

# **Attachment C**

## **Solar Access Diagrams**

**NOTE 1:** CHECK ALL DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF CONSTRUCTION. DIMENSIONS THAT DO NOT CHECK SHALL BE CORRECTED TO MATCH THE SURVEY DATA. DIMENSIONS THAT DO NOT CHECK SHALL BE CORRECTED TO MATCH THE SURVEY DATA.

ALL LEVELS ARE TO AHD AND HAVE BEEN OBTAINED FROM GEA SURVEYING SERVICES PT. 11 APRIL 2017.

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THESE SHADOW DIAGRAMS HAVE BEEN GENERATED BY COMPUTER CALCULATIONS USING THE SUNFINDER/ARCAD 10.0.2 SOFTWARE. THE SHADOWS ARE SHOWN ON THE GROUND PLANE ONLY. DIMENSIONS SHOW SHADOW EFFECTS BY THE PROPOSED DEVELOPMENT FOR EXISTING AND PROPOSED DEVELOPMENT.

SHADOW AREAS DUE TO THE PROPOSED WORKS AT No. 13 ARE SHOWN IN RED. SHADOW AREAS DUE TO THE PROPOSED WORKS AT No. 15 ARE SHOWN IN GREEN. SHADOW AREAS DUE TO THE PROPOSED WORKS AT No. 11 ARE SHOWN IN BLUE. SHADOW AREAS DUE TO THE PROPOSED WORKS AT No. 8A ARE SHOWN IN YELLOW.

**PREPARED BY:**  
B.S. ARCHITECTS (S.A.) ARCHITECTS

**SOLAR STATISTICS - 21 JUNE**

TIME	AZIMUTH	ALTITUDE
12 PM	0° E	32°
3 PM	45° NW	17°

**SOLAR STATISTICS - 21 MARCH**

TIME	AZIMUTH	ALTITUDE
12 PM	0° E	35°
3 PM	60° NW	35°

**LEGEND**

- SHADOW OUTLINE OF PROPOSED DEVELOPMENT
- SHADOW OUTLINE OF EXISTING DEVELOPMENT
- SHADOW OUTLINE OF EXISTING DWELLING NEIGHBOURING BUILDINGS AND FENCES

ADDITIONAL SHADOW AREAS DUE TO PROPOSED WORKS AT No. 13 ARE SHOWN IN RED. ADDITIONAL SHADOW AREAS DUE TO PROPOSED WORKS AT No. 15 ARE SHOWN IN GREEN. ADDITIONAL SHADOW AREAS DUE TO PROPOSED WORKS AT No. 11 ARE SHOWN IN BLUE. ADDITIONAL SHADOW AREAS DUE TO PROPOSED WORKS AT No. 8A ARE SHOWN IN YELLOW.

EXISTING SHOWN AREAS OF EXISTING BUILDINGS IN THIS AREA OF EXISTING BUILDINGS AND FENCES NEIGHBOURING BUILDINGS AND FENCES

ADDITIONAL SHADOW AREAS DUE TO PROPOSED WORKS AT No. 13 ARE SHOWN IN RED. ADDITIONAL SHADOW AREAS DUE TO PROPOSED WORKS AT No. 15 ARE SHOWN IN GREEN. ADDITIONAL SHADOW AREAS DUE TO PROPOSED WORKS AT No. 11 ARE SHOWN IN BLUE. ADDITIONAL SHADOW AREAS DUE TO PROPOSED WORKS AT No. 8A ARE SHOWN IN YELLOW.

**1H** SOLAR ACCESS (AN HOUR TO A WINDOW SINCE 9AM) WINDOW SINCE 9AM

EXISTING NEIGHBOURING BUILDINGS OF WINDOWS AND DOORS SIZES OF SPECIFIC ROOMS AS INDICATED

84	DA INFO SUBMISSION	23.12.19
85	DA INFO SUBMISSION	1.11.19
86	DA INFO SUBMISSION	13.11.19
81	DA INFO SUBMISSION	06.08.19
A	DA SUBMISSION	20.08.19
02	CLEN REVIEW	02.03.19
01	CLEN REVIEW	01.03.19
89V	NOTES	DATE

DESIGN P. LIQUIDS

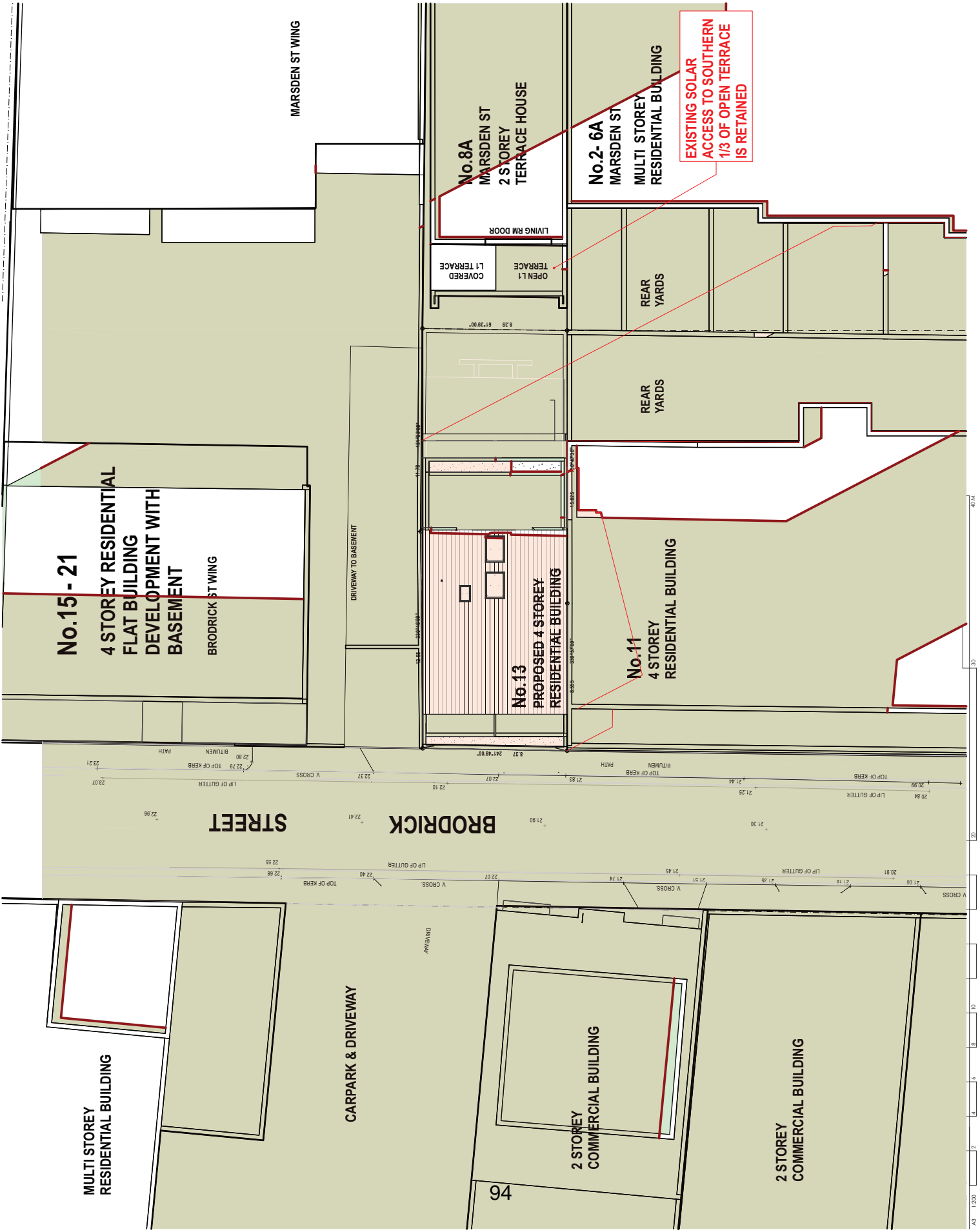
**NEW BOARDING STUDIO DEVELOPMENT**

**13**  
BRODRICK ST  
CAMPERDOWN  
address

**vourteums architectis**  
vourteums.com.au or [info@vourteums.com.au](mailto:info@vourteums.com.au)  
33A Harmer Road Woodrow NSW 2206, Ph: 9533 1407, e-mail: [info@vourteums.com.au](mailto:info@vourteums.com.au)

**SHADOW PLAN - WINTER SOLISTICE 21 JUNE 9AM**

**1908:DA151: B4**  
drawing no. 9/1/20 issue



A3 1:200 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50

**NOTE 1:**  
 DO NOT SCALE OFF DRAWINGS. USE FIGURED DIMENSIONS ONLY.  
 CHECK ALL DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF CONSTRUCTION. DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE SPECIFIED.  
 CO-ORDINATES THAT TO BE CHECKED ON SITE.  
 ALL LEVELS ARE TO AHD AND HAVE BEEN DETERMINED FROM C&G SURVEYS SERVICES PT. 11 APRIL 2017.  
 AVAILABLE DATA. THE SURVEY INFORMATION BY THESE COPIRIGHT THEREIN ARE THE PROPERTY OF KON VOITZEUMAS AND MUST NOT BE USED, REPRODUCED OR COPIED WITHOUT OR EXCEPT BY THE WRITTEN PERMISSION OF KON VOITZEUMAS.  
 THESE SHADOW DIAGRAMS HAVE BEEN GENERATED BY SHADOW CASTING SOFTWARE. THE SHADOWS ARE BASED ON THE SHOWN OUTLINES HAVE BEEN CAST ON A HORIZONTAL PLANE ONLY. DIAGRAMS SHOW SHADOW EFFECTS BY THE PROPOSED DEVELOPMENT AT THE PROPOSED CONDITIONS. PHOTOGRAPHS OF EXISTING AND PROPOSED BUILDINGS AND LANDSCAPE ELEMENTS ARE INCLUDED IN BROCKDICK CAMPERDOWN HAVE BEEN SPECIALLY INDICATED BY PHOTOGRAPHY AND ANNOTATION DIRECTION OF TRUE NORTH HAS BEEN PROVIDED FROM THE SITE SURVEY.  
 PREPARED BY KON VOITZEUMAS B.S.(ARCHITECTURE) & ARCH (HONS)  
 SOLAR STATISTICS - 21 JUNE  
 TIME ALTITUDE  
 06:00 6.5°  
 08:00 14.0°  
 10:00 22.0°  
 12:00 31.0°  
 14:00 40.0°  
 16:00 48.0°  
 18:00 55.0°  
 20:00 60.0°  
 22:00 63.0°  
 24:00 64.0°  
 SOLAR STATISTICS - 21 MARCH  
 TIME ALTITUDE  
 06:00 11.0°  
 08:00 20.0°  
 10:00 28.0°  
 12:00 35.0°  
 14:00 41.0°  
 16:00 46.0°  
 18:00 49.0°  
 20:00 50.0°  
 22:00 49.0°  
 24:00 46.0°

**LEGEND**  
 SHOWN DATE OF PROPOSED WORKS AND BROCKDICK ST CAST ON GROUND AND OFF PLANS  
 PROPOSED TO BE EXISTING AND FINISHING  
 EXISTING TO BE DEMOLISHED AND FINISHING  
 EXISTING TO BE EXISTING AND FINISHING  
 EXISTING TO BE EXISTING AND FINISHING  
 EXISTING TO BE EXISTING AND FINISHING  
 EXISTING TO BE EXISTING AND FINISHING

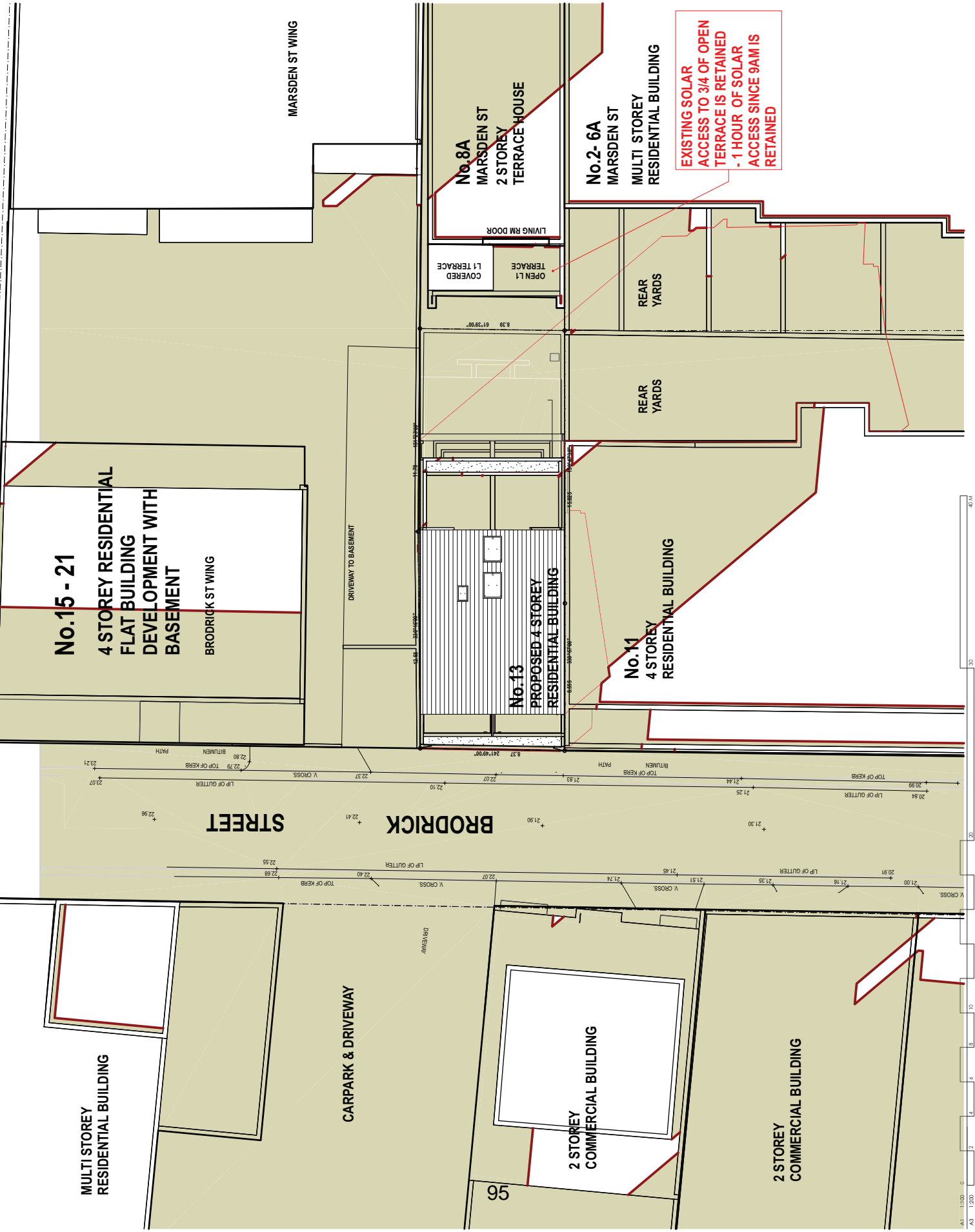
1H  
 SHOWN DATE OF PROPOSED WORKS AND BROCKDICK ST CAST ON GROUND AND OFF PLANS  
 PROPOSED TO BE EXISTING AND FINISHING  
 EXISTING TO BE DEMOLISHED AND FINISHING  
 EXISTING TO BE EXISTING AND FINISHING  
 EXISTING TO BE EXISTING AND FINISHING  
 EXISTING TO BE EXISTING AND FINISHING

DA INFO SUBMISSION 23.12.19  
 DA INFO SUBMISSION 11.12.19  
 DA INFO SUBMISSION 13.11.19  
 DA INFO SUBMISSION 06.08.19  
 DA SUBMISSION 20.08.19  
 CLIENT REVIEW 02.03.19  
 CLIENT REVIEW 01.03.19  
 DATE

**NEW BOARDING STUDIO DEVELOPMENT**  
 PROJECT 13  
 BROCKDICK ST CAMPERDOWN  
 address

**votzeumis architects**  
 kon voitzeumis arch - newing no.701 athen rd 173 843 133  
 336A hwy 11 brookwood nsw 2208 ph: 9573 1467 e-mail: info@votzeumis.com.au

**SHADOW PLAN - WINTER SOLISTICE 21 JUNE 10AM**  
 DRAWING 1908:DA152: B4  
 PROJECT GROWING NO. ISSUE 9/1/20



**EXISTING SOLAR ACCESS TO 3/4 OF OPEN TERRACE IS RETAINED - 1 HOUR OF SOLAR ACCESS SINCE 9AM IS RETAINED**

**BRODRICK STREET**

**BRODRICK STREET**

**MARSDEN ST WING**

**No. 15 - 21**  
**4 STOREY RESIDENTIAL FLAT BUILDING DEVELOPMENT WITH BASEMENT**  
 BRODRICK ST WING

**No. 13**  
**PROPOSED 4 STOREY RESIDENTIAL BUILDING**

**No. 11**  
**4 STOREY RESIDENTIAL BUILDING**

**No. 8A**  
**MARSDEN ST**  
**2 STOREY TERRACE HOUSE**

**No. 2- 6A**  
**MARSDEN ST**  
**MULTI STOREY RESIDENTIAL BUILDING**

**REAR YARDS**

**REAR YARDS**

**MULTI STOREY RESIDENTIAL BUILDING**

**CARPARK & DRIVEWAY**

**2 STOREY COMMERCIAL BUILDING**

**2 STOREY COMMERCIAL BUILDING**

95



**NOTE 1:** DIMENSIONS OF DRAWINGS USE FIGURED DIMENSIONS ONLY. DO NOT SCALE OFF DRAWINGS.  
CHECK ALL DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF CONSTRUCTION.  
CONTRACTORS TO VERIFY THAT THE DIMENSIONS SHOWN ON THIS PLAN ARE THE SAME AS THE DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS.

**NOTE 2:** ALL LEVELS ARE TO AHD AND HAVE BEEN OBTAINED FROM GKS SURVEYING SERVICES PTY. LTD. ON 11 APRIL 2017.  
AN UNABLE TO OBTAIN THE SURVEY INFORMATION BY THESE MEANS, THE CONTRACTORS TO OBTAIN THE SURVEY INFORMATION AND MAKE SURE THE DIMENSIONS SHOWN ON THIS PLAN ARE THE SAME AS THE DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS.

**NOTE 3:** THESE SHADOW DIAGRAMS HAVE BEEN GENERATED BY CADALUX SOFTWARE AND DO NOT TAKE INTO ACCOUNT THE SHADOWS OF NEARBY BUILDINGS OR TERRACES. THE SHADOW OUTLINES HAVE BEEN CAST ON GROUND PLANE ONLY.  
FOR MORE INFORMATION ON THE SOFTWARE USED, VISIT [WWW.CADALUX.COM](http://www.cadalux.com).  
PROPOSED CONDITIONS: PROPOSED MARSDEN ST 13, BRODRICK ST CAMPERDOWN FOR EXISTING AND PROPOSED BRODRICK ST CAMPERDOWN HAVE BEEN SPECIALLY INDICATED BY HATCHING AND ANNOTATION (DIRECTION OF TRUE NORTH HAS BEEN PROVIDED FOR THE SITE SURVEY).

**PREPARED BY:** KON VOULTZIOUMIS & ARCHITECTS  
B. SC. (ARCHITECTURE) & ARCH. (HOUS)

**SOLAR STATISTICS - 21 JUNE**  
 TIME 17:00  
 9 AM 42° N 32° W  
 12 PM 42° N 32° W  
 3 PM 42° N 17° W

**SOLAR STATISTICS - 21 MARCH**  
 TIME 09:00  
 9 AM 42° N 32° W  
 12 PM 42° N 32° W  
 3 PM 42° N 32° W

**LEGEND**

SHOWN OUTLINE OF PROPOSED WORKS AND EXISTING PROPOSED WORKS AT 13 BRODRICK STREET, CAMPERDOWN ON GROUND AND GROUND PLANE.

DIMENSIONS OF EXISTING BUILDINGS AND PROPOSED BUILDINGS ARE SHOWN IN RED LINES.

EXISTING SHADOW AREAS OF EXISTING BUILDINGS AT 13 BRODRICK STREET, CAMPERDOWN ON GROUND AND GROUND PLANE.

EXISTING SHADOW AREAS OF PROPOSED BUILDINGS AT 13 BRODRICK STREET, CAMPERDOWN ON GROUND AND GROUND PLANE.

EXISTING SHADOW AREAS OF PROPOSED BUILDINGS AT 13 BRODRICK STREET, CAMPERDOWN ON GROUND AND GROUND PLANE.

EXISTING SHADOW AREAS OF PROPOSED BUILDINGS AT 13 BRODRICK STREET, CAMPERDOWN ON GROUND AND GROUND PLANE.

**1H** EXISTING SHADOW AREAS OF PROPOSED BUILDINGS AT 13 BRODRICK STREET, CAMPERDOWN ON GROUND AND GROUND PLANE.

DA INFO SUBMISSION 23.12.19  
 DA INFO SUBMISSION 11.12.19  
 DA INFO SUBMISSION 13.11.19  
 DA INFO SUBMISSION 06.08.19  
 DA SUBMISSION 20.06.19  
 CLIENT REVIEW 02.05.19  
 CLIENT REVIEW 01.03.19  
 REV NOTES

DESIGN P. LINDOUDS

**NEW BOARDING STUDIO DEVELOPMENT**

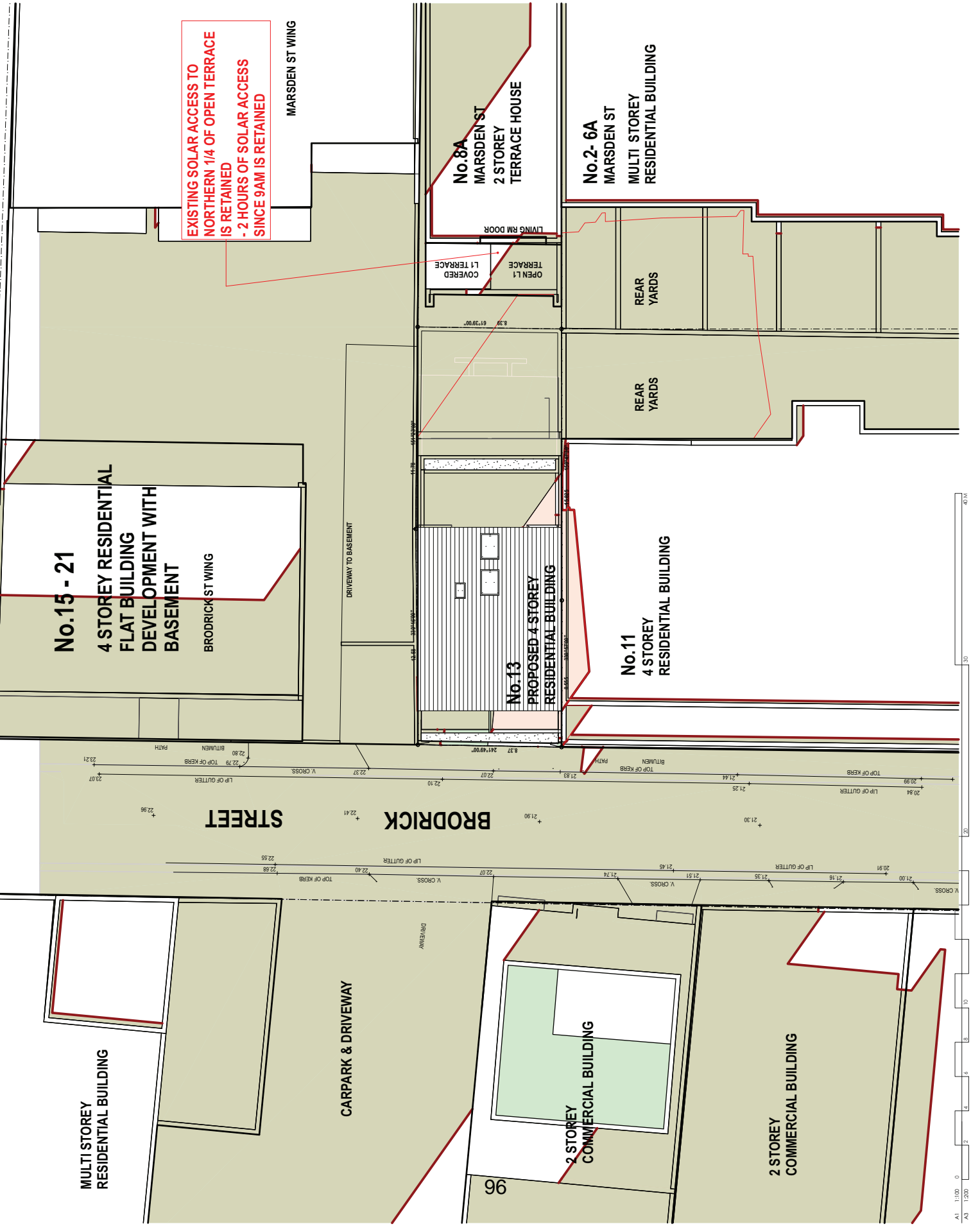
**13**  
 BRODRICK ST  
 CAMPERDOWN  
 address

**VOVIC**  
 VOULZIOUMIS ARCHITECTS  
 334A Farmer Rd. Camperdown NSW 2050. Ph: 9533 1407. E-mail: info@vovic.com.au

**SHADOW PLAN - WINTER SOLISTICE 21 JUNE 11AM**

**1908:DA153: B4**

9/1/20 drawing no. issue





**NOTE 1:** ALL DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF CONSTRUCTION SHALL BE CHECKED ON SITE.  
 ALL DIMENSIONS ARE TO AD AND HAVE BEEN OBTAINED FROM AERIAL PHOTOGRAPHS AND SURVEY DATA.  
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**SOLAR STATISTICS - 4 JUNE**  
 TIME 12 PM  
 AZIMUTH 32°  
 ALTITUDE 42°  
 G N E  
 42° NW 17°

**SOLAR STATISTICS - 21 MARCH**  
 TIME 12 PM  
 AZIMUTH 55°  
 ALTITUDE 55°  
 G N E  
 60° NW 35°

**LEGEND**  
 SHOWN IN LINE OF PROPOSED WORKS IN 1:13 BRODRICK ST - EAST ON GROUND AND ON PLANS  
 SHADOW OF EXISTING BUILDING AND PROPOSED BUILDING  
 EXISTING BUILDING  
 BUILDING TO BE DEMOLISHED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED

**SHADOW DIAGRAM**  
 SHOWN IN LINE OF PROPOSED WORKS IN 1:13 BRODRICK ST - EAST ON GROUND AND ON PLANS  
 SHADOW OF EXISTING BUILDING AND PROPOSED BUILDING  
 EXISTING BUILDING  
 BUILDING TO BE DEMOLISHED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED

**SHADOW DIAGRAM**  
 SHOWN IN LINE OF PROPOSED WORKS IN 1:13 BRODRICK ST - EAST ON GROUND AND ON PLANS  
 SHADOW OF EXISTING BUILDING AND PROPOSED BUILDING  
 EXISTING BUILDING  
 BUILDING TO BE DEMOLISHED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED

**SHADOW DIAGRAM**  
 SHOWN IN LINE OF PROPOSED WORKS IN 1:13 BRODRICK ST - EAST ON GROUND AND ON PLANS  
 SHADOW OF EXISTING BUILDING AND PROPOSED BUILDING  
 EXISTING BUILDING  
 BUILDING TO BE DEMOLISHED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED

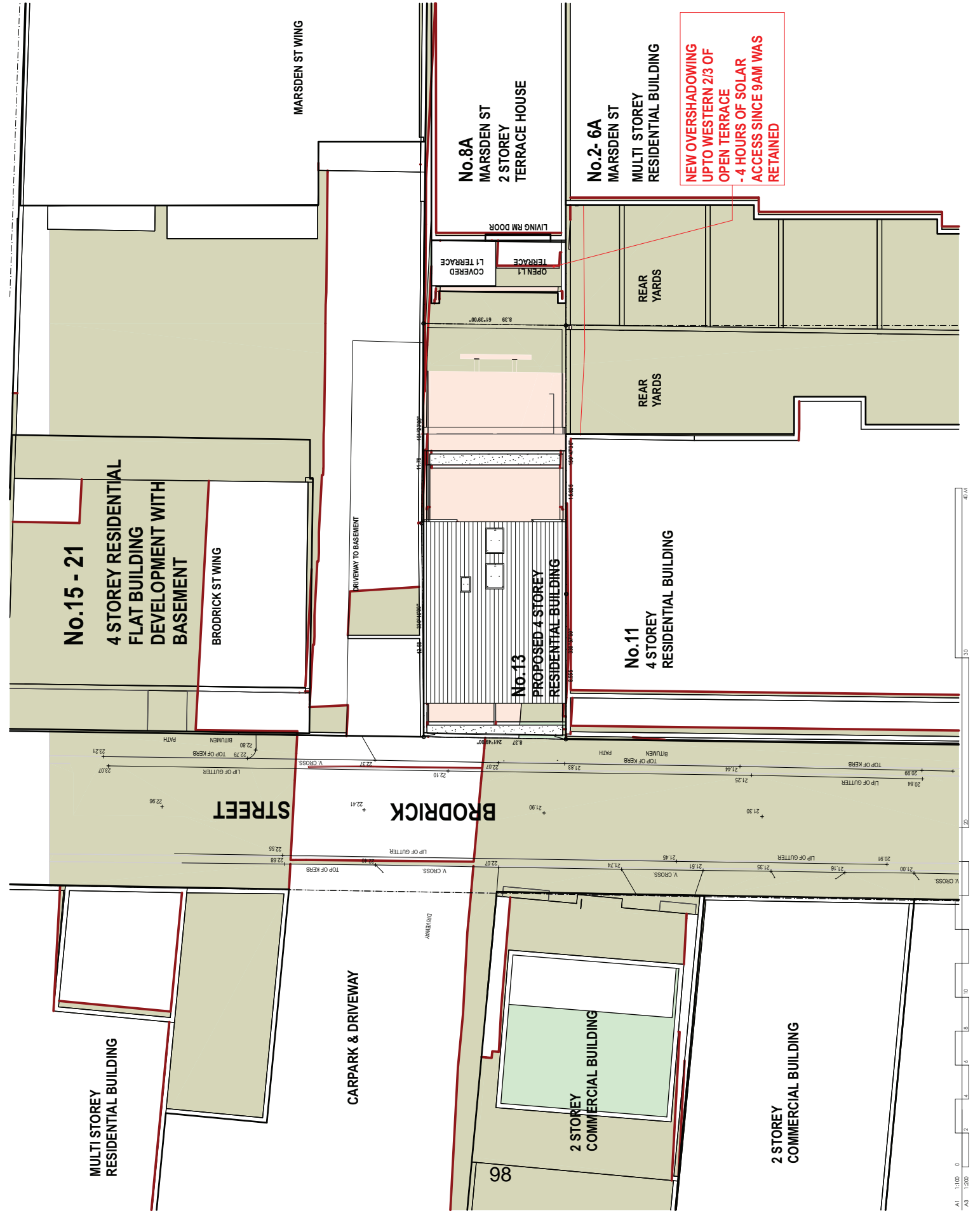
**SHADOW DIAGRAM**  
 SHOWN IN LINE OF PROPOSED WORKS IN 1:13 BRODRICK ST - EAST ON GROUND AND ON PLANS  
 SHADOW OF EXISTING BUILDING AND PROPOSED BUILDING  
 EXISTING BUILDING  
 BUILDING TO BE DEMOLISHED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
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 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED

**SHADOW DIAGRAM**  
 SHOWN IN LINE OF PROPOSED WORKS IN 1:13 BRODRICK ST - EAST ON GROUND AND ON PLANS  
 SHADOW OF EXISTING BUILDING AND PROPOSED BUILDING  
 EXISTING BUILDING  
 BUILDING TO BE DEMOLISHED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED

**SHADOW DIAGRAM**  
 SHOWN IN LINE OF PROPOSED WORKS IN 1:13 BRODRICK ST - EAST ON GROUND AND ON PLANS  
 SHADOW OF EXISTING BUILDING AND PROPOSED BUILDING  
 EXISTING BUILDING  
 BUILDING TO BE DEMOLISHED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED

**SHADOW DIAGRAM**  
 SHOWN IN LINE OF PROPOSED WORKS IN 1:13 BRODRICK ST - EAST ON GROUND AND ON PLANS  
 SHADOW OF EXISTING BUILDING AND PROPOSED BUILDING  
 EXISTING BUILDING  
 BUILDING TO BE DEMOLISHED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED

**SHADOW DIAGRAM**  
 SHOWN IN LINE OF PROPOSED WORKS IN 1:13 BRODRICK ST - EAST ON GROUND AND ON PLANS  
 SHADOW OF EXISTING BUILDING AND PROPOSED BUILDING  
 EXISTING BUILDING  
 BUILDING TO BE DEMOLISHED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED  
 BUILDING TO BE RECONSTRUCTED  
 BUILDING TO BE EXTENDED  
 BUILDING TO BE ADDED  
 BUILDING TO BE REMOVED



**NEW OVERSHADOWING UP TO WESTERN 2/3 OF OPEN TERRACE - 4 HOURS OF SOLAR ACCESS SINCE 9AM WAS RETAINED**

**NEW BOARDING STUDIO DEVELOPMENT**  
 project  
 13  
 BRODRICK ST  
 CAMPERDOWN  
 address

**vodic**  
 v o d i c u m s a r c h i t e c t s  
 v o d i c u m s a r c h i t e c t s  
 33A Harmer Road, Camperdown NSW 2050, Ph: 9533 1407, e-mail: info@vodic.com.au

**SHADOW PLAN - WINTER SOLISTICE 21 JUNE 1PM**

**1908:DA155: B4**  
 drawing no.  
 9/1/20 issue

**NOTE 1:** ALL DIMENSIONS ON THIS DRAWING UNLESS SPECIFIED OTHERWISE ARE IN METERS. DIMENSIONS ON THIS DRAWING ARE FOR INFORMATION ONLY. CHECK ALL DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF CONSTRUCTION. DIMENSIONS MAY BE CHECKED ON SITE.

ALL LEVELS ARE TO AHD AND HAVE BEEN OBTAINED FROM GEA SURVEYING SERVICES PT. 11 APRIL 2017

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THESE SHADOW DIAGRAMS HAVE BEEN GENERATED BY CAD AAS "RAY" SHADOW OUTLINES HAVE BEEN CAST ON GROUND PLANE ONLY. SHADOWS ARE NOT TO BE USED FOR DETERMINING EXISTING OR PROPOSED CONDITIONS.

CONSTRUCTION OF PROPOSED BUILDINGS TO BE CONSTRUCTED AT BRODRICK ST AND MARS DEN ST, AS INDICATED BY BRODRICK ST CAMPERDOWN AND MARS DEN ST CAMPERDOWN HAVE BEEN SPECIALLY INDICATED BY HATCHING AND ANNOTATION (DIRECTION OF TRUE NORTH HAS BEEN INDICATED) FOR THE SITE SURVEY

**PREPARED BY:** KON VOUTZOUZOS  
**8 SC (ARCHITECTS) & ARCH (CONS)**

**SOLAR STATISTICS - 21 JUNE**

TIME 12:00 PM  
 ALTITUDE 425.32 M  
 DATE 21 JUNE 2017  
 DIRECTION 127.97°

**SOLAR STATISTICS - 21 MARCH**

TIME 12:00 PM  
 ALTITUDE 425.32 M  
 DATE 21 MARCH 2017  
 DIRECTION 127.97°

**LEGEND**

- SHOWN OUTLINE OF PROPOSED WORKS AT 11/13 BRODRICK ST AND 1/13 BRODRICK ST ON GROUND AND GROUND PLANS
- EXISTING SHADOW AREAS OF EXISTING BUILDINGS AT 1/13 BRODRICK ST AND 1/13 BRODRICK ST WITH COMPLIANT BUILDING HEIGHT
- EXISTING SHADOW AREAS OF EXISTING BUILDINGS AT 1/13 BRODRICK ST AND 1/13 BRODRICK ST WITH COMPLIANT BUILDING HEIGHT

**1H** SHOWN OUTLINE OF PROPOSED WORKS AT 1/13 BRODRICK ST AND 1/13 BRODRICK ST ON GROUND AND GROUND PLANS

**1H** SHOWN OUTLINE OF PROPOSED WORKS AT 1/13 BRODRICK ST AND 1/13 BRODRICK ST ON GROUND AND GROUND PLANS

**1H** SHOWN OUTLINE OF PROPOSED WORKS AT 1/13 BRODRICK ST AND 1/13 BRODRICK ST ON GROUND AND GROUND PLANS

**1H** SHOWN OUTLINE OF PROPOSED WORKS AT 1/13 BRODRICK ST AND 1/13 BRODRICK ST ON GROUND AND GROUND PLANS

**1H** SHOWN OUTLINE OF PROPOSED WORKS AT 1/13 BRODRICK ST AND 1/13 BRODRICK ST ON GROUND AND GROUND PLANS

**1H** SHOWN OUTLINE OF PROPOSED WORKS AT 1/13 BRODRICK ST AND 1/13 BRODRICK ST ON GROUND AND GROUND PLANS

**1H** SHOWN OUTLINE OF PROPOSED WORKS AT 1/13 BRODRICK ST AND 1/13 BRODRICK ST ON GROUND AND GROUND PLANS

**1H** SHOWN OUTLINE OF PROPOSED WORKS AT 1/13 BRODRICK ST AND 1/13 BRODRICK ST ON GROUND AND GROUND PLANS

NO.	DATE	DESCRIPTION
84	23.12.19	DA INFO SUBMISSION
85	11.12.19	DA INFO SUBMISSION
86	13.11.19	DA INFO SUBMISSION
81	06.08.19	DA INFO SUBMISSION
A	20.04.19	DA SUBMISSION
02	02.03.19	CLIENT REVIEW
01	01.03.19	CLIENT REVIEW
89	01.03.19	DATE
90		DATE

**NEW BOARDING STUDIO DEVELOPMENT**

**13** BRODRICK ST CAMPERDOWN

**vodic**

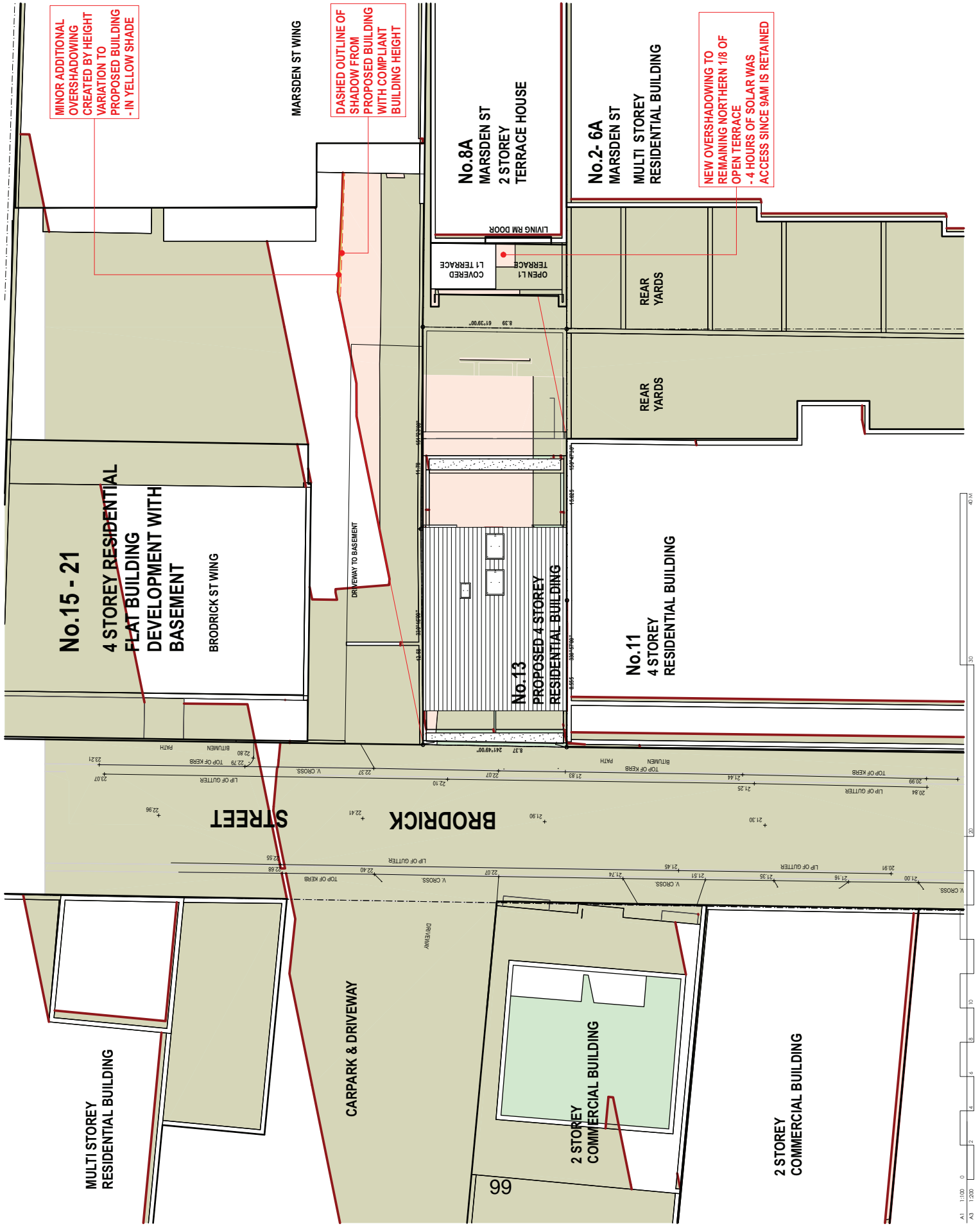
**voutzouzos architects**

133A Harmer Rd, Brookwood NSW 2206, PH: 9533 1497, E-MAIL: info@vodic.com.au

**SHADOW PLAN - WINTER SOLISTICE 21 JUNE 2PM**

**1908:DA156: B4**

9/1/20



A1: 1:100 - 0  
 A3: 1:200 - 0

**NOTE 1:** ALL DIMENSIONS ON DRAWINGS USE FIGURED DIMENSIONS ONLY. CHECK ALL DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF CONSTRUCTION. DIMENSIONS THAT DO NOT CHECK SHALL BE CONSIDERED AS APPROXIMATE AND SHALL BE CHECKED ON SITE.

ALL LEVELS ARE TO AHD AND HAVE BEEN OBTAINED FROM GEA SURVEYING SERVICES PT. 11 APRIL 2017

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THESE SHADOW DIAGRAMS HAVE BEEN GENERATED BY SHADWIN. SHADWIN IS A TRADE MARK OF SHADWIN PTY LTD. SHADWIN HAS BEEN CALIBRATED AND VALIDATED ON 14/05/2017. SHADWIN SHOWS SHADOW EFFECTS BY DAY AND HOUR FOR PROPOSED CONDITIONS. SHADWIN HAS BEEN CALIBRATED AND VALIDATED ON 14/05/2017. SHADWIN HAS BEEN CALIBRATED AND VALIDATED ON 14/05/2017. SHADWIN HAS BEEN CALIBRATED AND VALIDATED ON 14/05/2017.

**PREPARED BY:** KON VOITZOURIS (S. ARCHITECTS) & ARCH (CONS)

**SOLAR STATISTICS - 11 JUNE**

TIME	AZIMUTH	ALTITUDE
12 PM	0° N	32°
3 PM	45° NW	17°

**SOLAR STATISTICS - 21 MARCH**

TIME	AZIMUTH	ALTITUDE
12 PM	0° N	59°
3 PM	60° NW	35°

**LEGEND**

- SHADOW BY LINE OF PROPOSED WORKS AT 13 BRODRICK ST (GROUND AND SOLAR PLANES)
- SHADOW BY LINE OF EXISTING NEIGHBOURING BUILDINGS AND FENCES
- EXISTING SHADOWS OF EXISTING BUILDING AT NO. 13 BRODRICK ST (GROUND AND SOLAR PLANES)
- EXISTING SHADOWS OF EXISTING BUILDINGS AND FENCES
- ADDITIONAL SHADOWS DUE TO ROCK SURFACE PROTRUSION OVER EXISTING SHADOWS
- EXISTING SHADOW AREA OF EXISTING BUILDING AT NO. 13 BRODRICK ST (GROUND AND SOLAR PLANES)
- SHADOWS DUE TO PROPOSED WORKS AT 13 BRODRICK ST (GROUND AND SOLAR PLANES)
- SHADOWS DUE TO PROPOSED WORKS AT 13 BRODRICK ST (GROUND AND SOLAR PLANES)

**1H** SOLAR ACCESS (HOURS TO A WINDOW SINCE 9AM)

EXIST NEIGHBOURING BUILDINGS OF VARIOUS AND DIVERSE SIZES OF WINDOWS AND DOORS AND SPECIFIC ROOMS AS INDICATED

LIVING RM

WIND DOWN SINCE 9AM

**DA INFORMATION**

DA NO.	DATE	DESCRIPTION
84	23.12.19	DA INFO SUBMISSION
85	11.12.19	DA INFO SUBMISSION
86	13.11.19	DA INFO SUBMISSION
81	06.08.19	DA INFO SUBMISSION
A	20.08.19	DA SUBMISSION
02	02.03.19	CLIENT REVIEW
01	01.03.19	CLIENT REVIEW
89V	DATE	NOTES

**NEW BOARDING STUDIO DEVELOPMENT**

**13**

**BRODRICK ST CAMPERDOWN**

address

**voitic**

**voitouris architects**

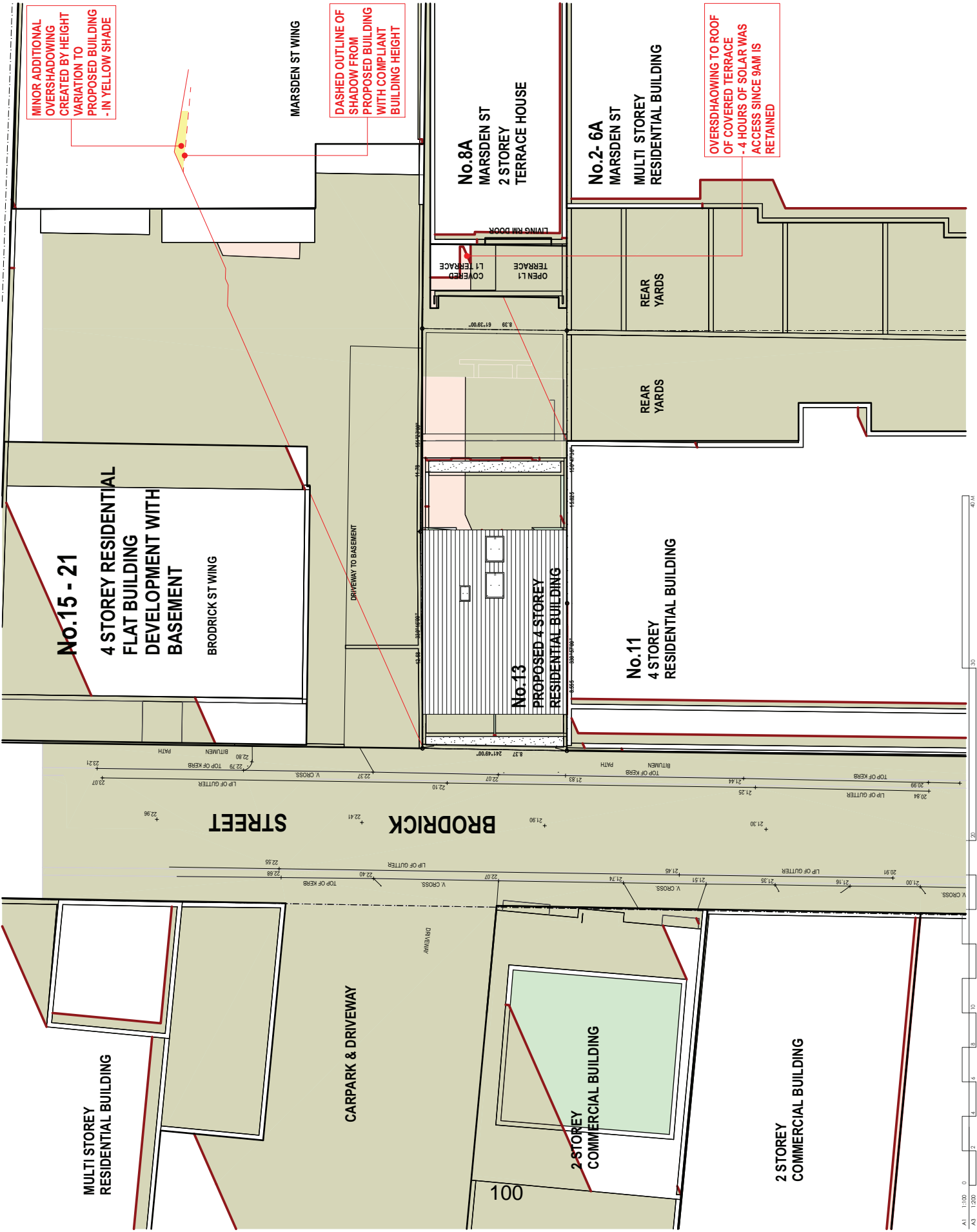
konvoitouris.architects@gmail.com  
 konvoitouris.architects.com.au  
 33A Harmer Street, Camperdown NSW 2050. PH: 9533 1407. E: MAIL: info@voitic.com.au

**SHADOW PLAN - WINTER**

**SOLSTICE 21 JUNE 3PM**

**1908:DA157: B4**

drawing no. 9/1/20 ISSUE





**NOTE 1:**  
 ALL DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF CONSTRUCTION SHALL BE CHECKED ON SITE.  
 ALL DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF CONSTRUCTION SHALL BE CHECKED ON SITE.

ALL LEVELS ARE TO AFD AND HAVE BEEN OBTAINED FROM A REGISTERED SURVEYOR'S PLAN DATED 11 APRIL 2017. ANY DISCREPANCIES BETWEEN THE SURVEYOR'S PLAN AND THIS DRAWING SHALL BE THE RESPONSIBILITY OF THE CLIENT.

THESE SHADOW DIAGRAMS HAVE BEEN GENERATED BY THE ARCHITECT USING A SHADOW ANALYSIS SOFTWARE PROGRAM. THE SHADOWS SHOWN ON THESE DIAGRAMS SHOW SHADOW EFFECTS BY THE PROPOSED BUILDING ON THE SURROUNDING BUILDINGS AND TERRAIN. THE SHADOWS ON THESE DIAGRAMS HAVE BEEN GENERATED BY THE ARCHITECT USING A SHADOW ANALYSIS SOFTWARE PROGRAM. THE SHADOWS SHOWN ON THESE DIAGRAMS SHOW SHADOW EFFECTS BY THE PROPOSED BUILDING ON THE SURROUNDING BUILDINGS AND TERRAIN.

**SOLAR STATISTICS - 21 JUNE**  
 TIME 12 PM  
 AZIMUTH 32°  
 ALTITUDE 61°  
 SHADING COEFFICIENT 0.78

**SOLAR STATISTICS - 21 MARCH**  
 TIME 12 PM  
 AZIMUTH 55°  
 ALTITUDE 75°  
 SHADING COEFFICIENT 0.78

**LEGEND**  
 SHADOWS OF PROPOSED BUILDINGS - CAST ON  
 SHADOWS OF EXISTING BUILDINGS - CAST ON  
 SHADOWS OF EXISTING BUILDINGS - CAST ON

EXISTING BALCONY  
 BUILDING NO. 15 (ROCKFORD ST)  
 BUILDING NO. 16 (ROCKFORD ST)  
 BUILDING NO. 17 (ROCKFORD ST)

PROPOSED COMMON ROOM WINDOW  
 PROPOSED SOLAR ACCESS TO COMMON ROOM WINDOW  
 PROPOSED SOLAR ACCESS TO COMMON ROOM WINDOW

EXISTING COMMON ROOM WINDOW  
 EXISTING SOLAR ACCESS TO COMMON ROOM WINDOW  
 EXISTING SOLAR ACCESS TO COMMON ROOM WINDOW

**1H** SOLAR ACCESS INFORMATION TO A WINDOW ON THE EAST SIDE OF THE BUILDING

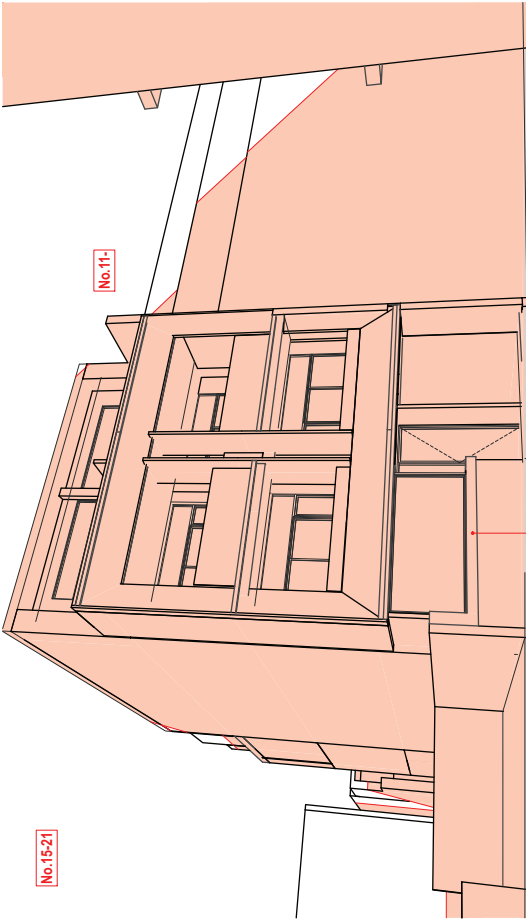
NO.	DATE	DESCRIPTION
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02	11.12.19	DA INFO SUBMISSION
03	13.11.19	DA INFO SUBMISSION
04	06.08.19	DA INFO SUBMISSION
05	20.04.19	DA SUBMISSION
06	02.03.19	CLIENT REVIEW
07	01.03.19	CLIENT REVIEW
08	01.03.19	DATE

**NEW BOARDING STUDIO DEVELOPMENT**  
 PROJECT  
 13 BRODRICK ST  
 CAMPERDOWN  
 ADDRESS

**VOVIC**  
 VOITTEUMS architects  
 33A Hornor Street, Hornor NSW 2208, PH: 9523 1607, E: info@vovic.com.au

**ELEVATIONAL SHADOW STUDY - NORTHERN ELEVATION 13 BRODRICK ST**

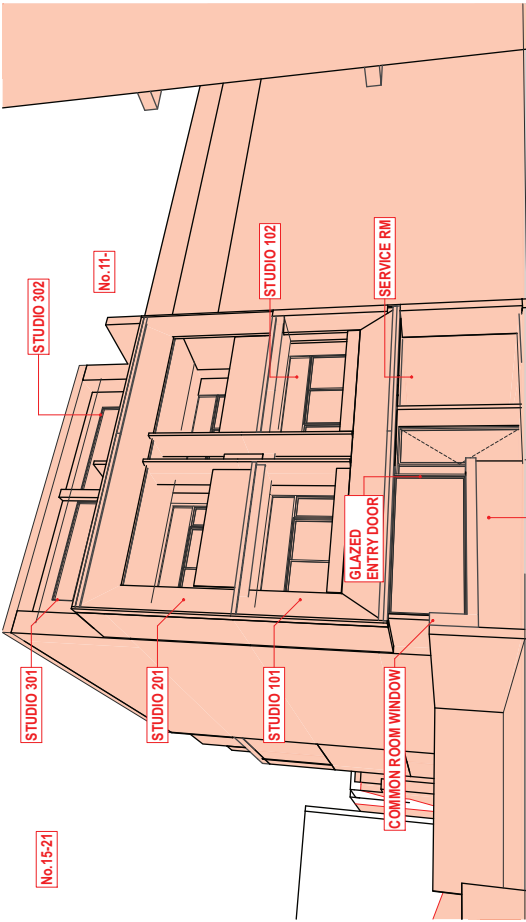
**1908:DA164: B4**  
 DRAWING NO.  
 24/12/19



**JUNE-21-10AM**

**STREET FACADE OBSCURED BY TALL BUILDINGS ON THE OPPOSITE SIDE**

**SOLAR ACCESS COMMENCES TO COMMON ROOM WINDOW AT 11.30AM & SOLAR ACCESS TO UNITS ABOVE**

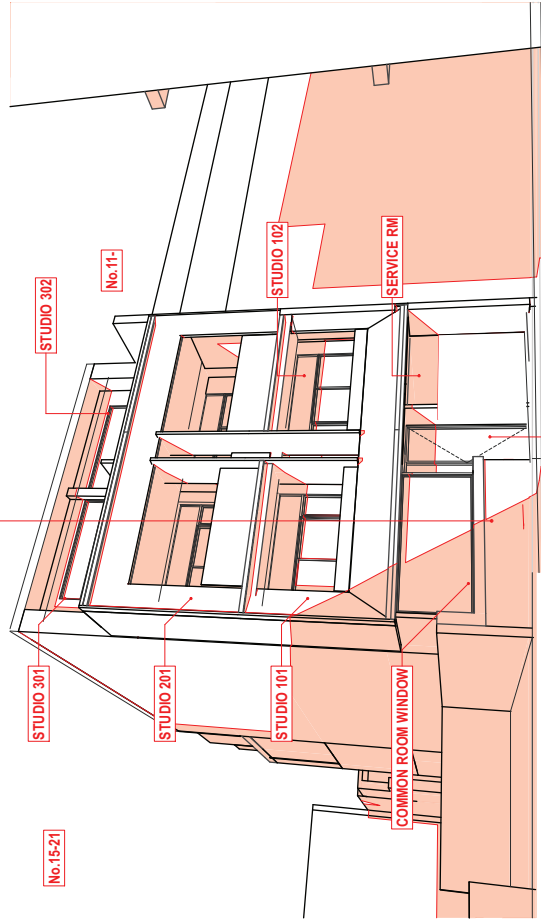


**JUNE-21-09AM**

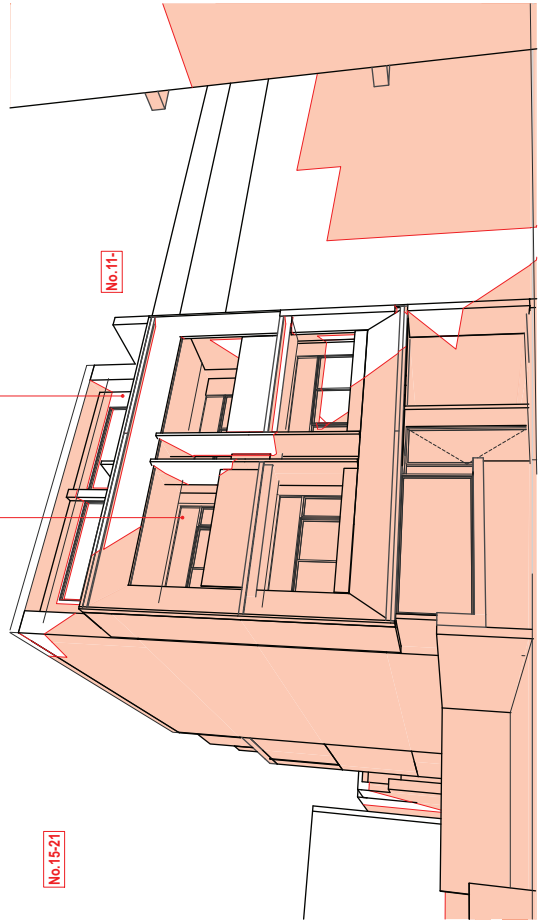
**STREET FACADE OBSCURED BY TALL BUILDINGS ON THE OPPOSITE SIDE**

**SOLAR ACCESS COMMENCING FOR STUDIOS 102 & 302**

**STREET FACADE OBSCURED BY TALL BUILDINGS ON THE OPPOSITE SIDE**



**JUNE-21-11:30AM**



**JUNE-21-11AM**

**NOTE 1:** ALL DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF CONSTRUCTION SHALL BE CHECKED ON SITE. CO-ORDINATE TO BE CHECKED ON SITE.  
ALL LEVELS ARE TO AFD AND HAVE BEEN DETERMINED FROM A REGISTERED SURVEYOR'S SURVEY INFORMATION BY THESE PROFESSIONALS. SHADOW EFFECTS BY SURROUNDING PLANE ONLY AND MUST NOT BE USED. REPRODUCED OR COPIED WITHOUT OR WITHOUT PERMISSION OF THE ARCHITECTS.  
THESE SHADOW DIAGRAMS HAVE BEEN GENERATED BY COMPUTER CALCULATIONS USING THE SOFTWARE PROGRAM 'SOLAR' AND THE DATA PROVIDED TO THE ARCHITECTS BY THE CLIENT. THE ARCHITECTS HAVE CHECKED THE DATA PROVIDED TO THE ARCHITECTS BY THE CLIENT AND HAVE FOUND IT TO BE CORRECT. THE ARCHITECTS HAVE NOT CHECKED THE DATA PROVIDED TO THE ARCHITECTS BY THE CLIENT AND HAVE FOUND IT TO BE CORRECT. THE ARCHITECTS HAVE NOT CHECKED THE DATA PROVIDED TO THE ARCHITECTS BY THE CLIENT AND HAVE FOUND IT TO BE CORRECT.

**PREPARED BY:**  
B.S. ARCHITECTS (A/ARCHITECTS)  
**SOLAR STATISTICS - 1 JUNE**  
TIME AZIMUTH ALTITUDE  
12 PM 0° NE 32°  
3 PM 45° NW 17°  
**SOLAR STATISTICS - 21 MARCH**  
TIME AZIMUTH ALTITUDE  
12 PM 0° NE 35°  
3 PM 66° NW 35°

**LEGEND**  
SHADOW OUTLINE OF PROPOSED BUILDING  
SHADOW OUTLINE OF EXISTING BUILDING  
SHADOW OUTLINE OF EXISTING DWELLING NEIGHBOURING BUILDINGS AND PERILS

SHADOW OUTLINE OF EXISTING BUILDING  
SHADOW OUTLINE OF EXISTING DWELLING NEIGHBOURING BUILDINGS AND PERILS

SHADOW OUTLINE OF EXISTING BUILDING  
SHADOW OUTLINE OF EXISTING DWELLING NEIGHBOURING BUILDINGS AND PERILS

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SHADOW OUTLINE OF EXISTING BUILDING  
SHADOW OUTLINE OF EXISTING DWELLING NEIGHBOURING BUILDINGS AND PERILS

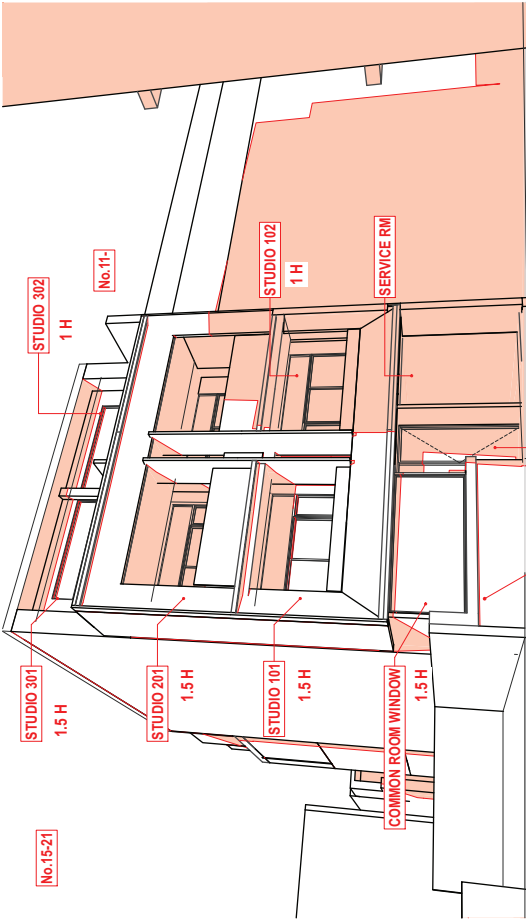
SHADOW OUTLINE OF EXISTING BUILDING  
SHADOW OUTLINE OF EXISTING DWELLING NEIGHBOURING BUILDINGS AND PERILS

SHADOW OUTLINE OF EXISTING BUILDING  
SHADOW OUTLINE OF EXISTING DWELLING NEIGHBOURING BUILDINGS AND PERILS

SHADOW OUTLINE OF EXISTING BUILDING  
SHADOW OUTLINE OF EXISTING DWELLING NEIGHBOURING BUILDINGS AND PERILS

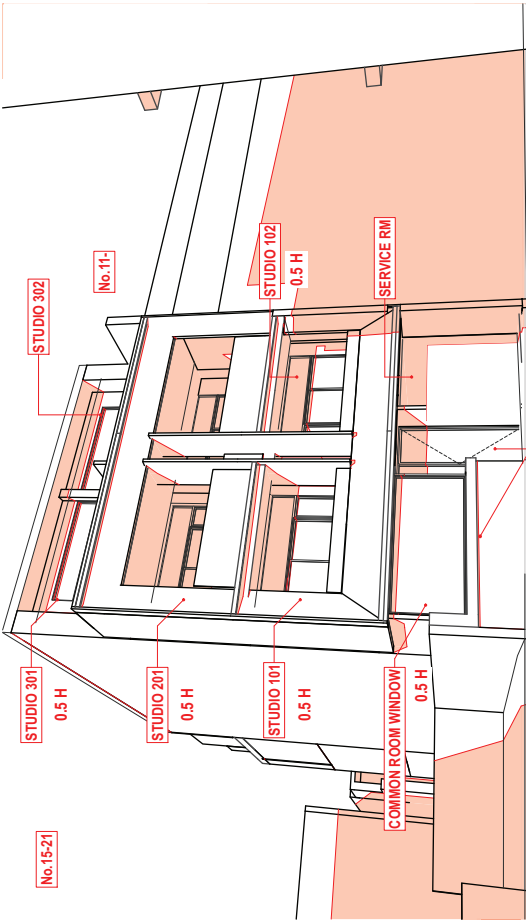
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SHADOW OUTLINE OF EXISTING DWELLING NEIGHBOURING BUILDINGS AND PERILS

SHADOW OUTLINE OF EXISTING BUILDING  
SHADOW OUTLINE OF EXISTING DWELLING NEIGHBOURING BUILDINGS AND PERILS



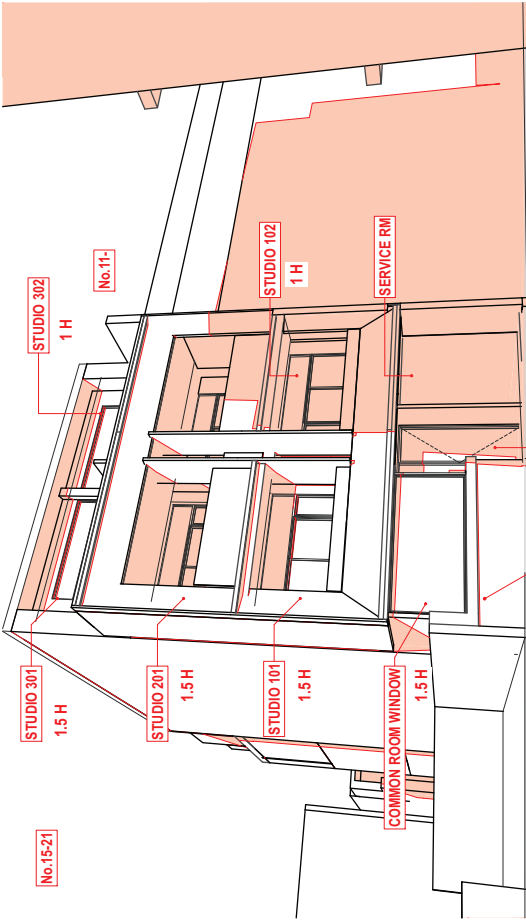
**JUNE-21-1PM**

1.5 HOURS OF SOLAR ACCESS AVAILABLE FROM 11.30 AM TO THE COMMON ROOM WINDOW AND TO THE UNITS ABOVE



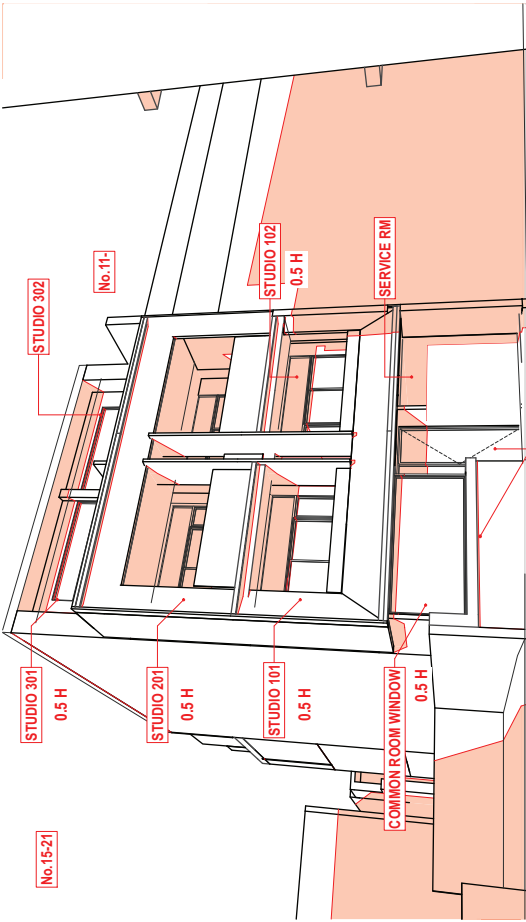
**JUNE-21-12PM**

0.5 HOURS OF SOLAR ACCESS AVAILABLE FROM 11.30 AM TO THE COMMON ROOM WINDOW AND TO THE UNITS ABOVE



**JUNE-21-2PM**

FROM 2.00 PM ONWARDS THE STREET FACADE IS OBSCURED BY THE TALL BUILDINGS OPPOSITE



**JUNE-21-1:30PM**

2.0 HOURS OF SOLAR ACCESS AVAILABLE FROM 11.30 AM TO 1.30PM TO THE COMMON ROOM WINDOW AND TO THE UNITS ABOVE - THEREFORE ALLOWING 2 HOURS OF SOLAR ACCESS BETWEEN 11.30AM - 1.30PM

84	DA INFO SUBMISSION	23.12.19
85	DA INFO SUBMISSION	1.11.19
86	DA INFO SUBMISSION	13.11.19
87	DA INFO SUBMISSION	06.08.19
88	DA INFO SUBMISSION	20.08.19
89	CLIENT REVIEW	02.03.19
90	CLIENT REVIEW	01.03.19
91	NOTES	DATE

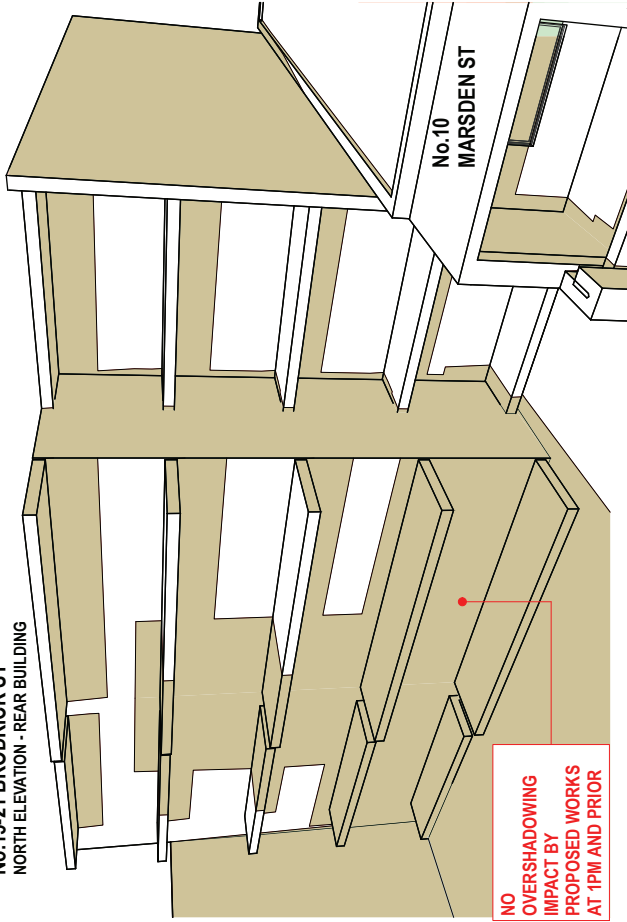
**NEW BOARDING STUDIO DEVELOPMENT**  
PROJECT  
**13**  
BRODRICK ST  
CAMPERDOWN  
ADDRESS

**voaic**  
voaitzeum architects  
33A Hornor Street, Hornor NSW 2208, PH: 9523 1497, E-MAIL: info@voaic.com.au

**ELEVATIONAL SHADOW STUDY - NORTHERN ELEVATION 13 BRODRICK ST**

**1908:DA165: B4**  
PROJECT  
DRAWING NO. 24/12/19

**No.15-21 BRODRICK ST  
NORTH ELEVATION - REAR BUILDING**

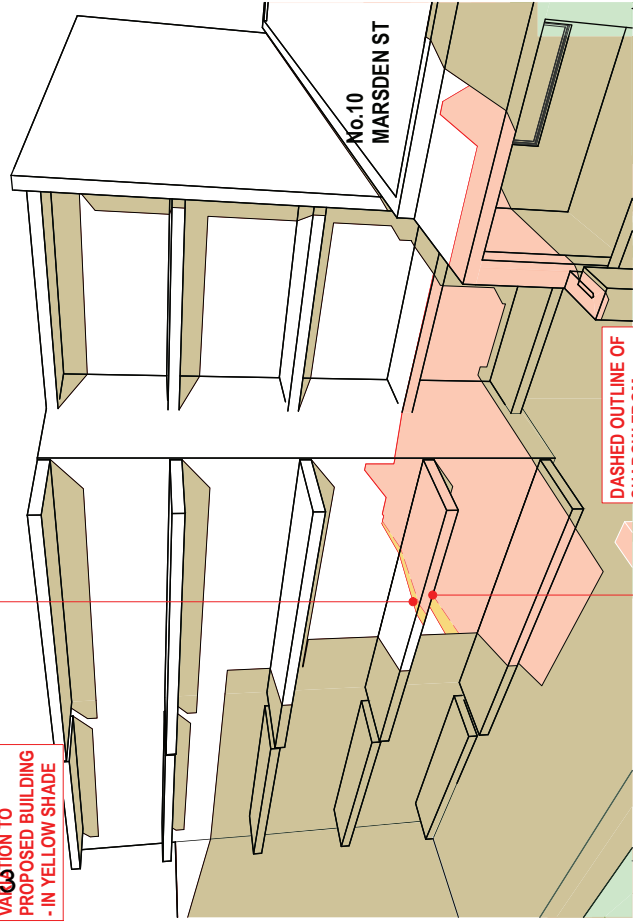


**NO OVERSHADOWING IMPACT BY PROPOSED WORKS AT 1PM AND PRIOR**

**JUNE-21-1PM**

**MINOR ADDITIONAL OVERSHADOWING CREATED BY HEIGHT VARIATION TO PROPOSED BUILDING - IN YELLOW SHADE**

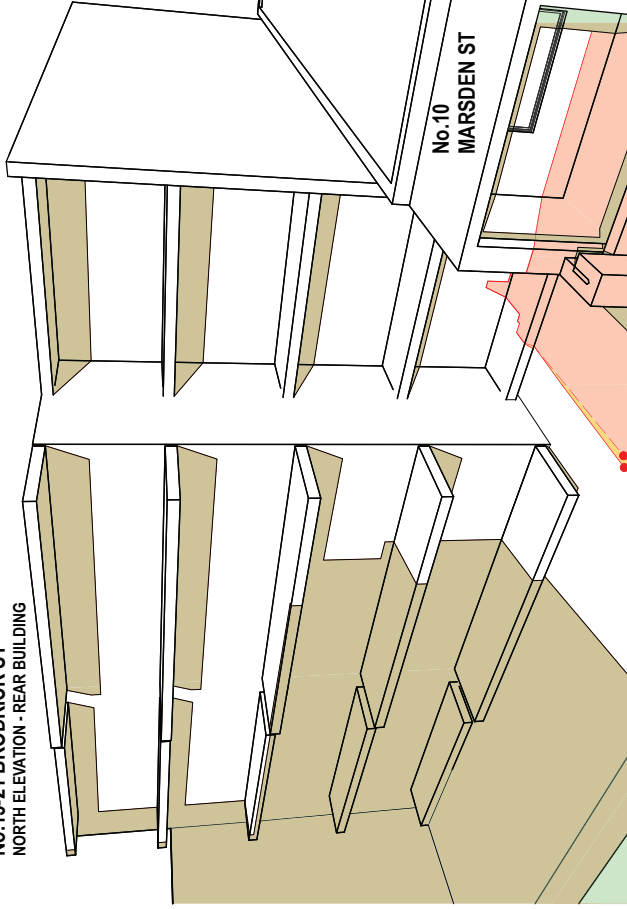
**No.15-21 BRODRICK ST  
NORTH ELEVATION - REAR BUILDING**



**DASHED OUTLINE OF SHADOW FROM PROPOSED BUILDING WITH COMPLIANT BUILDING HEIGHT**

**JUNE-21-3PM**

**No.15-21 BRODRICK ST  
NORTH ELEVATION - REAR BUILDING**



**MINOR ADDITIONAL OVERSHADOWING CREATED BY HEIGHT VARIATION TO PROPOSED BUILDING - IN YELLOW SHADE**

**JUNE-21-2PM**

**DASHED OUTLINE OF SHADOW FROM PROPOSED BUILDING WITH COMPLIANT BUILDING HEIGHT**

**NOTES:**  
1. ALL DIMENSIONS SHOWN ON THESE DRAWINGS ARE TO FACE UNLESS SPECIFIED OTHERWISE.  
2. CHECK ALL DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF CONSTRUCTION.  
3. C.O.S. DIMENSIONS TO BE CHECKED ON SITE.

ALL LEVELS ARE TO A.D. AND HAVE BEEN OBTAINED FROM SURVEYING SERVICES PA - 11 APRIL 2019.  
AVAILABLE DETAILED SITE SURVEY INFORMATION BY THESE CONTACT NUMBERS ARE THE PROPERTY OF KCM VOLUME 10 AND MUST NOT BE USED, REPRODUCED OR COPIED WHOLLY OR PARTIALLY WITHOUT THE WRITTEN PERMISSION OF KCM VOLUME 10.

THESE SHADOW DIAGRAMS HAVE BEEN GENERATED BY ARCHICAD 26.0. THE SHADOWS SHOWN ARE FOR THE PROPOSED BUILDING ONLY. SHADOWS FROM EXISTING BUILDINGS AND THE GROUND ARE NOT SHOWN. SHADOWS FROM EXISTING BUILDINGS AND THE GROUND ARE NOT SHOWN. SHADOWS FROM EXISTING BUILDINGS AND THE GROUND ARE NOT SHOWN.

**PREPARED BY:**  
B.S. ARCHITECTS (A/ARCH) (HONS)

**SOLAR STATISTICS - 21 JUNE**  
TIME AZIMUTH ALTITUDE  
12 PM 0 N 37  
3 PM 45.5 NW 17

**SOLAR STATISTICS - 21 MARCH**  
TIME AZIMUTH ALTITUDE  
12 PM 0 N 57  
3 PM 69 NW 35

**LEGEND**

SHADOW OUTLINE OF PROPOSED BUILDING WITH COMPLIANT BUILDING HEIGHT - CAST ON GROUND AND FLOOR PLANS

SHADOW OUTLINE OF EXISTING BUILDING AND FENCING

EXISTING BUILDING AND FENCING

ADDITIONAL SHADOWS CREATED BY HEIGHT VARIATION TO PROPOSED BUILDING - IN YELLOW SHADE

SHADOWS FROM EXISTING BUILDINGS AND THE GROUND ARE NOT SHOWN

EXISTING BUILDING AND FENCING

SHADOWS FROM EXISTING BUILDINGS AND THE GROUND ARE NOT SHOWN

**1H** SOLAR OFFSHOTS IN HOURS TO A SUNRISE TO SUNSET

EXISTING BUILDING AND FENCING

SHADOWS FROM EXISTING BUILDINGS AND THE GROUND ARE NOT SHOWN

SHADOWS FROM EXISTING BUILDINGS AND THE GROUND ARE NOT SHOWN

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SHADOWS FROM EXISTING BUILDINGS AND THE GROUND ARE NOT SHOWN

SHADOWS FROM EXISTING BUILDINGS AND THE GROUND ARE NOT SHOWN

NO.	DATE	DESCRIPTION
13	13.11.19	DA INFO SUBMISSION
12	08.08.19	DA INFO SUBMISSION
11	02.05.19	CLIENT REVIEW
10	01.03.19	CLIENT REVIEW
9	-	REV NOTES
8	-	CLIENT COMMENTS
7	-	...