWG No. ISSUE	
A	20.12.22	DA SUBMISSION	O.K. R.B.				PROJECT ADDRESS		DRAWING TITLE		FAIRFIELD		22020-09	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.				400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				B	





SHADOW AREA KEY

SHADOW

POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

9:30  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN


PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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Issue	Date	Amendments	Drawn	<div>Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.</div> <div> 1:100 1 2 3 4 5m 1:200 2 4 6 8 10m</div>
A	20.12.22	DA SUBMISSION	O.K. R.B.	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.	

PROJECT TITLE  
**PROPOSED STAGED DEVELOPMENT**  
STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING

PROJECT ADDRESS  
400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166

CLIENT  
TCON CONSTRUCTIONS

DRAWING TITLE  
GROUND FLOOR PLAN

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Greystanes N.S.W. 2145  
(T) 02 9631 7844  
(M) 0438 538 118  
(E) jordan@designniche.com.au

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COUNCIL  
FAIRFIELD

SCALE  
1:250

PROJECT No.  
**22020-**

DWG No.  
09

ISSUE  
**B**



SHADOW AREA KEY

SHADOW  
POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

9:45

Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designiche Pty Ltd and may not be used without written consent.		 1:100 1 2 3 4 5m 1:200 2 4 6 8 10m		PROPOSED STAGED DEVELOPMENT		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) orhan@designiche.com.au		Building Designers	
A	20.12.22	DA SUBMISSION	O.K. R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		COUNCIL		SCALE	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		FAIRFIELD		PROJECT No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				22020-		DWG No.	
														09	
														ISSUE	
														B	





SHADOW

POS Solar catchment is calculated as 1 m above FFL for POS in PLAN only.

10:00

Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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Issue	Date	Amendments	Drawn	<div>Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designiche Pty Ltd and may not be used without written consent.</div> <div> </div>		PROPOSED STAGED DEVELOPMENT STAGE 1: S3 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING				TCON CONSTRUCTIONS									
A	20.12.22	DA SUBMISSION	O.K R.E			PROJECT ADDRESS				DRAWING TITLE									
B	01.05.23	DA RE-SUBMISSION	O.K R.E			400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				GROUND FLOOR PLAN									



SHADOW AREA KEY

SHADOW  
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10:15

Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta


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A	20.12.22	DA SUBMISSION	OK R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		COUNCIL		SCALE	
B	01.05.23	DA RE-SUBMISSION	OK R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		FAIRFIELD		PROJECT No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				22020-		DWG No.	
												1:250		09	
														ISSUE	
														B	





CERTIFIED SHADOW DIAGRAM  
No : SDC197303  
Refer to attached Certificate.

Certifier:  
C McFadzean  
B Arch BA (Arch) IES ABSA AAAI  
Member of IES  
(The Illuminating Engineers Society of Australia)

SHADOW AREA KEY

SHADOW

POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

10:30  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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A	20.12.22	DA SUBMISSION	O.K. R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE				FAIRFIELD	1:250	22020-	09	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN						ISSUE		B
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166										



SHADOW AREA KEY

SHADOW  
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10:45  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta


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A	20.12.22	DA SUBMISSION	O.K. R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		COUNCIL		SCALE	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		FAIRFIELD		PROJECT No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				22020-		DWG No.	
												1:250		09	
														ISSUE	
														B	



SHADOW AREA KEY

SHADOW  
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11:00  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN				SCALE 1:250	
														PROJECT No. 22020-	
														DWG No. 09	
														ISSUE B	



SHADOW AREA KEY

SHADOW  
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11:15  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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A	20.12.22	DA SUBMISSION	O.K. R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		COUNCIL		SCALE	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		FAIRFIELD		PROJECT No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				22020-		DWG No.	
														09	
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SHADOW AREA KEY

SHADOW  
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11:30  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN		PROJECT No. 22020-		SCALE 1:250	
												DWG No. 09			
												ISSUE B			



SHADOW AREA KEY

SHADOW  
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as 1m above FFL for POS in PLAN  
only.

11:45

Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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A	20.12.22	DA SUBMISSION	OK R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		FAIRFIELD		SCALE	
B	01.05.23	DA RE-SUBMISSION	OK R.B.					400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN		PROJECT No.		DWG No.	
												22020-		09	
												ISSUE		B	



SHADOW AREA KEY

SHADOW  
POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

12:00

Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN		PROJECT No. 22020-		SCALE 1:250	
												DWG No. 09			
												ISSUE B			



SHADOW AREA KEY

SHADOW  
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12:15  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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A	20.12.22	DA SUBMISSION	O.K. R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		(T) 02 9631 7844		SCALE	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		(M) 0438 538 118		PROJECT No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				(E) orhan@designniche.com.au		22020-	
														DWG No.	
														09	
														ISSUE	
														B	





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12:30  
Linux Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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Issue	Date	Amendments	Drawn	<div>Check all dimensions prior to commencement of works. Figure dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designiche Pty Ltd and may not be used without written consent.</div>	<div></div>	<div></div>	PROPOSED STAGED DEVELOPMENT		TCOON CONSTRUCTIONS						
A	20.12.22	DA SUBMISSION	O.K. R.E				STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING								
B	01.05.23	DA RE-SUBMISSION	O.K. R.E			PROJECT ADDRESS		DRAWING TITLE				COUNCIL	SCALE	PROJECT No.	DWG No.
						400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				FAIRFIELD	1:250	22020-	ISSUE
														09	B



SHADOW AREA KEY

SHADOW  
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12:45  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) jordan@designniche.com.au		COUNCIL FAIRFIELD	
A	20.12.22	DA SUBMISSION	OK R.B.												
B	01.05.23	DA RE-SUBMISSION	OK R.B.					PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN		PROJECT No. 22020-		SCALE 1:250	
												DWG No. 09			
												ISSUE B			



SHADOW AREA KEY

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13:00

Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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A	20.12.22	DA SUBMISSION	OK R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		COUNCIL		SCALE	
B	01.05.23	DA RE-SUBMISSION	OK R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		FAIRFIELD		PROJECT No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				22020-		DWG No.	
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Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN


PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.		 1:100 1 2 3 4 5m 1:200 2 4 6 8 10m		PROPOSED STAGED DEVELOPMENT		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) orhan@designniche.com.au		Building Designers	
A	20.12.22	DA SUBMISSION	OK R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		COUNCIL		SCALE	
B	01.05.23	DA RE-SUBMISSION	OK R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		FAIRFIELD		PROJECT No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				22020-		DWG No.	
												09		ISSUE	
												B			



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TITLE  
SHADOW DIAGRAMS  
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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E)orhan@designniche.com.au		COUNCIL	SCALE	PROJECT No.	DWG No.
A	20.12.22	DA SUBMISSION	O.K. R.B.											FAIRFIELD	1:250	22020-	09
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.													ISSUE	B
								PROJECT ADDRESS		DRAWING TITLE							
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN							



SHADOW AREA KEY

SHADOW  
POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

13:45

Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) orhan@designniche.com.au		COUNCIL FAIRFIELD	
A	20.12.22	DA SUBMISSION	OK R.B.												
B	01.05.23	DA RE-SUBMISSION	OK R.B.					PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN		PROJECT No. 22020-		SCALE 1:250	
												DWG No. 09			
												ISSUE B			



SHADOW AREA KEY

SHADOW  
POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

14:00  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta


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A	20.12.22	DA SUBMISSION	OK R.B.					STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		DRAWING TITLE		FAIRFIELD		SCALE	
B	01.05.23	DA RE-SUBMISSION	OK R.B.					PROJECT ADDRESS		GROUND FLOOR PLAN		PROJECT No.		DWG No.	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166				22020-		09	
												ISSUE		B	



SHADOW AREA KEY

SHADOW  
POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

14:15  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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A	20.12.22	DA SUBMISSION	OK R.B.												
B	01.05.23	DA RE-SUBMISSION	OK R.B.					PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN		PROJECT No. 22020-		SCALE 1:250	
												DWG No. 09			
												ISSUE B			



SHADOW AREA KEY

SHADOW  
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14:30  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
														ISSUE	
														B	



SHADOW AREA KEY

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14:45  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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A	20.12.22	DA SUBMISSION	OK R.B.												
B	01.05.23	DA RE-SUBMISSION	OK R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
														ISSUE	
														B	



SHADOW AREA KEY

SHADOW  
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15:00  
Equinox Mar/Sept 22

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
														ISSUE	
														B	



SHADOW AREA KEY

SHADOW  
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9:00  
Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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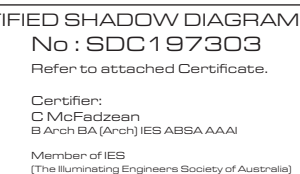
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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN		PROJECT No. 22020-		SCALE 1:250	
												DWG No. 09			
												ISSUE B			





SHADOW

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9:15

Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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COUNCIL	SCALE	PROJECT No.	DWG No.																		
FAIRFIELD	1:250	22020-	0																		
			ISSUE																		
Issue	Date	Amendments	Drawn	<p>Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designiche Pty Ltd and may not be used without written consent.</p>  	PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCN CONSTRUCTIONS														
A	20.12.22	DA SUBMISSION	O.K R.B.		PROJECT ADDRESS		DRAWING TITLE														
B	01.05.23	DA RE-SUBMISSION	O.K R.B.		400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN														



SHADOW AREA KEY

SHADOW  
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9:30

Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) orhan@designniche.com.au		COUNCIL FAIRFIELD	
A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
														ISSUE	
														B	



SHADOW AREA KEY

SHADOW  
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9:45  
Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) orhan@designniche.com.au		COUNCIL FAIRFIELD	
A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN		PROJECT No. 22020-		SCALE 1:250	
												DWG No. 09			
												ISSUE B			



SHADOW AREA KEY

SHADOW  
POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

10:00  
Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) orhan@designniche.com.au		COUNCIL FAIRFIELD	
A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
														ISSUE	
														B	



SHADOW AREA KEY

SHADOW  
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10:15  
Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E)orhan@designniche.com.au		COUNCIL		SCALE		PROJECT No.		DWG No.	
A	20.12.22	DA SUBMISSION	O.K. R.B.					PROJECT ADDRESS		DRAWING TITLE				FAIRFIELD		1:250		22020-		09	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN								ISSUE		B	



SHADOW AREA KEY

SHADOW

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10:30

Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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Issue	Date	Amendments	Drawn	<div>Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designiche Pty Ltd and may not be used without written consent.</div> <div> 1:100 1 2 3 4 5m 1:200 2 4 6 8 10m</div>	<div>PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING</div> <div>PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166</div>	TCON CONSTRUCTIONS	DRAWING TITLE GROUND FLOOR PLAN	<div>Designiche P/L 1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E)orhan@designiche.com.au</div>	COUNCIL FAIRFIELD	SCALE 1:250	PROJECT No. 22020-	DWG No. 09 ISSUE B	
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B	01.05.23	DA RE-SUBMISSION	O.K. R.B.										





Certifier:  
C McFadzean  
B Arch BA (Arch) IES ABSA AAAI

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SHADOW AREA KEY

SHADOW

POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

10:45

Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
														ISSUE	
														B	



SHADOW AREA KEY

SHADOW  
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11:00

Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
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SHADOW AREA KEY

SHADOW  
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11:15

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TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
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2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
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														ISSUE	
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SHADOW AREA KEY

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TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
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SHADOW AREA KEY

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11:45

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TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
												PROJECT No.		DWG No.	
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12:00

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TITLE  
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PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
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SHADOW AREA KEY

SHADOW  
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Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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A	20.12.22	DA SUBMISSION	O.K. R.B.					PROJECT ADDRESS		DRAWING TITLE		FAIRFIELD		22020-09	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				B	



SHADOW AREA KEY

SHADOW  
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12:30  
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TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				B	



SHADOW AREA KEY

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12:45  
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TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN		PROJECT No. 22020-		SCALE 1:250	
												DWG No. 09			
												ISSUE B			



SHADOW AREA KEY

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13:00

Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.												
								PROJECT ADDRESS		DRAWING TITLE				SCALE	
								400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		GROUND FLOOR PLAN				1:250	
														PROJECT No.	
														22020-	
														DWG No.	
														09	
														ISSUE	
														B	



SHADOW AREA KEY

SHADOW  
POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

13:15  
Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.		1:100 1 2 3 4 5m 1:200 2 4 6 8 10m		PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) jordan@designniche.com.au		Building Designers	
A	20.12.22	DA SUBMISSION	O.K. R.B.					PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN		COUNCIL FAIRFIELD		SCALE 1:250	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.									PROJECT No. 22020-		DWG No. 09	
												ISSUE B			



SHADOW AREA KEY

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13:30

Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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A	20.12.22	DA SUBMISSION	O.K. R.B.				PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN		PROJECT No. 22020-		SCALE 1:250	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.								DWG No. 09		ISSUE B	



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TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
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Cabramatta

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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.				PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) orhan@designniche.com.au		COUNCIL FAIRFIELD	
A	20.12.22	DA SUBMISSION	O.K. R.B.												
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.					PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN		PROJECT No. 22020-		SCALE 1:250	
												DWG No. 09			
												ISSUE B			



SHADOW AREA KEY

SHADOW  
POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

14:00

Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

DESIGNER  
**designniche**  
Building Designers

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TCON INVESTMENTS

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Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designniche Pty Ltd and may not be used without written consent.		1:100 1 2 3 4 5m 1:200 2 4 6 8 10m		PROPOSED STAGED DEVELOPMENT STAGE 1: 53 TOWNHOUSE DEVELOPMENT WITH PART BASEMENT PARKING		TCON CONSTRUCTIONS		1/45 Crosby Street, Greyhounds N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E) orhan@designniche.com.au		Building Designers	
A	20.12.22	DA SUBMISSION	O.K. R.B.					PROJECT ADDRESS 400-404 Cabramatta Road West, 2-18 Orange Grove Rd and 6 Links Ave Cabramatta NSW 2166		DRAWING TITLE GROUND FLOOR PLAN		COUNCIL FAIRFIELD		SCALE 1:250	
B	01.05.23	DA RE-SUBMISSION	O.K. R.B.									PROJECT No. 22020-		DWG No. 09	
												ISSUE B			



SHADOW AREA KEY

SHADOW  
POS Solar catchment is calculated as 1m above FFL for POS in PLAN only.

14:15

Summer Solstice Dec 21

TITLE  
SHADOW DIAGRAMS  
PLAN

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PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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SHADOW AREA KEY

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14:30

Summer Solstice Dec 21

TITLE  
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PLAN

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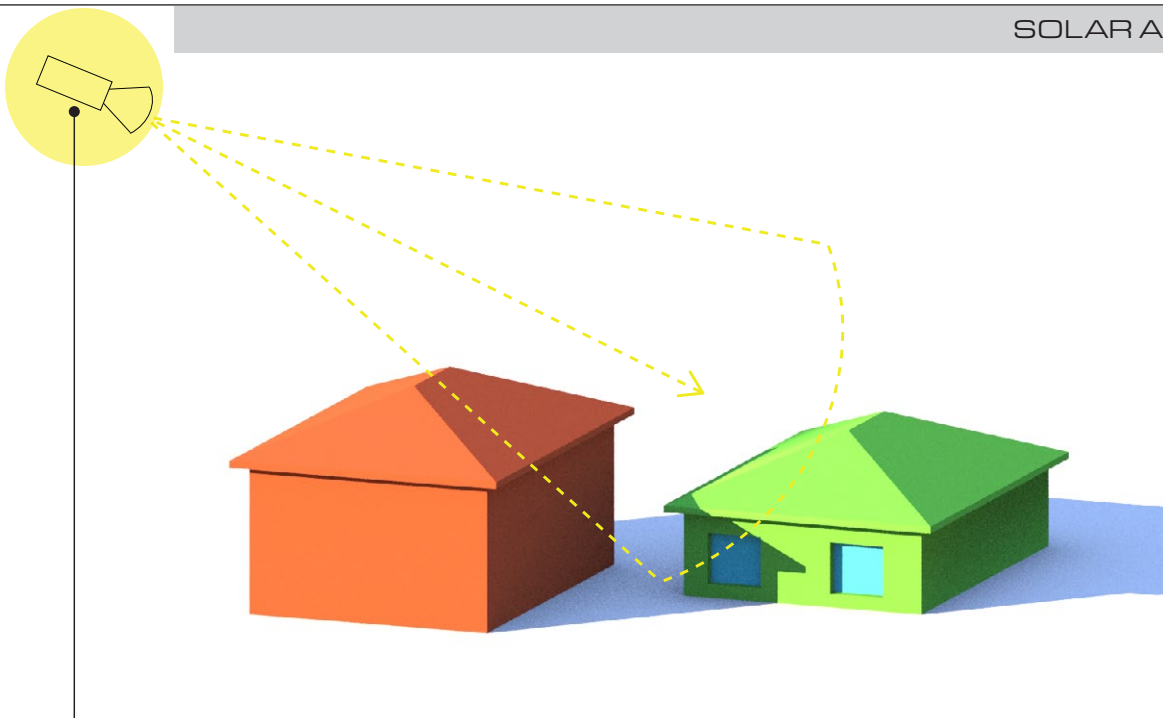
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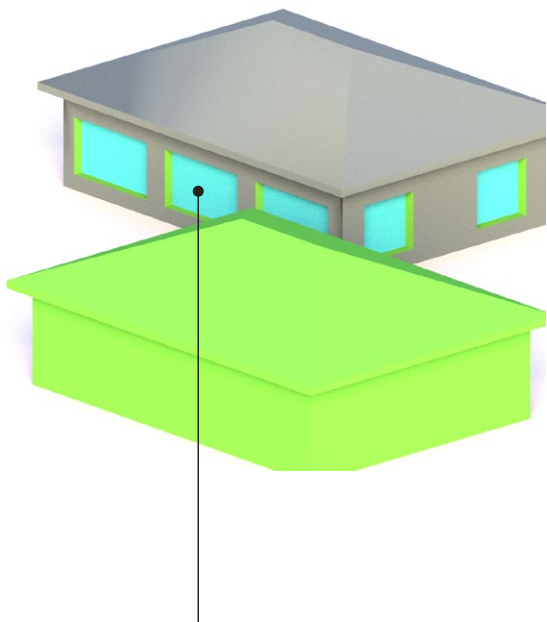


VIEW FROM SUN

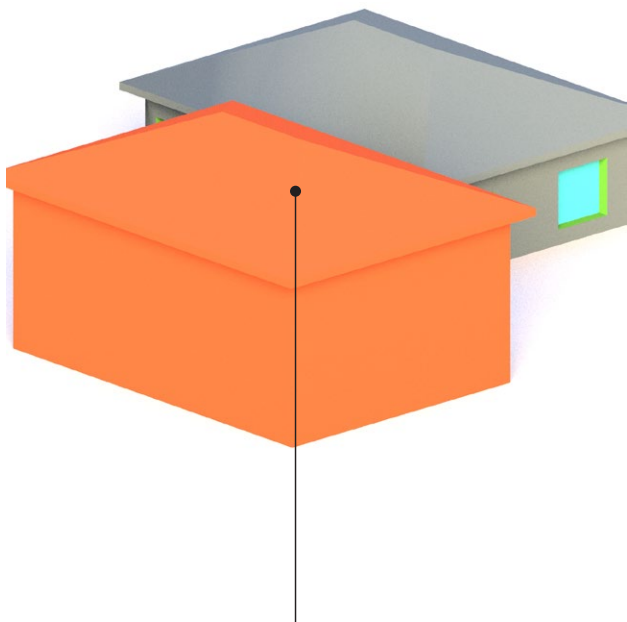
The View From Sun is generated from a camera inserted into the position of the sun. Providing a view of what the sun sees on the ground plane.

EXISTING

PROPOSED



AREAS RECEIVING SUNLIGHT  
Visible areas receive direct sunlight.




AREAS NOT RECEIVING SUNLIGHT  
Obstructed areas do not receive sunlight, i.e. are in shade.

NOTES

1. Trees, landscape omitted from calculations
2. Side Fence not shown. Courtyard Fencing not shown.
3. True north used as solar north.
4. Terrain is approximate outside of the site
5. Limited survey information available on adjoining sites.
6. Winter solstice - 21 June
7. POS Solar catchment is 1m above FFL for PLAN view only - VFS View shows POS on FFL.
8. Time Zone - AEST unless noted (Aust. Eastern Standard Time - AEST)

DATA SOURCE [in order of precedence]

- Registered Survey - Embedded into Architectural SITE PLAN - DESIGNNICHE, Ref 22020
- 3D MODEL FROM 3D DATA FILE - DESIGN NICHE - MAY 2023
- Architectural Plans - DESIGN NICHE, Ref B, 22020





**CERTIFIED SHADOW DIAGRAM**  
No : SDC197303  
Refer to attached Certificate.

Certifier:  
C McFadzean  
B Arch BA (Arch) IES ABSA AAAI

Member of IES  
(The Illuminating Engineers Society of Australia)

VFS KEY

-  PRIVATE OPEN SPACE
-  WINDOWS

HOW TO READ GUIDE


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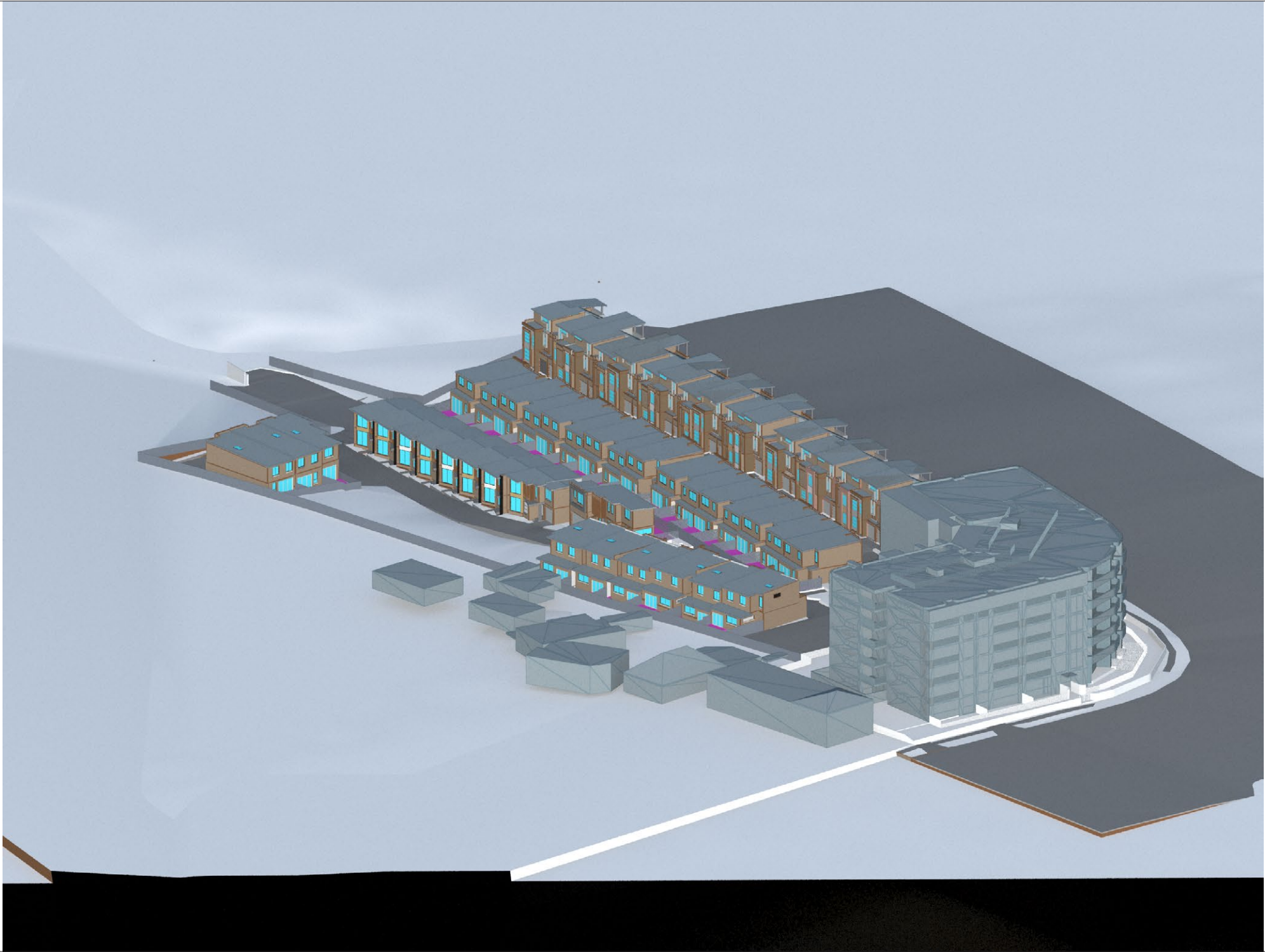
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9:00  
Winter Solstice June 21


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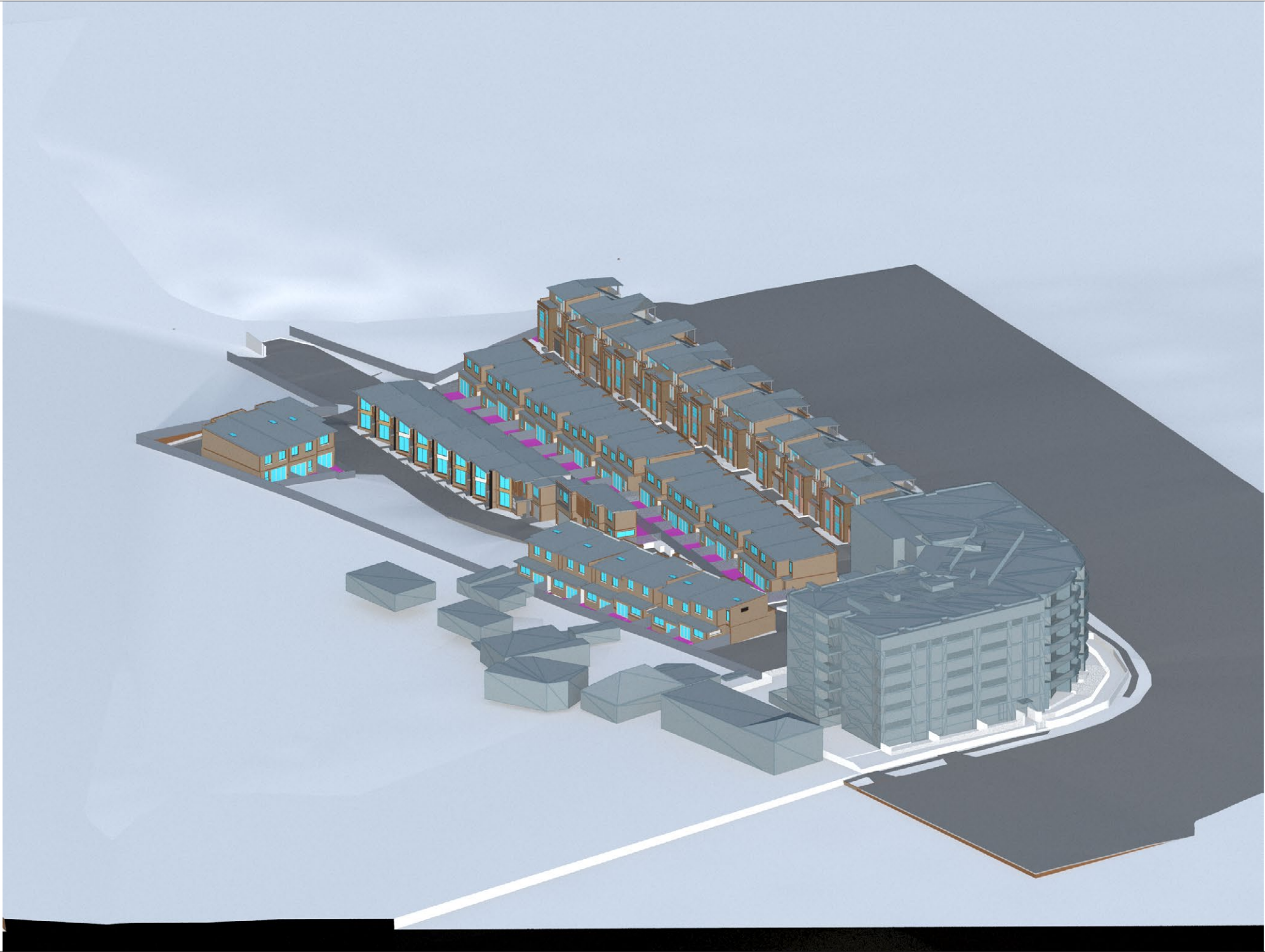


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- VFS KEY
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9:15  
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WINDOWS

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Winter Solstice June 21


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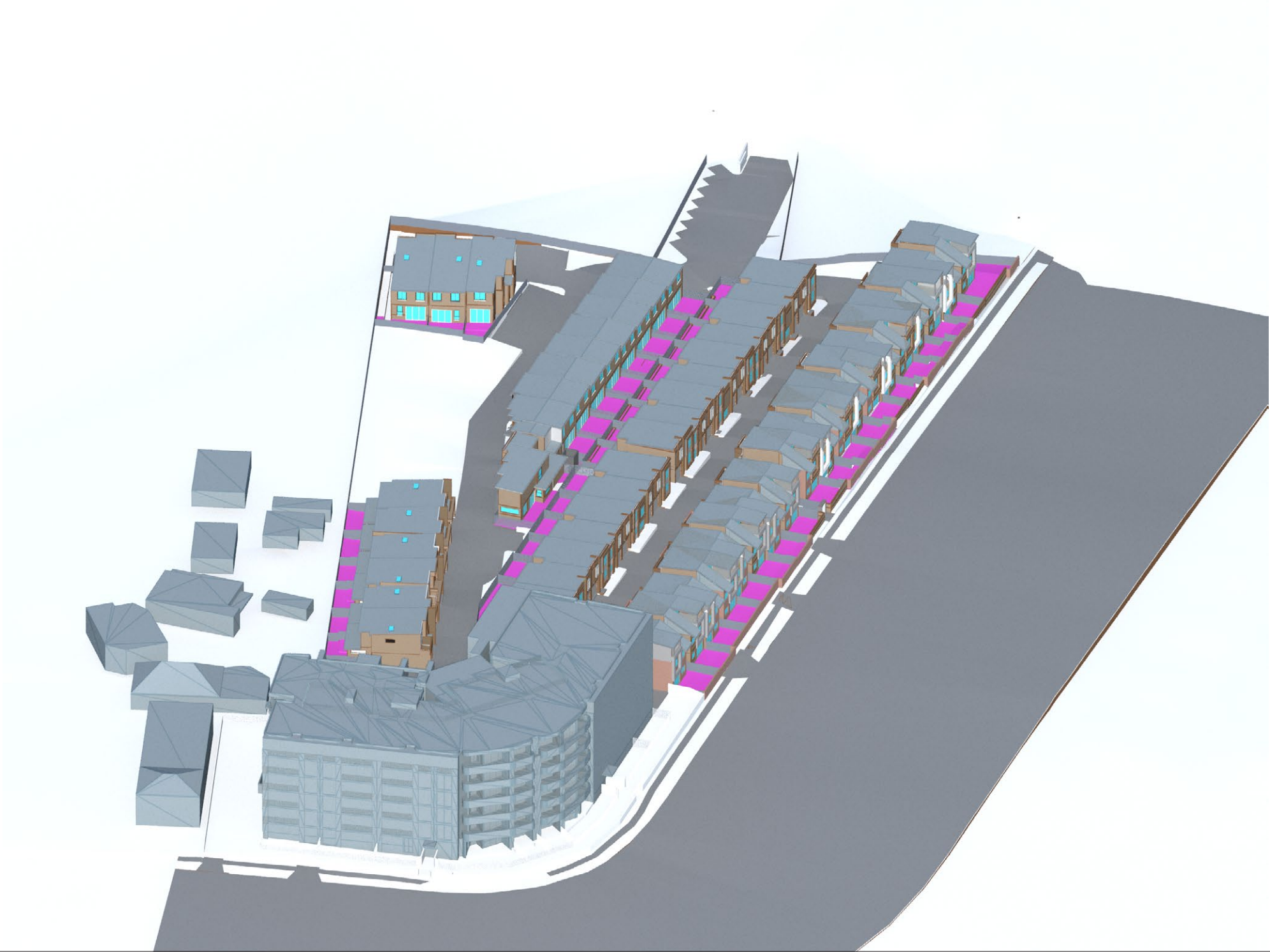
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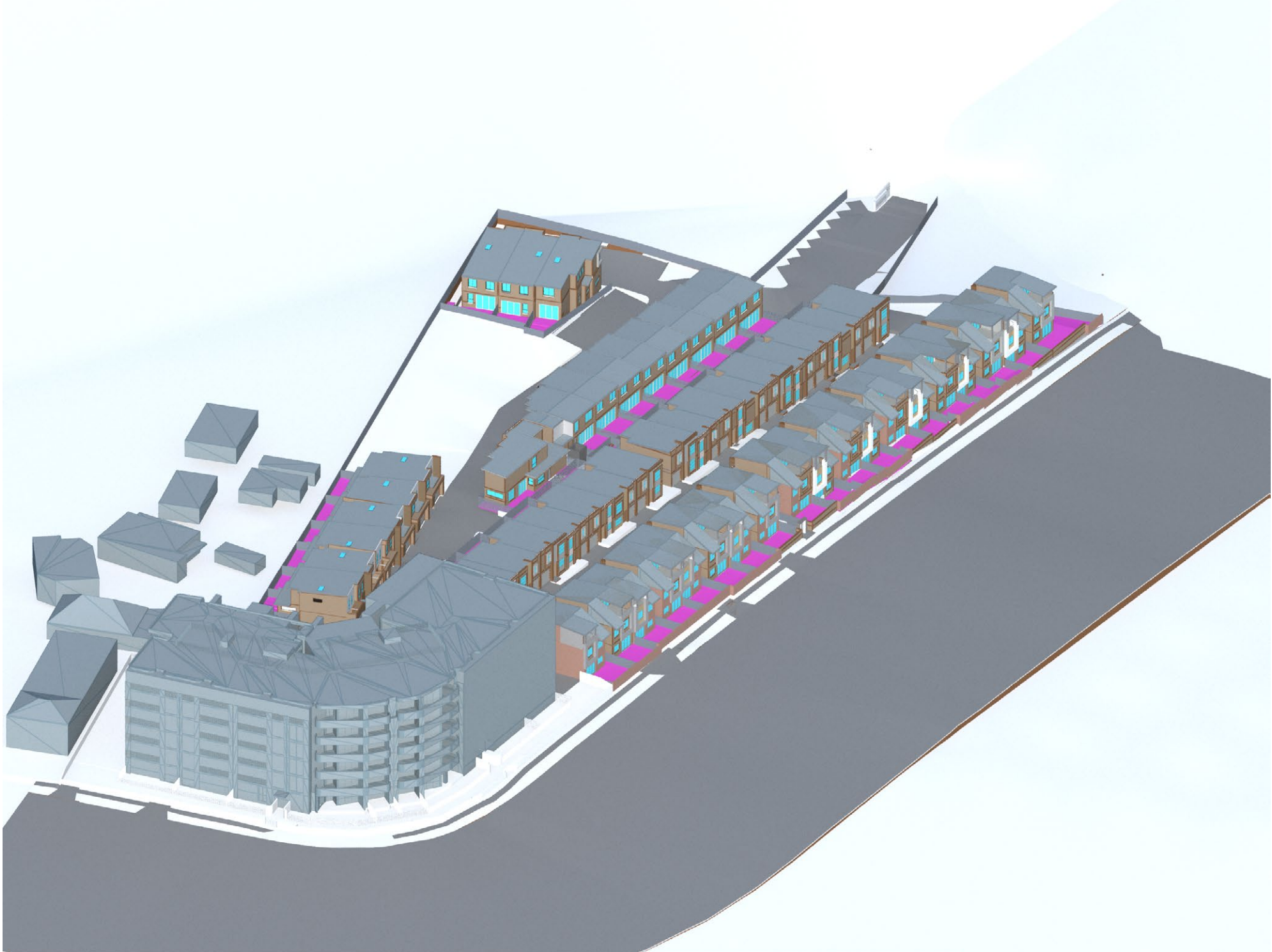
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PRIVATE OPEN SPACE

WINDOWS

14:00  
Winter Solstice June 21


TITLE  
VIEW FROM SUN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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WINDOWS

14:15  
Winter Solstice June 21


TITLE  
VIEW FROM SUN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
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WINDOWS

14:30  
Winter Solstice June 21


TITLE  
VIEW FROM SUN

PROJECT  
PROPOSED Townhouses  
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14:45  
Winter Solstice June 21


TITLE  
VIEW FROM SUN

PROJECT  
PROPOSED Townhouses  
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WINDOWS

15:00  
Winter Solstice June 21


TITLE  
VIEW FROM SUN

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PROPOSED Townhouses  
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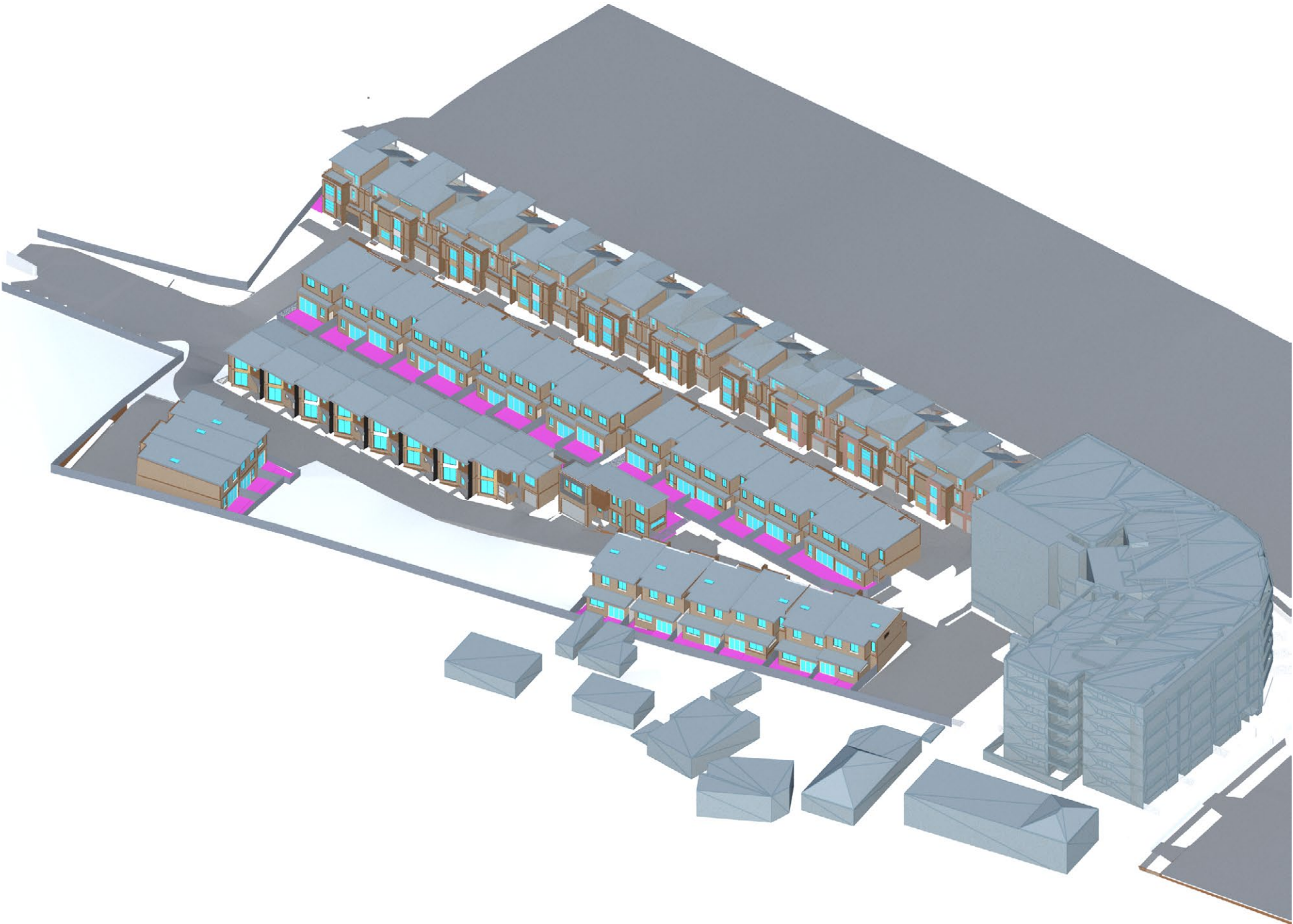
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WINDOWS



9:00  
Equinox Mar/Sept 22


TITLE  
VIEW FROM SUN

PROJECT  
PROPOSED Townhouses  
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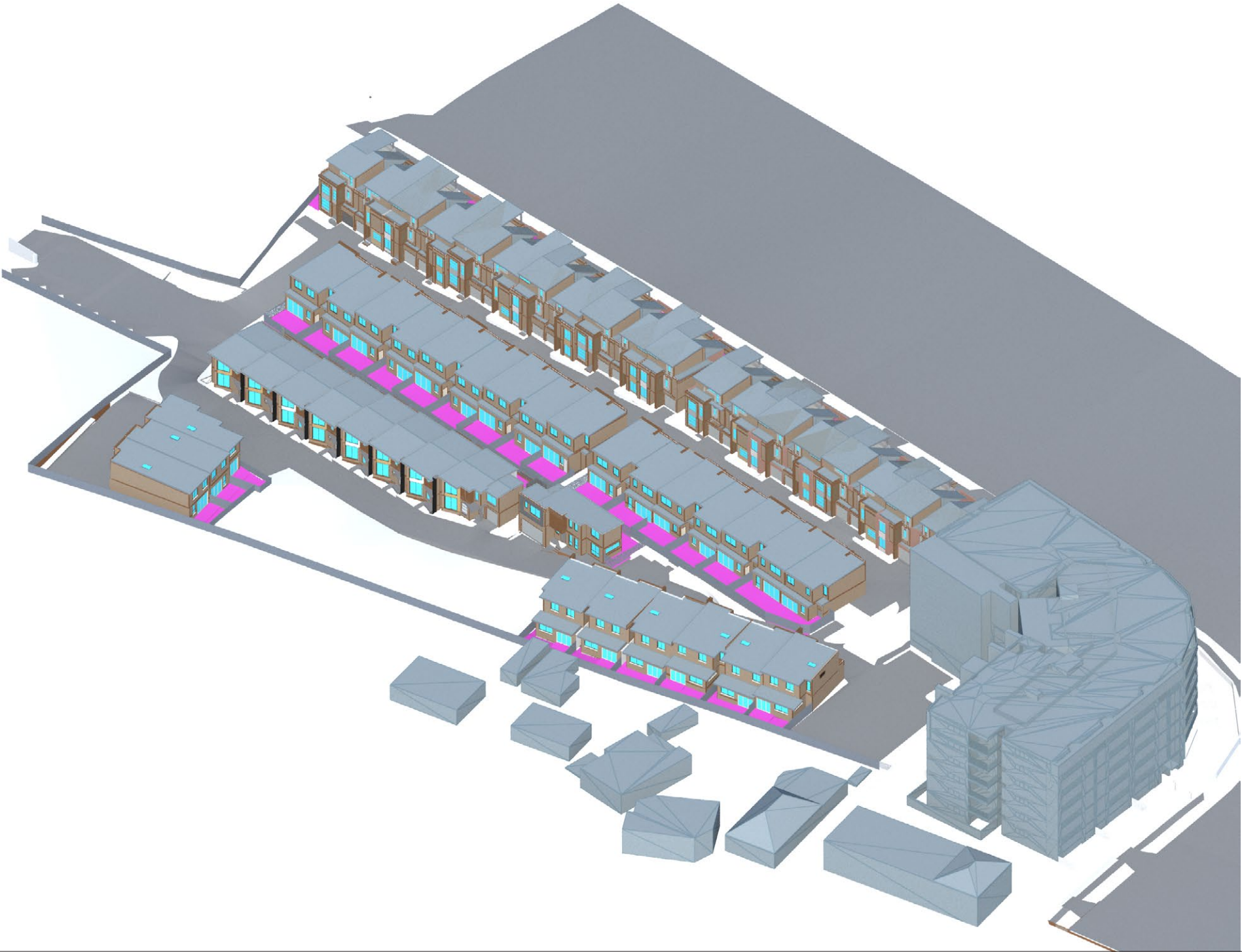
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WINDOWS



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TITLE  
VIEW FROM SUN

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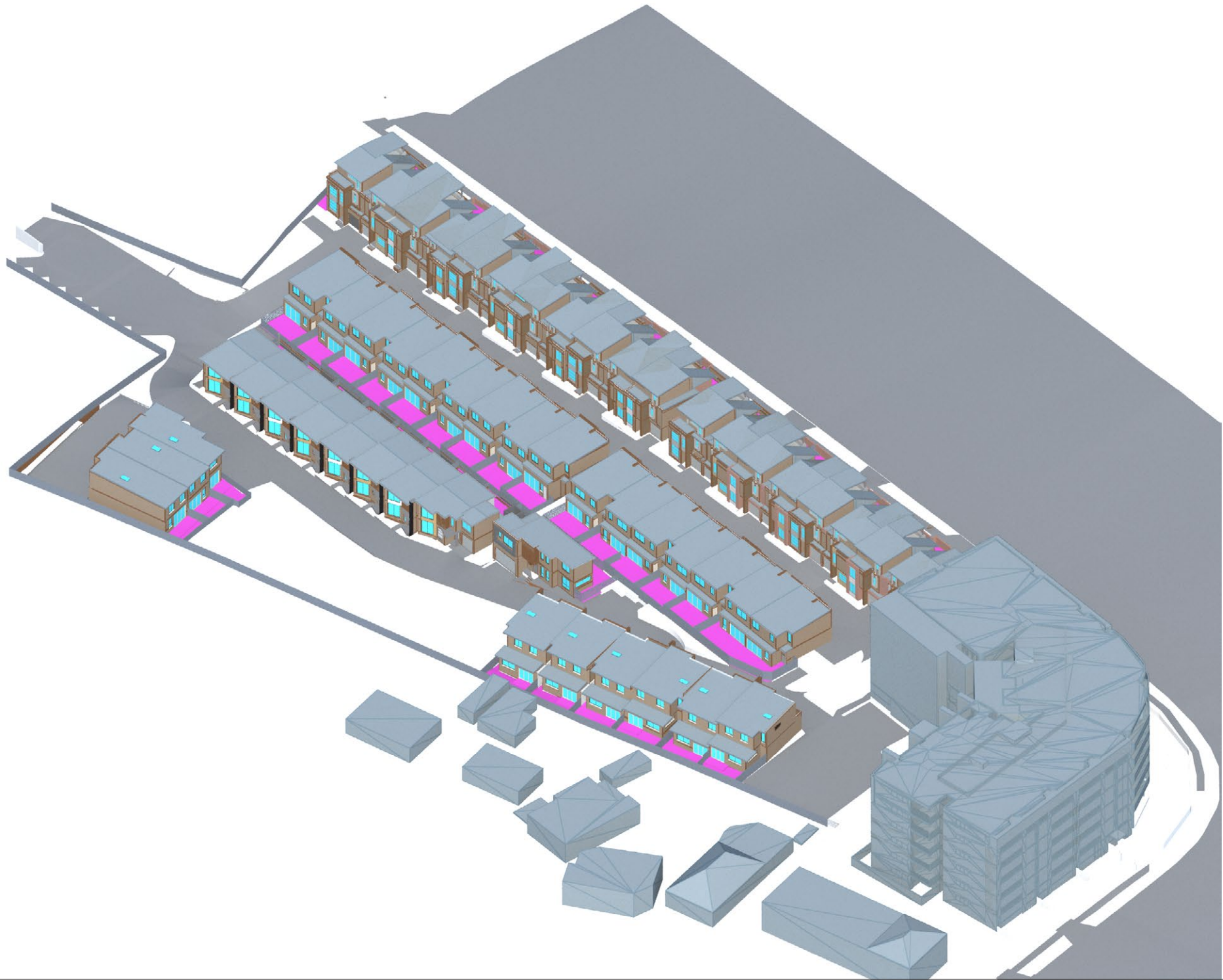
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9:30  
Equinox Mar/Sept 22


TITLE  
VIEW FROM SUN

PROJECT  
PROPOSED Townhouses  
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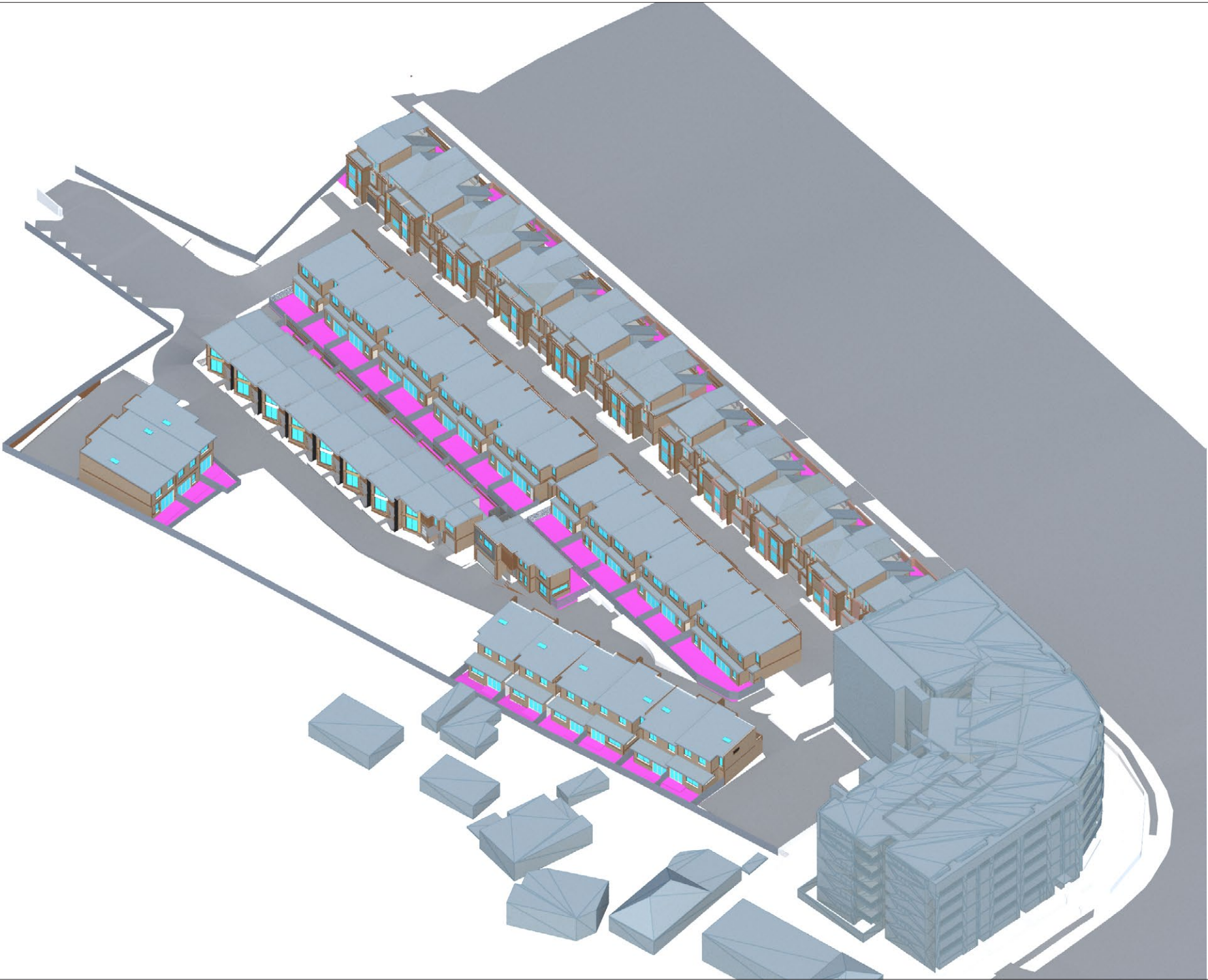
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WINDOWS



9:45  
Equinox Mar/Sept 22


TITLE  
VIEW FROM SUN

PROJECT  
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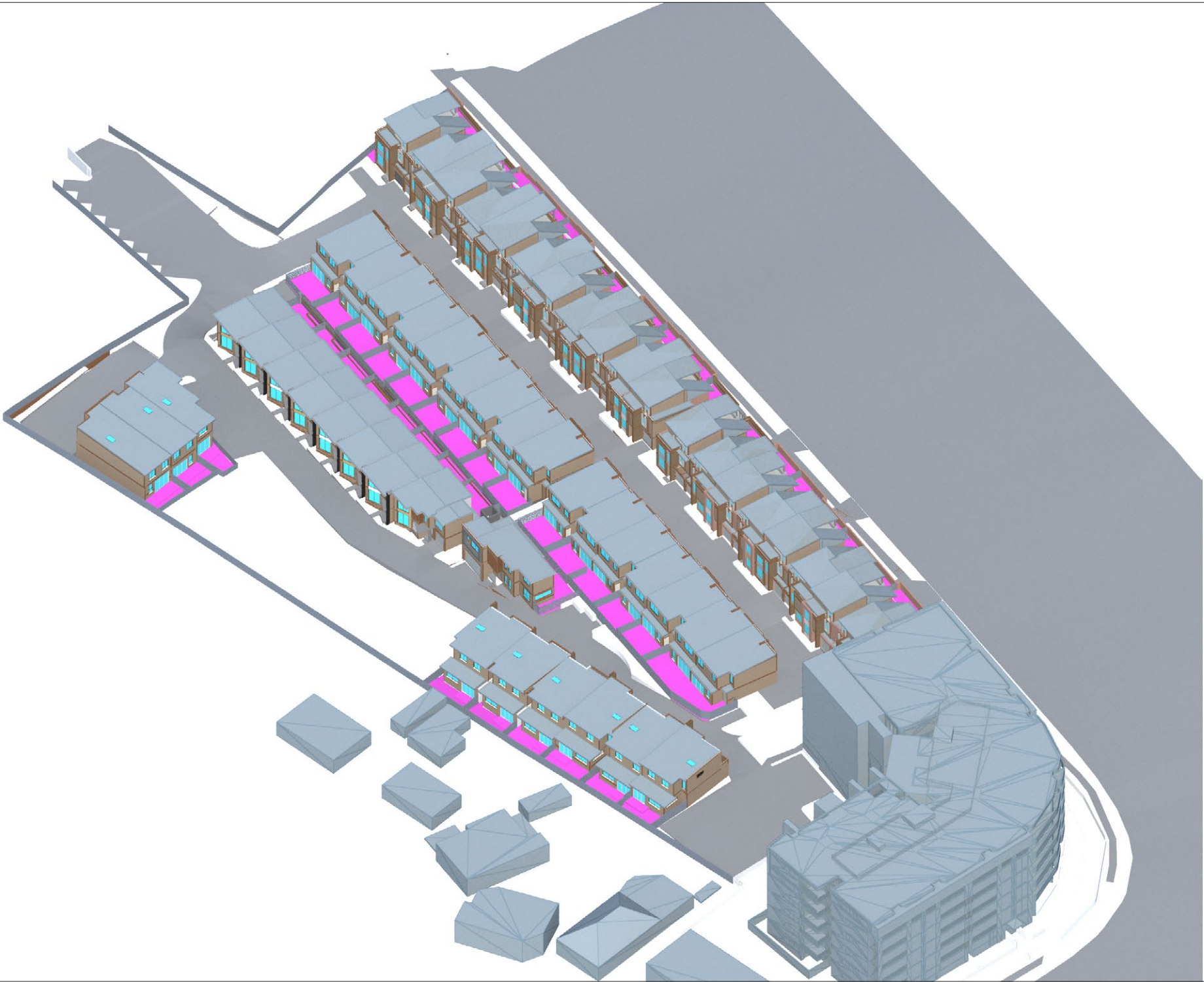
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WINDOWS



10:00  
Equinox Mar/Sept 22


TITLE  
VIEW FROM SUN

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PROPOSED Townhouses  
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TITLE  
VIEW FROM SUN

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TITLE  
VIEW FROM SUN

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11:30  
Equinox Mar/Sept 22


TITLE  
VIEW FROM SUN

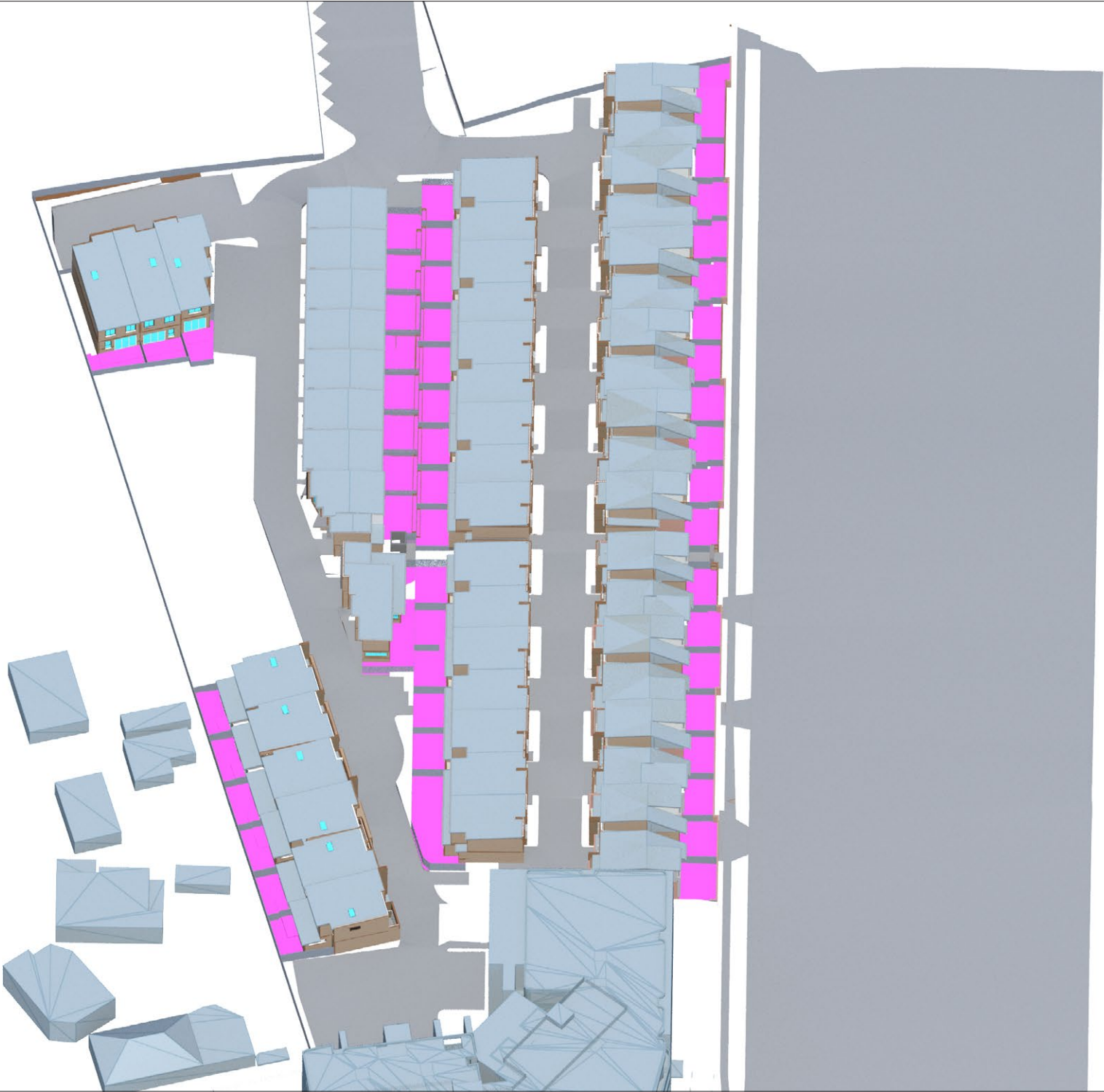
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TITLE  
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WINDOWS

12:00

Equinox Mar/Sept 22

TITLE

VIEW FROM SUN

PROJECT

PROPOSED Townhouses  
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2-18 Orange Grove Rd & 6 Links Rd  
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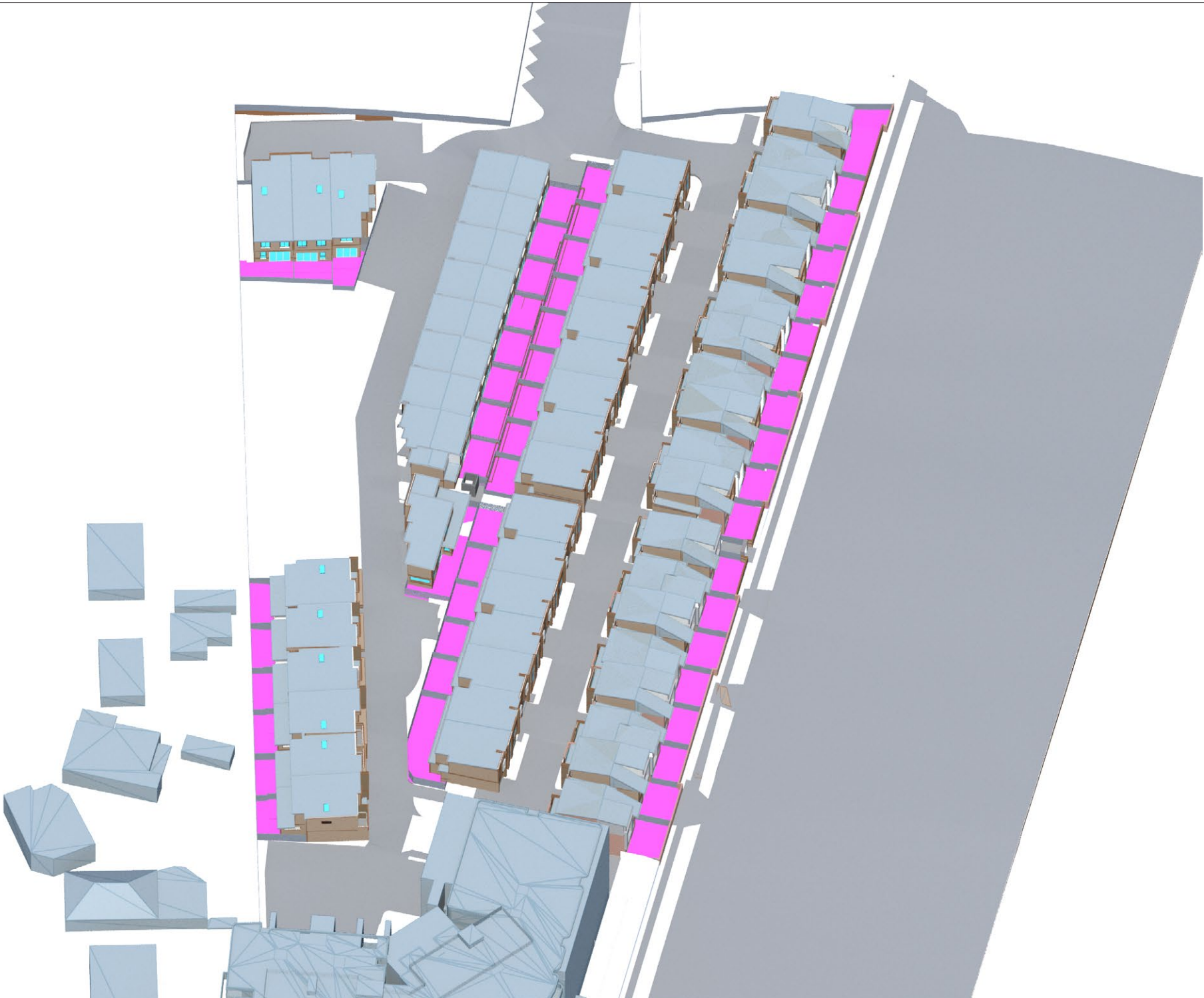
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WINDOWS

12:15

Equinox Mar/Sept 22

TITLE

VIEW FROM SUN

PROJECT

PROPOSED Townhouses  
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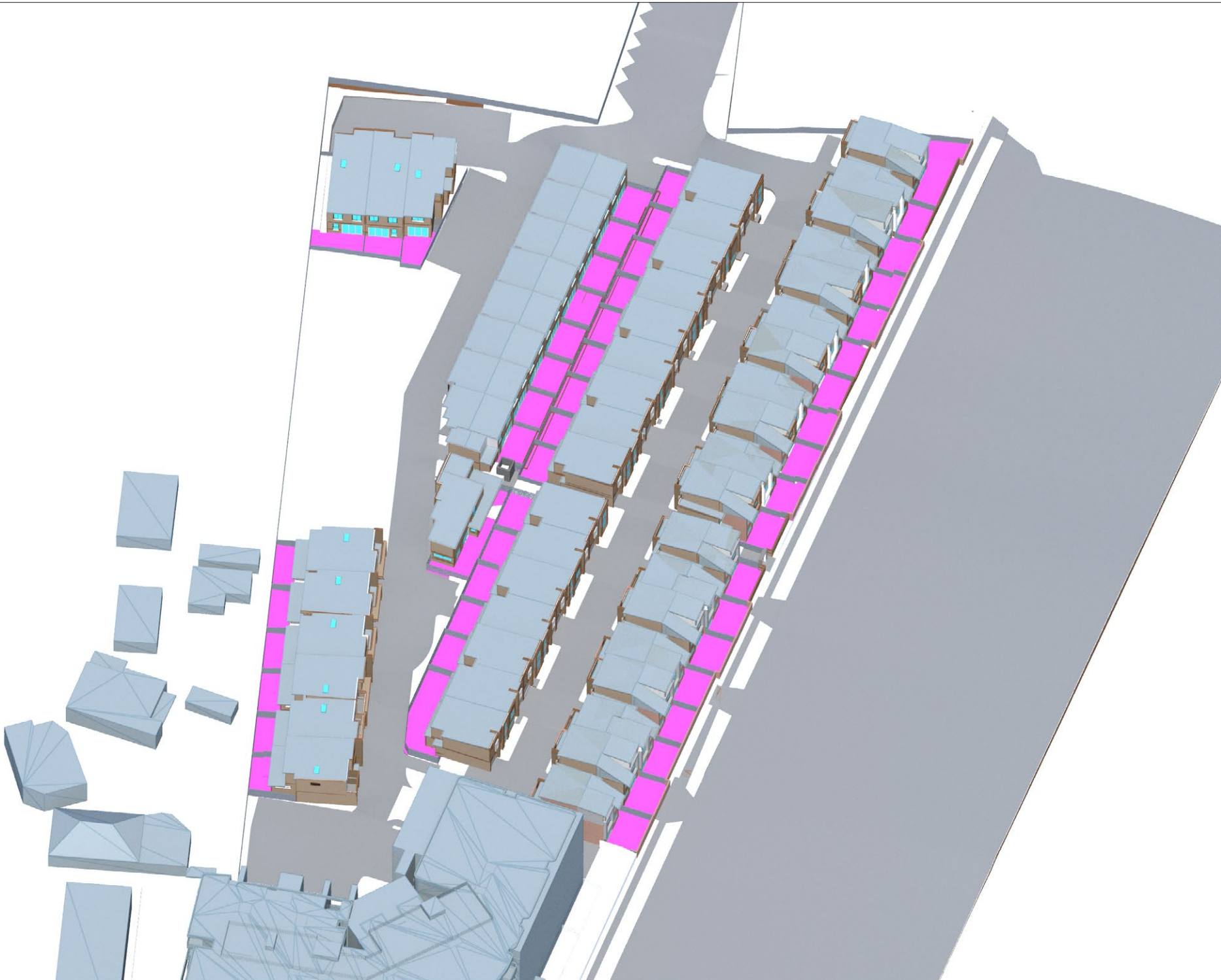
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WINDOWS

12:30

Equinox Mar/Sept 22

TITLE

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PROJECT

PROPOSED Townhouses  
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TITLE  
VIEW FROM SUN

PROJECT  
PROPOSED Townhouses  
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13:00

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TITLE

VIEW FROM SUN

PROJECT

PROPOSED Townhouses  
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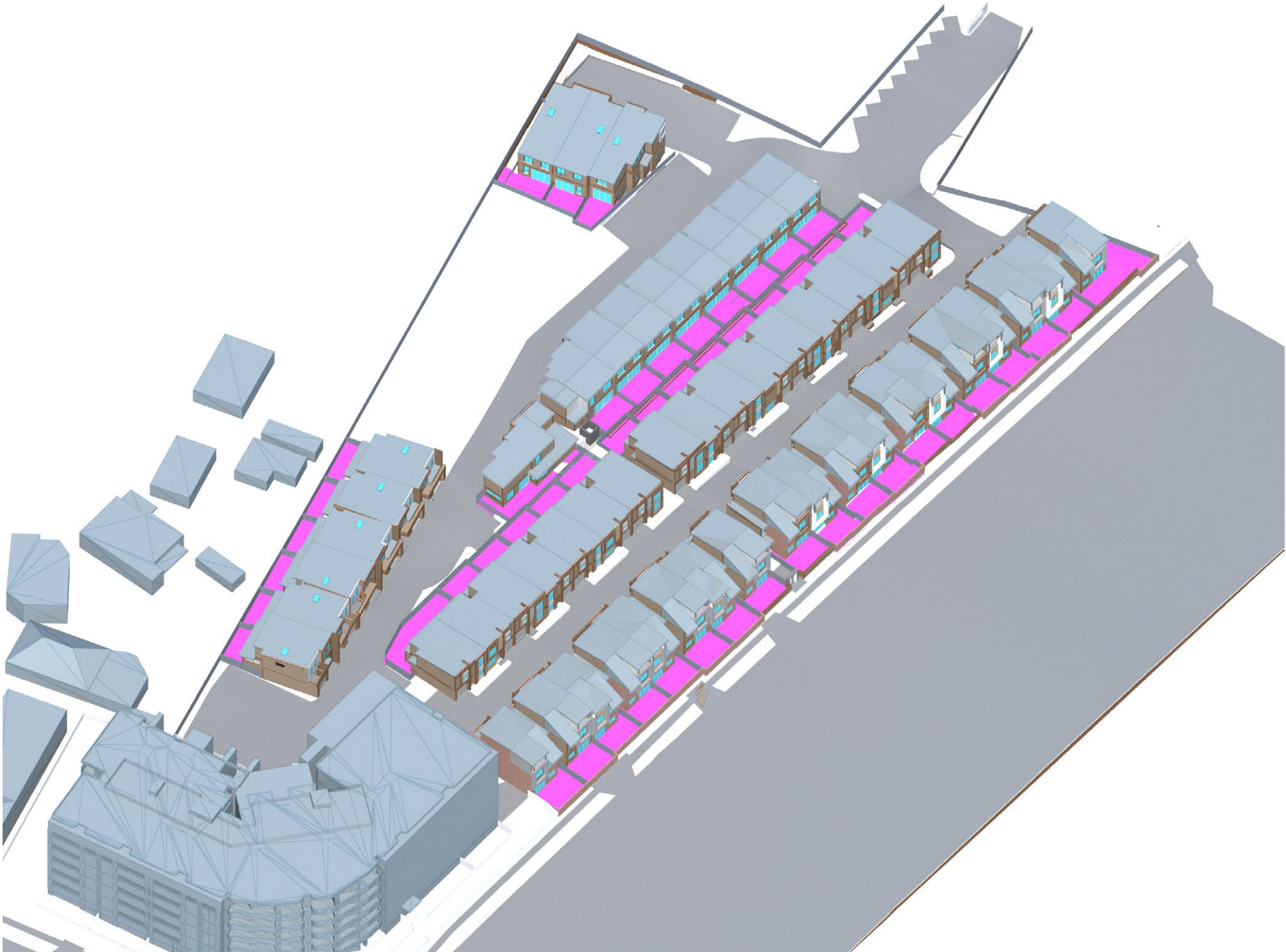
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DATE : MAY 23

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WINDOWS

13:15

Equinox Mar/Sept 22

TITLE

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PROJECT

PROPOSED Townhouses  
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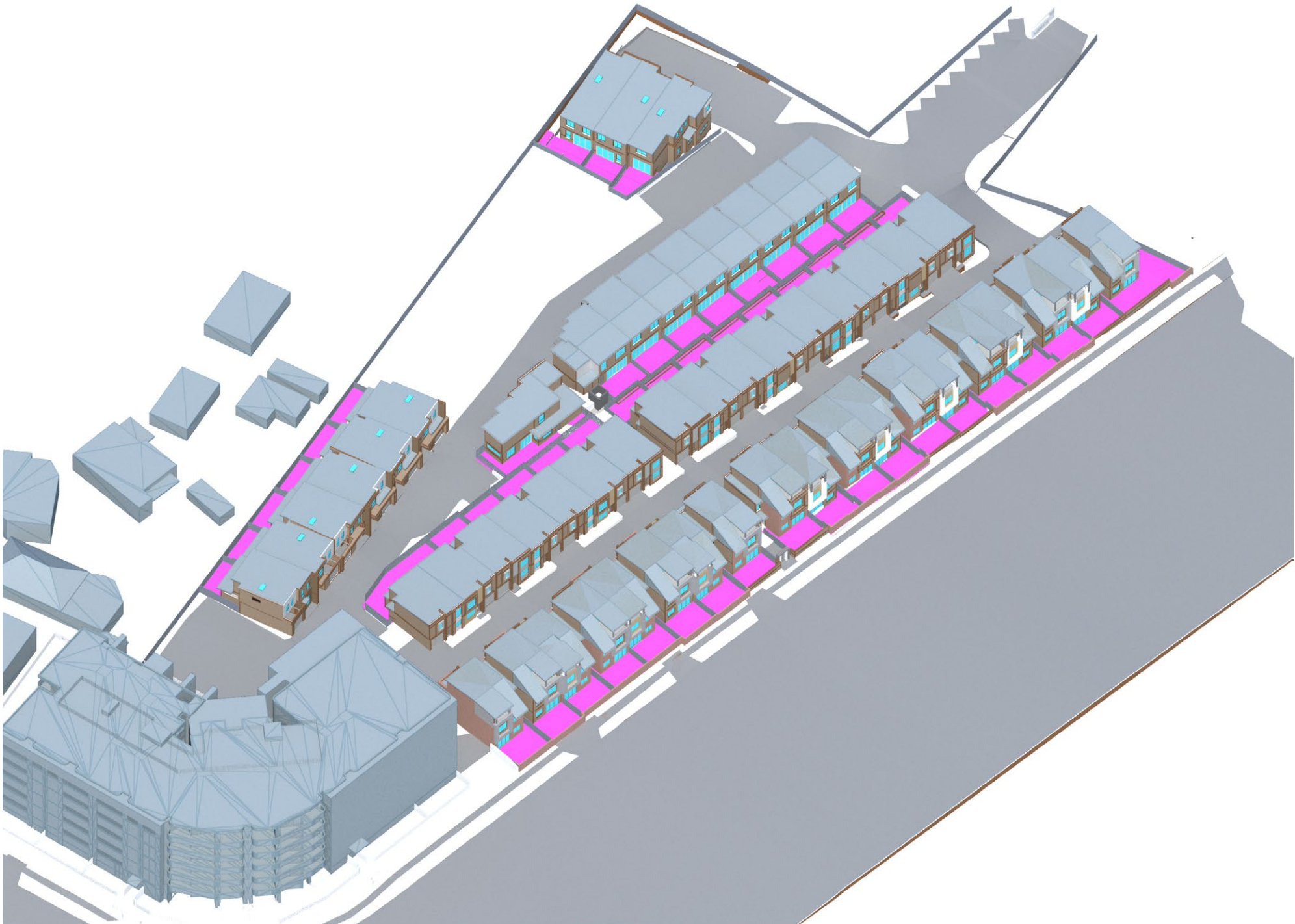
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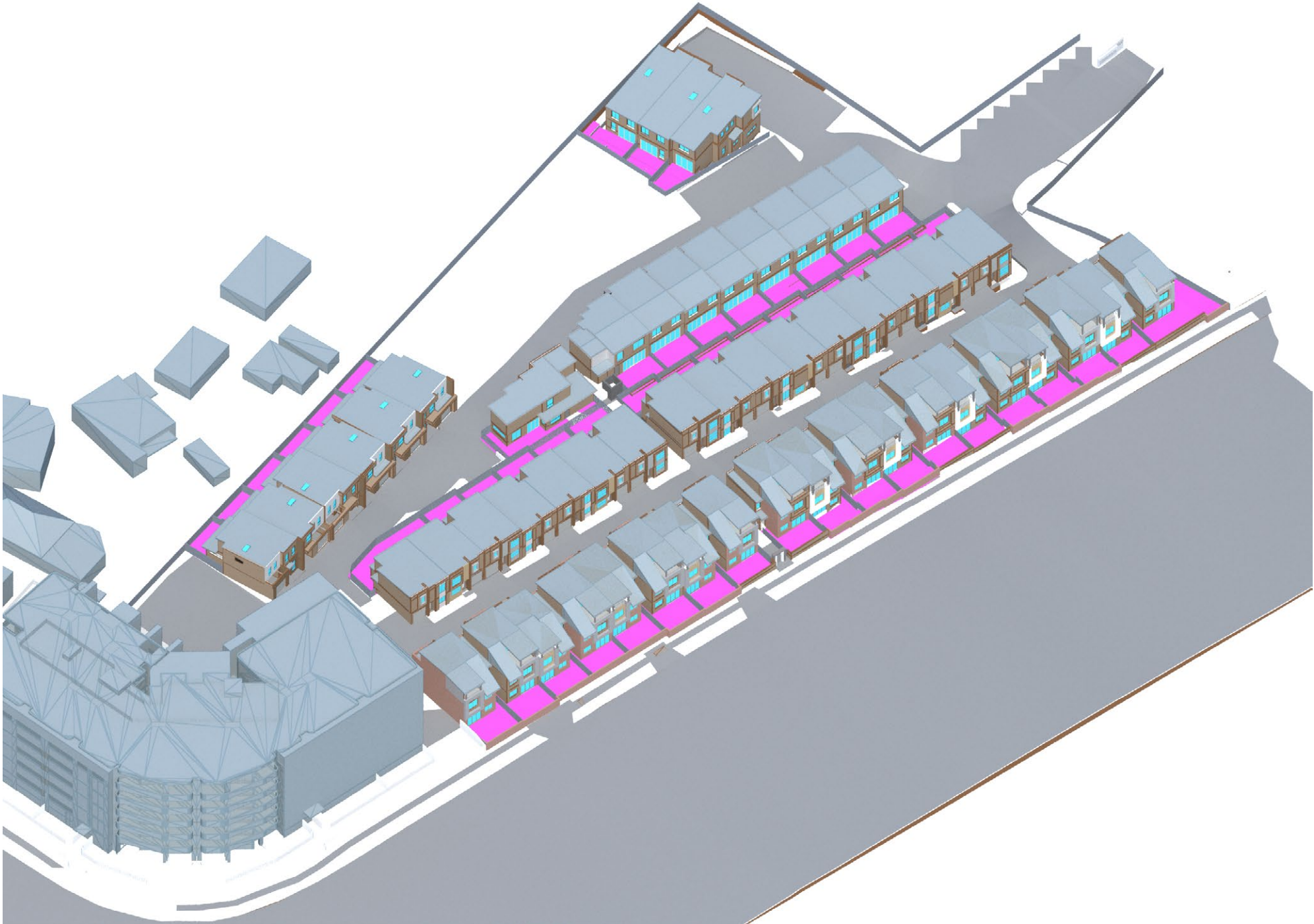




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WINDOWS



13:30  
Equinox Mar/Sept 22


TITLE  
VIEW FROM SUN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
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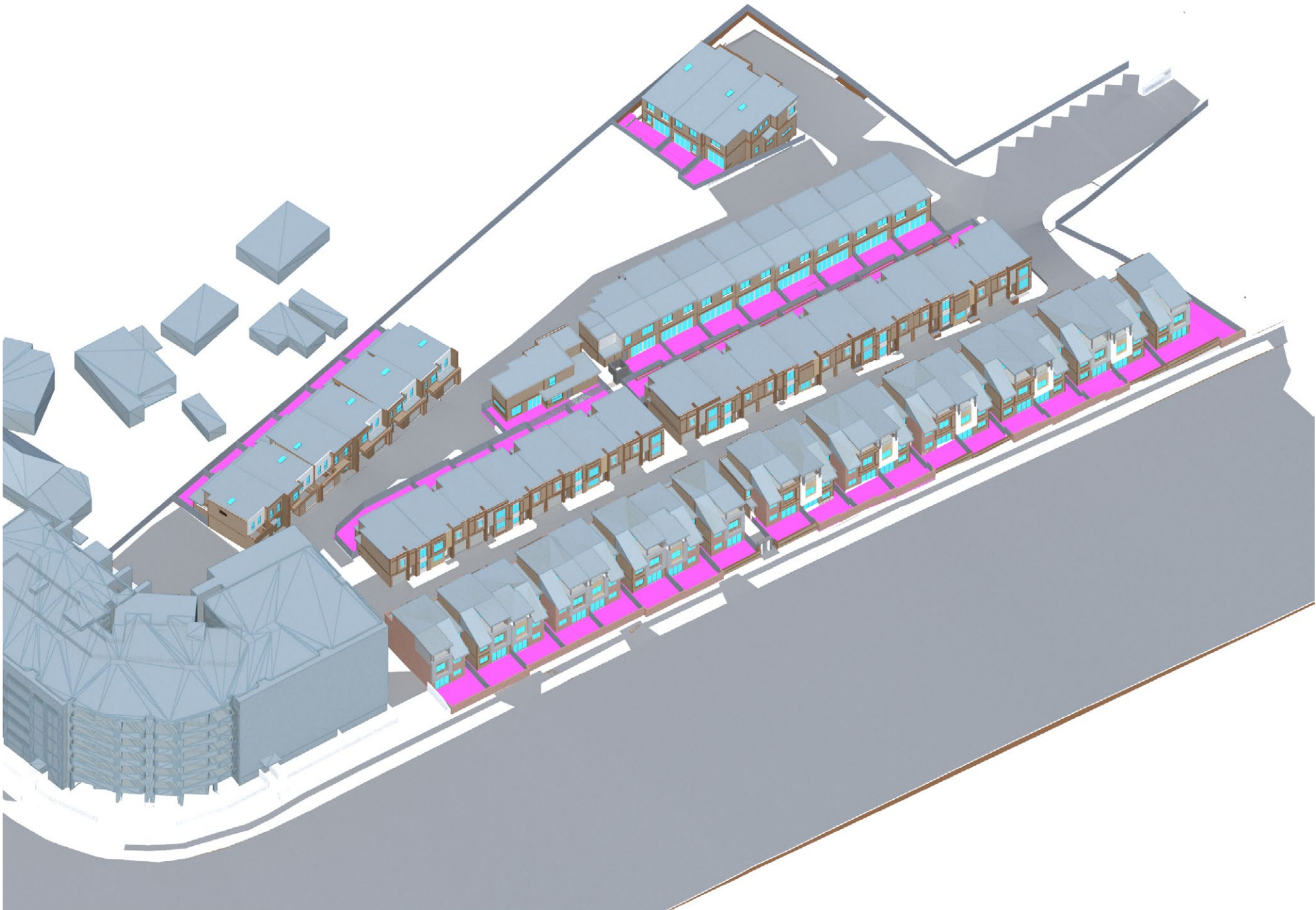
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WINDOWS



13:45  
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TITLE  
VIEW FROM SUN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
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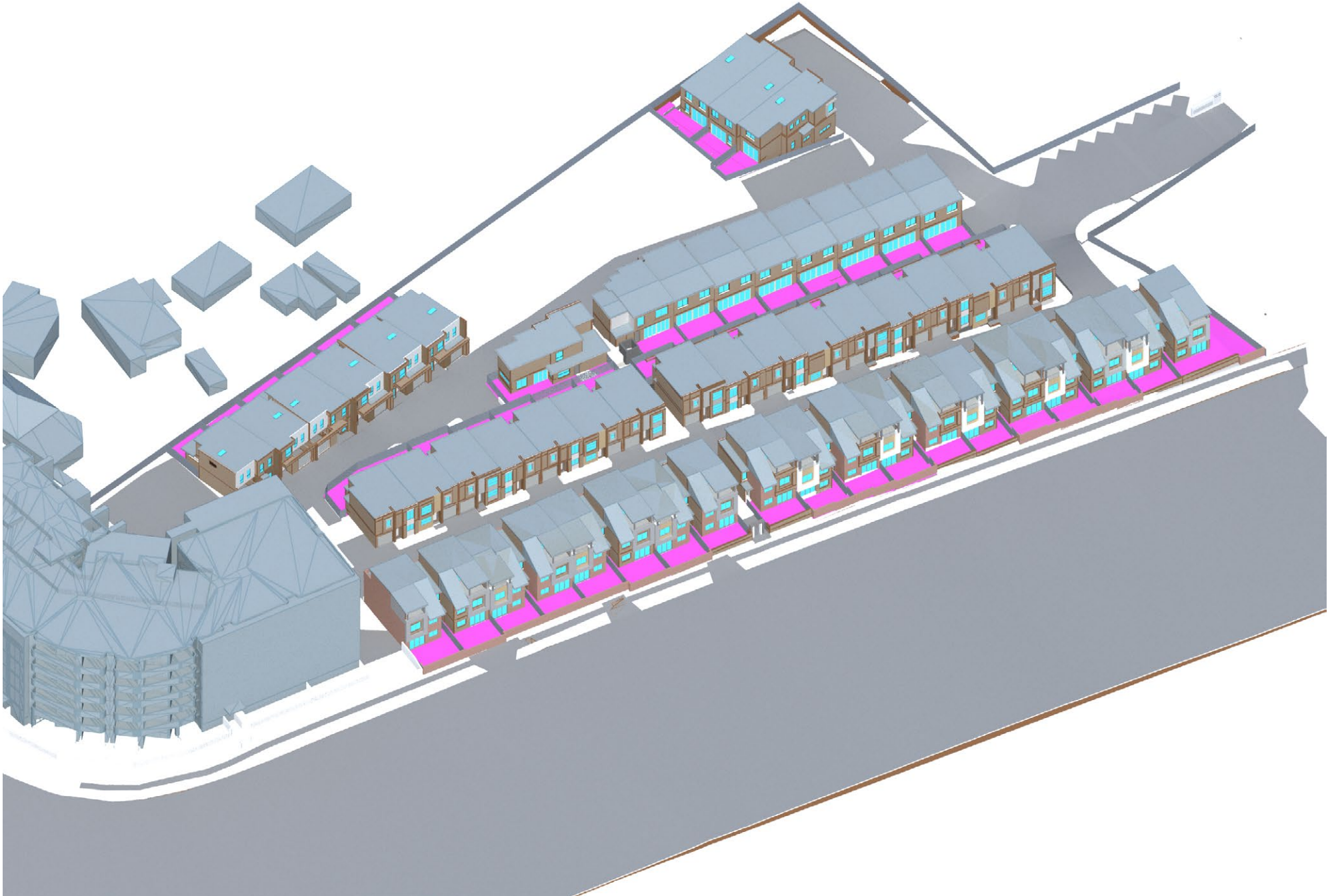
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VFS KEY

PRIVATE OPEN SPACE

WINDOWS



14:00  
Equinox Mar/Sept 22


TITLE  
VIEW FROM SUN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
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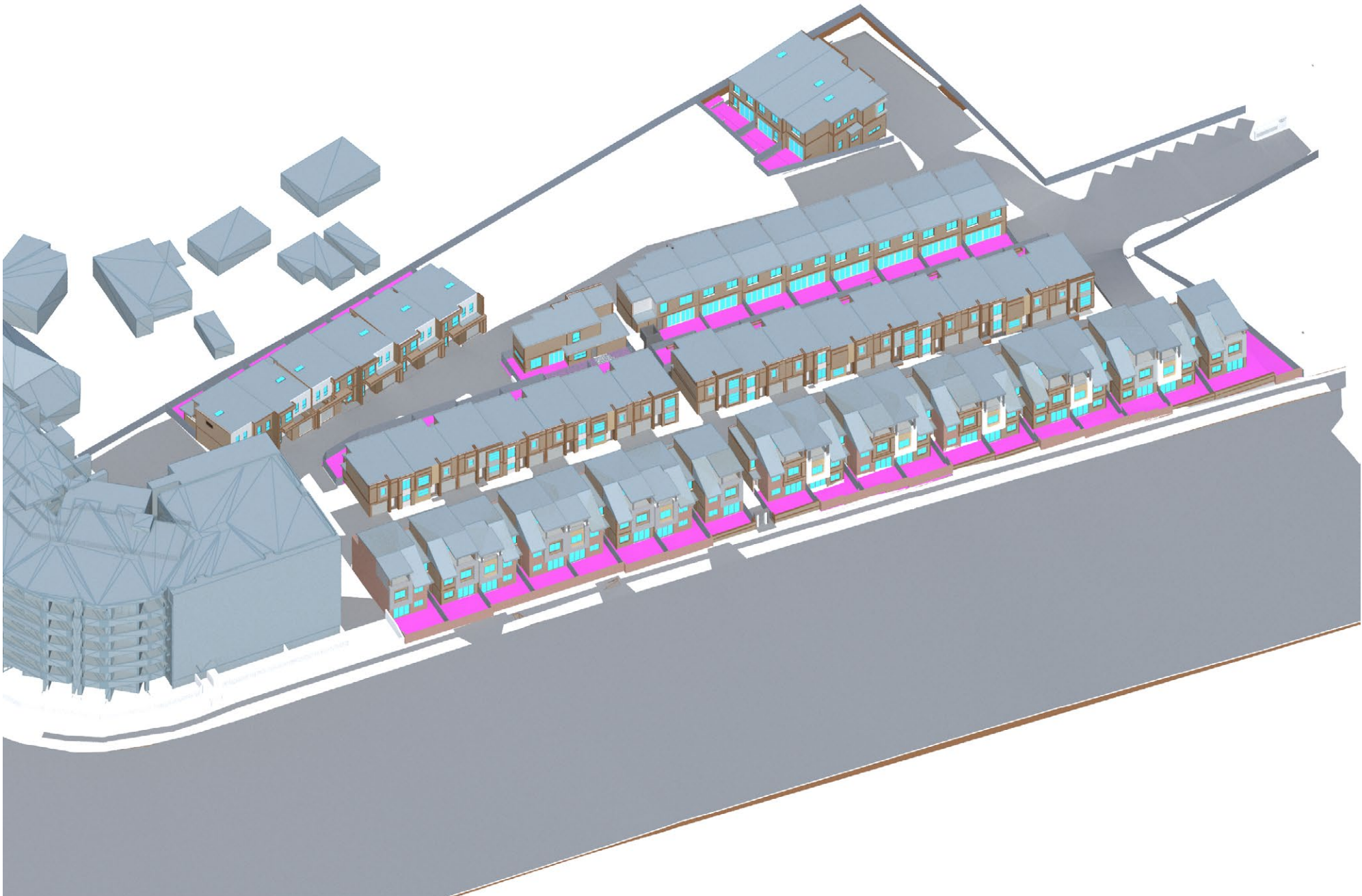
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WINDOWS



14:15  
Equinox Mar/Sept 22


TITLE  
VIEW FROM SUN

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PROPOSED Townhouses  
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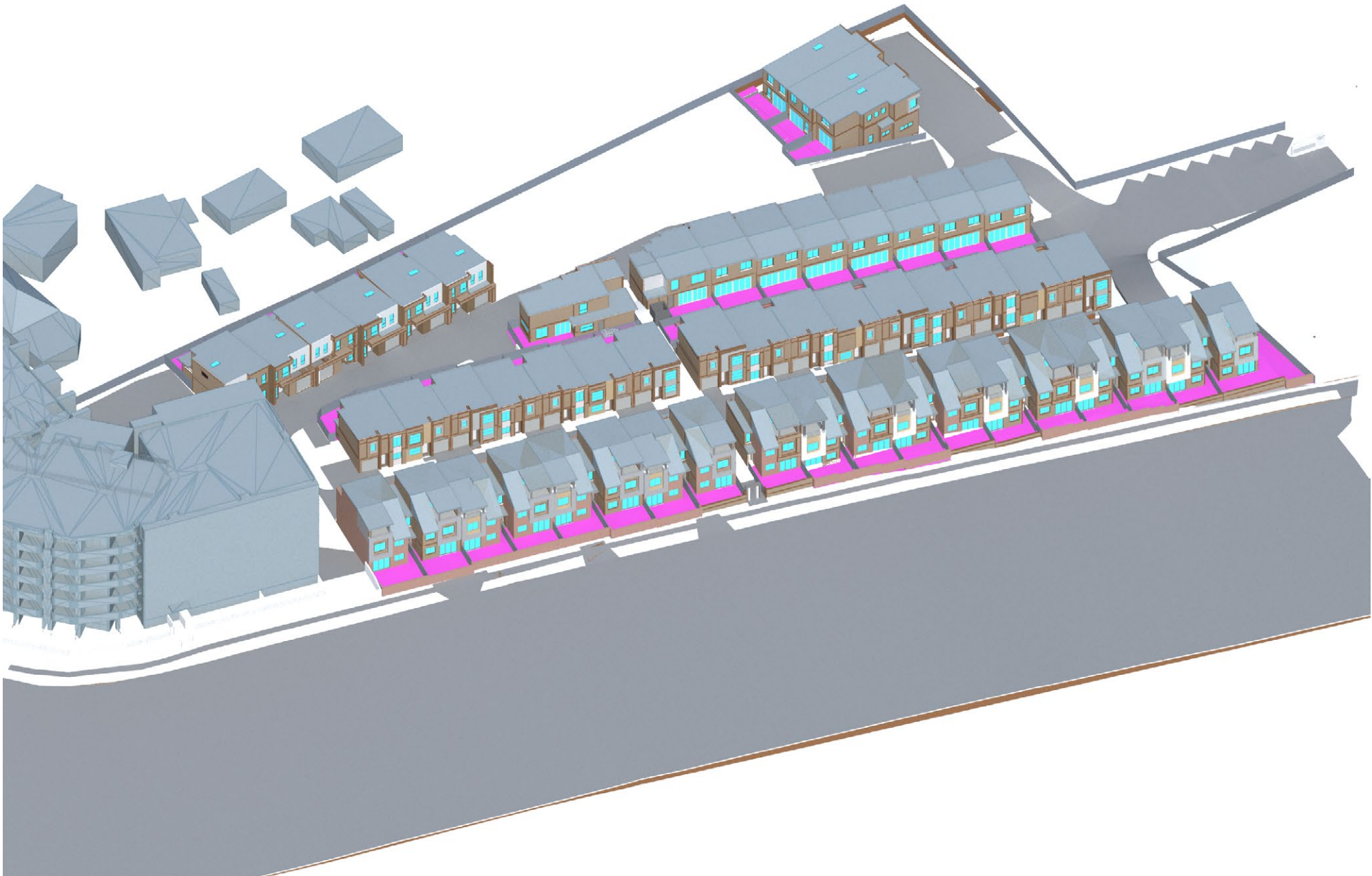
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-  PRIVATE OPEN SPACE
-  WINDOWS



14:30  
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TITLE  
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PROJECT  
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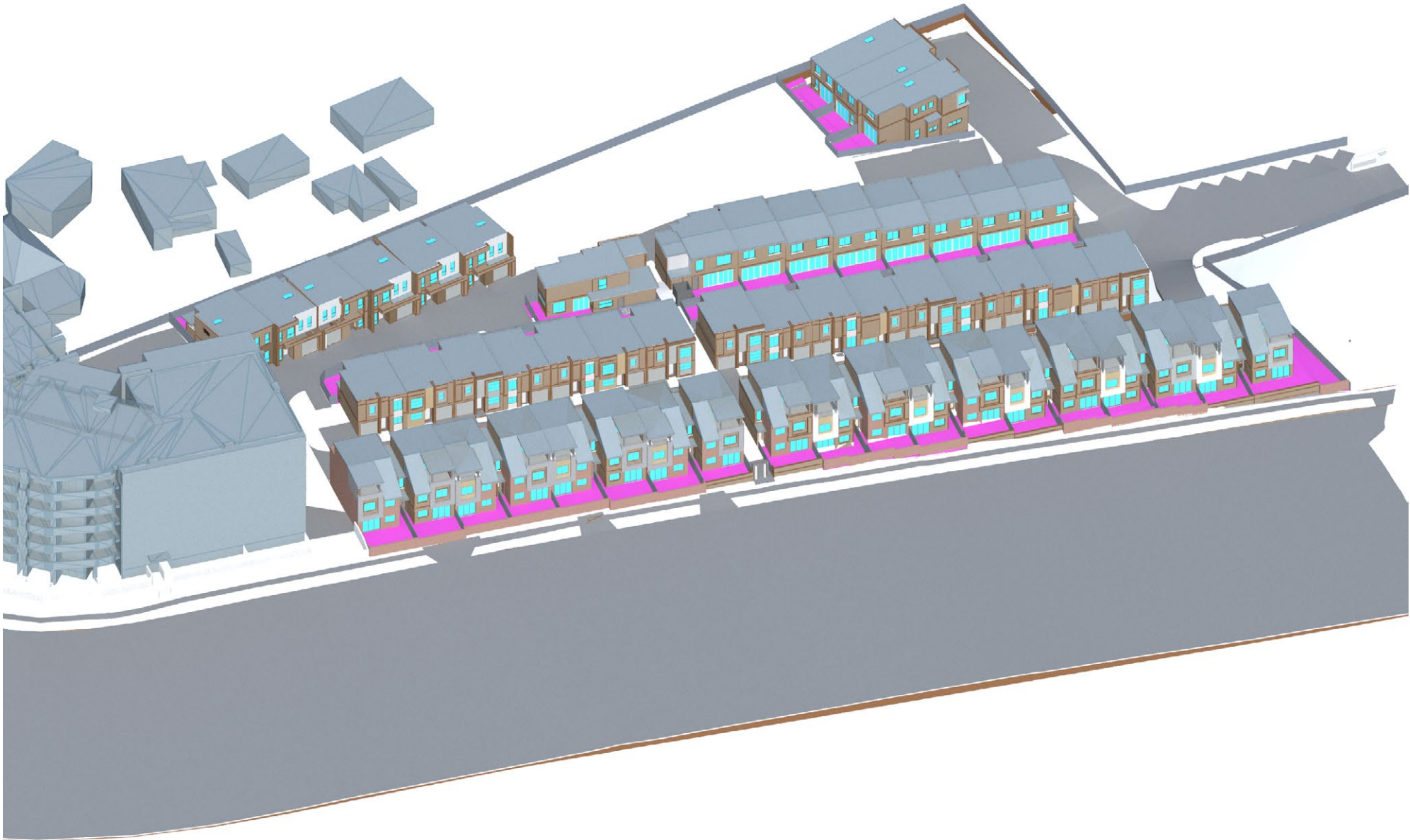
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WINDOWS



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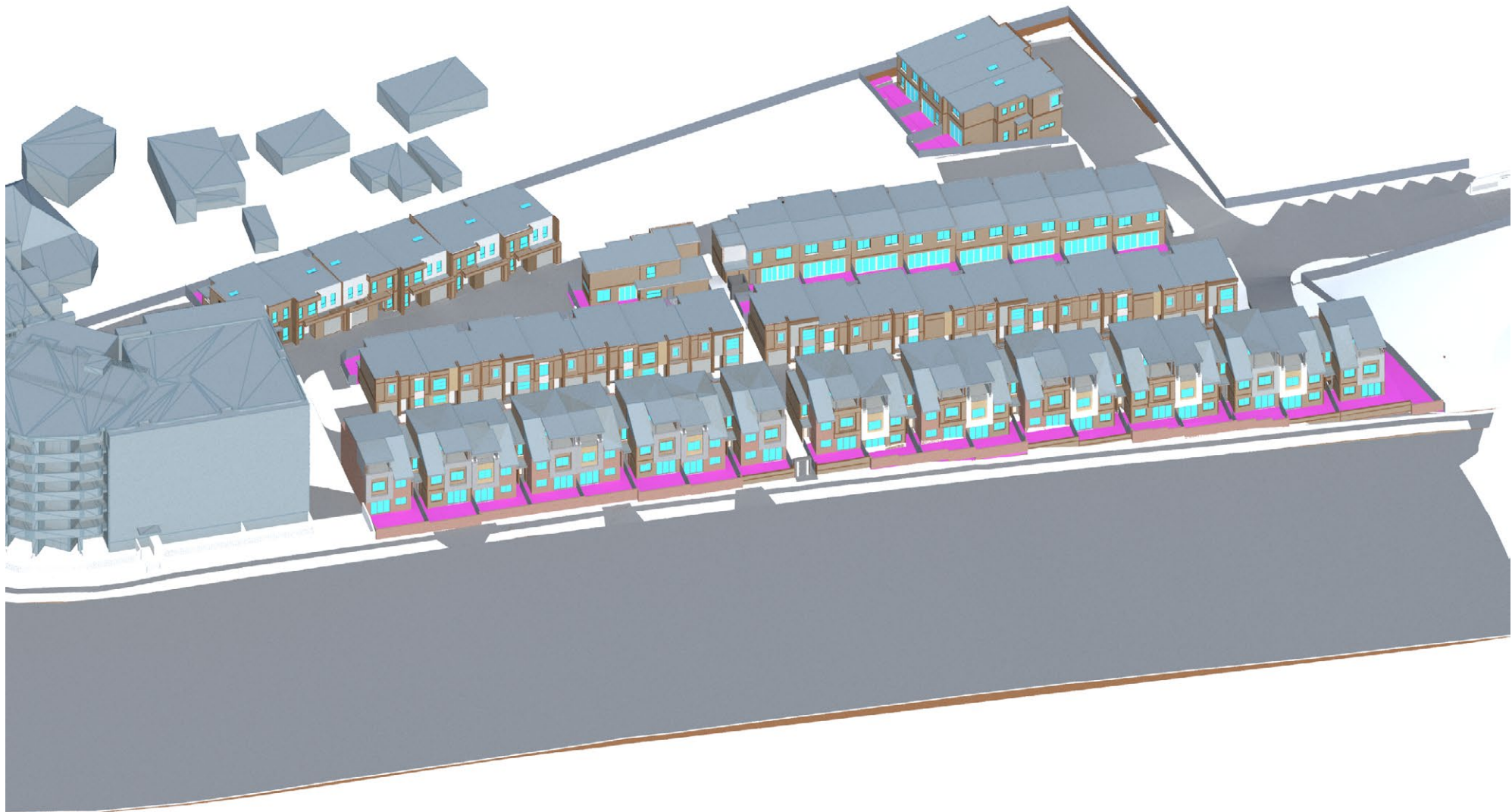
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15:00  
Equinox Mar/Sept 22


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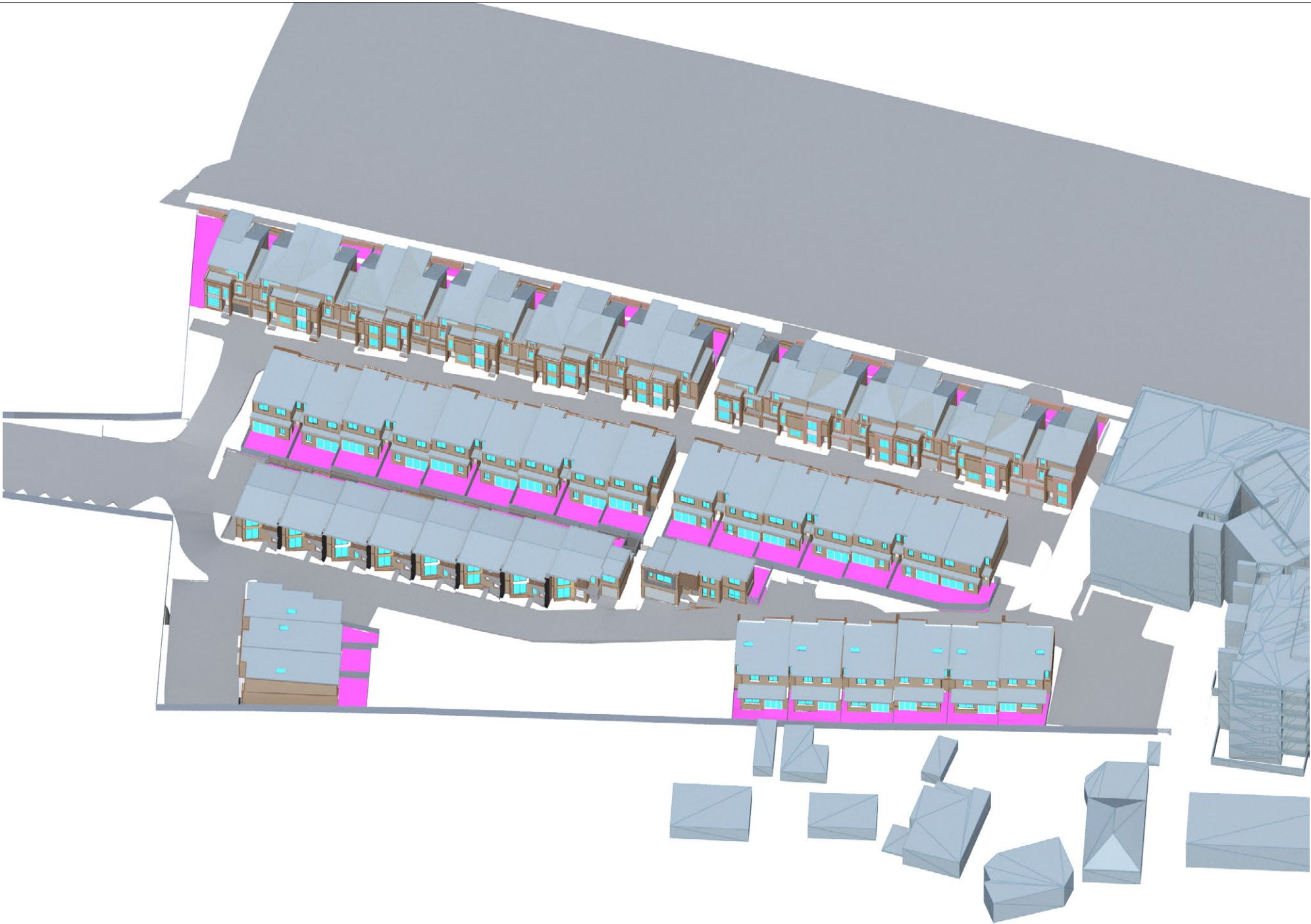
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VFS KEY

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WINDOWS



9:00  
Summer Solstice Dec 21


TITLE  
VIEW FROM SUN

PROJECT  
PROPOSED Townhouses  
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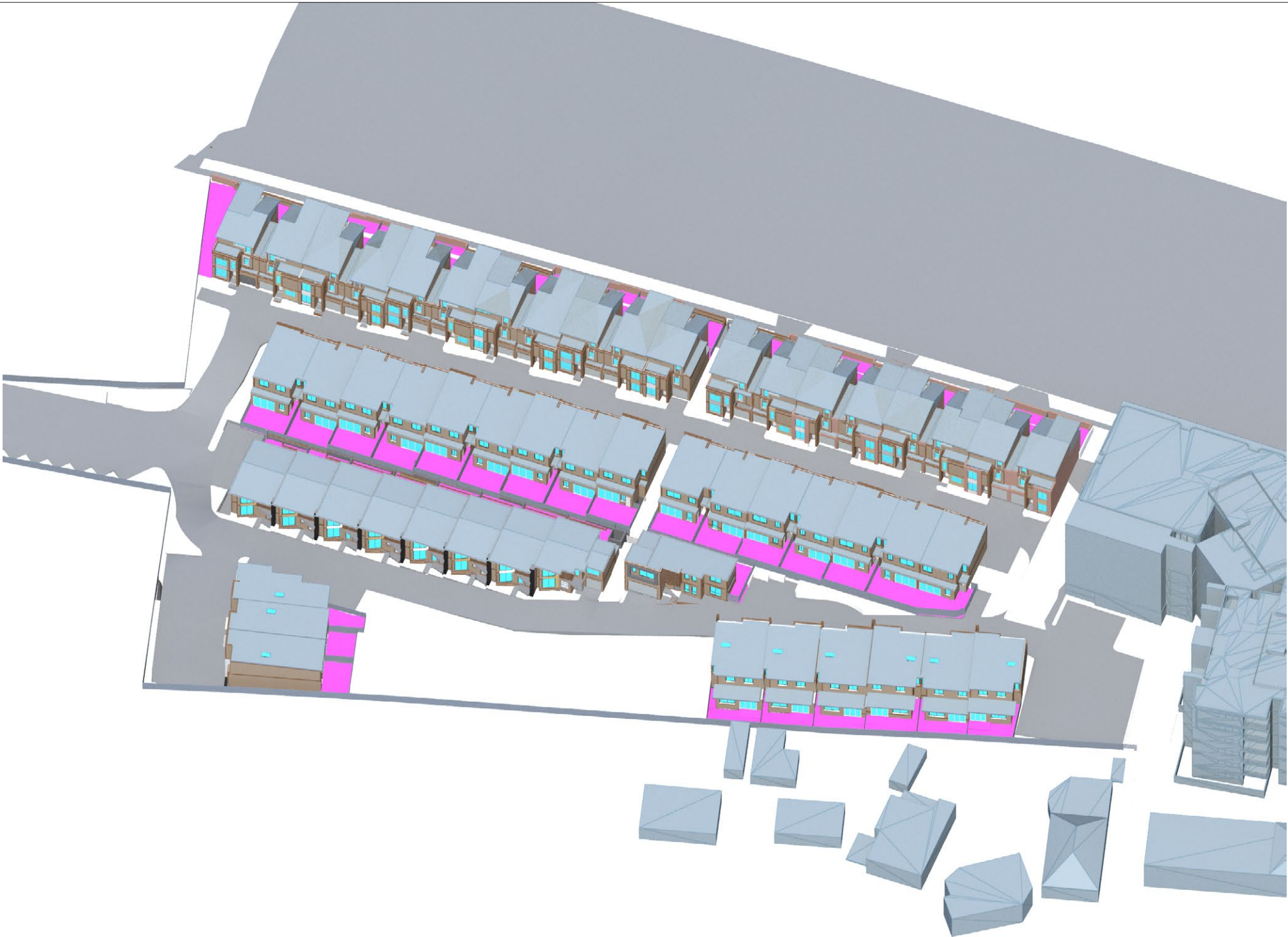
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WINDOWS



9:15  
Summer Solstice Dec 21


TITLE  
VIEW FROM SUN

PROJECT  
PROPOSED Townhouses  
400-404 Cabramatta Rd  
2-18 Orange Grove Rd & 6 Links Rd  
Cabramatta

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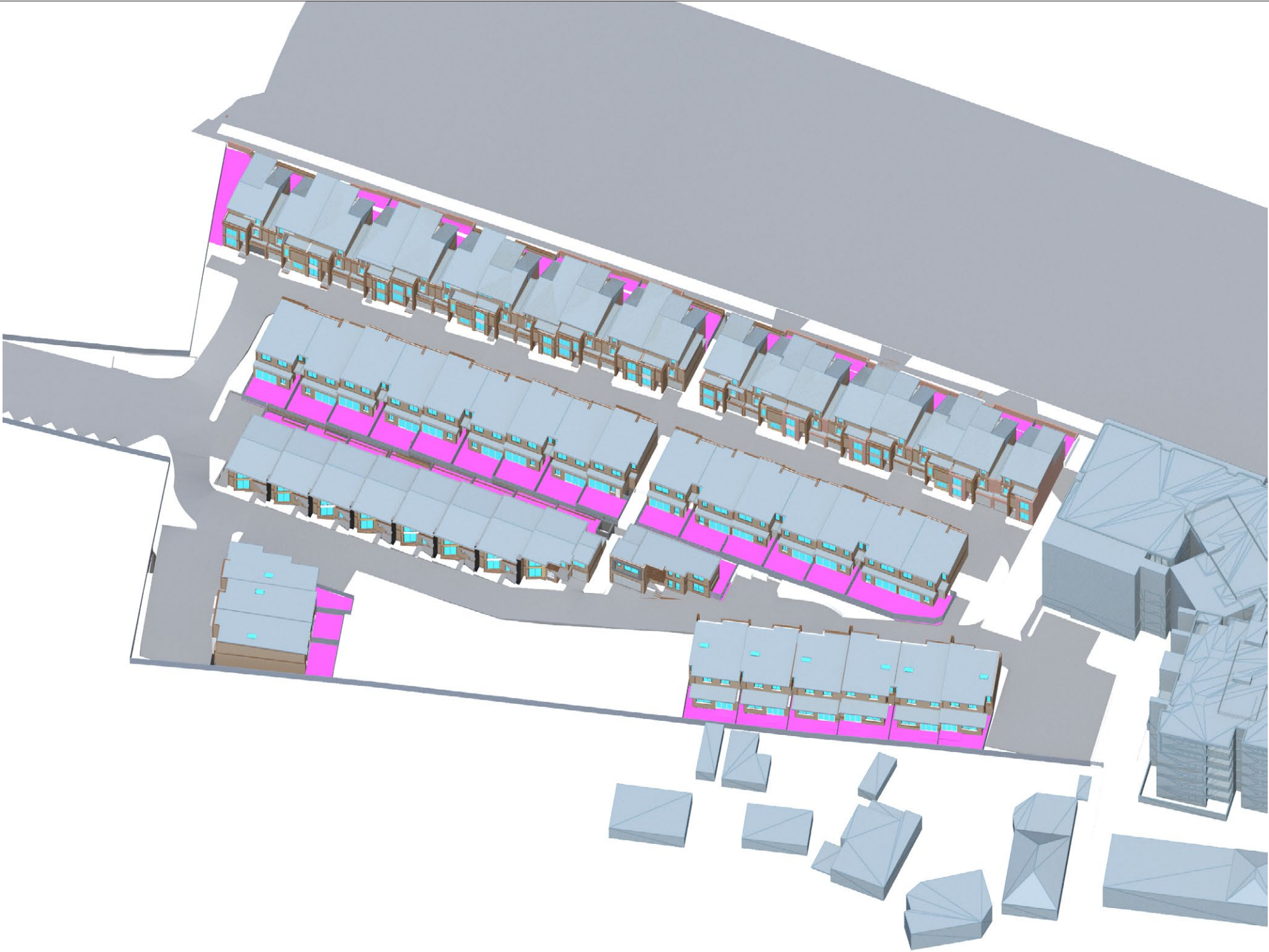
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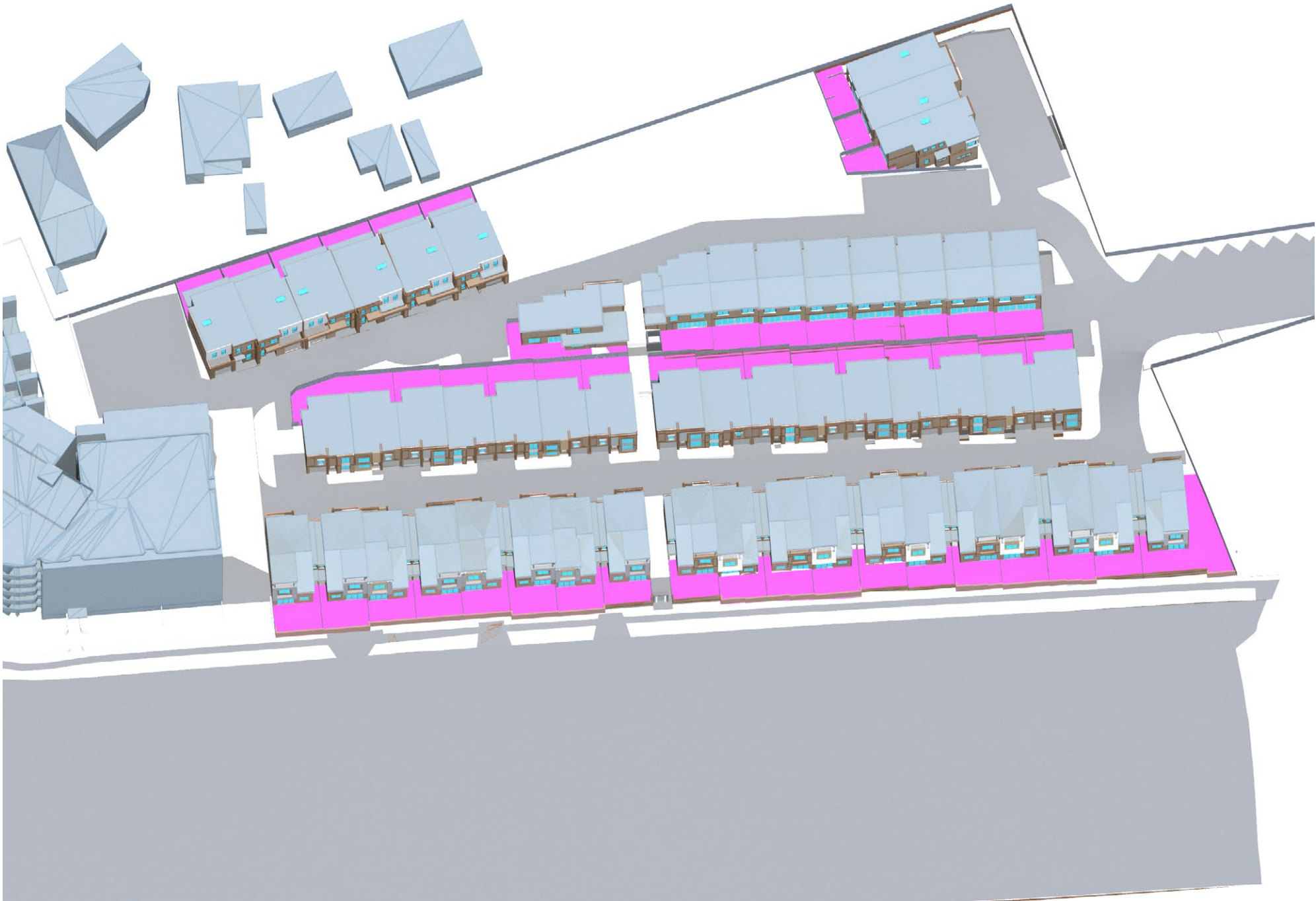
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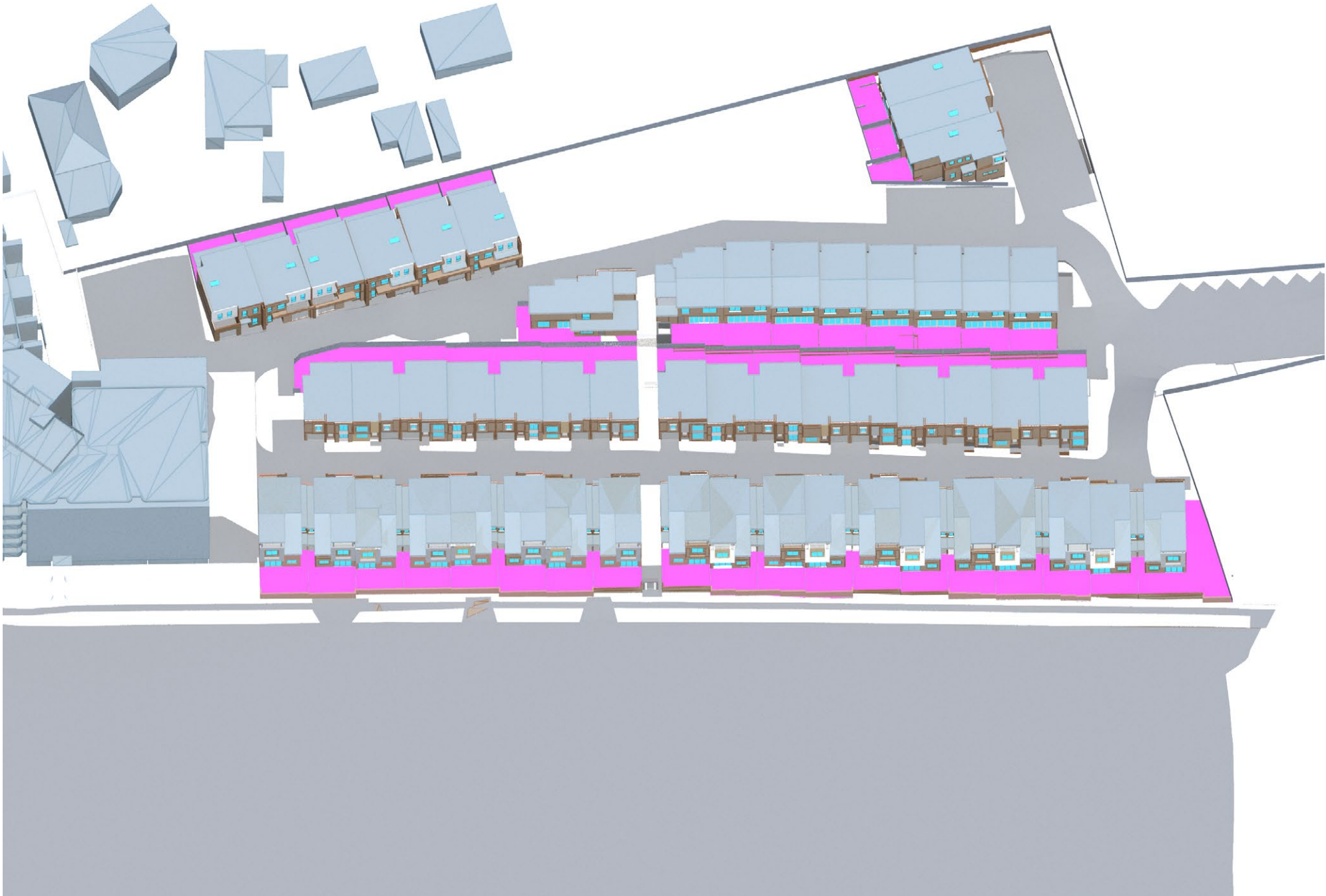
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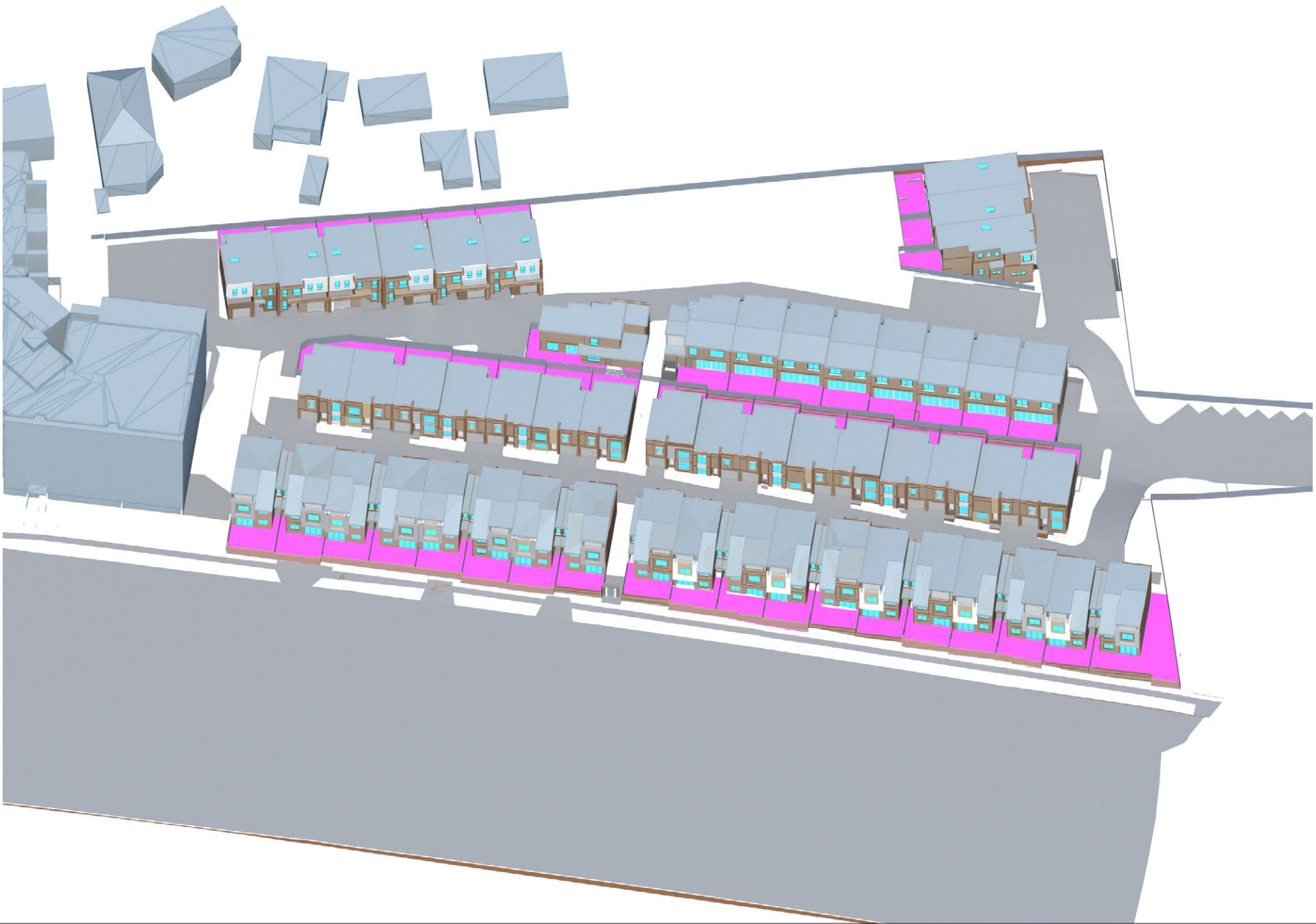
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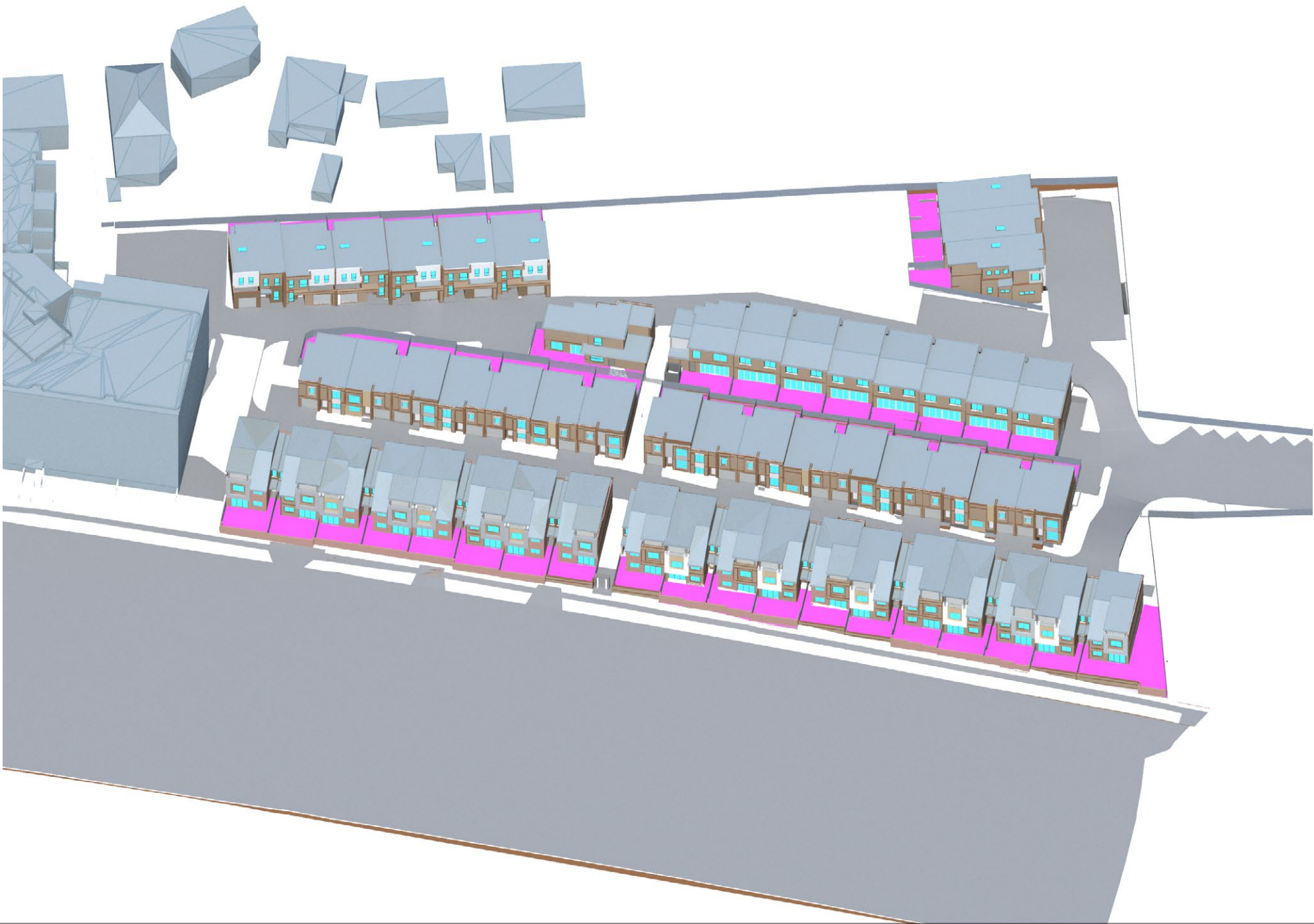
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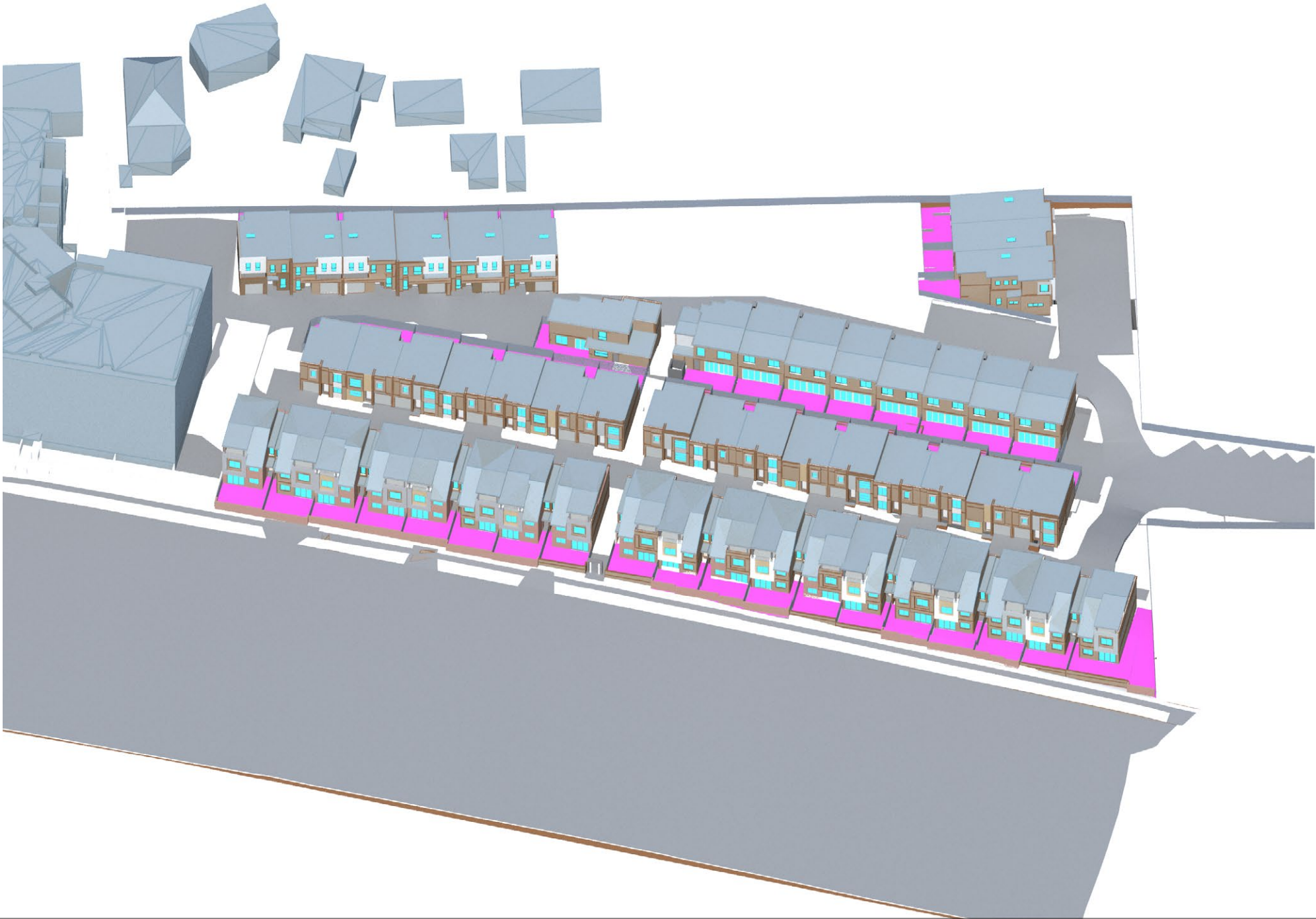
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