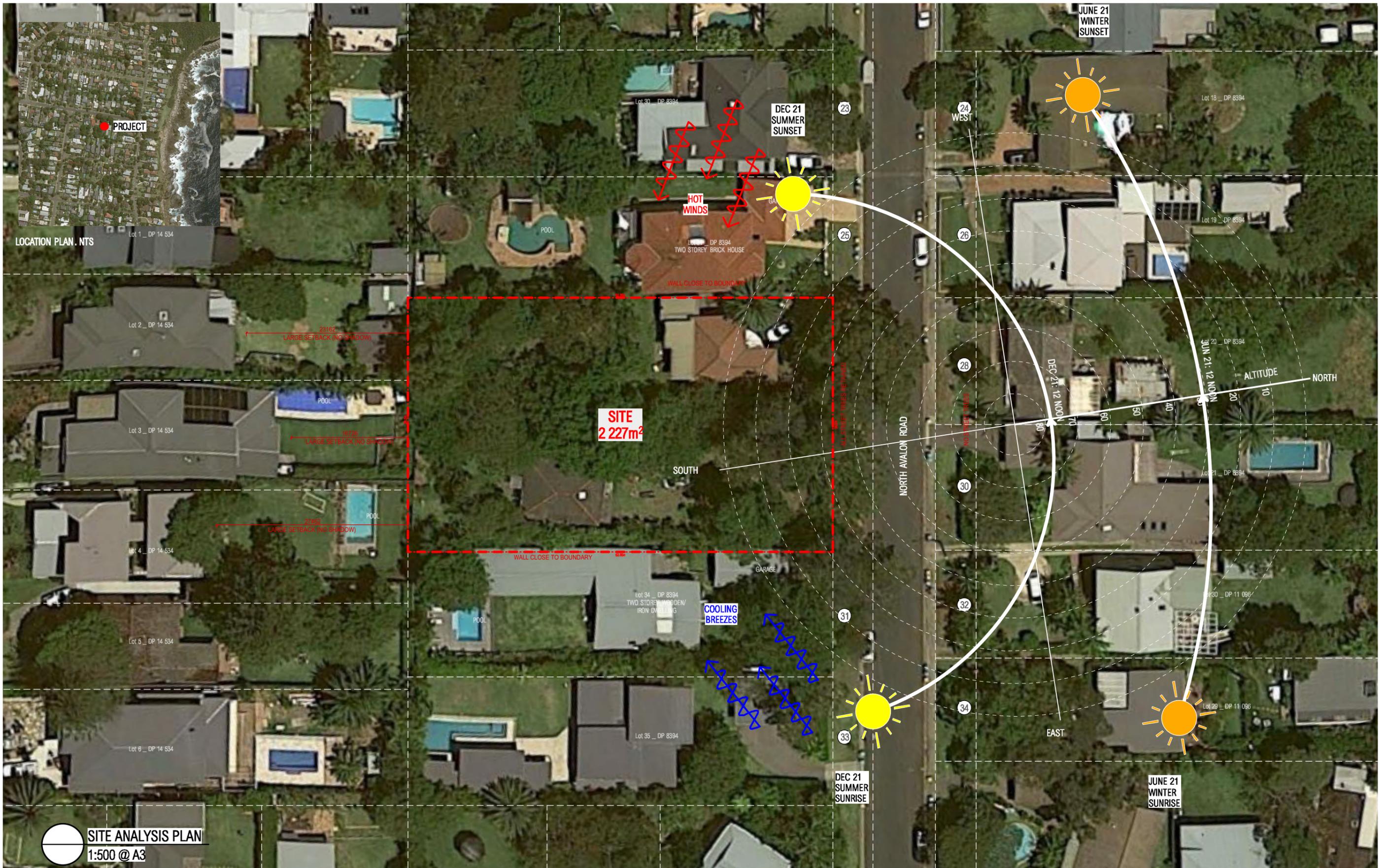


# development application

Project: **SENIORS LIVING** 991  
 Client: **ARMADA AVALON PTY LTD**  
 Site: **27-29 NORTH AVALON ROAD,  
 AVALON BEACH**  
 Stage: **DEVELOPMENT APPLICATION**  
 Date: **3-Oct-19**

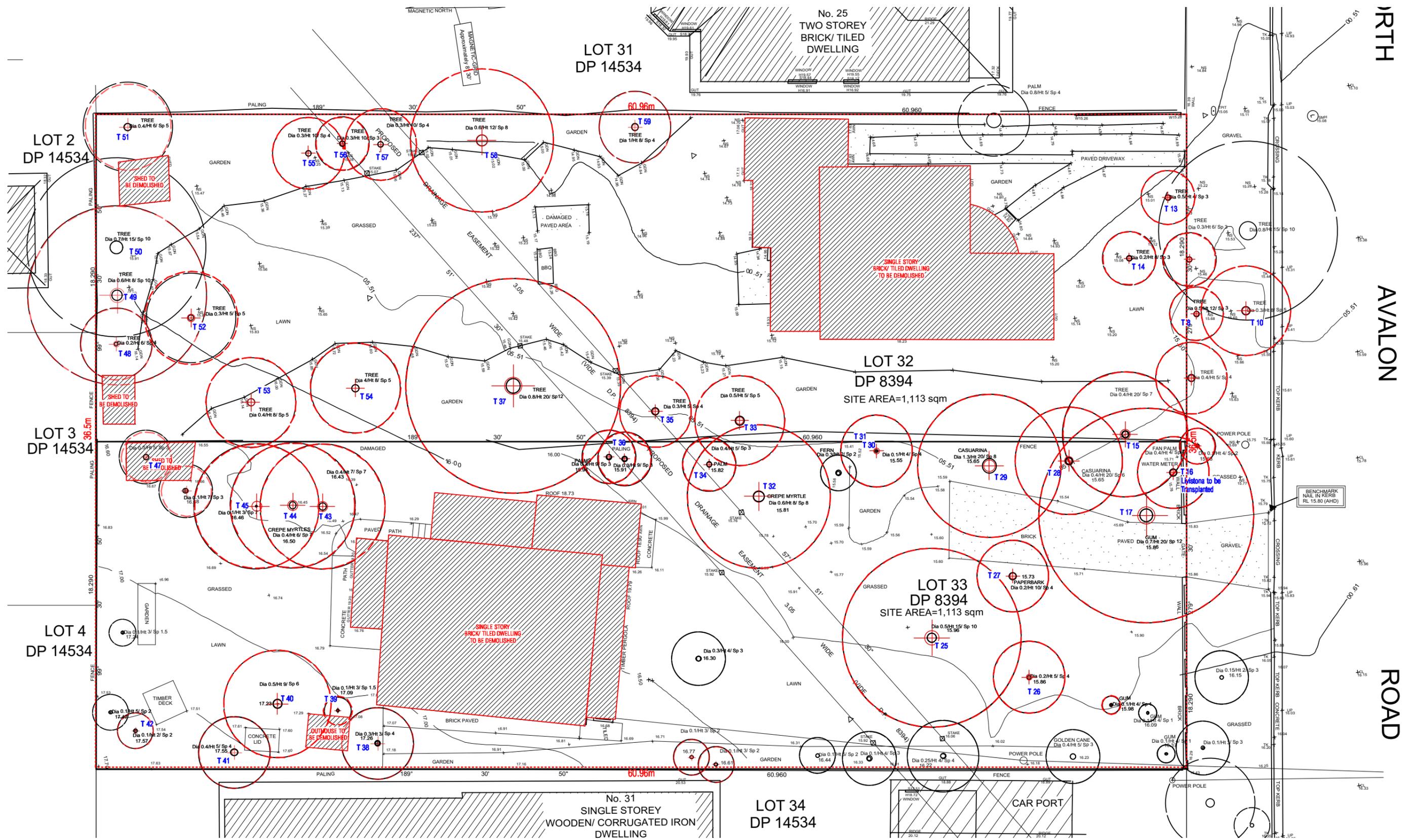
DWG	DRAWING TITLE	ISSUE
	<b>LANDSCAPE ARCHITECT</b>	
LP-00	EXISTING TREE PLAN	C
LP-01	LANDSCAPE PLAN	C
LP-02	LANDSCAPE ELEVATIONS	C
LP-03	LANDSCAPE DETAILS	C
	<b>CIVIL ENGINEER</b>	
D01	SEDIMENT + EROSION CONTROL PLAN	B
D02	SEDIMENT + EROSION CONTROL DETAILS	B
D03	LEVEL 1 STORMWATER DRAINAGE PLAN	B
D04	LEVEL 2 STORMWATER DRAINAGE PLAN	B
D05	UPPER ROOF STORMWATER PLAN	B
D06	STORMWATER DRAINAGE NOTES	B
D07	STORMWATER DRAINAGE DETAILS	B
	<b>SURVEYOR</b>	
14535	SITE SURVEY	C

DWG	DRAWING TITLE	ISSUE
<b>000</b>	<b>PRE CONSTRUCTION INFORMATION</b>	
020	SITE ANALYSIS PLAN 1:500	L
030	SITE PLAN 1:500	L
040	EXISTING/ DEMOLITION PLAN 1:200	L
<b>100</b>	<b>GENERAL ASSEMBLY PLANS</b>	
101	LEVEL 1 FLOOR PLAN 1:200	L
102	LEVEL 2 FLOOR PLAN 1:200	L
110	ROOF PLAN 1 1:200	L
120	SECTION AA + BB 1:200	L
130	NORTH + EAST ELEVATION 1:200	L
131	SOUTH + WEST ELEVATION 1:200	L
133	NORTH + SOUTH INTERNAL ELEVATION 1:200	L
<b>200</b>	<b>SCHEDULES</b>	
210	MATERIALS + FINISHES SCHEDULE	L
211	TERMS + ABBREVIATIONS SUMMARY	L
220	CONSTRUCTION WASTE MANAGEMENT PLAN	L
<b>900</b>	<b>NON-CONSTRUCTION INFORMATION</b>	
901	3D PERSPECTIVE SHEET 1	L
910	SHADOW DIAGRAMS - JUNE 21	L
911	SHADOW DIAGRAMS - SEPT 23	L
912	SHADOW DIAGRAMS - DEC 21	L
913	SOLAR ACCESS STUDY-LIVING ROOM GLAZING - SHEET 1	L
914	SOLAR ACCESS STUDY-LIVING ROOM GLAZING - SHEET 2	L
915	SOLAR ACCESS STUDY-LIVING ROOM GLAZING - SHEET 3	L
916	SOLAR ACCESS STUDY-PRIVATE OPEN SPACE - SHEET 1	L
917	SOLAR ACCESS STUDY-PRIVATE OPEN SPACE - SHEET 2	L
919	SOLAR ACCESS STUDY SUMMARY	L
930	BASIX COMMITMENTS	L
960	BUS ROUTE PLAN	L
980	AREA CALCULATION SUMMARY - SHEET 1	L
981	AREA CALCULATION SUMMARY - SHEET 2	L



**SITE ANALYSIS PLAN**  
1:500 @ A3

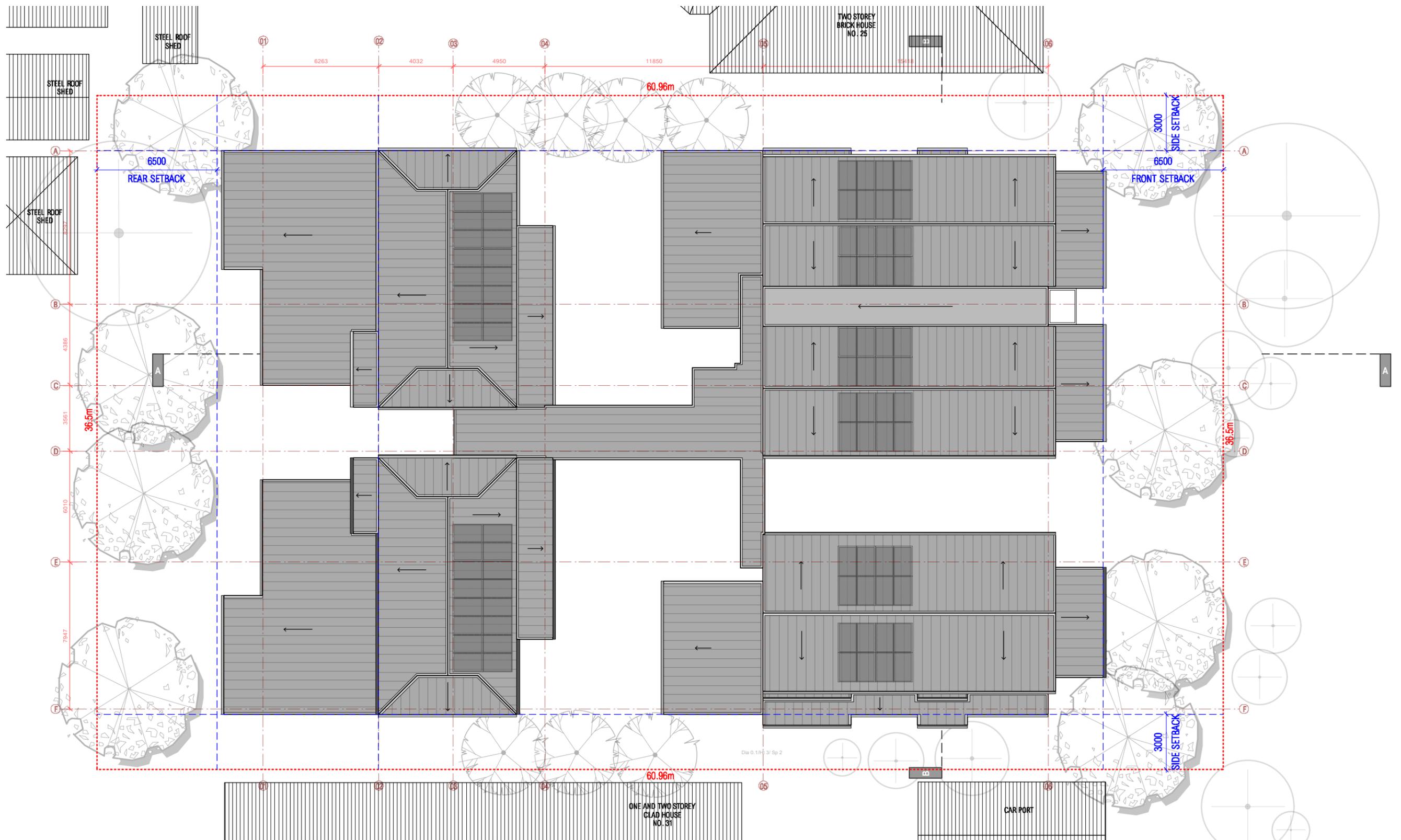
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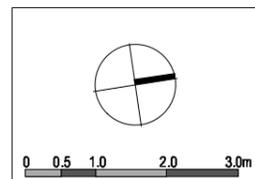
EXISTING / DEMOLITION PLAN  
1:200 @ A3

TREES TO BE RETAINED      TREES TO BE REMOVED

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		notes all work to be carried out in accordance with bca, saa codes and conditions of council. measurements in mm's unless noted. use figured dimensions. do not scale drawings. site measure before starting work. refer all discrepancies to the architect.	rev    date    amendment A    23/01/19    issued for information B    25/02/19    issued to council for information C    08/03/19    issued for information D    16/04/19    issued for information E    30/04/19    issued for information F    03/05/19    issued to consultants G    10/05/19    issued to consultants H    30/05/19    issued to consultants	rev    date    amendment F    14/06/19    issued to consultants + client G    19/06/19    issued to consultants + client H    21/06/19    issued to consultants + client I    02/07/19    issued to consultants + client J    31/07/19    issued to client for comment K    19/08/19    issued to client for comment L    27/08/19    issued to client for comment M    30/09/19    issued to client for information	<b>environa studio</b> 224 riley st surry hills 2010 t: 02 9211 0000 w: www.environastudiacom.au architects registration number 6239	project <b>SENIORS LIVING</b>  for/client <b>ARMADA AVALON PTY LTD</b>	location <b>27-29 NORTH AVALON ROAD</b>  at <b>AVALON BEACH</b>	drawing <b>EXISTING / DEMOLITION PLAN</b>  drawing	stage <b>DA</b>  chkd    drwn <b>TW    MB</b>	project no. <b>991</b>  date <b>03/10/19</b>



ROOF LEVEL  
1:200 @ A3



notes  
all work to be carried out in accordance with bca, saa codes and conditions of council. measurements in mm's unless noted. use figured dimensions. do not scale drawings. site measure before starting work. refer all discrepancies to the architect.

rev	date	amendment
A	23/01/19	issued for information
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F	30/05/19	issued to consultants

rev	date	amendment
F	14/06/19	issued to consultants
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J	31/07/19	issued to client for comment
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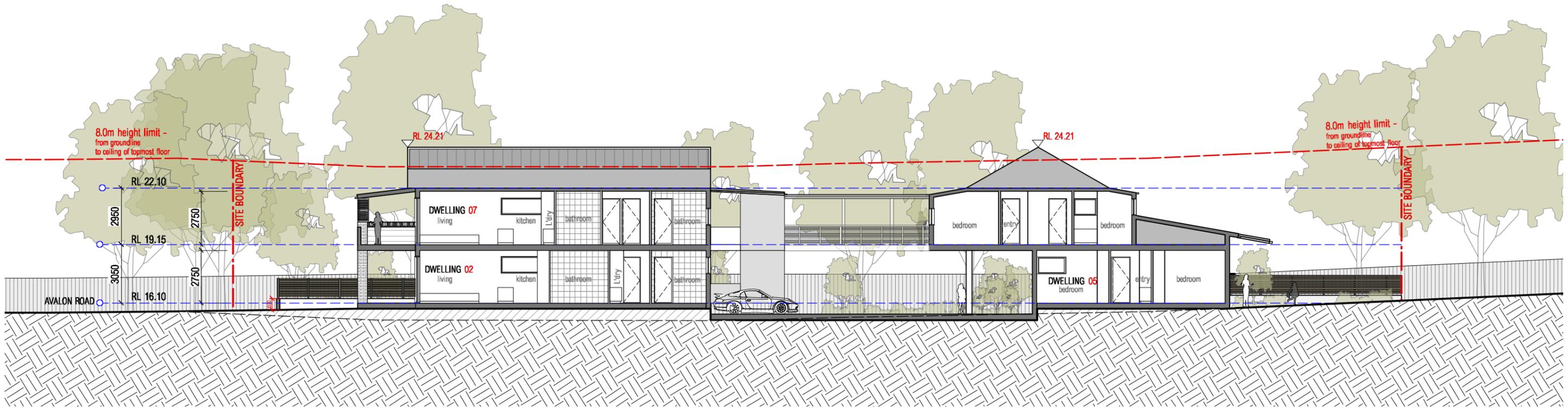
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224 riley st surry hills 2010  
t: 02 9211 0000  
w: www.environastudio.com.au  
architects registration number 6239

project  
**SENIORS LIVING**  
  
for/client  
**ARMADA AVALON PTY LTD**

location  
**27-29 NORTH AVALON ROAD**  
  
at  
**AVALON BEACH**

drawing  
**ROOF LEVEL**  
  
drawing  
**PLAN**

stage	project no.	dwg no.
DA	991	110
chkd	drwn	date
TW	MB	03/10/19
revision	L	



01 SECTION AA  
1:200 @ A3



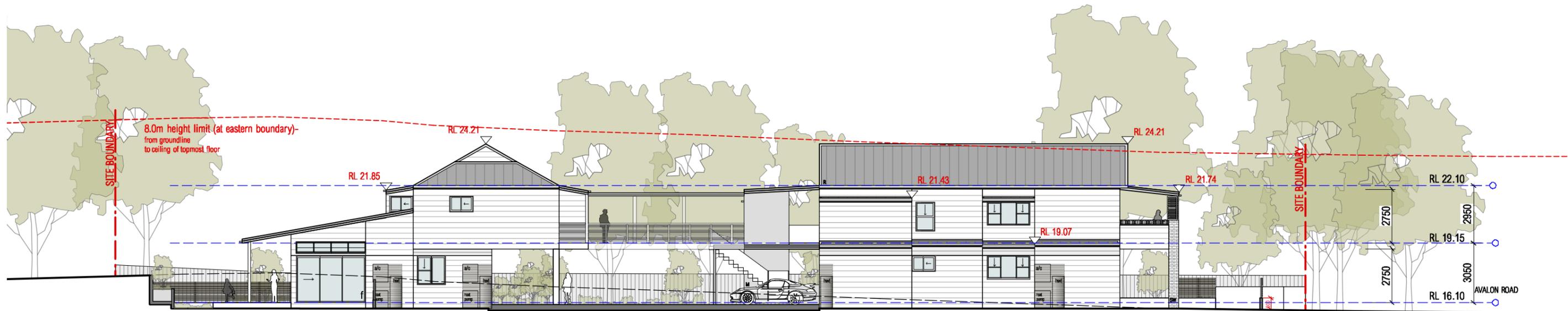
02 SECTION BB  
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		B	25/02/19	issued to council for information	G	19/06/19	issued to consultants + client								
		C	08/03/19	issued for information	H	21/06/19	issued to consultants + client								
		D	16/04/19	issued for information	I	02/07/19	issued to consultants + client								
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		F	10/05/19	issued to consultants	K	19/08/19	issued to client for comment	ARMADA AVALON PTY LTD	AVALON BEACH	SECTIONS	TW	MB	03/10/19	L	
		G	30/05/19	issued to consultants	L	30/09/19	issued to client for information								

MATERIALS + FINISHES LEGEND			
EXTERNAL ITEMS	MATERIAL	COLOUR CODE (NAME)	LEGEND ABBREVIATION
EXTERNAL WALLS	BARRAMAY STONE WALLING	ECO OUTDOOR	SW
EXTERNAL WALLS	WEATHERBOARD	"WHITE"	WB
EXTERNAL WALL	COLORBOND	MONUMENT	M
BALUSTRADES	WEATHER BOARD	WHITE	B
METALWORK - OUTDOOR COMPRESS / ANODISED	COLORBOND STEEL	"SUN WEST"	G
DECKING + FENCING	TIMBER CLAD	"SPOTTED OAK"	TO
DECKING	MOONWOOD	NATURAL GRAY COLLECTION - BLACK BARK / JARRAW SILVER OAK	MO
EXTERNAL PAVING DRIVEWAY	BEARING SANDSTONE	"FLOOR TILE ECO OUTDOOR"	BS
METALWORKS ROOFING	COLORBOND STEEL	"SHALE GREY"	R
DOOR FRAMES + WINDOW FRAMES + FROD SCREENS	POWDER COATED ALUMINIUM	"LUXURON QUANTIK"	D



01 NORTH ELEVATION  
1:200 @ A3



02 EAST ELEVATION  
1:200 @ A3

<p>notes</p> <p>all work to be carried out in accordance with bca, saa codes and conditions of council. measurements in mm's unless noted. use figured dimensions. do not scale drawings. site measure before starting work. refer all discrepancies to the architect.</p>	<p>rev</p> <p>A</p> <p>23/01/19</p> <p>issued for information</p>	<p>date</p> <p>23/01/19</p>	<p>amendment</p> <p>issued for information</p>	<p>rev</p> <p>F</p> <p>14/06/19</p> <p>issued to consultants</p>	<p>date</p> <p>14/06/19</p>	<p>amendment</p> <p>issued to consultants + client</p>	<p>project</p> <p>SENIORS LIVING</p>	<p>location</p> <p>27-29 NORTH AVALON ROAD</p>	<p>drawing</p> <p>NORTH + EAST</p>	<p>stage</p> <p>DA</p>	<p>project no.</p> <p>991</p>	<p>dwg no.</p> <p>130</p>
	<p>rev</p> <p>B</p> <p>08/03/19</p> <p>issued for information</p>	<p>date</p> <p>08/03/19</p>	<p>amendment</p> <p>issued for information</p>	<p>rev</p> <p>G</p> <p>19/06/19</p> <p>issued to consultants + client</p>	<p>date</p> <p>19/06/19</p>	<p>amendment</p> <p>issued to consultants + client</p>	<p>for/client</p> <p>ARMADA AVALON PTY LTD</p>	<p>at</p> <p>AVALON BEACH</p>	<p>drawing</p> <p>ELEVATIONS</p>	<p>chkd</p> <p>TW</p>	<p>drwn</p> <p>MB</p>	<p>date</p> <p>03/10/19</p>

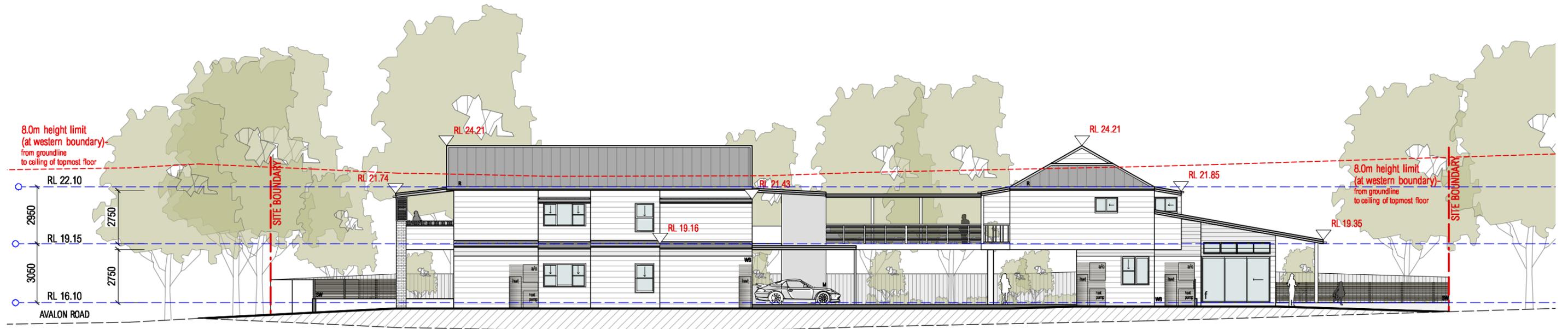
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**environa studio**  
224 riley st surry hills 2010  
t: 02 9211 0000  
w: www.environastudio.com.au  
architects registration number 6239

MATERIALS + FINISHES LEGEND			
EXTERNAL ITEMS	MATERIAL	COLOUR CODE (NAME)	LEGEND ABBREVIATION
EXTERNAL WALLS	BATHROOM STORE WALLING	ECO OUTDOOR	SW
EXTERNAL WALLS	WEATHERBOARD	"WHITE"	WB
EXTERNAL WALL	COLORBOND	MONUMENT	M
BALUSTRADES	WEATHER BOARD	WHITE	B
METALWORK - RAILINGS COMPRESS, HANDRAILS	COLORBOND STEEL	"SUN WEST"	G
DECKING + FENCING	TIMBER CLAD	"SPOTTED OAK"	TO
DECKING	MOONWOOD	NATURAL GRAY COLLECTION - BLACK STAIN / JARRAW SILVER OAK	MO
EXTERNAL PAVING DRIVEWAY	BEAUFORD SANDSTONE	"FLOOR TILE ECO OUTDOOR"	BS
METALWORKS ROOFING	COLORBOND STEEL	"SHALE GREY"	R
DOOR FRAMES + WINDOW FRAMES + FROD SCREENS	POWDER COATED ALUMINIUM	"LUXION QUARTZ"	D



01 SOUTH ELEVATION  
1:200 @ A3



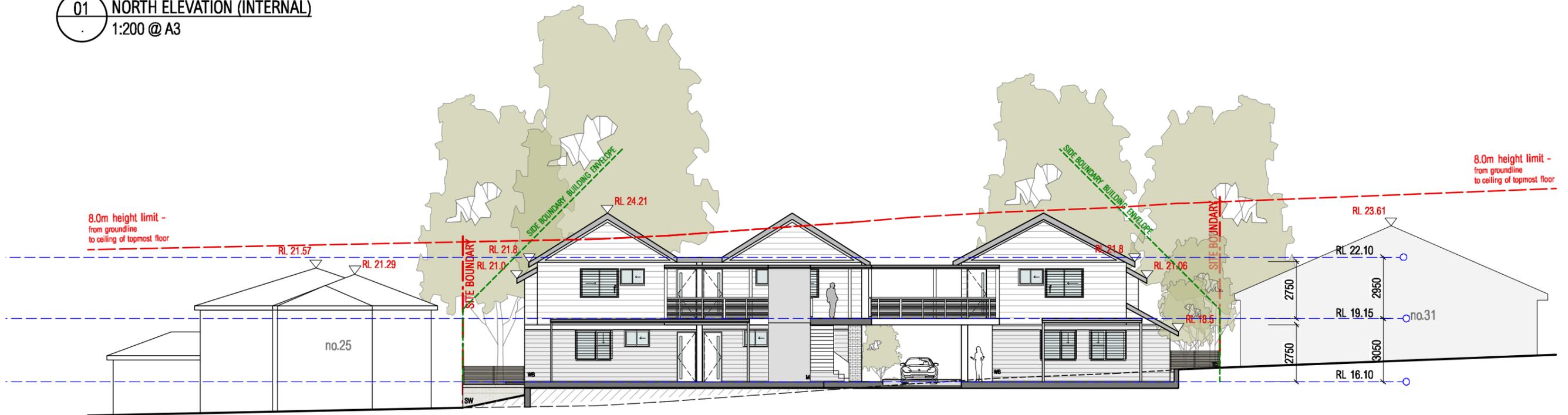
02 WEST ELEVATION  
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notes	rev	date	amendment	rev	date	amendment	environa studio	project	location	drawing	stage	project no.	dwg no.									
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	B	08/03/19	issued for information	G	19/06/19	issued to consultants + client																
	C	16/04/19	issued for information	H	21/06/19	issued to consultants + client																
	D	30/04/19	issued for information	I	02/07/19	issued to consultants + client																
	E	10/05/19	issued to consultants	J	31/07/19	issued to client for comment																
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	G	30/05/19	issued to consultants	L	30/09/19	issued to client for information																
	0 0.5 1.0 2.0 3.0m													<b>ARMADA AVALON PTY LTD</b>	<b>at AVALON BEACH</b>	<b>drawing ELEVATIONS</b>	<b>chkd TW</b>	<b>drwn MB</b>	<b>date 03/10/19</b>	<b>revision L</b>		

MATERIALS + FINISHES LEGEND			
EXTERNAL ITEMS	MATERIAL	COLOUR CODE (NAME)	LEGEND ABBREVIATION
EXTERNAL WALLS	BARRAMAY STONE WALLING	ECO OUTDOOR	SW
EXTERNAL WALLS	WEATHERBOARD	"WHITE"	WB
EXTERNAL WALL	COLORBOND	MONUMENT	M
BALUSTRADES	WEATHER BOARD	WHITE	B
METALWORK - BUTTRES COMPRESS, JOINTING	COLORBOND STEEL	"SUN WEST"	G
DECKING + FENCING	TIMBER CLAD	"SPOTTED OAK"	TO
DECKING	MOONWOOD	NATURAL GRAY COLLECTION - BLACK BARK JARRAW SILVER OAK	MO
EXTERNAL FENCING OPENING	BEARFORD SANDSTONE	"FLOOR TILE ECO OUTDOOR"	BS
METALWORK ROOFING	COLORBOND STEEL	"SHALE GREY"	R
DOOR FRAMES + WINDOW FRAMES + FROD SCREENS	POWDER COATED ALUMINIUM	"LUXION QUARTZ"	D

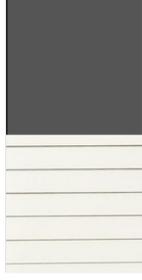


01 NORTH ELEVATION (INTERNAL)  
1:200 @ A3



02 SOUTH ELEVATION (INTERNAL)  
1:200 @ A3

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		<b>rev</b> <b>date</b> <b>amendment</b>	<b>rev</b> <b>date</b> <b>amendment</b>		<b>for/client</b> <b>ARMADA AVALON PTY LTD</b>	<b>at</b> <b>AVALON BEACH</b>	<b>drawing</b> <b>ELEVATIONS</b>	<b>chkd</b> <b>drwn</b> <b>TW</b> <b>MB</b>	<b>date</b> <b>03/10/19</b>	<b>revision</b> <b>L</b>

EXTERNAL ITEMS	MATERIAL	COLOUR CODE (NAME)	LEGEND ABBREVIATION	EXTERNAL ITEMS	MATERIAL	COLOUR CODE (NAME)	LEGEND ABBREVIATION			
		EXTERNAL WALLS	BARRIMAH STONE WALLING	ECO OUTDOOR	SW		DECKING + FENCING	TIMBER CLAD	"SPOTTED GUM"	TC
		EXTERNAL WALLS	WEATHERBOARD	"WHITE"	WB		DECKING	MODWOOD	NATURAL GRAIN COLLECTION- BLACK BEAN/ JARRAH/ SILVER GUM	MD
		EXTERNAL FEATURE WALL	COLORBOND	MONUMENT	M		EXTERNAL PAVING DRIVEWAY	BEAUFORD SANDSTONE	"FLOOR TILE ECO OUTDOOR"	BS
		METALWORK, GUTTERS DOWPIPES, AWNING	COLORBOND STEEL	"SURF MIST"	G		METALWORKS ROOFING	COLORBOND STEEL	"SHALE GREY"	R
		BALLUSTRADES	TIMBER	"WHITE"	B		DOOR FRAMES + WINDOW FRAMES + FIXED SCREENS	POWDER COATED ALUMINIUM	"WHITE"	D

	notes	rev	date	amendment	rev	date	amendment	<b>environa studio</b> 224 riley st surry hills 2010 t: 02 9211 0000 w: www.environastudio.com.au architects registration number 6239	project	location	drawing	stage	project no.	dwg no.
	all work to be carried out in accordance with bca, saa codes and conditions of council. measurements in mm's unless noted. use figured dimensions. do not scale drawings. site measure before starting work. refer all discrepancies to the architect.	A	23/01/19	issued for information	F	14/06/19	issued to consultants		SENIORS LIVING	27-29 NORTH AVALON ROAD	MATERIALS AND FINISHES	DA	991	210
		A	25/02/19	issued to council for information	G	19/06/19	issued to consultants + client							
		B	08/03/19	issued for information	H	21/06/19	issued to consultants + client							
		C	16/04/19	issued for information	I	02/07/19	issued to consultants + client							
		D	30/04/19	issued for information	J	31/07/19	issued to client for comment	for/client	at	drawing	chkd	drwn	date	revision
		D	03/05/19	issued to consultants	J	19/06/19	issued to client for comment	ARMADA AVALON PTY LTD	AVALON BEACH	SCHEDULE	TW	MB	03/10/19	L
		E	10/05/19	issued to consultants	K	27/06/19	issued to client for comment							
		F	30/05/19	issued to consultants	L	30/09/19	issued to client for information							

## TERMS AND ABBREVIATIONS

Abbreviations used on the drawings and in the specifications and schedules are as follows:

AFS	As further specified
BWB	Block / Brickwork - Bagged
BWR	Block / Brickwork - Rendered
BCA	Building Code of Australia
BC	Bright Chrome
CCA	Copper/Chrome/Arsenate treated timber
CCR	Corrugated Colorbond Roofing
CCW	Corrugated Colorbond Wall Sheeting
CFC	Compressed Fibre Cement sheet
CIS	Concrete in situ
CT	Ceramic Tiles
cls	Centres
DP	Downpipe
EPS	Expanded Polystyrene (insulation)
F	Fixed glass
FB	Face brickwork
FC	Fibre Cement (painted sheets)
FCR	Fibre Cement Rendered (Harditex)
FFL	Finished floor level
GB	Glass blockwork
VGPO	General Power Outlet
HW	Hardwood
HDG	Hot Dipped Galvanised
HDPE	High Density Polyethylene (piping)
HPP	Hebel Power Panel
HSF	Hebel Sound Floor
HTP	Harditex cladding
HWS	Hot water service
L	Glass Louvres (in windows)
LFC	Linoleum floor covering
LSOP	Light Oil Solvent Preservative = 'Gold' Treated timber
LVL	Laminated Veneer Lumber
MDF	Medium density fibreboard = customwood
MGP	Machine Graded Pine framing (Wall/Roof)
MI	Manufacturer's instructions
NIC	Not in Contract
OFC	Off form concrete
PB	Plasterboard
PCC	Pre cast concrete
PFC	Parallel Flange Channel
PRF	Pirelli rubber floor covering
PS	Provisional Sum
PTB	Particle Board
RFL	Reflective foil laminate
RHS	Rectangular hollow section
RP	Radiata Pine
S+I	Supply and Install
SC	Satin Chrome
SHS	Square Hollow section
SS	Stainless Steel
T+G	Tongue and grooved (flooring/walling)
TBA	To be advised
TR	Towel rail
TRH	Tiolet roll holderz
TT	Terracotta Tile
UB	Universal Beam
UC	Universal Column
UNO	Unless noted otherwise
VOS	Verify on site
VR	Veneer
WRC	Western Red Cedar (timber)

## NOTES

All work as shown in the drawings and schedule, including all necessary work even if not drawn or scheduled.

Refer all queries and discrepancies to the architects. All measurements in mm unless noted otherwise.

### Standard of Work and Regulations

All work to be carried out in accordance with:

- Building Code of Australia 2016

- AS Codes

- Conditions of Council

- Conditions of service supply authorities

- All relevant Australian Standards including, but not limited to the standards listed below.

### Site Survey

Provide registered surveyor report at bearer + joist stage.

### Demolition and Recycled Material

Demolition in accordance with Metro. Waste Board Guide.

### Site management

No building activities on Council land.

Establish sediment controls as required by all authorities

### Earthworks and excavation

All work to be carried out in accordance with the following:

- BCA Part 3.1.1

- Australian Standard AS2870

### Stormwater Disposal

All work to be carried out in accordance with the following:

- BCA Part 3.1.2 and BCA Part 3.5.2

- Australian Standard AS/NZ3500.3.2

### Termite Protection

All work to be carried out in accordance with the following:

- BCA Part 3.1.3

- Termite protection in accordance AS3660.1

### Footings, Slab Design and Retaining Walls

All work to be carried out in accordance with the engineer's drawings and specifications and the following,

- BCA Part 3.2

- Australian Standard AS2870

### Masonry Construction

All work to be carried out in accordance with the following:

- BCA Part 3.3

- Australian Standard AS3700

### Structural Steel Framing

All work to be carried out in accordance with the engineer's drawings and specifications and the following:

- BCA Part 3.4.2

- Australian Standard AS1250 and AS3623

### Timber Framing

All work to be carried out in accordance with the following:

- BCA Part 3.4.3

- Australian Standard AS1684

All timber to be from sustainable sources as follows: plantation and/or recycled timbers, the framing shall be in plantation Radiata Pine or NZ Douglas Fir, all structural timber shall be plantation grown glue laminated timber and all flooring shall be from recycled timber or bamboo T+G flooring.

Recycled timbers, the framing shall be in plantation Radiata Pine or NZ Douglas Fir, all structural timber shall be plantation grown glue laminated timber and all flooring shall be from recycled timber or bamboo T+G flooring.

### Roof Cladding

All work to be carried out in accordance with the following:

- BCA Part 3.5.1,

- Australian Standard AS1562.1

### Gutters and downpipes

All work to be carried out in accordance with the following:

- BCA Part 3.5.2,

- Australian Standard AS3500.3.2.

### Wall Cladding

All work to be carried out in accordance with the following:

- BCA Part 3.5.3

## Windows and Doors and Installation of Glazing

All work to be carried out in accordance with the following:

- BCA Part 3.6,

- Australian Standard AS1288 or AS2047.

### External Windows and Doors

All work to be carried out in accordance with the following:

- BCA Part 3.5.4 and BCA Part 3.6,

- Australian Standard AS 2047,

### Ventilation and Exhaust Fans

All work to be carried out in accordance with:

- BCA Part 2.4, BCA Part 3.8.5

- Australian Standard AS1668.2

### Construction of Roof, Walls and Floor

All work to be carried out in accordance with the following:

- BCA Part 3.5, BCA Part 3.12

### Hot Water Supply System

All work to be carried out in accordance with the following:

- BCA Part 3.12.5, Australian Standard AS/NZS 3500.4

- 9section 8) or cl. 3.38 of AS/NZ 3500.5.

### Fire Separation

All work to be carried out in accordance with the following:

- BCA Part 3.7.1

### Smoke Alarms

All work to be carried out in accordance with the following:

- BCA Part 3.7.2, and Australian Standard AS 3786

### Building Fabric Thermal Insulation

All work to be carried out in accordance with the following:

- BCA NSW Clause 2.3.1

- Australian Standard AS/NZS4859.1

### BASIX compliance

### Sound Insulation

All work to be carried out in accordance with the following:

- BCA Part 3.8.6

### Waterproofing of Wet Areas

All work to be carried out in accordance with the following:

- BCA Part 3.8.1, and Australian Standard AS3740

### Facilities (Health and Amenity)

All work to be carried out in accordance with the following:

- BCA Part 3.8.3

- Australian Standard AS 1668.2

### Hydraulics

Hot water service pipes shall be provided with insulation in accordance with BCA Part 3.12.1

- Australian Standard AS 3500

## SPECIFICATION FOR SEPP SENIORS

### External works

- Units on ground floor level and lift area to be linked by an AS1428.1 compliant accessible path to the adjoining road.

- Pathway lighting to be Glare free for pedestrians and dwelling and must provide at least 20 lux at ground level.

- Letterboxes must be provided on a hard-standing area, lockable and have wheelchair circulation (1550mm diameter) and linked via an accessible path as per AS1428.1

- There should be no step to the main entry door, entry to external verandah that contain clothes line and between path from street to the verandah. A max threshold of 35mm is permitted where a threshold ramp is provided.

- A garbage storage area must be provided in an accessible location. Provide 1550mm circulation spaces in front of bins

- Provide 1550mm circulation spaces in front of bins

### Doorway requirements

- Main entry door, door to courtyards, main accessible bathroom, laundry to be 850mm clear (920mm door leaf) with door circulation spaces as per AS1428.1.

- All other doors to have 850mm clear opening with scope of provision of door circulation in the future.

- Door handles and hardware for all doors must be provided in accordance with AS 4299 with single hand operation, lever style, operation located between 900-1000mm above FFL and all external doors to be keyed alike.

### Bedroom requirements

- Main bedroom to have size of queen bed with 1,200mm wide at the foot of the bed, and 1,000mm wide beside the bed between it and the wall, wardrobe or any other obstruction.

### Electrical requirements

- Bedroom must have a telephone outlet next to the bed on the side closest to the door and a general power outlet beside the telephone outlet.

- Bedroom must have wiring to allow a potential illumination level of at least 300 lux.

- Switches and power points must be provided in accordance with AS 4299 with switches located between 900-1000mm and in line with door handles, (Rocker action / toggle / push pad switches with 35mm width are preferred) and GPOs to be at least 600mm above FFL (1000mm preferred) and not less than 500mm horizontally from internal corners.

- Living room, must have a telephone adjacent to a general power outlet and Living and dining room must have wiring to allow a potential illumination level of at least 300 lux.

### Laundry / Linen cupd

- Laundry must have the provision for the installation of an automatic washing machine and a clothes dryer, a slip-resistant floor surface and an accessible path to clothes line is to be provided.

- At least 1 linen cupboard is to be provides as 600mm minimum width and adjustable shelving

### Main bathroom

- Bathroom must be Slip-resistant floor surface

- Bathroom must have shower as per AS1428.1 without a hob, waterproofed to AS 3740, floor falls to waste, walls reinforced to accommodate grabrails / folding seat in the future, taps to be lever or capstan with single outlet, taps to be easily reached from shower entry, wall cabinet that is sufficiently illuminated, and a double general power outlet beside the mirror.

- All tiled areas such as bathrooms, kitchen, and laundries to be such that there is no lip at the doorway. Recess the concrete slab at wet areas if required for compliance.

### Kitchen

- Kitchen fittings must be provided as per Clause 4.5 of AS 4299:

- 800mm wide work surface which is adjustable or a replaceable as a unit at variable heights within range of 750mm to 850mm above FFL in between the wall oven and cooktop.

- Tap set with capstan or lever handles with the taps or operating handles to be located 300mm from front of the sink,

- Cooktops with front or side controls with raised crossbars, isolating switch and a work surface of 800mm length at the same height and

- Wall oven located next to adjustable height work bench minimum 800mm width

- All stairways, ramps and pathways to comply with AS1428.1

	notes	rev	date	amendment	rev	date	amendment	<b>environa studio</b> 224 riley st surry hills 2010 t: 02 9211 0000 w: www.environastudio.com.au architects registration number 6239	project <b>SENIORS LIVING</b>	location <b>27-29 NORTH AVALON ROAD</b>	drawing <b>TERMS AND ABBREVIATIONS + SPECIFICATION SEPP SENIORS</b>	stage <b>DA</b>	project no. <b>991</b>	dwg no. <b>211</b>
	all work to be carried out in accordance with bca, saa codes and conditions of council. measurements in mm's unless noted. use figured dimensions. do not scale drawings. site measure before starting work. refer all discrepancies to the architect.	A 23/01/19 issued for information A 25/02/19 issued to council for information B 08/03/19 issued for information C 16/04/19 issued for information D 30/04/19 issued for information D 03/05/19 issued to consultants E 10/05/19 issued to consultants F 30/05/19 issued to consultants	F 14/06/19 issued to consultants G 19/06/19 issued to consultants + client H 21/06/19 issued to consultants + client I 02/07/19 issued to consultants + client J 31/07/19 issued to client for comment J 19/08/19 issued to client for comment K 27/08/19 issued to client for comment L 30/09/19 issued to client for information	project <b>ARMADA AVALON PTY LTD</b>	location <b>AVALON BEACH</b>	drawing	chkd <b>TW</b>	drwn <b>MB</b>	date <b>03/10/19</b>	revision <b>L</b>				

# WASTE MANAGEMENT PLAN

PROJECT: MULTI RESIDENTIAL  
 ADDRESS: 27-29 NORTH AVALON ROAD, AVALON BEACH  
 COUNCIL: NORTHERN BEACHES COUNCIL  
 DATE: 14-May-19

MATERIALS	SOURCE	EST. QUANTITY			ONSITE RECYCLING	OFF SITE RECYCLING	OFF SITE DISPOSAL
		Volume cum	Area sqm	weight tonne			
<b>DEMOLITION STAGE</b>							
<b>Green waste</b>	Trees shrubs removed		21.00		All small branches and leaves chipped for mulch.	Mulch to garden recyclers. Large trunks recycled for timber salvage.	
<b>Bricks</b>	existing building	21.00			Some bricks retained and set aside for reuse.	Broken bricks stored for collection to crushing.	
<b>Concrete blocks</b>	existing building	0.00			Some blocks set aside for reuse.	Broken bricks sent to collection for crushing to road base at Waste Transfer Station.	
<b>Concrete</b>	existing building		262.00		Nil	Slabs/footings broken up on site, stored for collection for crushing as road base.	To Waste Transfer Station that recycles building waste.
<b>Timber framing</b>	existing building	4.50			Denail useful pieces and set aside for reuse.	Unused large pieces recycled for timber salvage.	To Waste Transfer Station as land fill.
<b>Timber cladding</b>	existing building	0.00			Denail useful pieces and set aside for reuse.	Nil	To Waste Transfer Station as land fill.
<b>FC cladding</b>	existing building		30.00		Nil	Material broken up on site, stored separately for collection to crushing.	To Waste Transfer Station that recycles FC building waste.
<b>Asbestos sheet</b>	existing building	nil			Nil	Nil	Removal in accordance with Workcover requirements to Land Fill site.
<b>Plasterboard</b>	existing building		50.00		Nil	Binned separately for recycling by Boral Plasterboard	Nil
<b>Roofing: tiles</b>	existing building		187.00		Some tiles set aside for reuse.	Broken tiles stored for collection to crushing to road base at Waste Transfer Station.	Nil
<b>Roofing: Tin</b>	existing building				Some sheets retained and set aside for reuse.	Unusable sheets stored for recycling at Mini Mill steel plant by BHP/equiv.	Nil
<b>Insulation</b>	existing building	2.00			Set aside for reuse.		Nil
<b>Metal piping etc</b>	existing building			0.002	Nil	Non ferrous metals binned separately for recycling.	
<b>PVC piping</b>	existing building	nil			Nil		Removal to Land Fill site.
<b>Tiles + pavers</b>	existing building		0.00		Some tiles set aside for reuse.	Broken tiles stored for collection to crushing to road base at Waste Transfer Station.	Nil
<b>Stone</b>	existing building		6.00		set aside useful stone for reuse in landscaping.		
<b>EXCAVATION STAGE</b>							
<b>Top soil</b>		20.00			Top soil stored on site for use in landscaped gardens.		
<b>Sand/clay/shale</b>		0.00			Sand/clay stored on site for use as backfill where volumes allow.		Balance sent to authorised land fill site.
<b>Rock</b>		nil			Stored on site for use as backfill where volumes allow.		Balance sent to authorised land fill site.
<b>CONSTRUCTION STAGE</b>							
<b>Bricks</b>		1.00			Offcut bricks retained, crushed and used for drainage fill.	Excess broken blocks stored for collection to crushing.	
<b>Concrete blocks</b>		1.00			Offcut bricks retained, crushed and used for drainage fill.	Broken blocks sent to collection for crushing to road base at Waste Transfer Station.	
<b>Concrete</b>		1.00			Excess concrete poured into moulds on site for garden pavers.	Nil	Nil
<b>Timber framing</b>		2.00			Useful pieces set aside for reuse.	Unused large pieces recycled into store by builder.	Nil
<b>Timber cladding</b>		nil			Useful pieces set aside for reuse.	Unused large pieces recycled into store by builder.	Nil
<b>FC cladding</b>		1.00			Nil	Material broken up on site, stored separately for collection to crushing.	To Waste Transfer Station that recycles FC building waste.
<b>Plasterboard</b>		1.00			Nil	Binned separately for recycling by Boral Plasterboard	Nil
<b>Roofing: tiles</b>			nil		Full tiles stored on site as spares	Broken tiles stored for collection to crushing to road base at Waste Transfer Station.	Nil
<b>Roofing: Steel</b>			nil		Sheets ordered cut to size to minimise waste	Offcut sheets stored for recycling at Mini Mill steel plant by BHP/equiv.	Nil
<b>Insulation</b>		10.00			Nil	Unused returned to manufacturer/store by builder.	Nil
<b>Metal piping etc</b>				0.001	Nil	Non ferrous metals binned separately for recycling.	
<b>PVC piping</b>			nil		Nil		Removal to Land Fill site.
<b>Tiles + pavers</b>		0.80			Full tiles set aside as spares.	Cut tiles stored for collection to crushing to road base at Waste Transfer Station.	Nil
<b>Misc packaging, fixings glues etc</b>		0.50			Timber packaging sorted for reuse as above.		Removal to Land Fill site.
<b>Other</b>							

	notes	rev	date	amendment	rev	date	amendment	<b>environa studio</b> 224 riley st surry hills 2010 t: 02 9211 0000 w: www.environastudio.com.au architects registration number 6239	project	location	drawing	stage	project no.	dwg no.
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					G	19/06/19	issued to consultants + client	for/client	at	drawing	chkd	drwn	date	revision
					H	21/06/19	issued to consultants + client	ARMADA AVALON PTY LTD	AVALON BEACH		TW	MB	03/10/19	L
					I	02/07/19	issued to consultants + client							
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					K	19/08/19	issued to client for comment							
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	B 08/03/19 issued for information	C 16/04/19 issued for information	D 30/04/19 issued for information	E 03/05/19 issued to consultants	G 19/06/19 issued to consultants + client	H 21/06/19 issued to consultants + client	I 02/07/19 issued to consultants + client	J 31/07/19 issued to client for comment	K 19/08/19 issued to client for comment	L 27/08/19 issued to client for comment	at <b>AVALON BEACH</b>	chkd <b>TW</b>	drwn <b>MB</b>	date <b>03/10/19</b>



June 21  
9am



June 21  
10am



June 21  
11am



June 21  
12pm



June 21  
1pm



June 21  
2pm



June 21  
3pm



additional shadow generated by the proposed development

\*shadow diagrams generated by 3D model using sketchup pro 18'. All diagrams have been certified by the registered architect.

<p>notes</p> <p>all work to be carried out in accordance with bca, saa codes and conditions of council. measurements in mm's unless noted. use figured dimensions. do not scale drawings. site measure before starting work. refer all discrepancies to the architect.</p> <p>0 0.5 1.0 2.0 3.0m</p>	<p>rev</p> <p>A 23/01/19 issued for information</p> <p>B 25/02/19 issued to council for information</p> <p>C 08/03/19 issued for information</p> <p>D 16/04/19 issued for information</p> <p>E 30/04/19 issued to consultants</p> <p>F 03/05/19 issued to consultants</p> <p>G 10/05/19 issued to consultants</p> <p>H 30/05/19 issued to consultants</p>	<p>rev</p> <p>F 14/06/19 issued to consultants</p> <p>G 19/06/19 issued to consultants + client</p> <p>H 21/06/19 issued to consultants + client</p> <p>I 02/07/19 issued to consultants + client</p> <p>J 31/07/19 issued to client for comment</p> <p>K 19/08/19 issued to client for comment</p> <p>L 27/08/19 issued to client for comment</p> <p>M 30/09/19 issued to client for information</p>	<p>project</p> <p>SENIORS LIVING</p> <p>for/client</p> <p>ARMADA AVALON PTY LTD</p>	<p>location</p> <p>27-29 NORTH AVALON ROAD</p> <p>at</p> <p>AVALON BEACH</p>	<p>drawing</p> <p>JUNE 21st</p> <p>drawing</p> <p>SHADOW DIAGRAMS</p>	<p>stage</p> <p>DA</p> <p>chkd</p> <p>TW</p> <p>drwn</p> <p>MB</p>	<p>project no.</p> <p>991</p> <p>date</p> <p>03/10/19</p>	<p>dwg no.</p> <p>910</p> <p>revision</p> <p>L</p>
	<p>environa studio</p> <p>224 riley st surry hills 2010</p> <p>t: 02 9211 0000</p> <p>w: www.environastudio.com.au</p> <p>architects registration number 6239</p>							



september 23  
9am



september 23  
12pm



september 23  
3pm

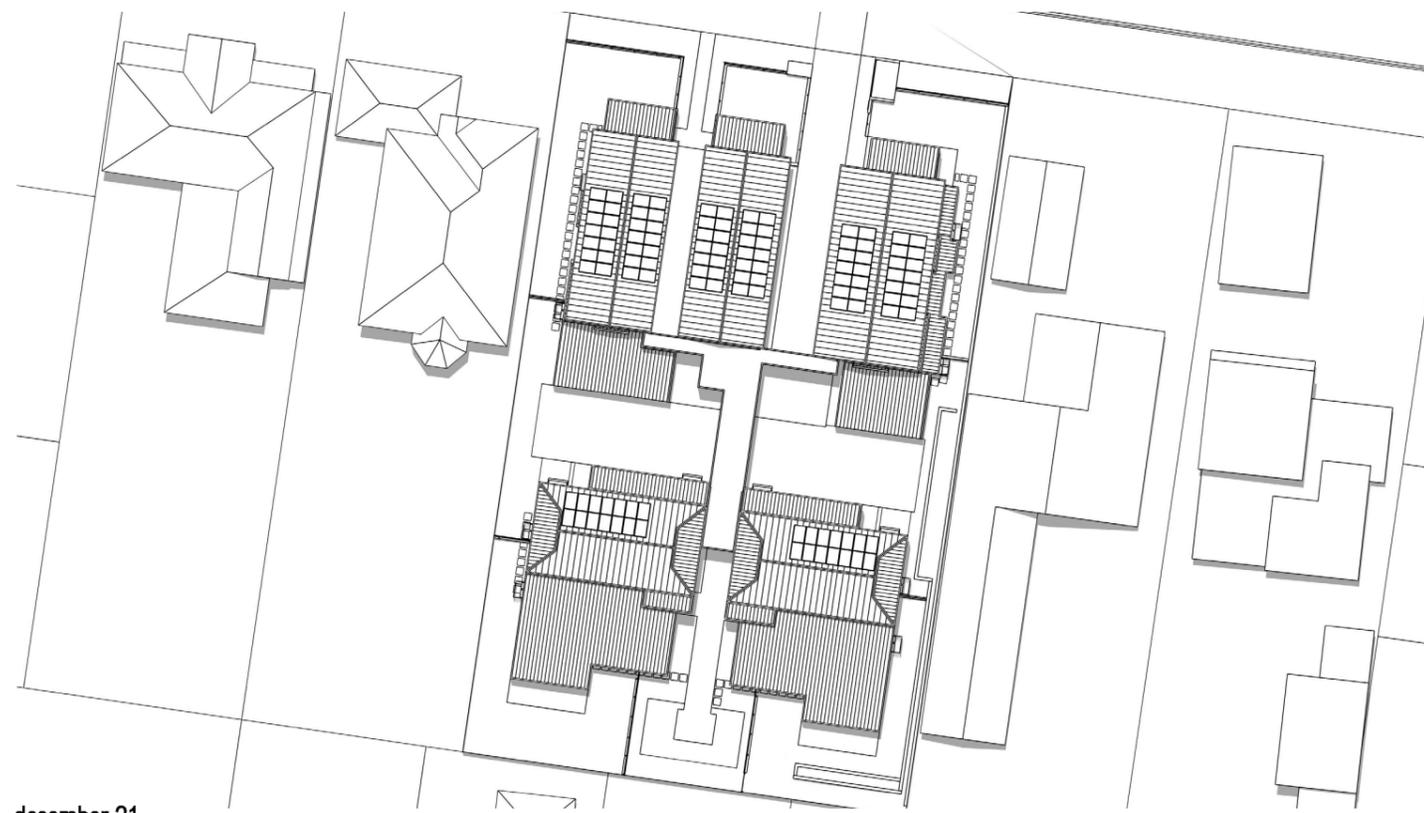
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		A 23/01/19 issued for information A 25/02/19 issued to council for information B 08/03/19 issued for information C 16/04/19 issued for information D 30/04/19 issued for information D 03/05/19 issued to consultants E 10/05/19 issued to consultants F 30/05/19 issued to consultants	F 14/06/19 issued to consultants + client G 19/06/19 issued to consultants + client H 21/06/19 issued to consultants + client I 02/07/19 issued to consultants + client J 31/07/19 issued to client for comment J 19/08/19 issued to client for comment K 27/08/19 issued to client for comment L 30/09/19 issued to client for information		<b>for/client</b> <b>ARMADA AVALON PTY LTD</b>	<b>at</b> <b>AVALON BEACH</b>	<b>drawing</b> <b>SHADOW DIAGRAMS</b>	<b>chkd</b> <b>drwn</b> <b>TW</b> <b>MB</b>	<b>date</b> <b>03/10/19</b>	<b>revision</b> <b>L</b>



december 21  
9am



december 21  
12pm

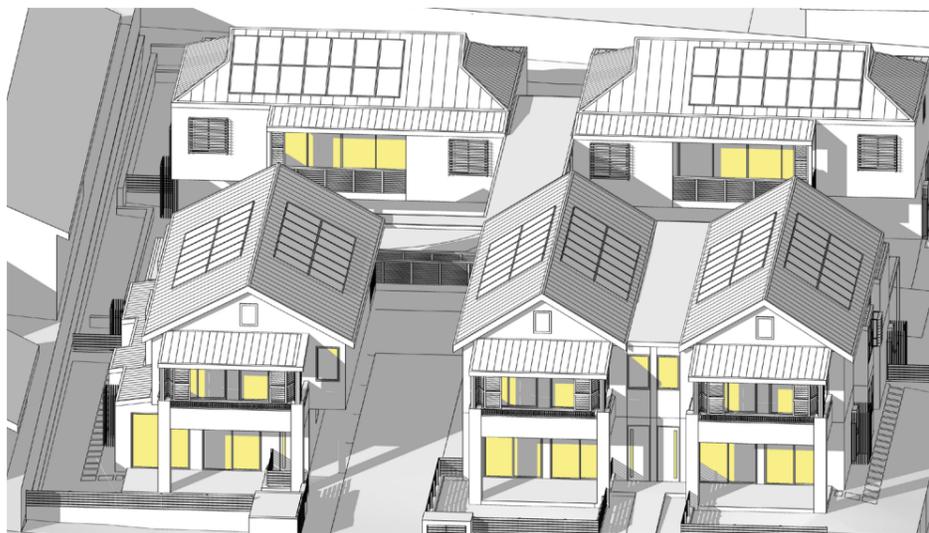


december 21  
3pm

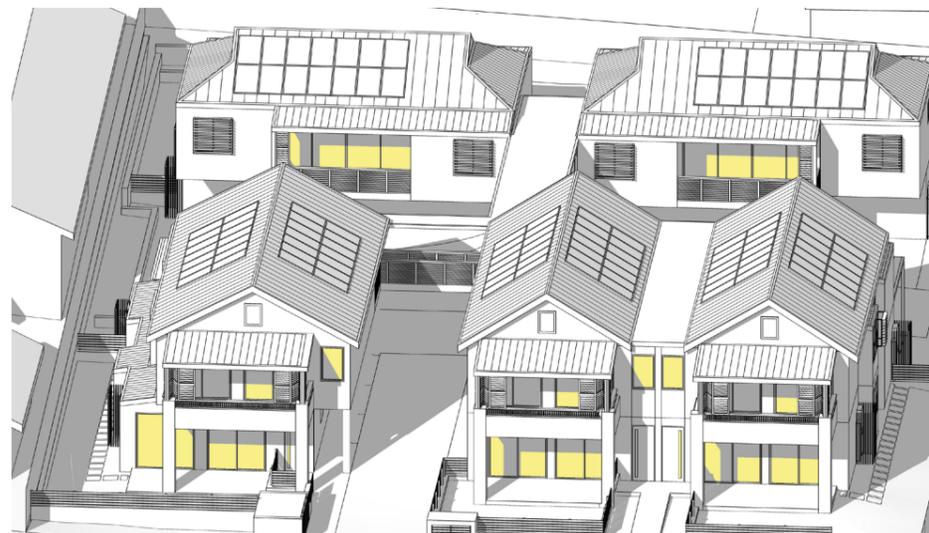
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		A 23/01/19 issued for information A 25/02/19 issued to council for information B 08/03/19 issued for information C 16/04/19 issued for information D 30/04/19 issued for information D 03/05/19 issued to consultants E 10/05/19 issued to consultants F 30/05/19 issued to consultants	F 14/06/19 issued to consultants + client G 19/06/19 issued to consultants + client H 21/06/19 issued to consultants + client I 02/07/19 issued to consultants + client J 31/07/19 issued to client for comment J 19/08/19 issued to client for comment K 27/08/19 issued to client for comment L 30/09/19 issued to client for information		<b>for/client</b> <b>ARMADA AVALON PTY LTD</b>	<b>at</b> <b>AVALON BEACH</b>	<b>drawing</b> <b>SHADOW DIAGRAMS</b>	<b>chkd</b> <b>drwn</b> <b>TW</b> <b>MB</b>	<b>date</b> <b>03/10/19</b>	<b>revision</b> <b>L</b>



june 21  
9am



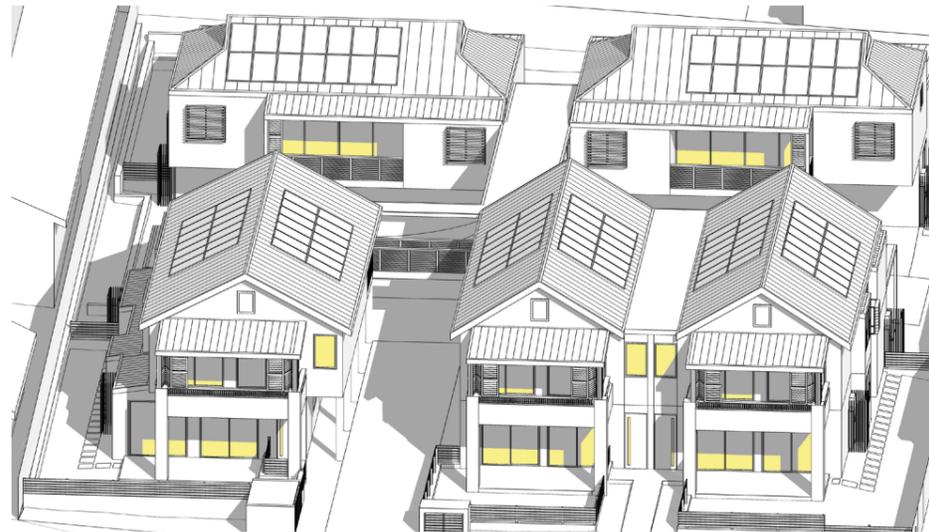
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10am



june 21  
11am



june 21  
12pm



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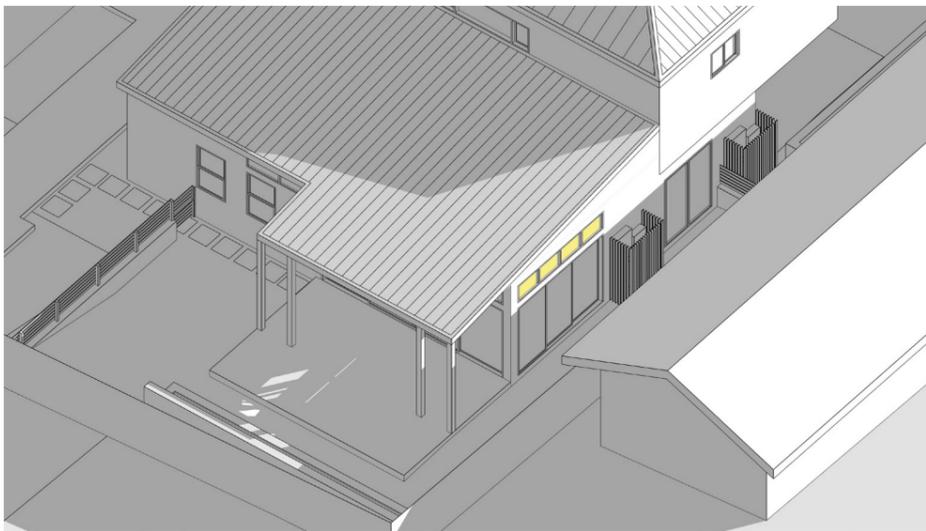
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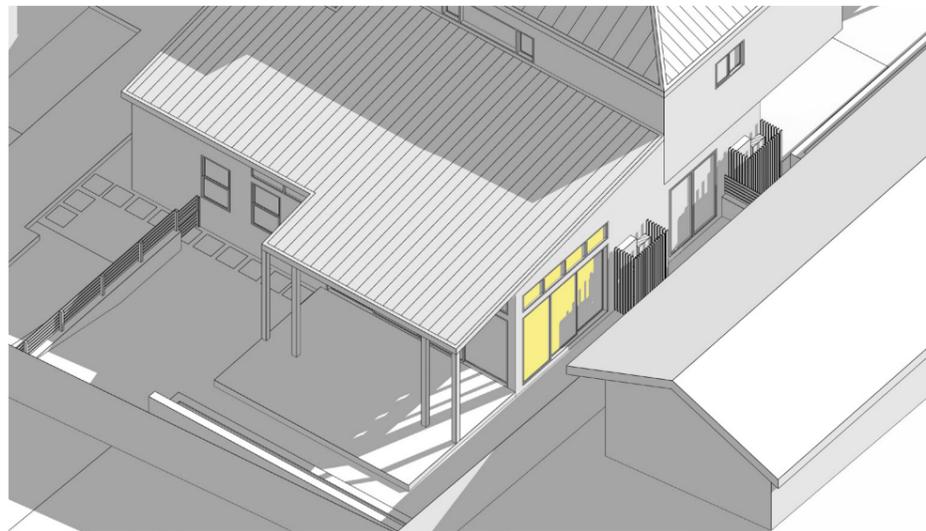
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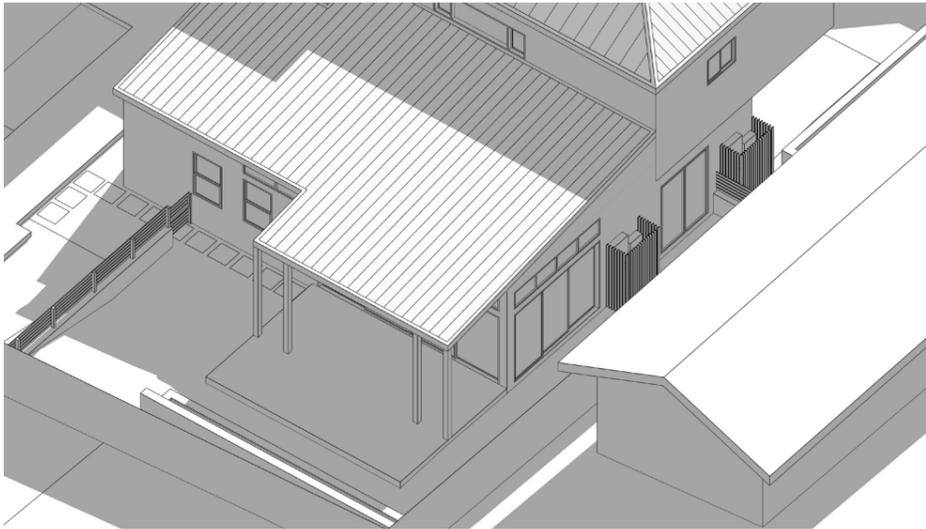
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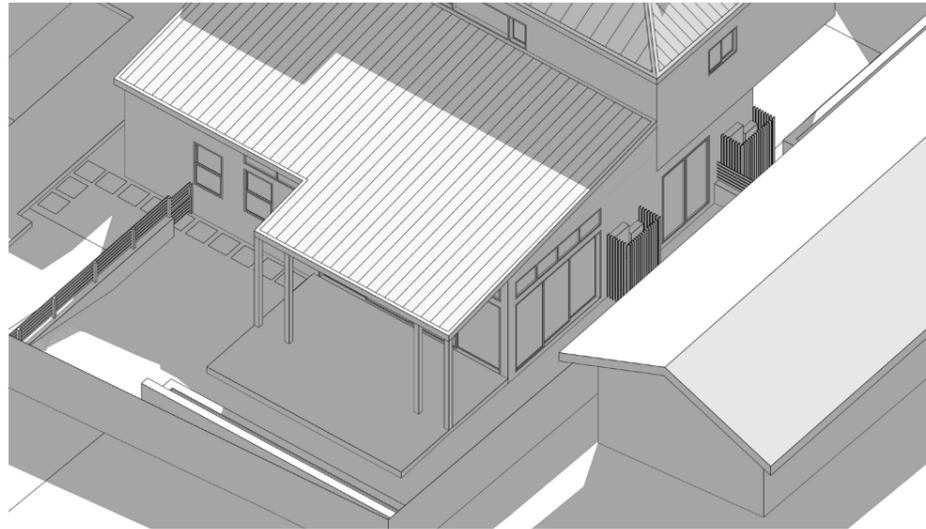
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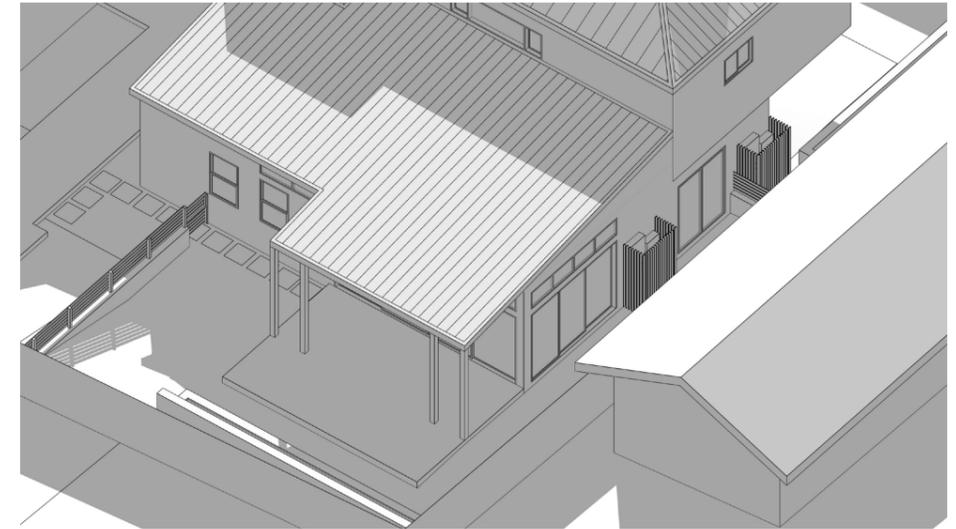
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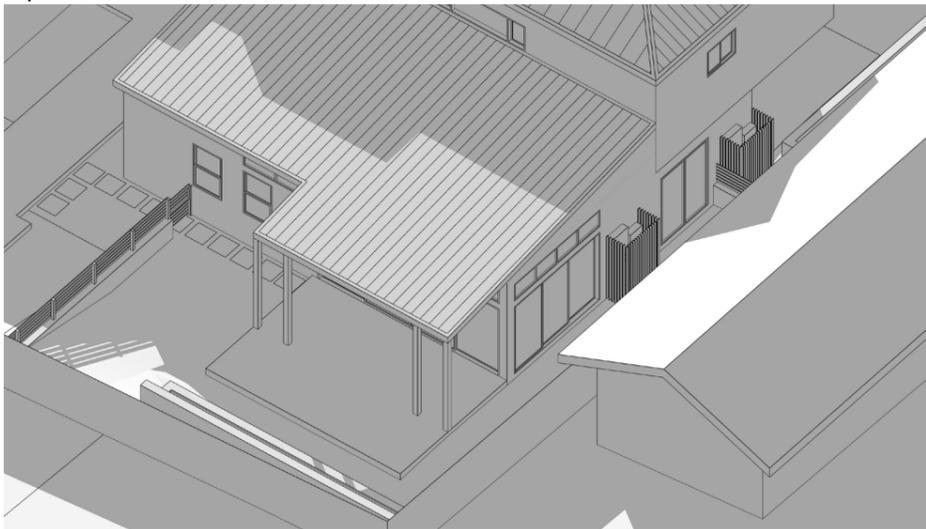
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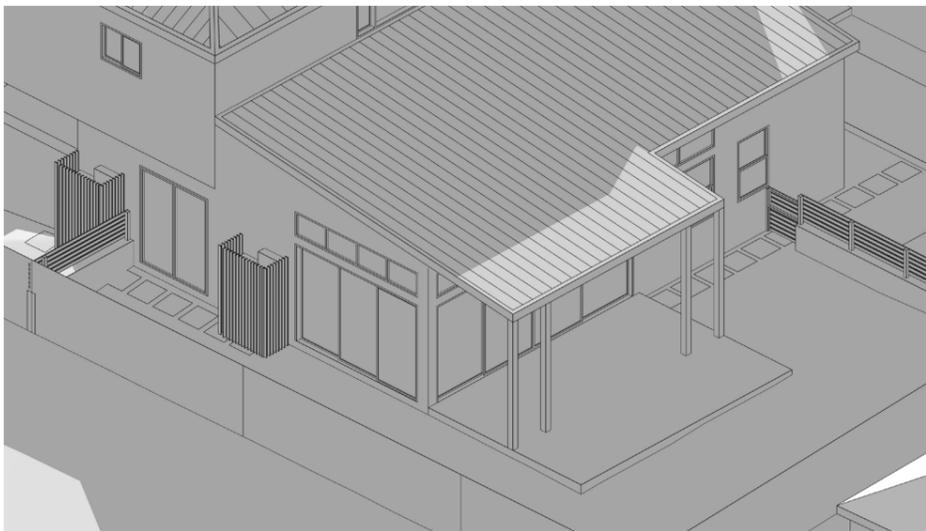
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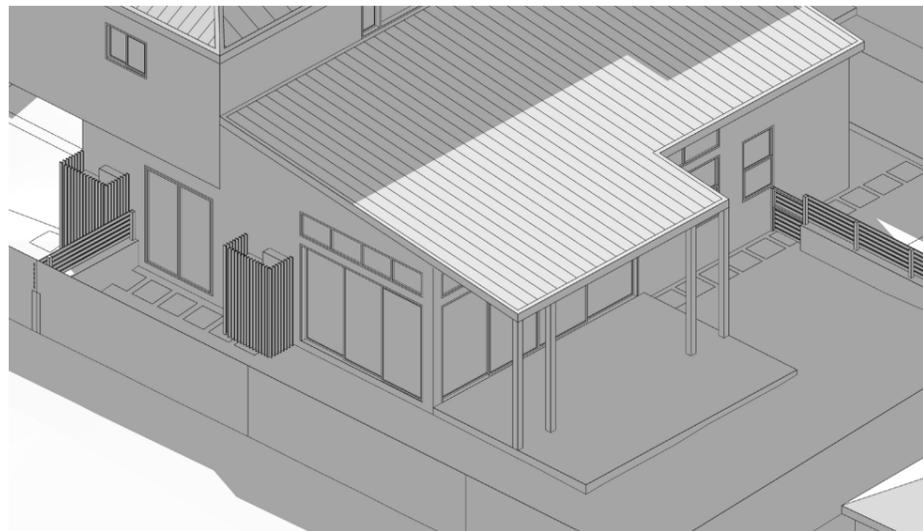
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\*shadow diagrams generated by 3D model using sketchup pro 18'. All diagrams have been certified by the registered architect.

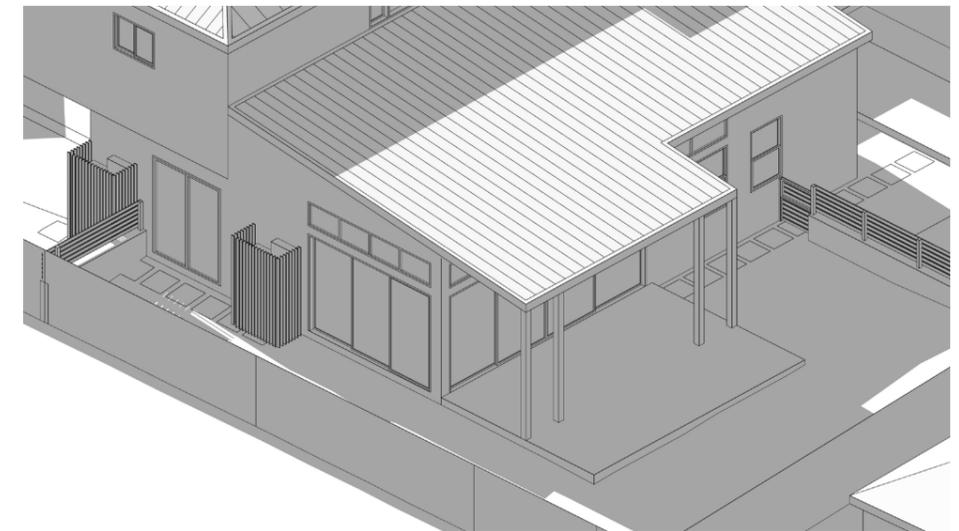
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	B	08/03/19	issued for information	G	19/06/19	issued to consultants + client	ARMADA AVALON PTY LTD	at AVALON BEACH	SOLAR ACCESS STUDY	chkd	drwn	date	revision	
	C	16/04/19	issued for information	H	21/06/19	issued to consultants + client				TW	MB	03/10/19	L	
	D	30/04/19	issued for information	I	02/07/19	issued to consultants + client								
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				L	30/09/19	issued to client for information								



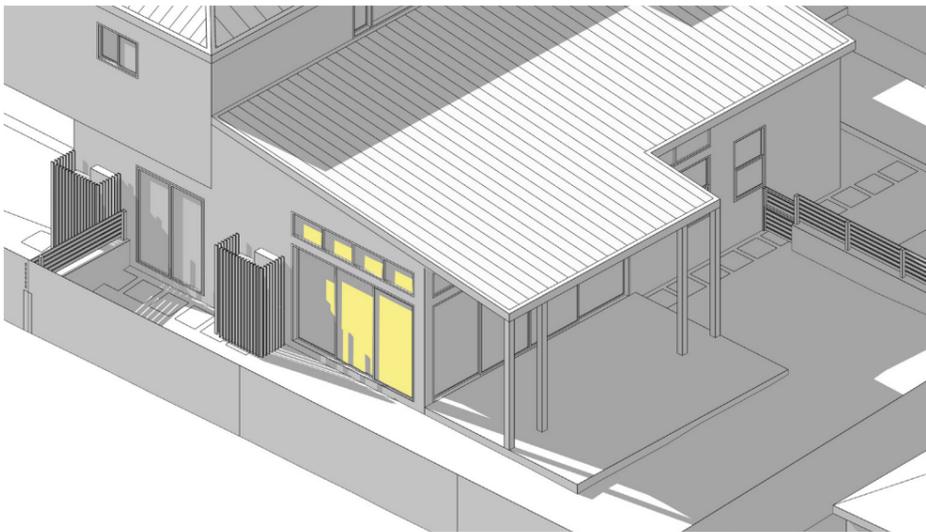
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9am



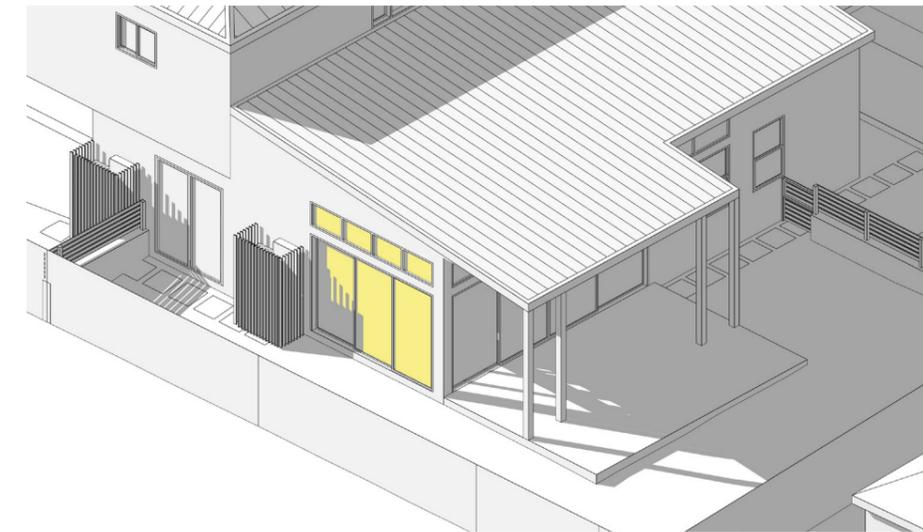
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10am



June 21  
11am



June 21  
12pm



June 21  
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June 21  
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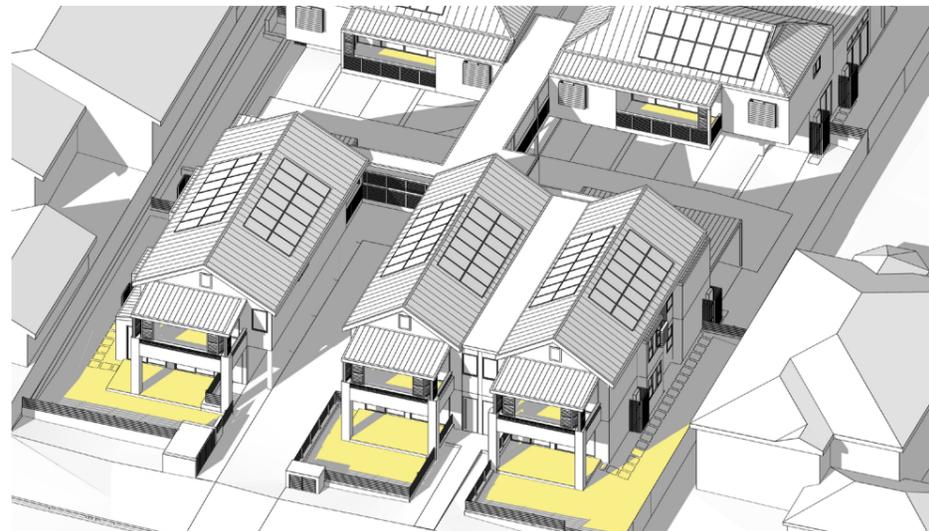
June 21  
3pm

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	notes	<table border="1"> <thead> <tr> <th>rev</th> <th>date</th> <th>amendment</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>23/01/19</td> <td>issued for information</td> </tr> <tr> <td>A</td> <td>25/02/19</td> <td>issued to council for information</td> </tr> <tr> <td>B</td> <td>08/03/19</td> <td>issued for information</td> </tr> <tr> <td>C</td> <td>16/04/19</td> <td>issued for information</td> </tr> <tr> <td>D</td> <td>30/04/19</td> <td>issued for information</td> </tr> <tr> <td>D</td> <td>03/05/19</td> <td>issued to consultants</td> </tr> <tr> <td>E</td> <td>10/05/19</td> <td>issued to consultants</td> </tr> <tr> <td>F</td> <td>30/05/19</td> <td>issued to consultants</td> </tr> </tbody> </table>	rev	date	amendment	A	23/01/19	issued for information	A	25/02/19	issued to council for information	B	08/03/19	issued for information	C	16/04/19	issued for information	D	30/04/19	issued for information	D	03/05/19	issued to consultants	E	10/05/19	issued to consultants	F	30/05/19	issued to consultants	<table border="1"> <thead> <tr> <th>rev</th> <th>date</th> <th>amendment</th> </tr> </thead> <tbody> <tr> <td>F</td> <td>14/06/19</td> <td>issued to consultants + client</td> </tr> <tr> <td>G</td> <td>19/06/19</td> <td>issued to consultants + client</td> </tr> <tr> <td>H</td> <td>21/06/19</td> <td>issued to consultants + client</td> </tr> <tr> <td>I</td> <td>02/07/19</td> <td>issued to consultants + client</td> </tr> <tr> <td>J</td> <td>31/07/19</td> <td>issued to client for comment</td> </tr> <tr> <td>J</td> <td>19/08/19</td> <td>issued to client for comment</td> </tr> <tr> <td>K</td> <td>27/08/19</td> <td>issued to client for comment</td> </tr> <tr> <td>L</td> <td>30/09/19</td> <td>issued to client for information</td> </tr> </tbody> </table>	rev	date	amendment	F	14/06/19	issued to consultants + client	G	19/06/19	issued to consultants + client	H	21/06/19	issued to consultants + client	I	02/07/19	issued to consultants + client	J	31/07/19	issued to client for comment	J	19/08/19	issued to client for comment	K	27/08/19	issued to client for comment	L	30/09/19	issued to client for information	<b>environa studio</b> 224 riley st surry hills 2010 t: 02 9211 0000 w: www.environastudio.com.au architects registration number 6239	project <b>SENIORS LIVING</b>	location <b>27-29 NORTH AVALON ROAD</b>	drawing <b>LIVING SPACE SHEET 3</b>	stage <b>DA</b>	project no. <b>991</b>	dwg no. <b>915</b>
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June 21  
9am



June 21  
10am



June 21  
11am



June 21  
12pm



June 21  
1pm



June 21  
2pm



June 21  
3pm

\*shadow diagrams generated by 3D model using sketchup pro 18'. All diagrams have been certified by the registered architect.

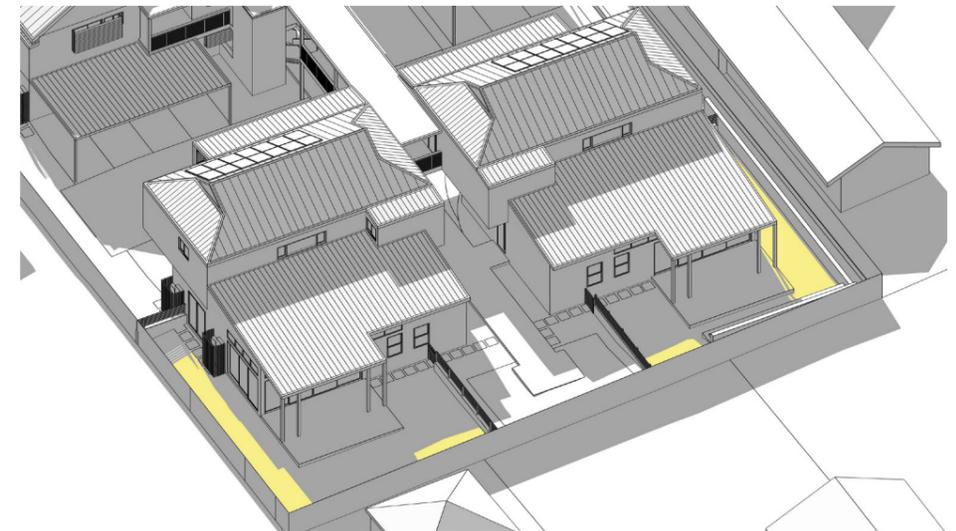
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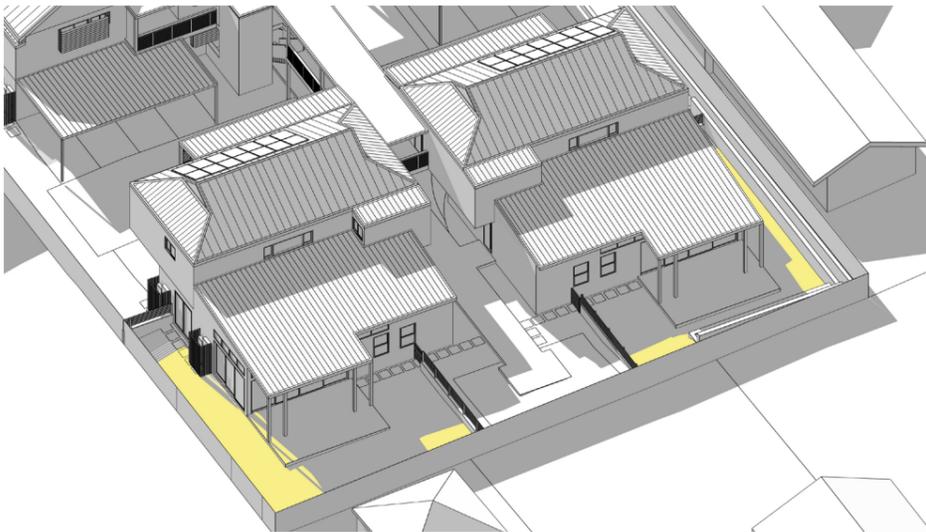
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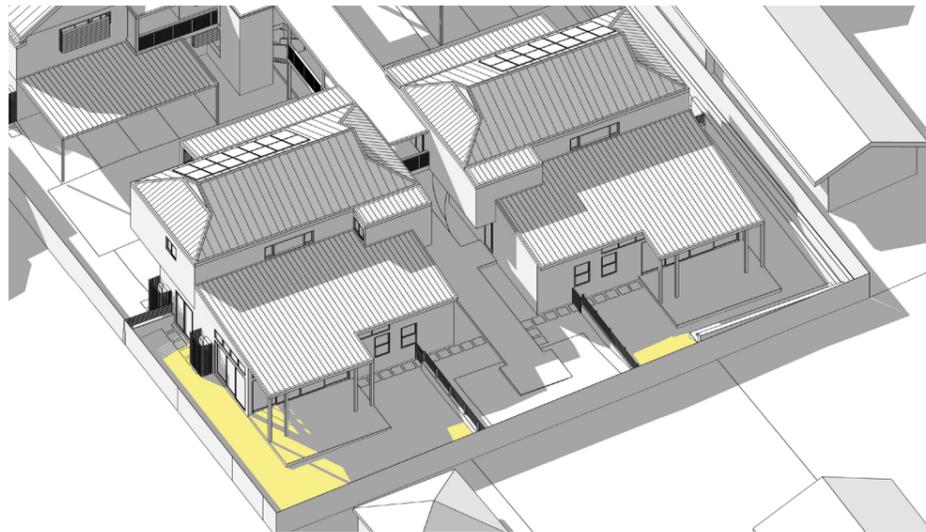
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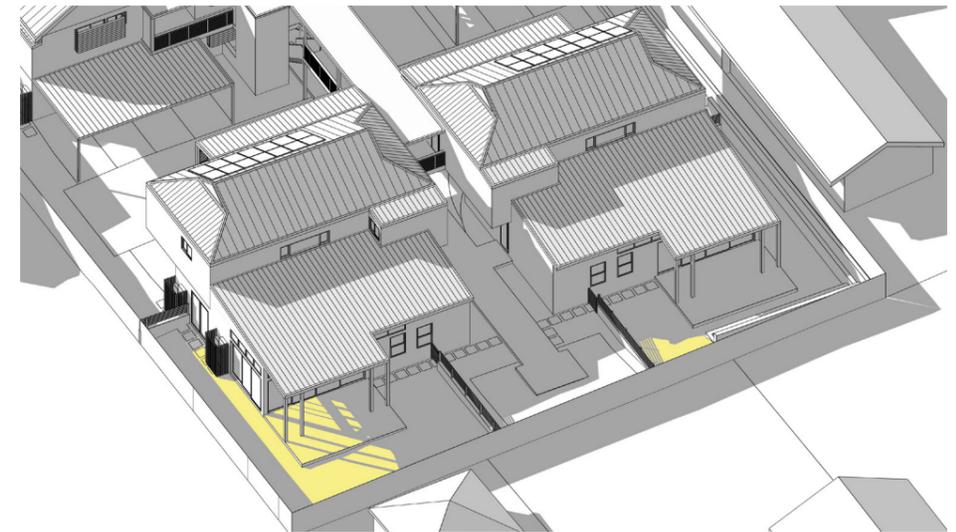
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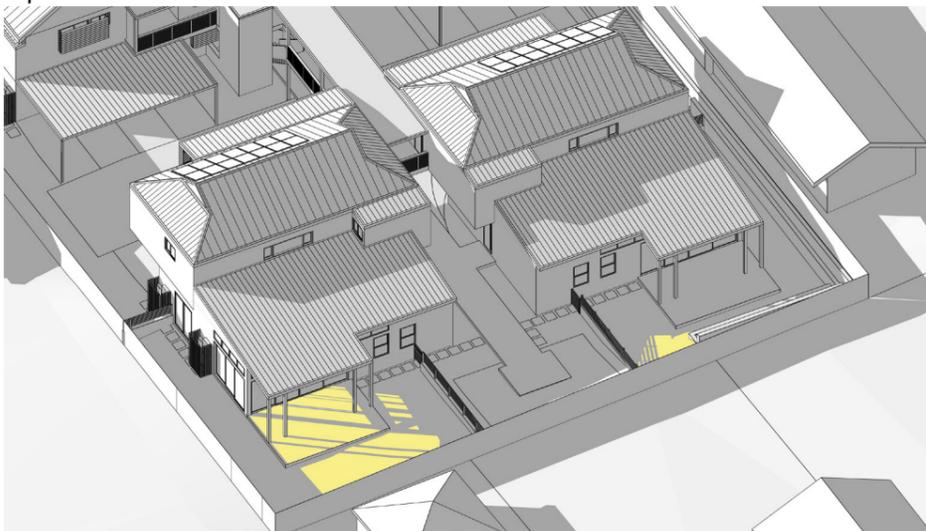
June 21  
12pm



June 21  
1pm



June 21  
2pm



June 21  
3pm

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living room glazing	Jun-21	9am	10am	11am	12pm	1pm	2pm	3pm		minimum 3 hours
unit 1		yes	yes	yes	yes	yes	yes	yes	6 hours	yes
unit 2		yes	yes	yes	yes	yes	yes	yes	6 hours	yes
unit 3		yes	yes	yes	yes	yes	yes	yes	6 hours	yes
unit 4		yes	yes	yes	no	no	no	no	2 hours	no
unit 5		no	no	no	yes	yes	yes	yes	3 hours	yes
unit 6		yes	yes	yes	yes	yes	yes	yes	6 hours	yes
unit 7		yes	yes	yes	yes	yes	yes	yes	6 hours	yes
unit 8		yes	yes	yes	yes	yes	yes	yes	6 hours	yes
unit 9		yes	yes	yes	yes	yes	yes	yes	6 hours	yes
unit 10		yes	yes	yes	yes	yes	yes	yes	6 hours	yes
										09/10 (90%)

09/10 (90%) of all proposed units in this development will receive more than 3 hours of solar access onto their living room windows in mid winter (june 21)

private open space	Jun-21	9am	10am	11am	12pm	1pm	2pm	3pm		minimum 3 hours
unit 1		yes	yes	yes	yes	yes	yes	yes	6 hours	yes
unit 2		yes	yes	yes	yes	yes	yes	yes	6 hours	yes
unit 3		yes	yes	yes	yes	yes	yes	yes	6 hours	yes
unit 4		no	yes	yes	yes	yes	yes	yes	5 hours	yes
unit 5		no	no	yes	yes	yes	yes	yes	4 hours	yes
unit 6		yes	yes	yes	yes	yes	yes	yes	6 hours	yes
unit 7		yes	yes	yes	yes	yes	yes	yes	6 hours	yes
unit 8		yes	yes	yes	yes	yes	yes	yes	6 hours	yes
unit 9		no	yes	yes	yes	yes	yes	yes	5 hours	yes
unit 10		no	yes	yes	yes	yes	yes	yes	5 hours	yes
										10/10 (100%)

10/10 (100%) of all proposed units in this development will receive more than 3 hours of solar access onto their private open spaces in mid winter (june 21)

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		B 08/03/19	issued for information	G 19/06/19	issued to consultants + client	H 21/06/19	issued to consultants + client		I 02/07/19	issued to consultants + client	for/client ARMADA AVALON PTY LTD	at AVALON BEACH	drawing SOLAR ACCESS STUDY	chkd TW

**BASIX thermal comfort inclusions – 27-29 North Avalon Road**

Floors	Concrete slab on ground to ground level, no insulation required. Framed floor between levels, no insulation required.
Walls	<p><b>External walls Level 1:</b> Cavity brick work with cavity insulation R1.0</p> <p><b>External walls Level 2:</b> EPS panel system (min, 60mm) with R2.0 cavity batt insulation (Minimum <math>R_{total}</math> system value 3.94)</p> <p><b>External colour</b> Default colour modelled</p> <p><b>Walls with-in dwellings:</b> Plasterboard on studs, no insulation required</p> <p><b>Party walls Level 1:</b> Cavity brick work with cavity, no insulation required.</p> <p><b>Party walls Level 2:</b> Double stud walls lined with plasterboard, no insulation required.</p>
Windows	<p>Aluminium framed, low-e single glazing to units 04, 05 and 08 only U-value: 4.80 (equal to or lower than) SHGC: 0.59 (±10%)</p> <p>Aluminium framed single clear glazing elsewhere: Group A – awning windows U-value: 6.70 (equal to or lower than) SHGC: 0.57 (±10%) Group B – sliding doors/windows + fixed glazing U-value: 6.70 (equal to or lower than) SHGC: 0.70 (±10%)</p> <p>Given values are AFRC total window system values (glass and frame)</p>
Ceilings	Plasterboard ceiling with R3.0 insulation (insulation only value) where roof above (R4.0 ceiling insulation to unit 04 only) Sealed LED downlights at a maximum of one every 2.5m <sup>2</sup>
Roof	Metal roof with foil backed blanket (Ru1.3 and Rd1.3) <b>External colour</b> Light (0.475>SA)
Floor Coverings	Tiles to wet areas; carpet to bedrooms; timber elsewhere.
<b>BASIX water inclusions</b>	
Rainwater tank	8,000L rainwater tank Collecting from 850m <sup>2</sup> of roof area Connected to the irrigation system of common and private landscape.
<b>BASIX energy inclusions</b>	
Hot water system	Individual electric heat pumps (air sourced) – 31-35 STCs
Alternative energy	Photovoltaic system with a minimum output of 2kW

	notes	rev	date	amendment	rev	date	amendment	<b>environa studio</b> 224 riley st surry hills 2010 t: 02 9211 0000 w: www.environastudio.com.au architects registration number 6239	project	location	drawing	stage	project no.	dwg no.
	all work to be carried out in accordance with bca, saa codes and conditions of council. measurements in mm's unless noted. use figured dimensions. do not scale drawings. site measure before starting work. refer all discrepancies to the architect.	A	23/01/19	issued for information	F	14/06/19	issued to consultants		SENIORS LIVING	27-29 NORTH AVALON ROAD	BASIX COMMITMENTS	DA	991	930
					G	19/08/19	issued to consultants + client	for/client	at	drawing	chkd	drwn	date	revision
					H	21/08/19	issued to consultants + client	ARMADA AVALON PTY LTD	AVALON BEACH		TW	MB	03/10/19	L
					I	02/07/19	issued to consultants + client							
					J	31/07/19	issued to client for comment							
					K	27/08/19	issued to client for comment							
					L	30/09/19	issued to client for information							



satellite image 1:1750 @ A3

A B bus stops
 
 - - - - - south accessible path of travel to bus stop A (384m)
 - - - - - south accessible path of travel to bus stop B (435m)
  

 - - - - - north accessible path of travel to bus stop A (365m)
 - - - - - north accessible path of travel to bus stop B (408m)

	notes	rev	date	amendment	rev	date	amendment	environa studio	project	location	drawing	stage	project no.	dwg no.	
	all work to be carried out in accordance with bca, saa codes and conditions of council. measurements in mm's unless noted. use figured dimensions. do not scale drawings. site measure before starting work. refer all discrepancies to the architect.	A	23/01/19	issued for information	F	14/06/19	issued to consultants	G	19/06/19	224 riley st surry hills 2010 t: 02 9211 0000 w: www.environastudio.com.au architects registration number 6239	SENIORS LIVING	27-29 NORTH AVALON ROAD	BUS ROUTE PLAN	DA	991
		A	25/02/19	issued to council for information	G	19/06/19	issued to consultants + client		for/client	at	drawing	chkd	drwn	date	revision
		B	08/03/19	issued for information	H	21/06/19	issued to consultants + client		ARMADA AVALON PTY LTD	AVALON BEACH		TW	MB	03/10/19	L
		C	16/04/19	issued for information	I	02/07/19	issued to consultants + client								
		D	30/04/19	issued for information	J	31/07/19	issued to client for comment								
		D	30/05/19	issued to consultants	J	19/06/19	issued to client for comment								
		E	10/05/19	issued to consultants	K	27/06/19	issued to client for comment								
		F	30/05/19	issued to consultants	L	30/09/19	issued to client for information								