list of ab	breviations		
A/C	air conditioning	MSB	main switch board
ALUM	aluminium	MS	metal sheeting
AP	access panel	MT	mosaic tile
AS	adjustable shelf	MW	microwave
AW	awning window	MX	mixer
BAL	balustrade	Ø	diameter
BALC BDY	balcony	OF	overflow
BLWK	boundary block work	PAV	paving
BS	bath spout	PB	plasterboard
BSN	basin	PBFR	plasterboard- fire resistant 90/90/90
BWBP	brickwork bagged & painted	PBM PLY	plasterboard- moisture resistant
BWF	brickwork faced	PNT	plywood
COF	concrete- off form	PU	paint polyurethane
CPS	concrete- polished & sealed	PV	photo voltaic
CST	concrete- steel trowel finish	RA	return air
CONC	concrete	RH	range hood
COS	check on site	RHS	rectangular hollow section
CCTV	closed circuit TV	RL	reduced level
CFC	compressed fibre cement	RWH	rainwater head
COL	column	RWO	rainwater outlet
CPD	cupboard	SD	smoke detector
CPT	carpet	SH	shutters
CR	cement render	SHA	shutters automated
CT	ceramic tile	SH	shingles
CTP	cooktop	SHR	shower
DH DP	double hung	SK	skirting
DPC	down pipe damp proof course	SP	set plaster
DRY	dryer	SPM	set plaster moisture resistant
DR	drawer	SS	stainless steel
DW	dishwasher	STL	stone
EDB	electrical switch board	SWP	steel sewer pipe
EQ	equal	T	timber
EX	existing	TB	timber- battens
F	fridge	TF	timber- frame
FC	fibrous cement sheet	TFB	timber- floorboards
FCL	finished ceiling level	THR	timber- handrail
FFL	finished floor level	TOF	top of fence
FGL	finished ground level	TOW	top of wall
FP	fixed panel	TRH	toilet roll holder
FR	freezer	TR	tiled roof
FS FW	fixed shelf	TRZO	terrazzo
G	floor waste glass/ glazing	TS	timber screen
GBL	glass balustrade	U/S	underside
GL	glass- louvre	VB	vapour barrier
GO	glass- obscure	VN	veneer- timber
GALV	galvanised	VP WB	vent pipe
GD	grated drain	WC WC	weatherboards water closet
GPO	general purpose outlet	WM	washing machine
GU	gutter	WPM	water proof membrane
HR	hanging rail		proof moniorano
HT	hose tap		
HTR	heated towel rail		
HWU	hot water unit		I
LAM	laminate		
LV	louvre		I
MB	metal balustrade		
MDF	medium density fibreboard		
MI	mirror	I	

MPBR

membrane pebble ballast roof

metal roof

BASIX notes

NatHERS Thermal Comfort Inclusions

Minimum 150 mm concrete slab on ground, no insulation Minimum 150 mm Concrete slab between levels, no insulation required where habitable rooms are above and below

External Walls

Cavity brick with AIR-CELL Permicav insulaton for a minimum Total system R-value of RT1.47
FC cladding on stud wall with R2.0 insulation (insulation only

value)
150mm concrete wall to lift, no insulation required Note: No insulation is required to external Garage wall External Colour: Medium (0.475 < SA < 0.7)

Walls within dwellings

Single skin brick, no insulation between habitable rooms Plasterboard on stud, no insulation required

R2.0 insulation only required to walls between garage and foyer. Glazing Doors/Windows

Glazed windows and doors:

Group A – awning/bifold/casement windows/hinged glazed doors U-value: 4.30 (equal to or lower than) SHGC: 0.47 (±10%) Group B – sliding doors/windows/fixed glazing/louvred windows
U-value: 4.30 (equal to or lower than) SHGC: 0.47 (£10%)
Given values are AFRC total window system values (glass and frame)
Skylights
U-value: 4.2 and SHGC: 0.72

Roof and Ceilings Concrete roof, with R1.8 insulation (insulation only value) where habitable rooms below

Plasterboard ceiling, no insulation required No insulation to garage where roof above. External Colour: Medium (0.475 < SA < 0.7)

Ceiling Penetrations

No downlights modelled

Sealed exhaust fans: ceiling penetration 250mm diameter with 50mm clearance

Once lighting plan has been developed NatHERS certificate can be updated to improve specification.

Floor coverings

Exposed concrete to garage, tiles to wet areas, carpet with rubber underlay to bedrooms and timber

External Shading Shading as per stamped drawings

All external doors have weather seals, all exhaust fans and chimneys have dampers, and down lights proposed will have

BASIX Water Commitments

Install showerheads minimum rating of 4 stars – High flow (> 6 and <= 7.5 litres/min)

Install toilet flushing system with a minimum rating of 4 stars in each toilet

Install tap with a minimum rating of 6 stars in the kitchen Install taps with a minimum rating of 6 stars in each bathroom

Alternative water

Install rainwater tank, minimum 5,000L capacity collected from min. 212m $\mbox{\sc c}$ roof area. Tank connected to – at least one outdoor tap, and toilets

Maximum 42.6 kL outdoor pool

BASIX Energy Commitments

Electric Heat Pump – performance not specified

Cooling system

3-phase air-conditioning to living areas and bedrooms: EER 3.0-3.5

Heating system

Ground source heat pump (direct exchange): EER < 2.5

Bathrooms – individual fan, externally ducted to roof or façade, manual on/off switch

Kitchen – individual fan, externally ducted to roof or façade, manual on/off switch

Laundry - individual fan, externally ducted to roof or façade,

manual on/off switch

Heating system - Solar (electric boosted)

Other

Induction cooktop & electric oven

Outdoor clothes drying line

Alternative energy 3.0kW solar Photovoltaic system

drawing list

No.	Drawing Name	Rev.
DA00	Cover Sheet	В
DA01	Site Analysis Plan	В
DA02	Excavation and Fill Plan	В
DA03	Roof & Site Plan	В
DA04	Level 1 Plan	В
DA05	Level 2 Plan	В
DA06	Level 3 Plan	В
DA07	Level 4 Plan	В
DA08	Level 5 Plan	В
DA09	North Elevation	В
DA10	East Elevation	В
DA11	South Elevation	В
DA12	West, North (Boatshed) & South (Boatshed) Elevations	В
DA13	Section AA	В
DA14	Section AA Boatshed	В
DA15	Section BB & CC	В
DA16	Section DD & EE	Α
DA17	Area Calculations	В
DA18	Building Envelope Analysis	В
DA19	Building Height Analysis	В
DA20	Shadow Diagram 9am	В
DA21	Shadow Diagram 12pm	В
DA22	Shadow Diagram 3pm	В
DA23	Sun Path Diagram 9am	В
DA24	Sun Path Diagram 12pm	В
DA25	Sun Path Diagram 3pm	В
DA26	Finishes	В
DA27	Perspectives	В



rev	date	description
Α	12/12/22	DA Issue
В	6/2/23	DA Re-Issue

Development Application

MacDiarmid House Avalon at

24 Cabarita Road, Avalon

Bruce & Libby MacDiarmid

١	CORBEN	job no.	MACA	dwg no.
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	PO Box 1021 Neutral Bay NSW 2089 Australia 02 9904 1844 mail@corben.com.au	checked	МС	revision
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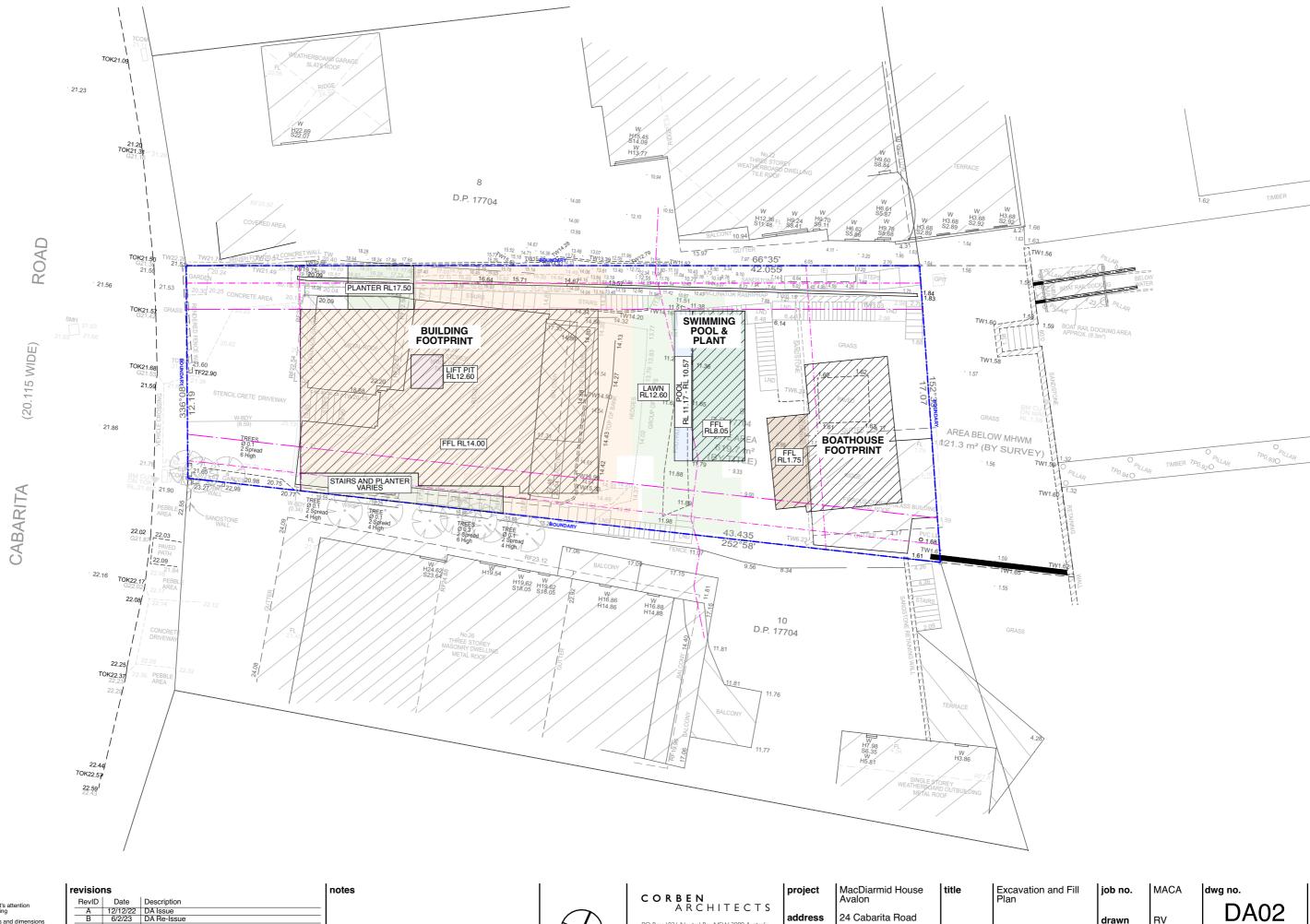
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project	Avalon
address	24 Cabarita Road
	Avalon NSW
client	Bruce & Libby

Site Analysis Plan	job no.	MACA	dwg
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Development Application	scale	1:200	



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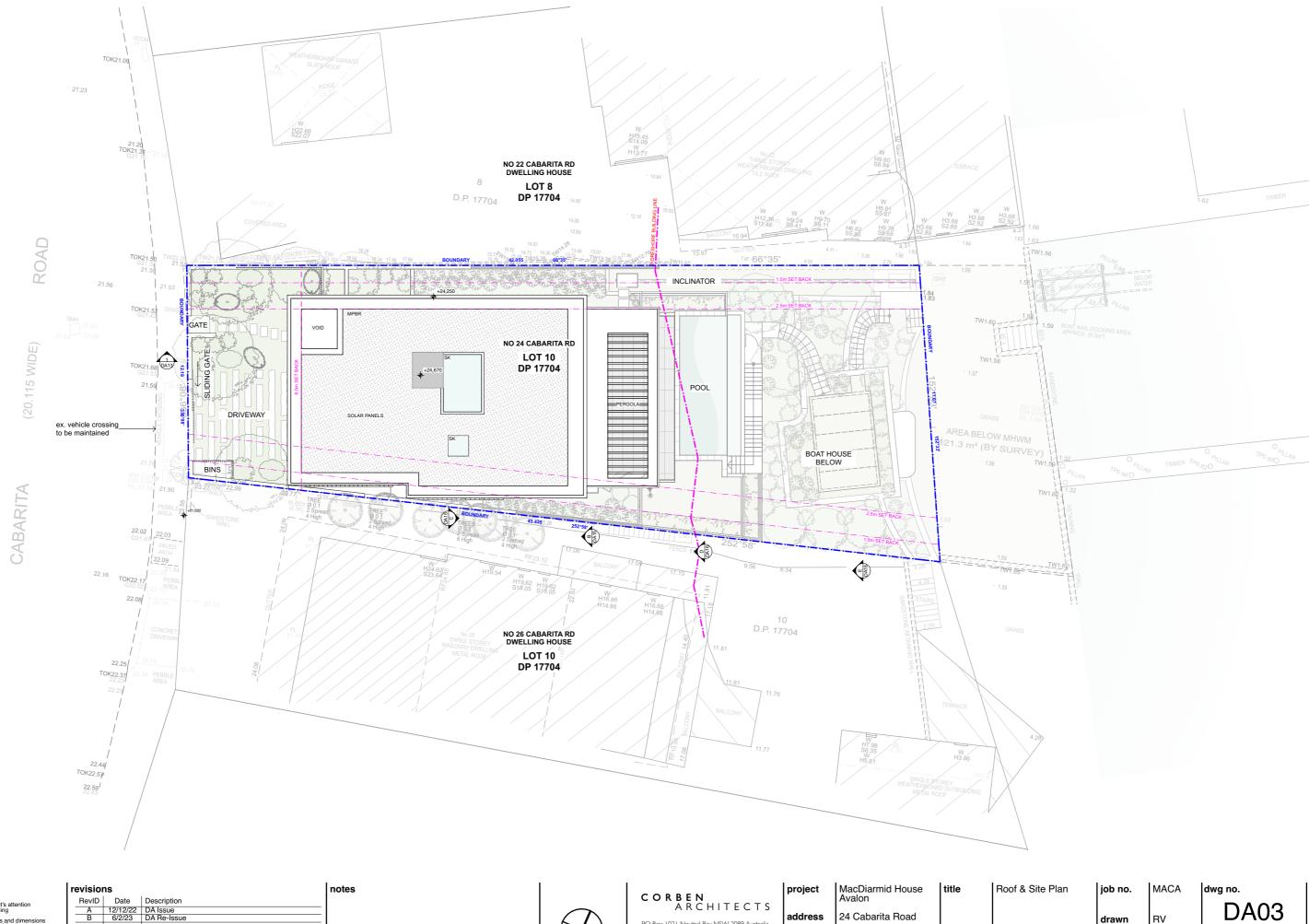
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24 Cabarita Road address Avalon NSW Bruce & Libby MacDiarmid

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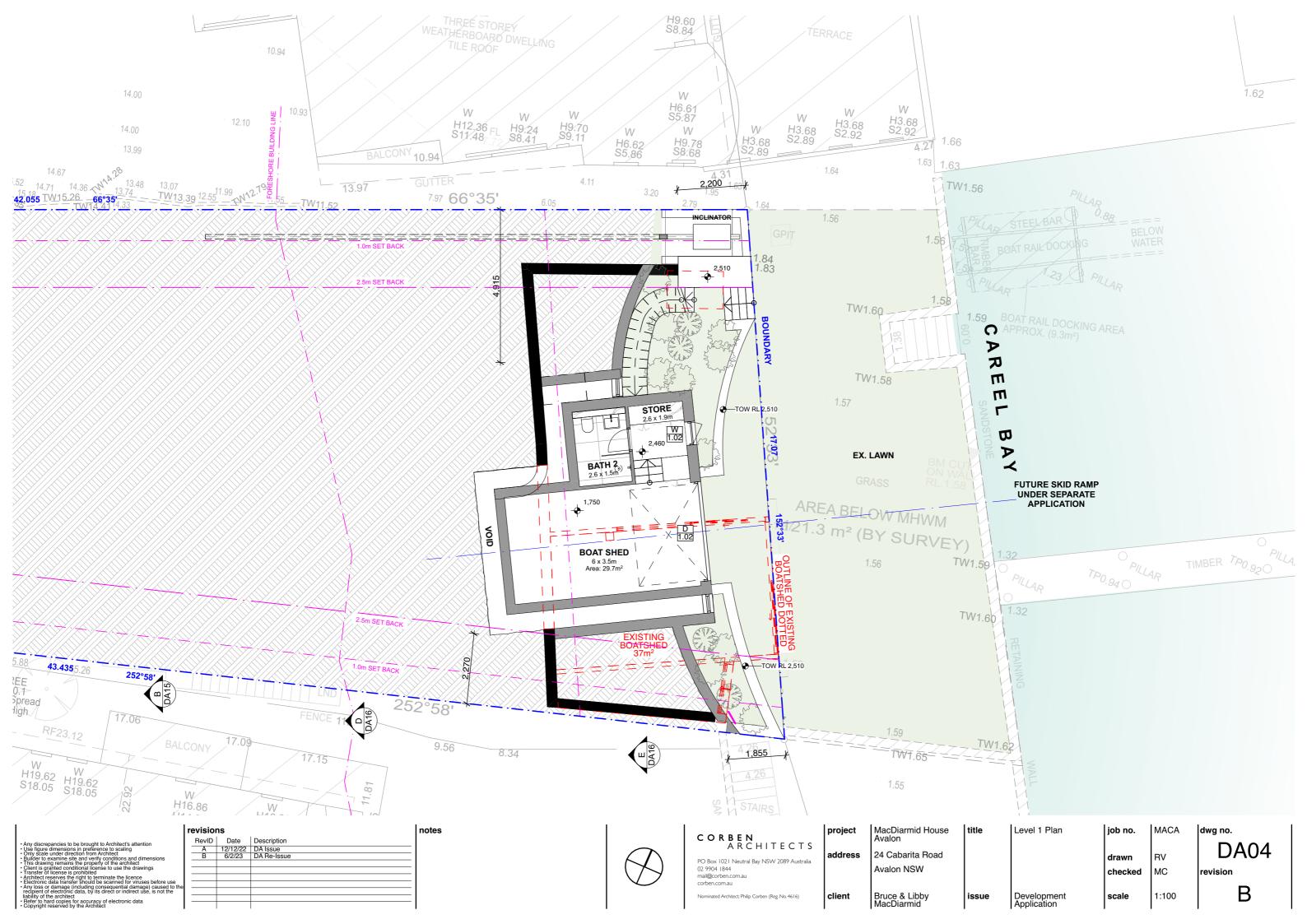
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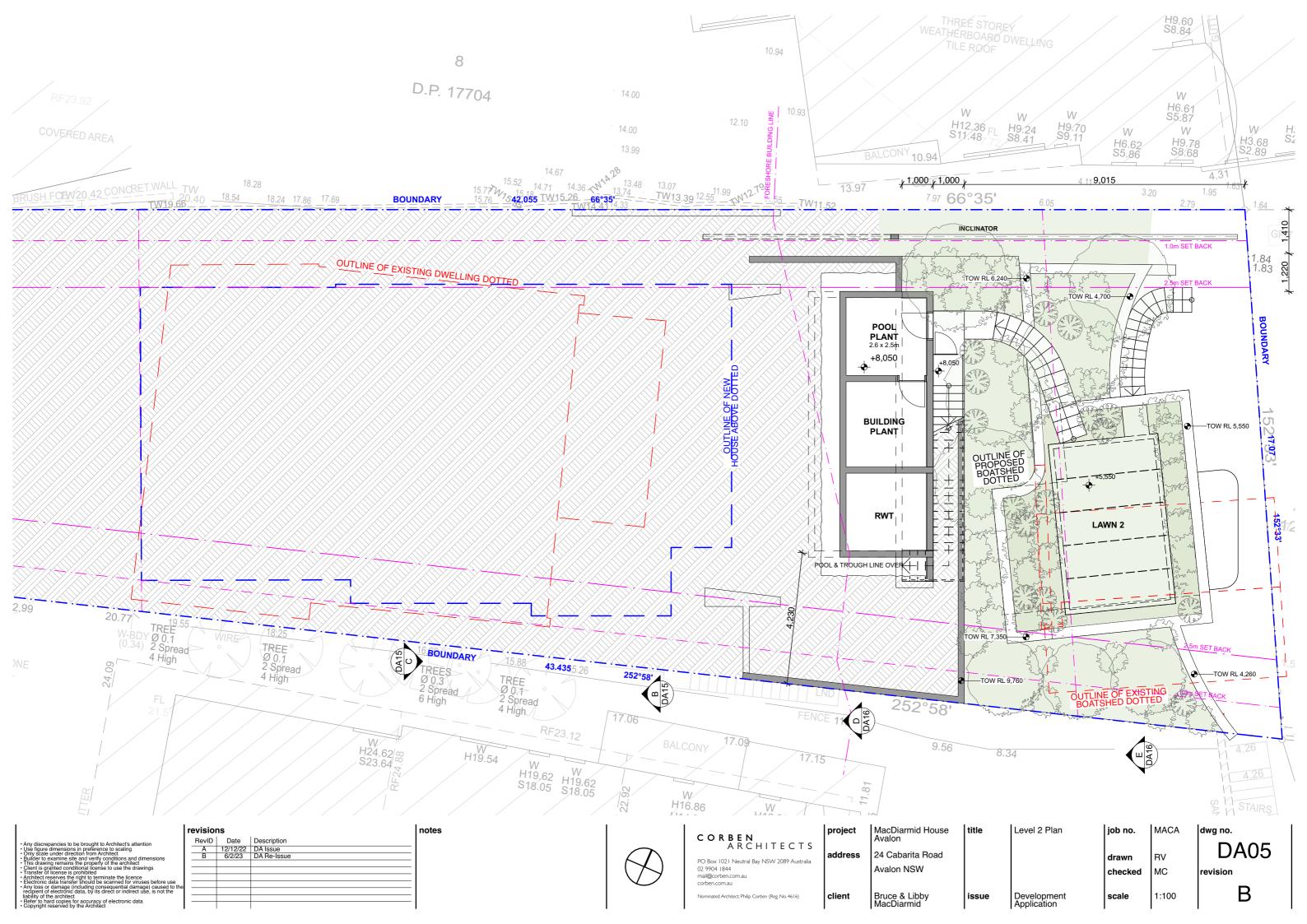
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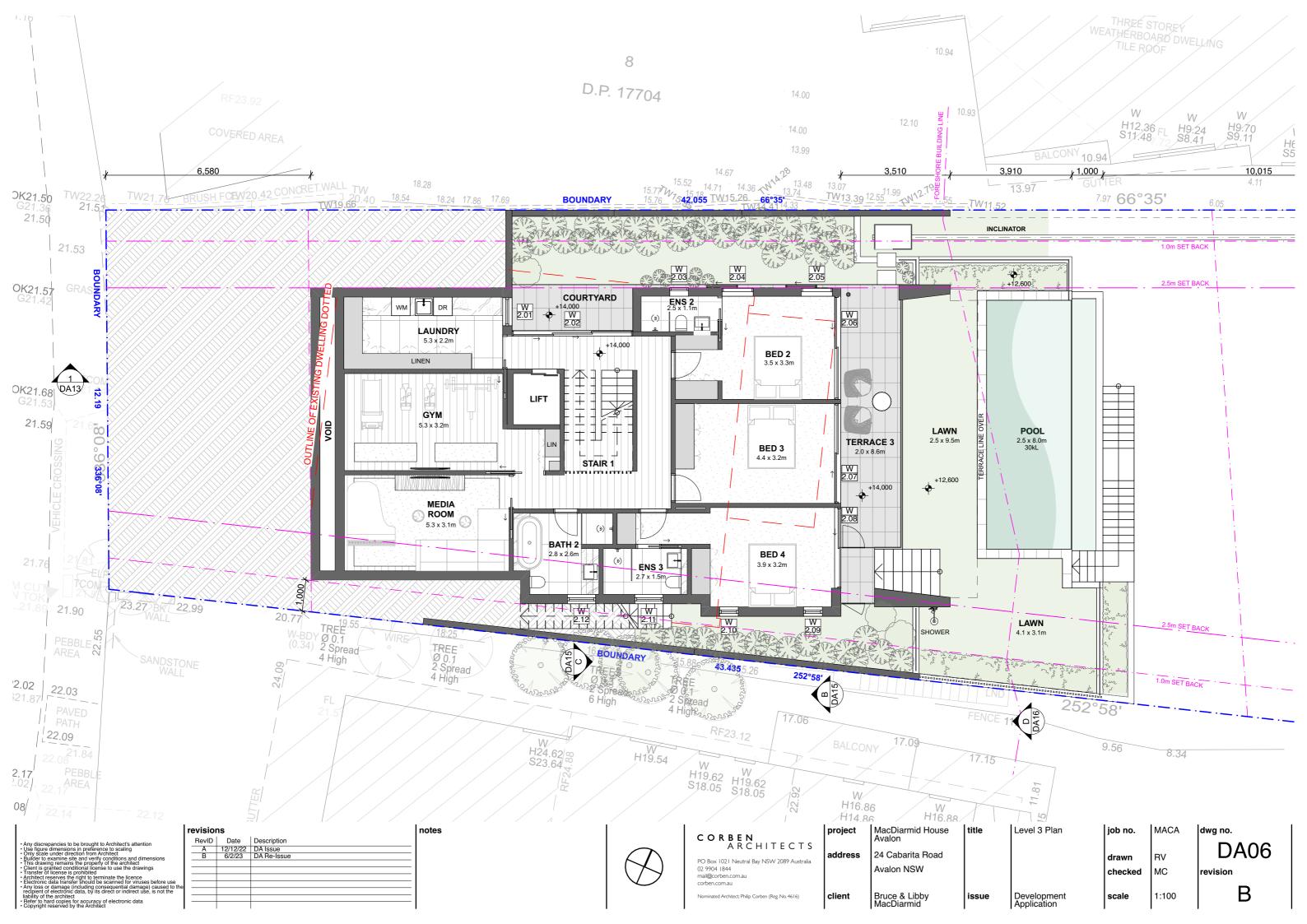
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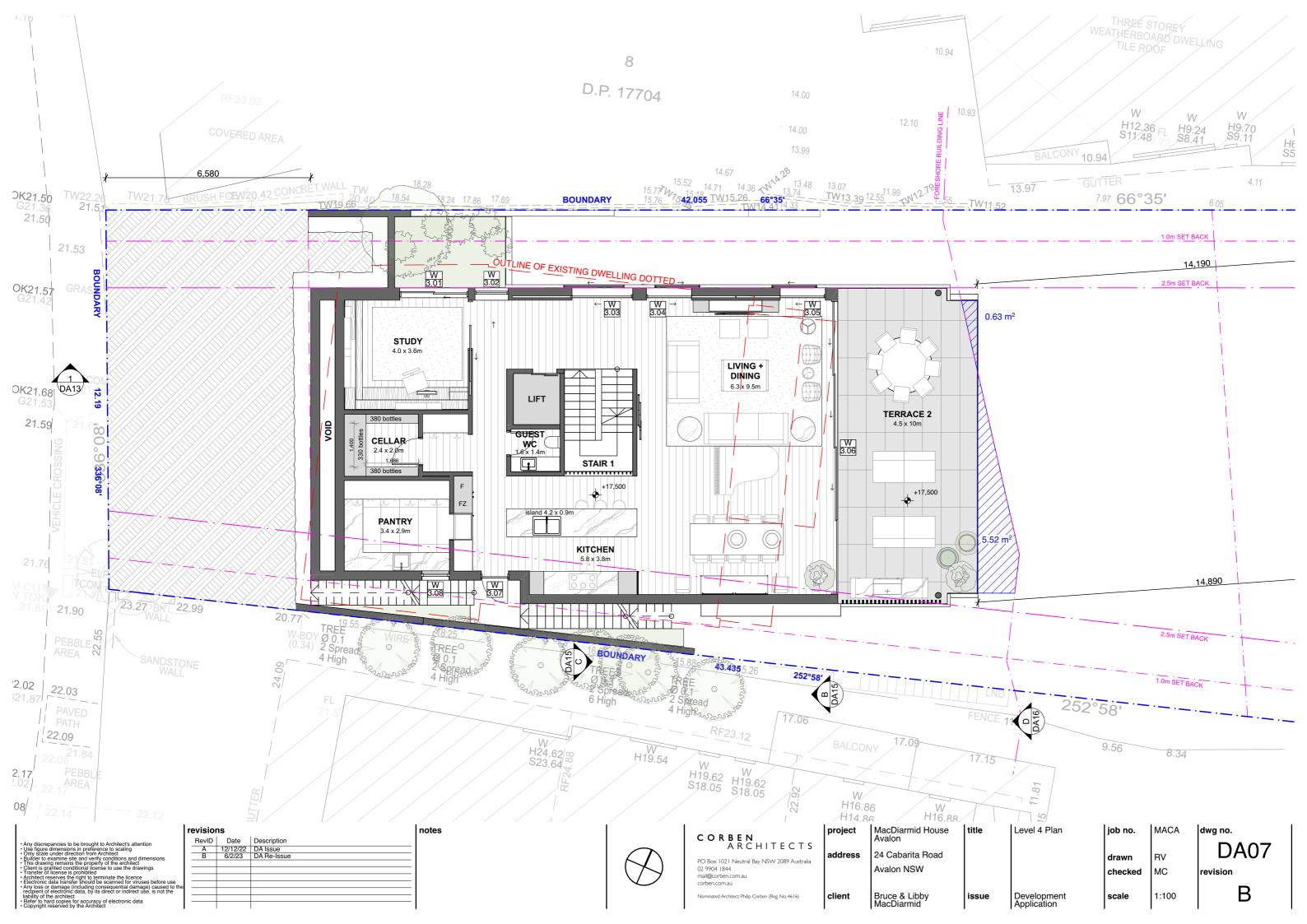
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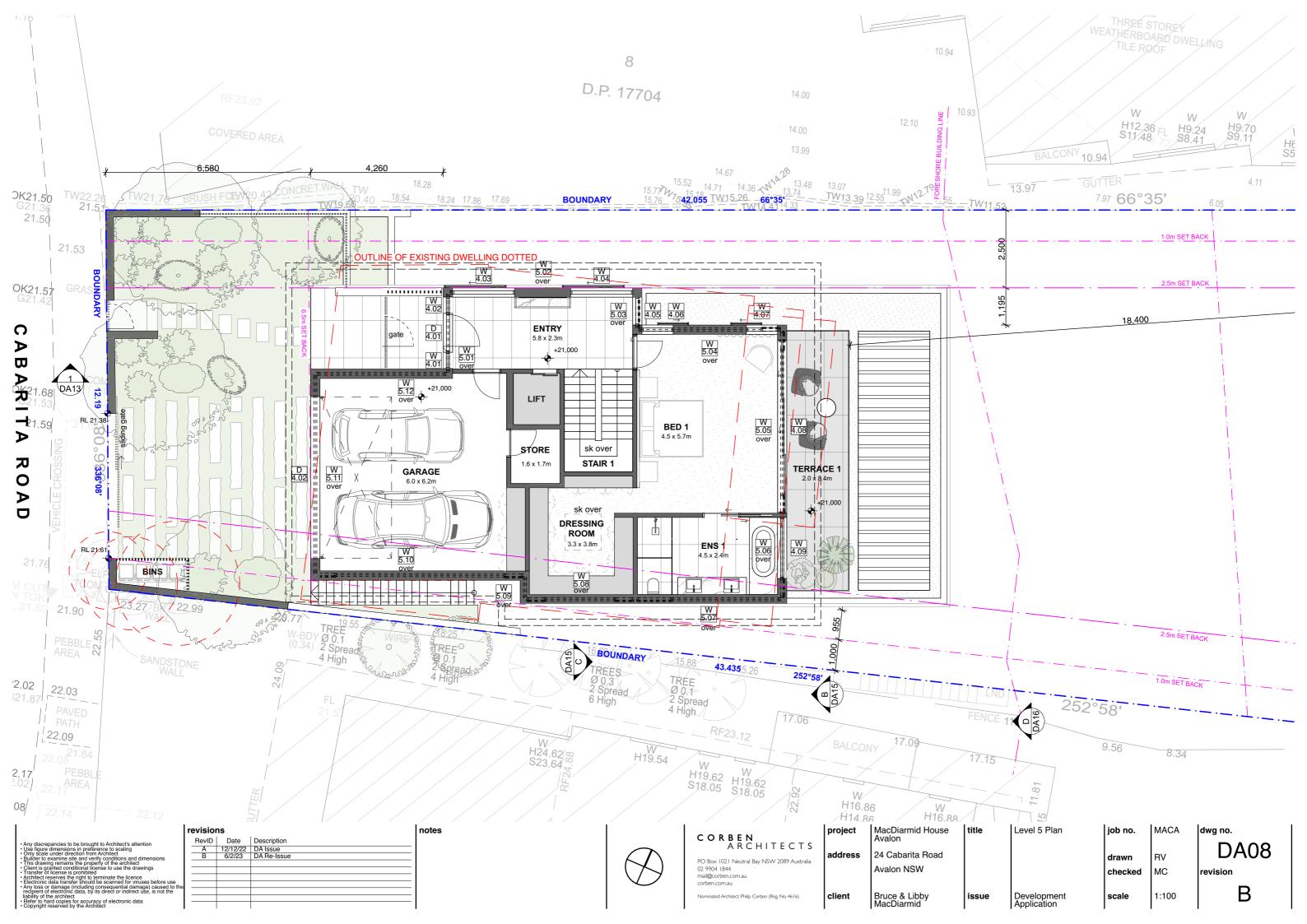
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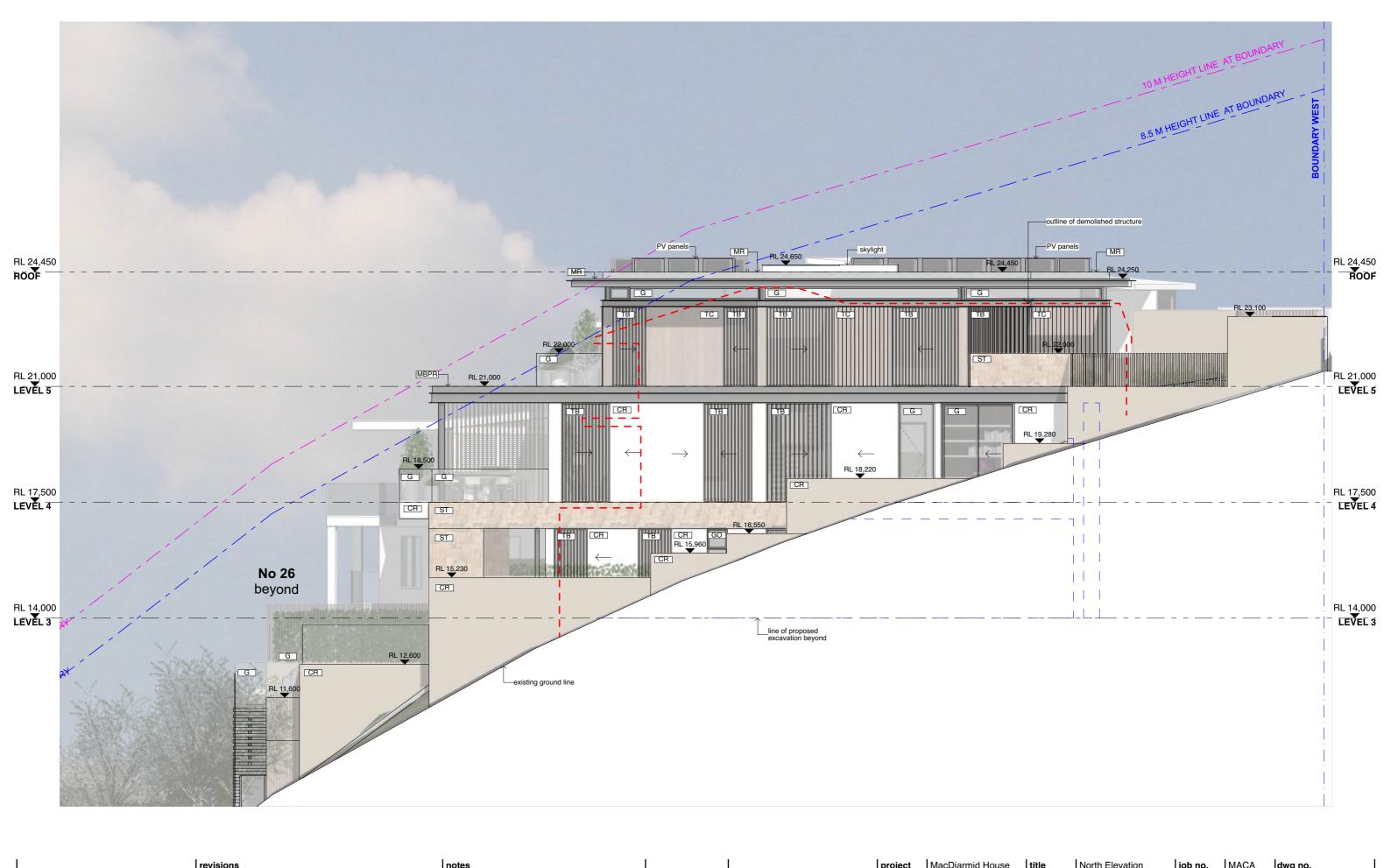




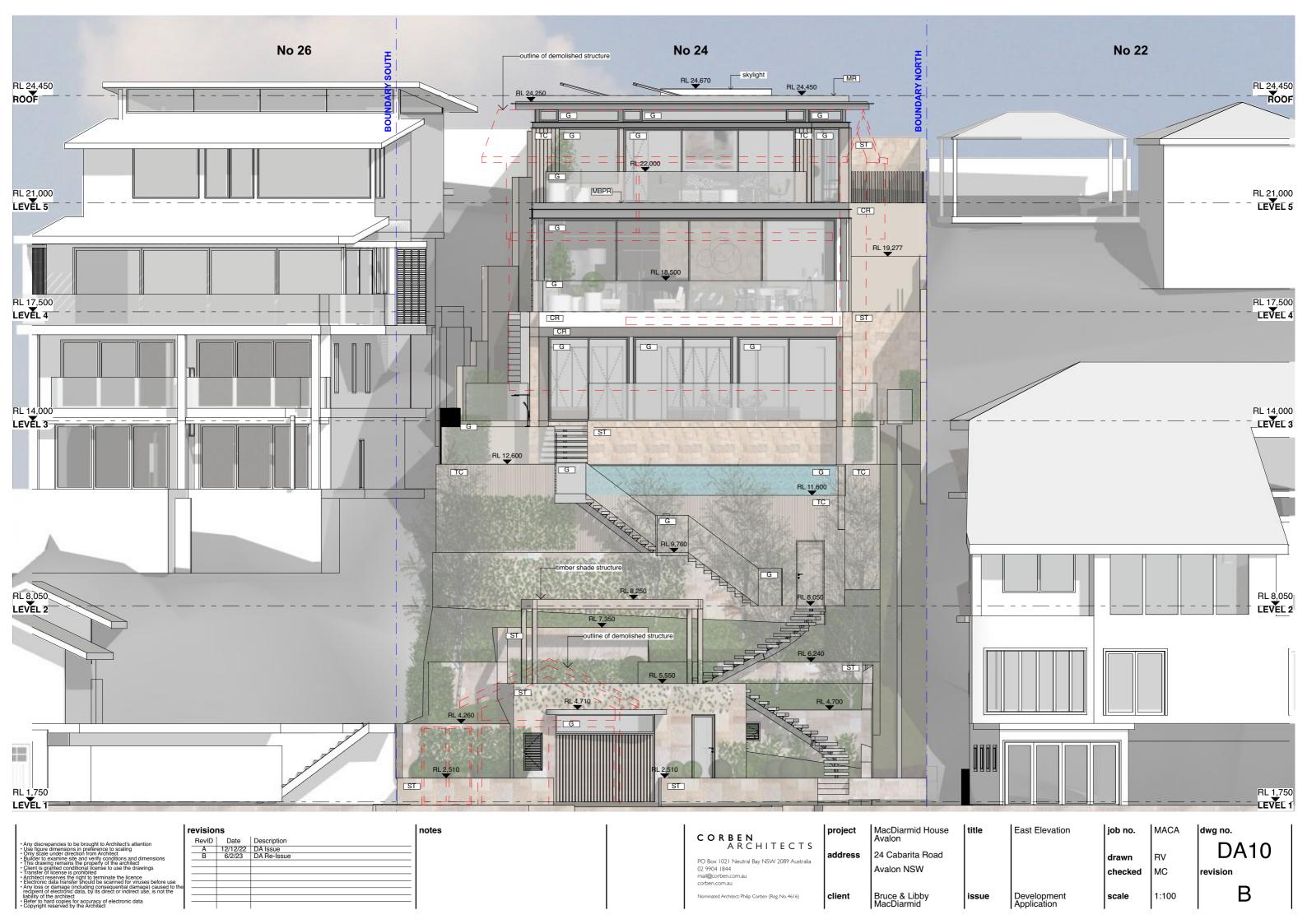


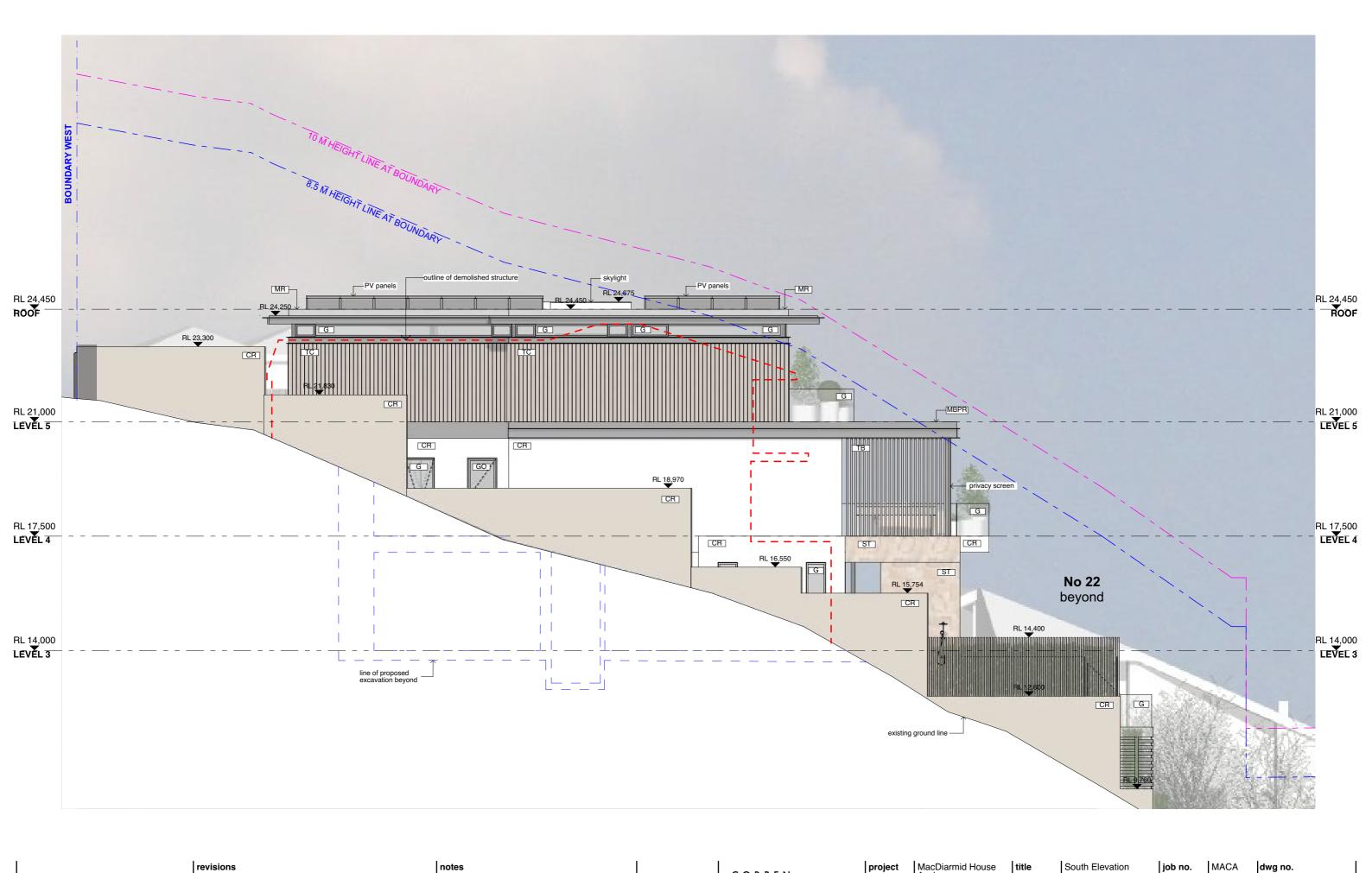






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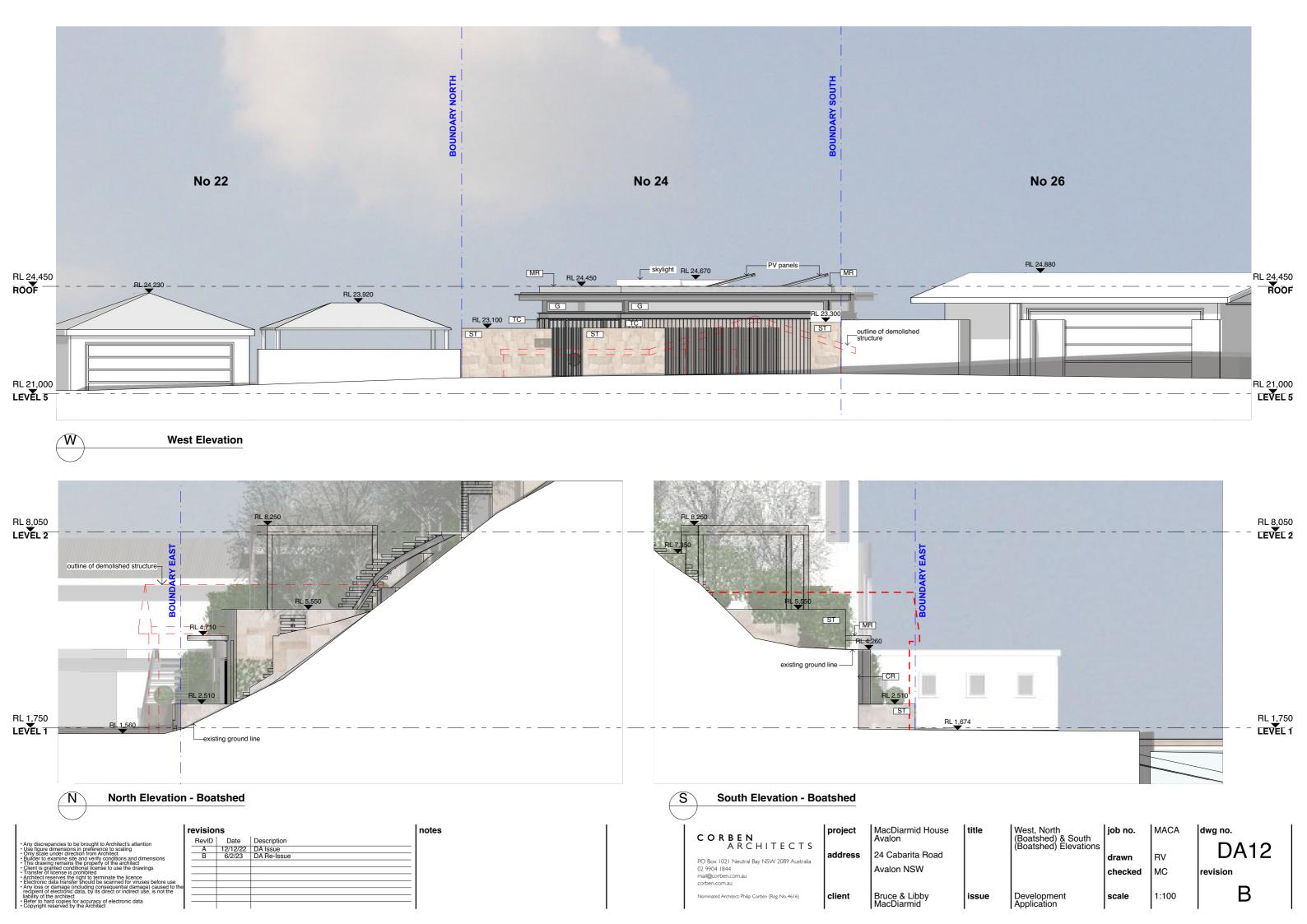


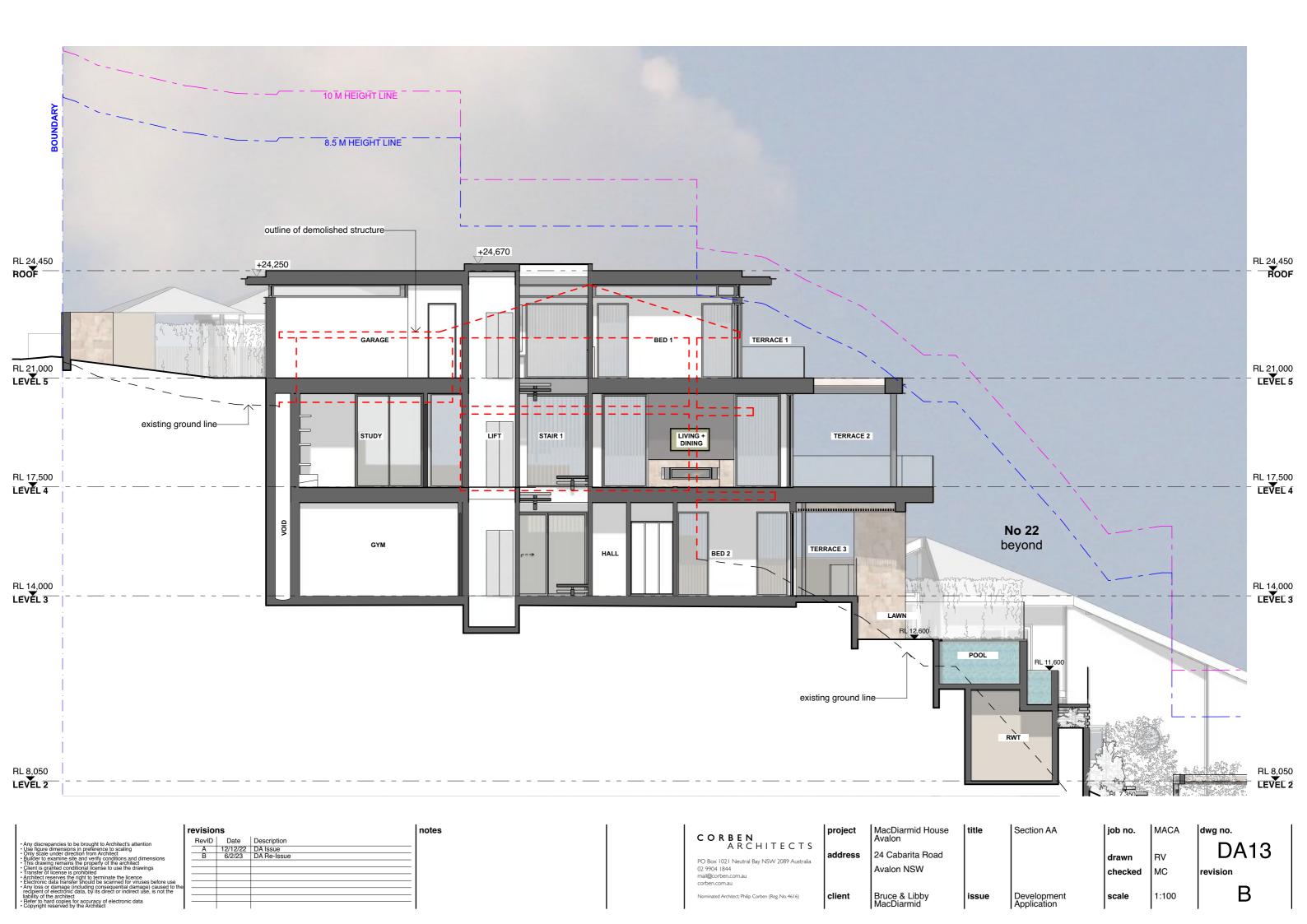
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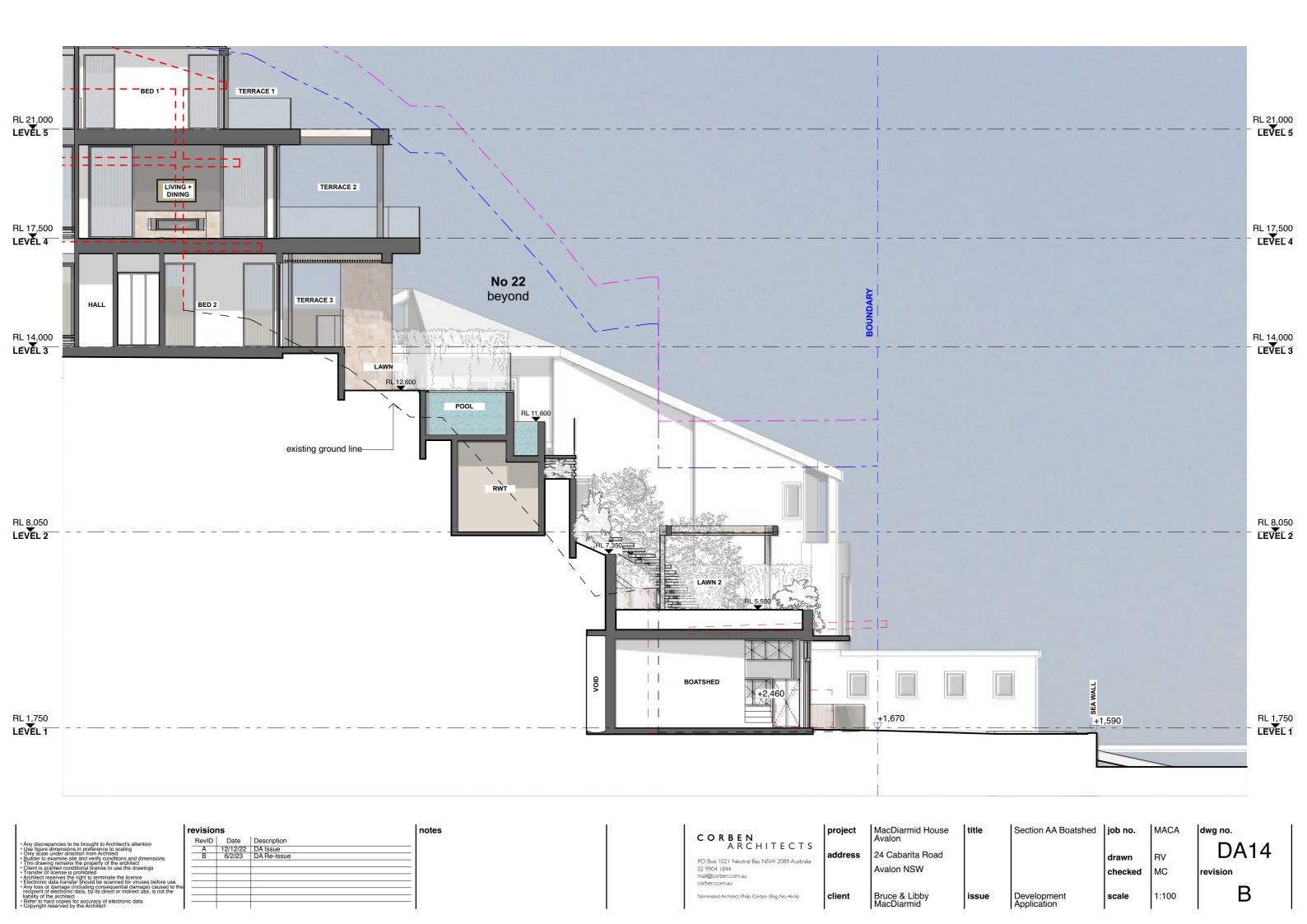
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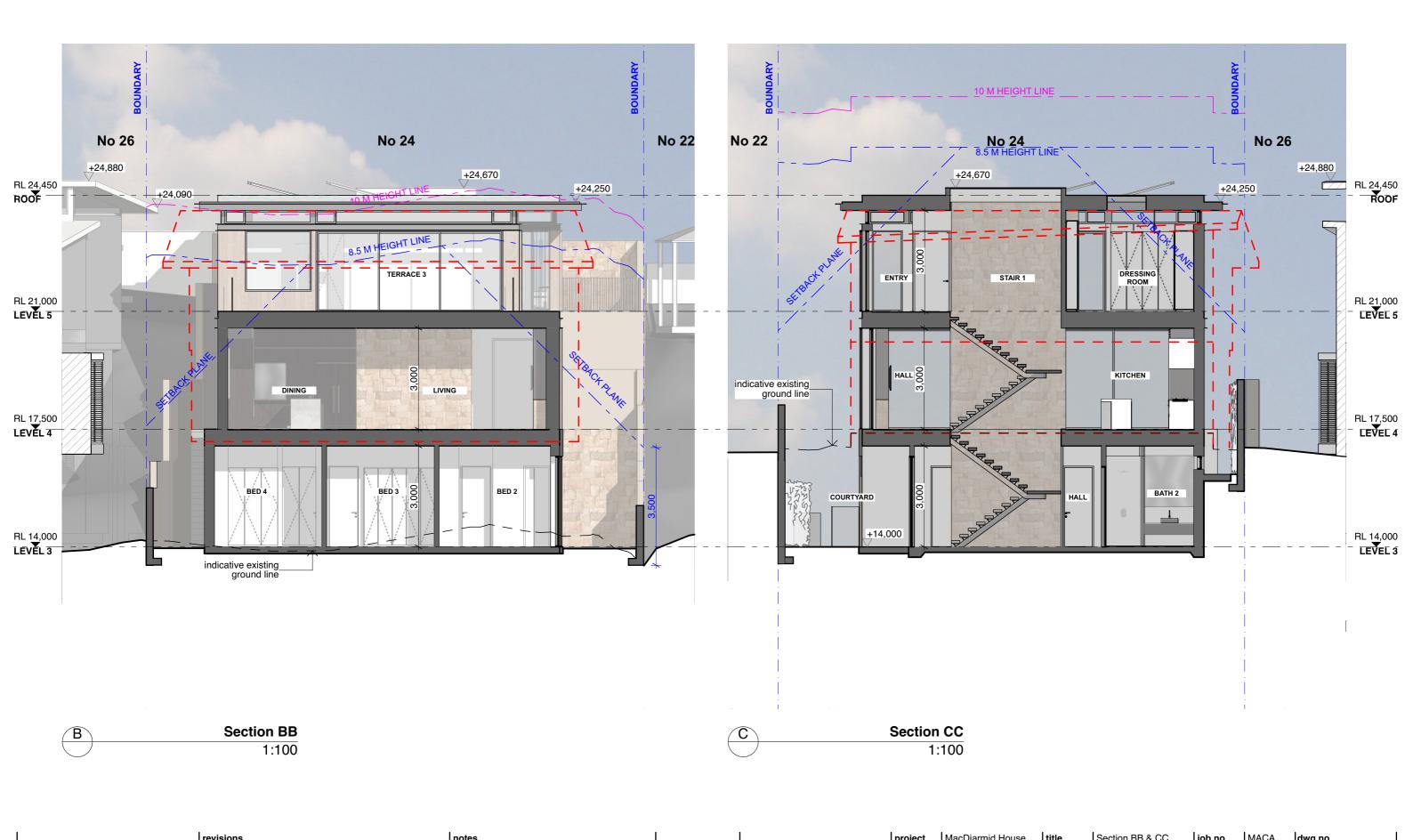
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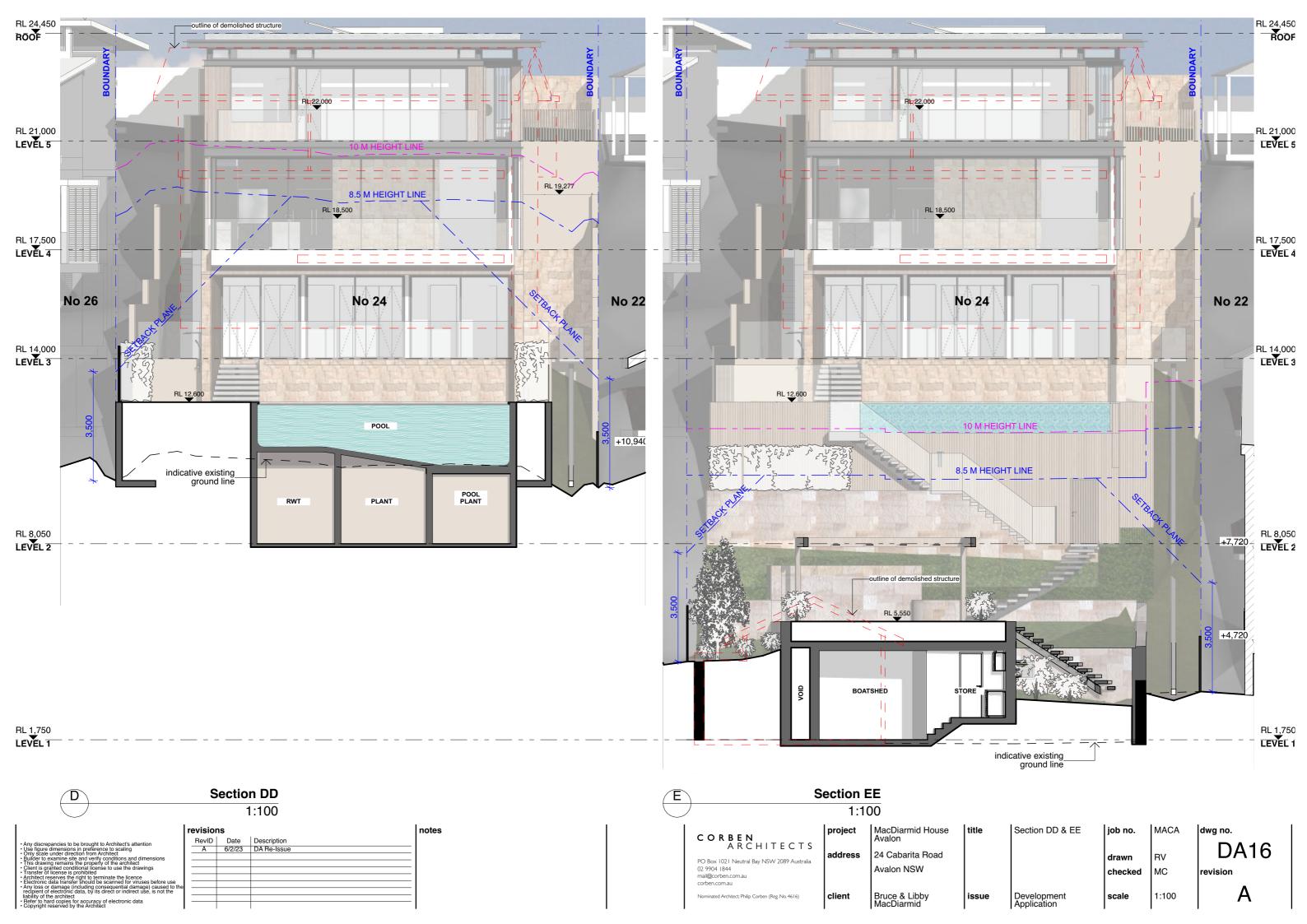






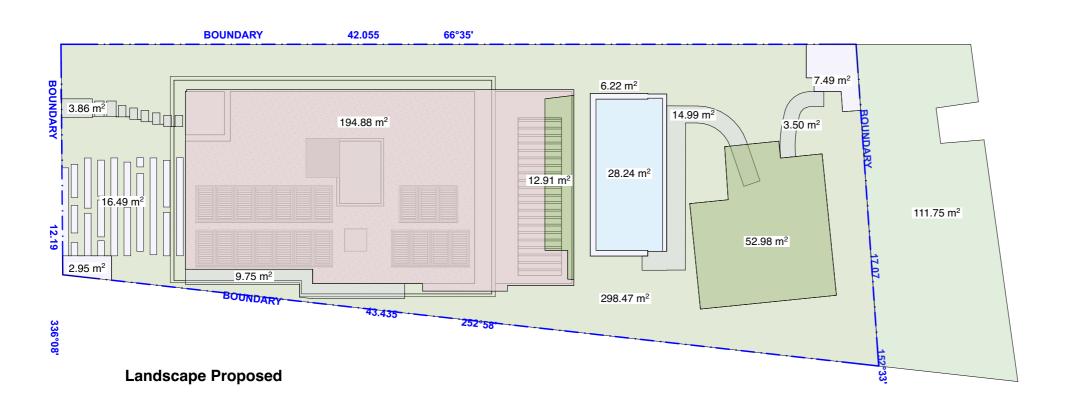
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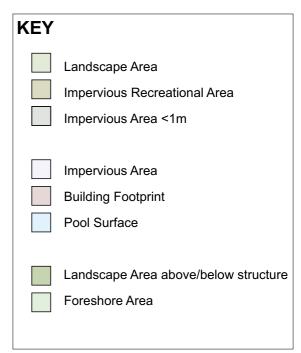




Landscape Existing



CALCULATIONS 619.7 m² Site Area Foreshore Area 111.8 m² LANDSCAPE AREA Required (minimum) $371.8 \, m^2$ 60% $300.5 \; m^2$ Existing 48% 298.5 m² Proposed 48% LANDSCAPE AREA INCLUSIONS Permissible Impervious Rec. Area 37.2 m² 6% Existing 7.6 m^2 1% 0 m² Proposed 0% Impervious areas <1m width no maximum control Existing 39.1 m² 6% Proposed 32.1 m² 5% ADDITIONAL LANDSCAPING (NOT INCLUDED ABOVE) Landscape area above/below structure (300mm soil depth min) Existing 0 m^2 Proposed 65.9 m² 11% 111.8 m² Landscaped foreshore area TOTAL LANDSCAPING 412.3 m² 56% Existing Proposed 476.2m² 65%



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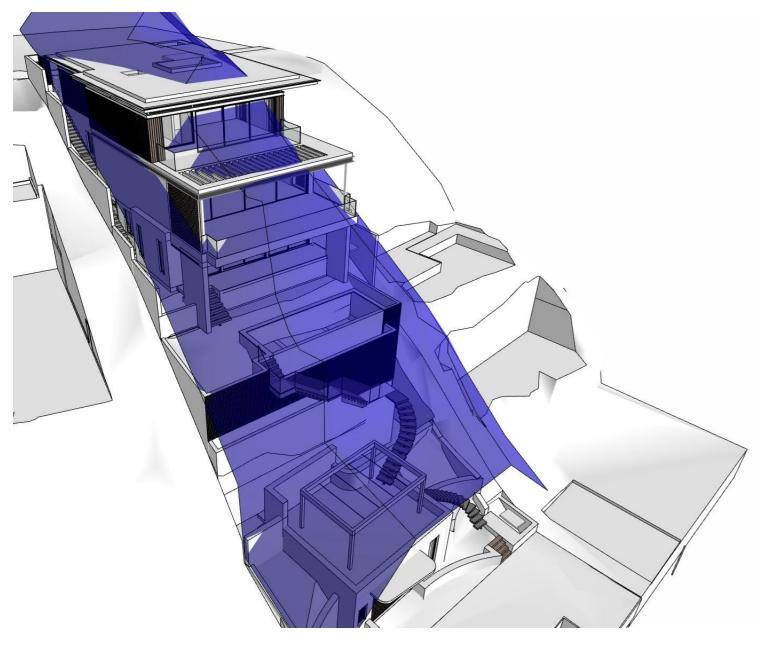
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address	24 Cabarita Road
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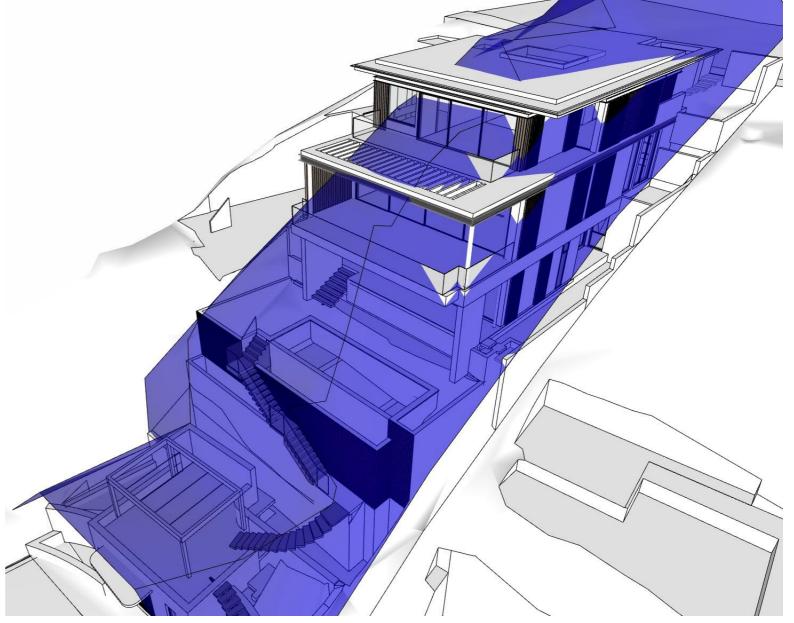
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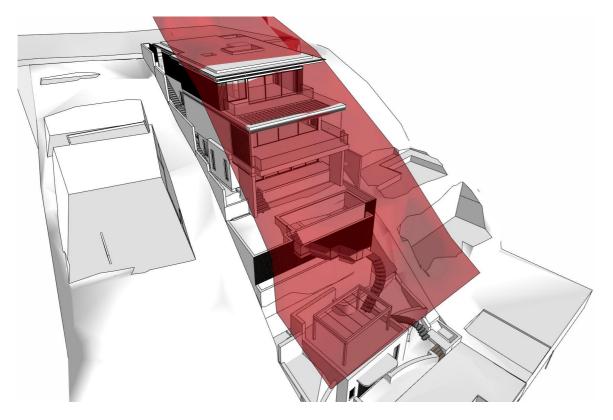
project	MacDiarmid House Avalon
address	24 Cabarita Road
	Avalon NSW

Building Envelope Analysis

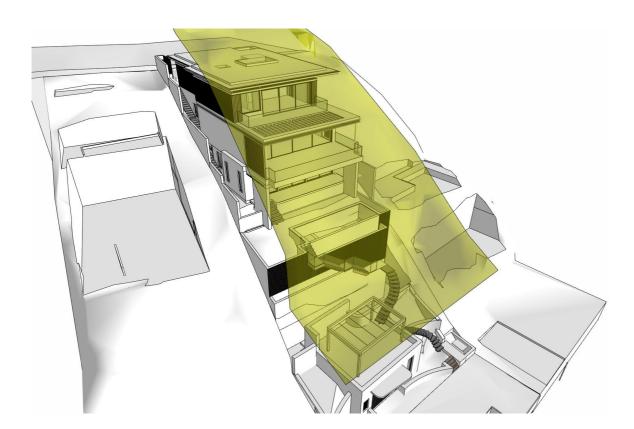
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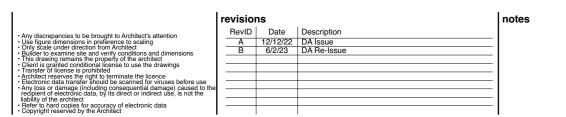
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8.5m Building Height



10m Building Height



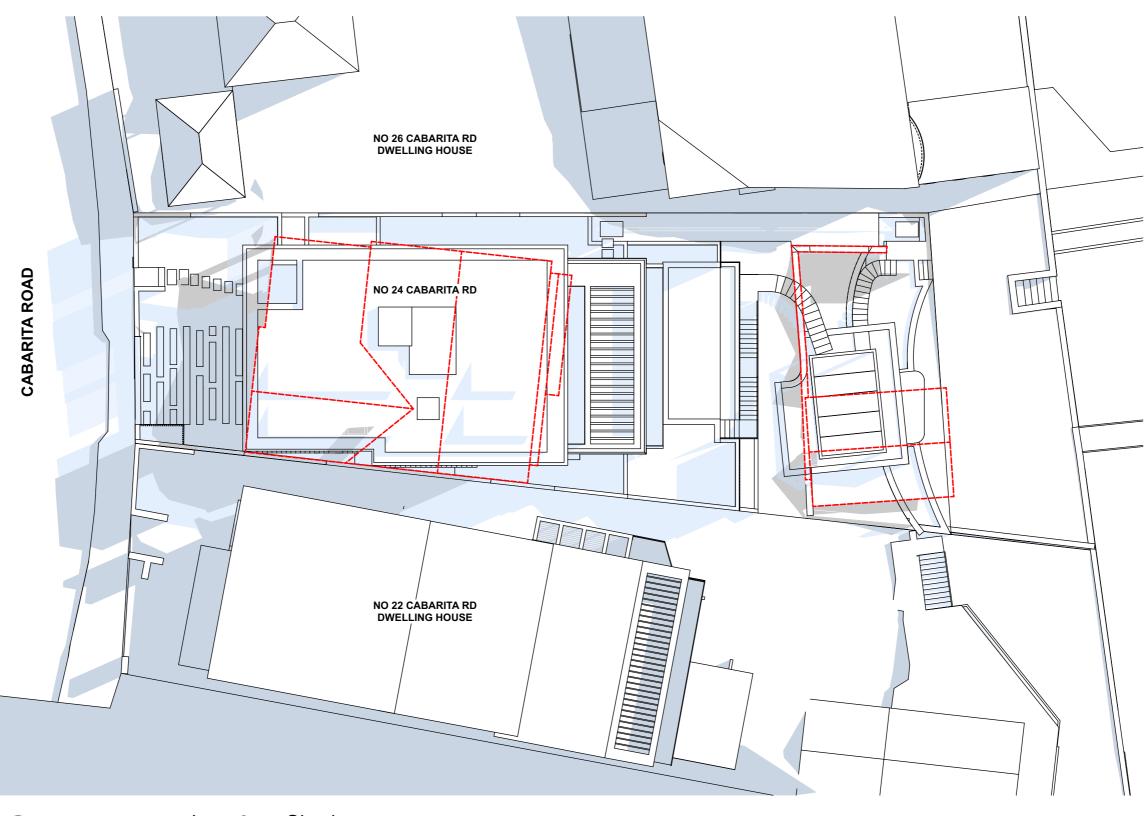


8.5m Building Height



10m Building Height

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Nominated Architect: Philip Corben (Reg. No. 4616)	client	Bruce & Libby MacDiarmid	issue	Development Application	scale	1:400	B



revisions

June 9am Shadows

notes

KEY EXISTING SHADOW PROPOSED SHADOW

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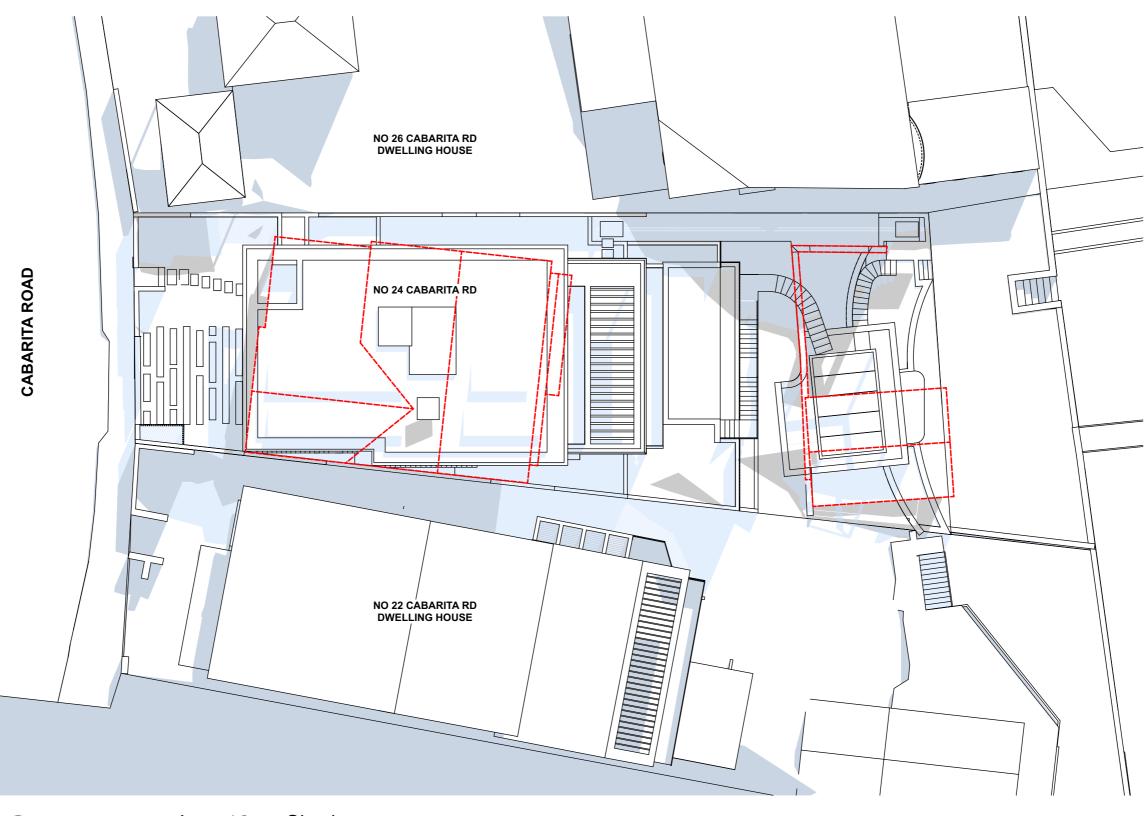
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project	Avalon
address	24 Cabarita Road
	Avalon NSW
client	Bruce & Libby

Shadow Diagram 9am

agram 9am	job no.	MACA	dwg no.
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June 12pm Shadows

EXISTING SHADOW
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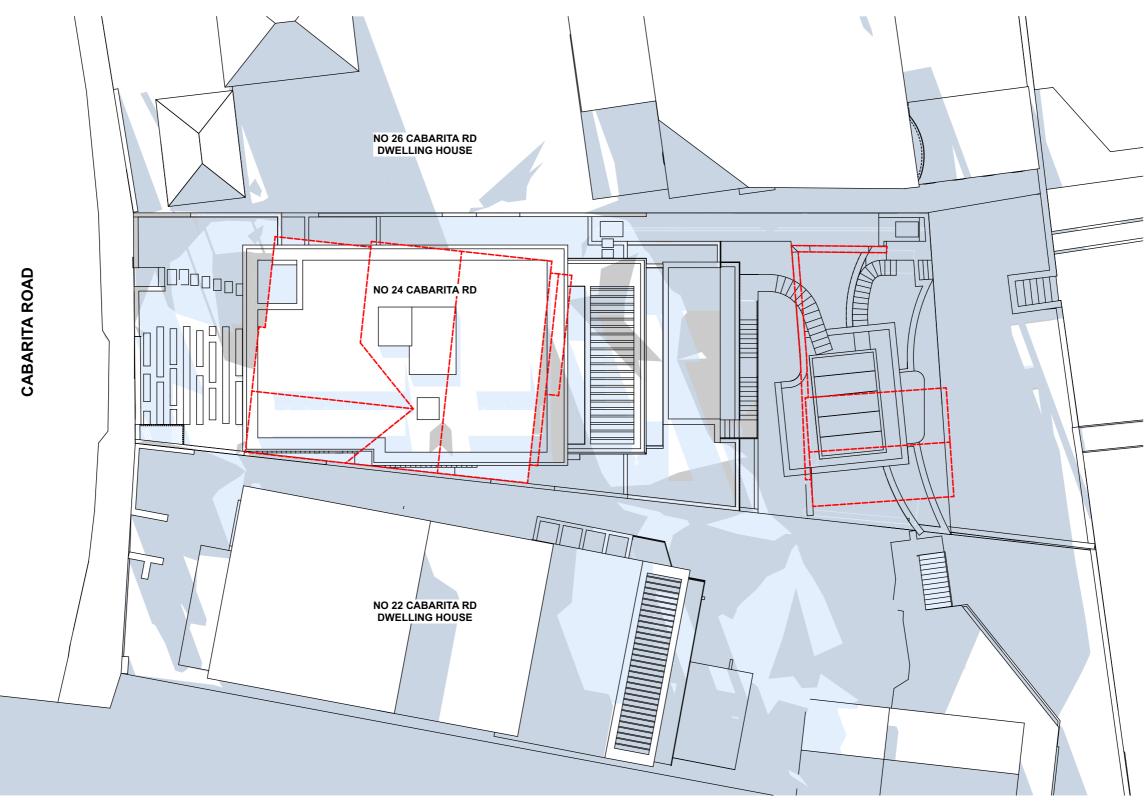
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	Avalon NSW
client	Bruce & Libby MacDiarmid

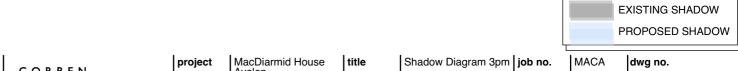
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June 3pm Shadows

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	Avalon NSW
client	Bruce & Libby
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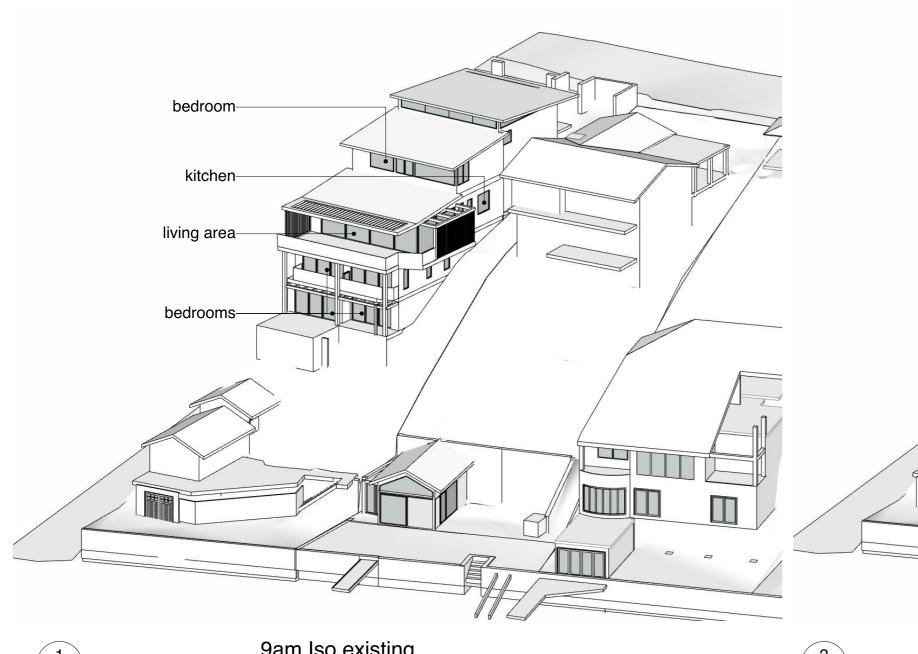
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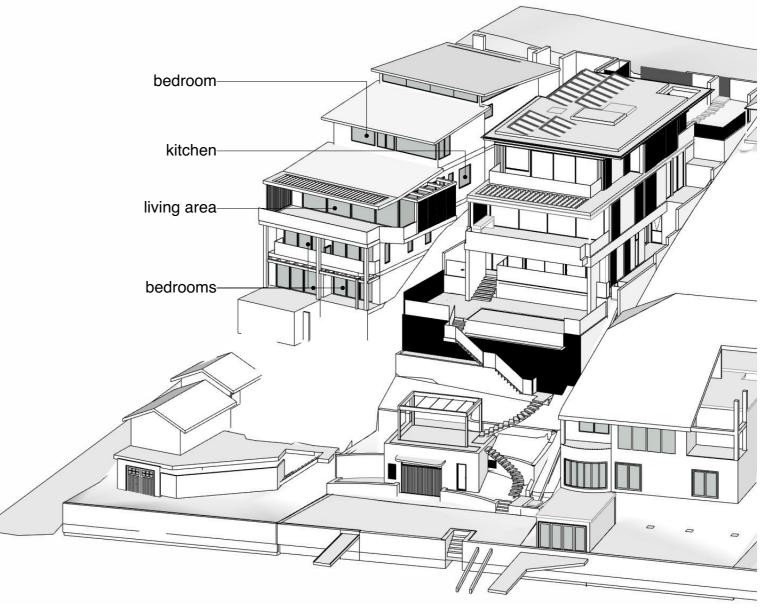
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DA22 revision В

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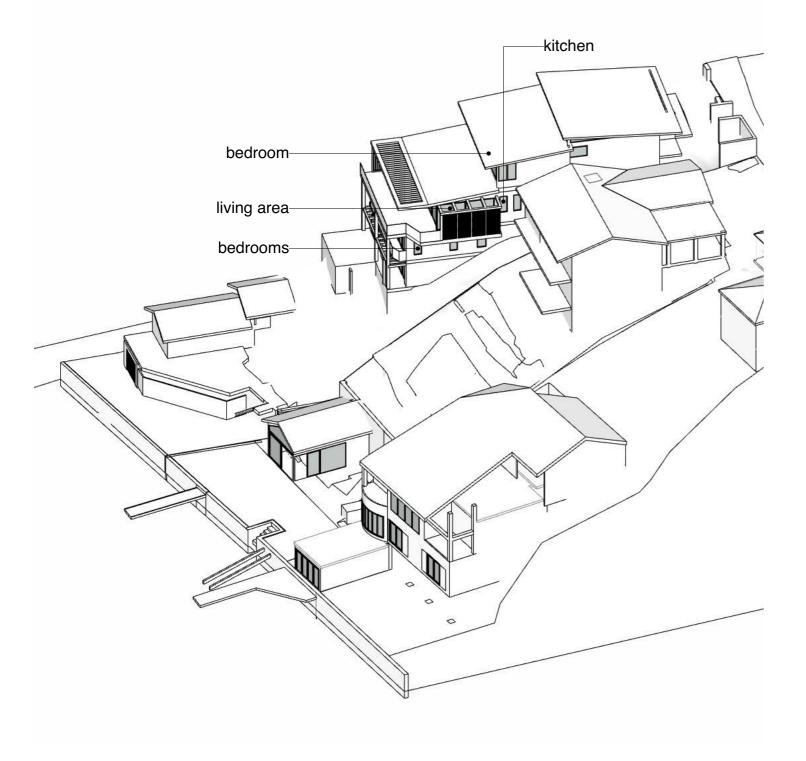
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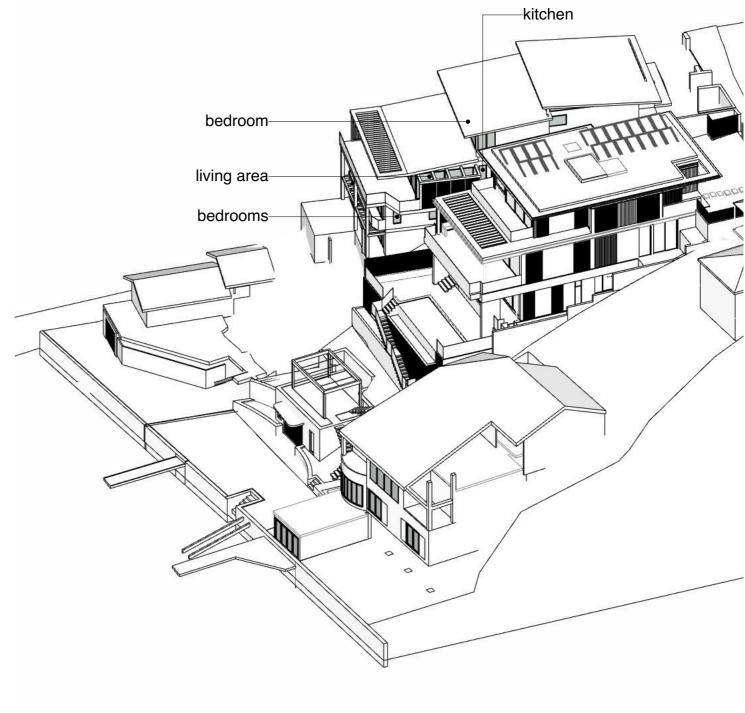


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project	MacDiarmid House Avalon
address	24 Cabarita Road Avalon NSW
client	Bruce & Libby MacDiarmid

dwg no.	MACA	job no.	Sun Path Diagram	
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revision	MC	checked		
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12pm Iso Existing

12pm Iso Proposed

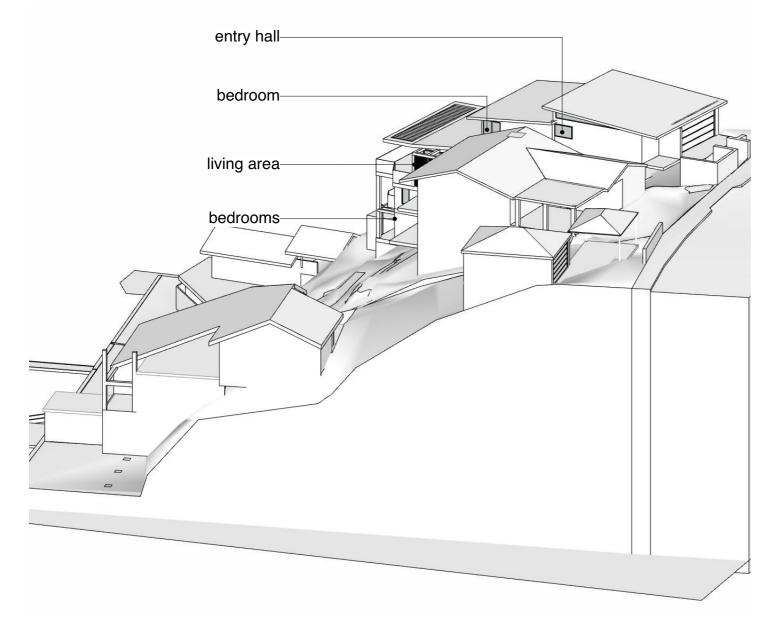
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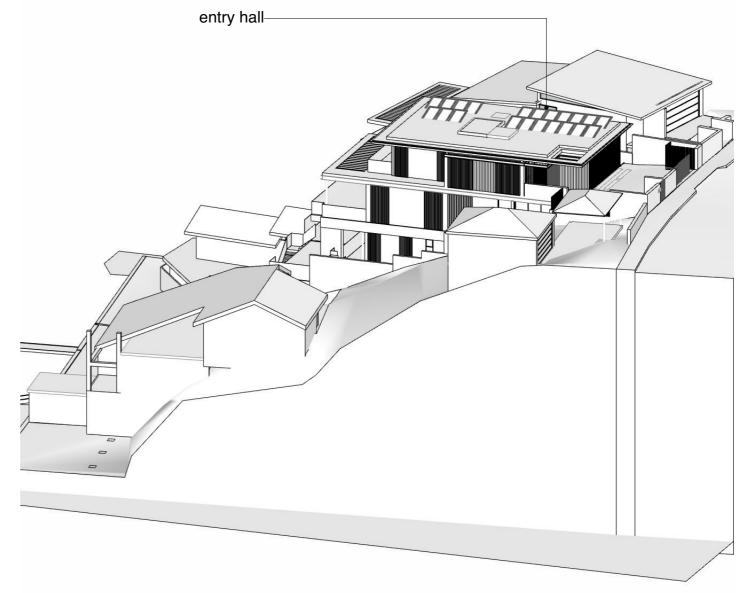


C O R B E N A R C H I T E C T S	
PO Box 1021 Neutral Bay NSW 2089 Australia 02 9904 1844 mail@corben.com.au corben.com.au	
N. C. LA LO LEUT C. L. (D. N. 4710)	

project	MacDiarmid House Avalon
address	24 Cabarita Road Avalon NSW
client	Bruce & Libby MacDiarmid

Sun Path Diagram 12pm	job no.	MACA	dv
	drawn	RV	
	checked	MC	re
Davalanment		1.000	





3pm Iso Existing

notes

3pm Iso Proposed



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MacDiarmid House Avalon project 24 Cabarita Road Avalon NSW

Sun Path Diagram 3pm MACA job no. RV drawn МС checked 1:250

dwg no. DA25 revision В











notes





- steel frame slim line roof edge
- white render timber battens / sandstone
- steel frame painted dark
- timer look battens / cladding
- dark aluminium framed windows and doors

revisions

- sandstone against dark steel frame white render / timber battens / steel frame
- paving inlay to landscape area
- 10 pebble ballast roof

- Any discrepancies to be brought to Architect's attention
 Use figure dimensions in preference to scaling
 Only Scale under direction from Architect
 Builder to examine site and verify conditions and dimensions
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- RevID
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 A
 12/12/22
 DA Issue

 B
 6/2/23
 DA Re-Issue

C O R B E N A R C H I T E C T S

PO Box 1021 Neutral Bay NSW 2089 Australia 02 9904 1844 mail@corben.com.au corben.com.au

project address

MacDiarmid House Avalon

Avalon NSW

24 Cabarita Road

title

10

Finishes

MACA job no. RV drawn МС

dwg no. DA26

client

Bruce & Libby MacDiarmid

issue

Development Application

checked scale

revision В



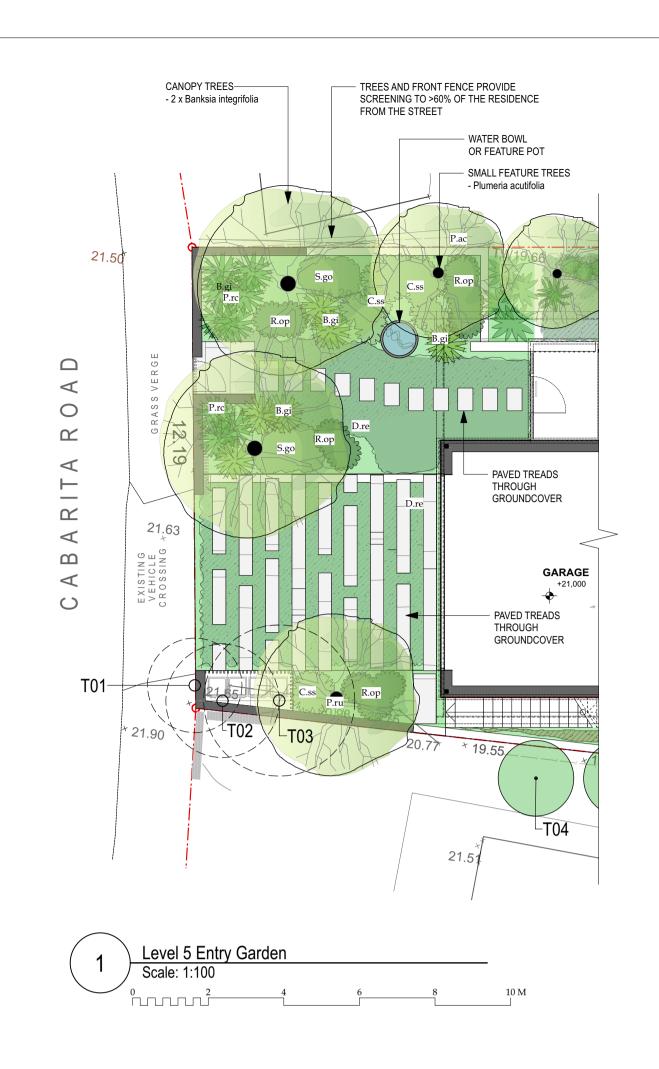
View from Careel Bay

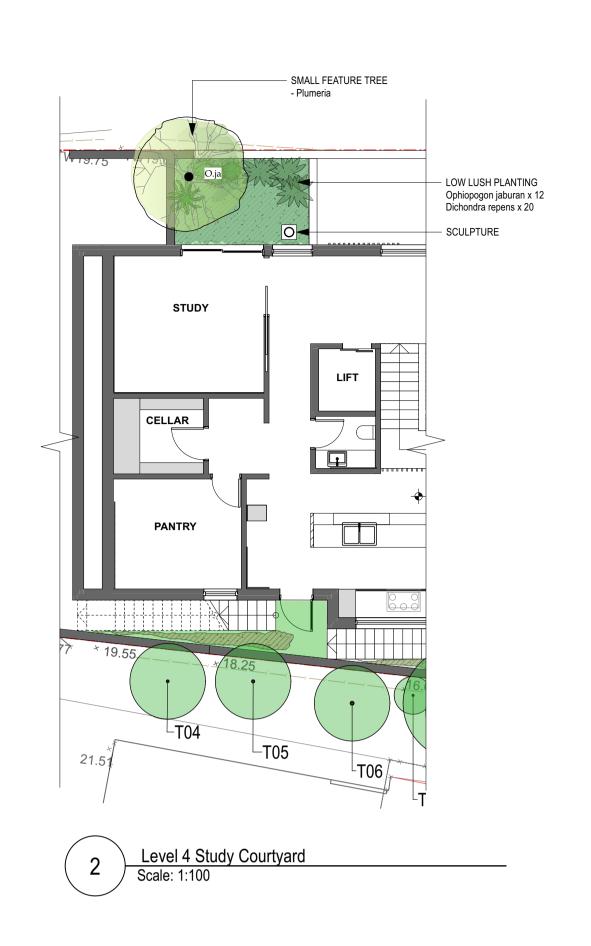


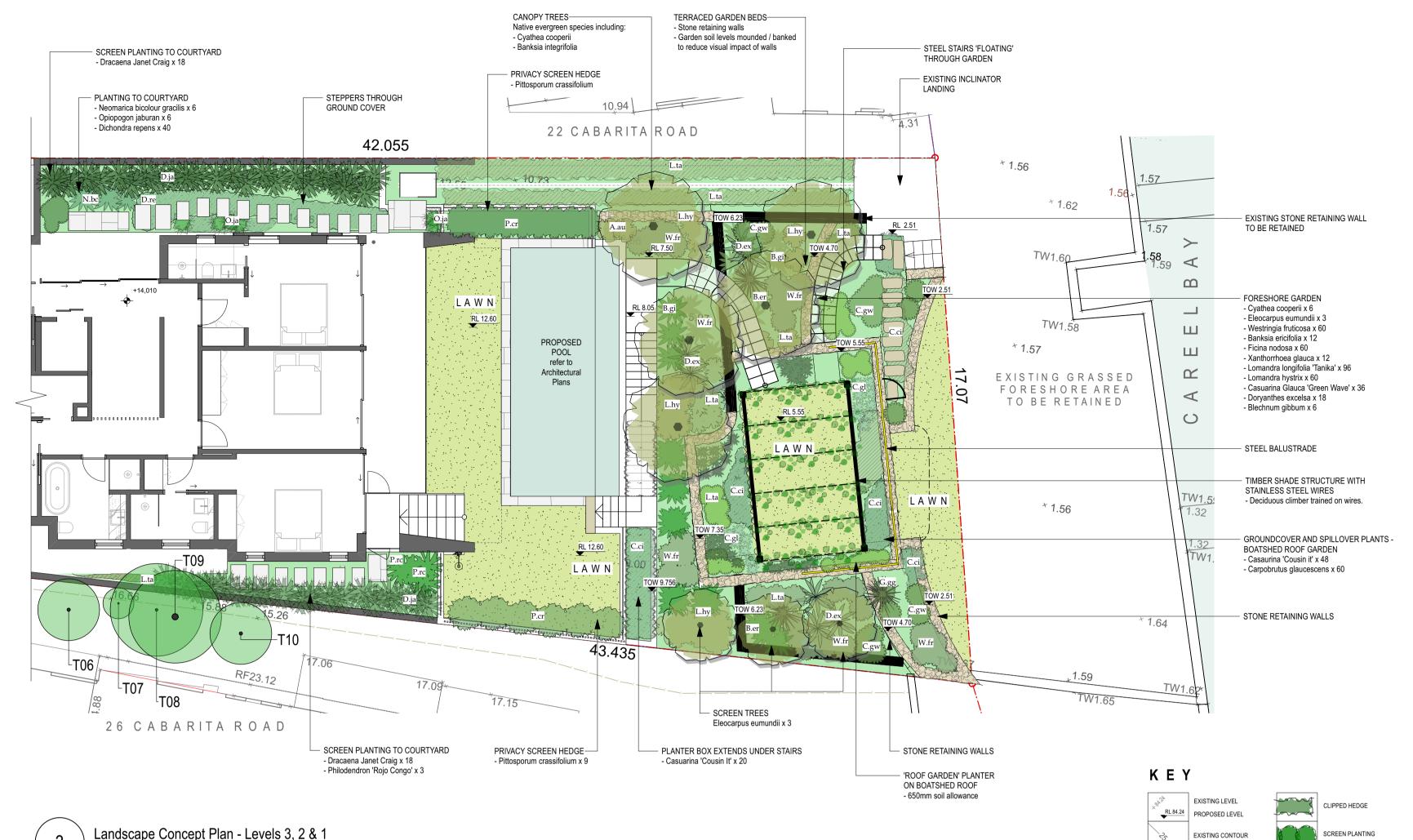
View from Cabarita Road

	revisions			l uo)te
Any discrepancies to be brought to Architect's attention	RevID	Date	Description		
Use figure dimensions in preference to scaling	A	12/12/22	DA Issue		
Only scale under direction from Architect Builder to examine site and verify conditions and dimensions	В	6/2/23	DA Re-Issue		
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CORBEN	project	MacDiarmid House Avalon	title	Perspectives	job no.	MACA	dwg no.
ARCHITECTS	address	24 Cabarita Road			drawn	RV	DA27
PO Box 1021 Neutral Bay NSW 2089 Australia 02 9904 1844 mail@corben.com.au		Avalon NSW			checked	МС	revision
corben.com.au Nominated Architect: Philip Corben (Reg. No. 4616)	client	Bruce & Libby MacDiarmid		Development Application	scale	NTS @A3	В







PLANT SCHEDULE

ID	Latin Name	Common Name	Quantity	Locally native
TREES				
A.pa	Acer palmatum	Japanese Maple	1	No
B.in	Banksia integrifolia	Coastal Banksia	6	Yes
C.co	Cyathea cooperi	Scaly Tree Fern	6	Yes
D.ja	Dracaena 'Janet Craig'	Dracaena	24	No
E.eu	Elaeocarpus eumundii	Quandong	3	No
P.cr	Pittosporum crassifolium	Karo	18	No
P.ru	Plumeria rubra var acutifolia	Frangipani	3	No
SHRUBS				
B.er	Banksia ericifolia	Heath-leaved Banksia	12	Yes
C.gw	Casuarina glauca 'Green Wave'	Green Wave Casuarina	36	Yes
C.ss	Ctenanthe 'Silver Star'	Ctenanthe	12	No
D.ex	Doryanthes excelsa	Gymea Lily, Giant Lily	18	Yes
F.no	Ficina nodosa	Knobby Club-rush	60	Yes
N.bc	Neomarica bicolour gracilis	BrazilianWalking Iris	6	No
P.rc	Philodendron 'Rojo Congo'	Red Philodendron	18	No
R.op	Raphiolepis 'Oriental Pearl'	Indian Hawthorn	18	No
W.fr	Westringia fruticosa	Coastal Rosemary	60	Yes
X.gl	Xanthorrhoea glauca	Grass Tree	12	Yes
GROUNDC	OVERS			
C.gl	Carpobrotus glaucescens	Pigface	60	Yes
C.gn	Casuarina glauca 'Cousin It'	Groundcover Casuarina	48	Yes
D.re	Dichondra repens	Kidney Weed	220	Yes
FERNS				
B.gi	Blechnum gibbum	Silver Lady Fern	6	No
C.co	Cvathea cooperi	Scaly Tree Fern	6	Yes
GRASSES				
L.hy	Lomandra hystrix	Slender Mat-Rush	60	Yes
L.ta	Lomandra longifolia 'Tanika'	Fine-Leafed Mat Rush	96	Yes
O.ja	Ophiopogon jaburan	Mondo Grass	18	No

EXISTING TREE SCHEDULE

Tree No	Genus Species	Common Name	Height	Canopy	Action
T01	Portulcaria afra	Dwarf Jade	4000	2500	Remove
T02	Grevillea robusta	Silky Oak	6000	3000	Remove
T03	Olea europaea	Olive	7000	4000	Remove
T04	Glochidion ferdinandi	Cheese Tree	6000	2000	Retain
T05	Camellia sasangua	Sasangua Camellia	7000	2000	Retain
T06	Camellia sasangua	Sasangua Camellia	7000	2000	Retain
T07	Camellia sasangua	Sasangua Camellia	7000	1000	Retain
T08	Syzygium luehmannii	Small Leafed Lilly Pilly	7000	3000	Retain
T09	Syzygium luehmannii	Small Leafed Lilly Pilly	9000	3000	Retain
T10	Syzygium luehmannii	Small Leafed Lilly Pilly	5000	2000	Retain

Refer to Arboricultural Impact Assessment for full details of existing trees

Number of Proposed Canopy Trees	3
% of Canopy Trees Endemic Species	100%
Number of plants specified	827
% of Plants Endemic Species	84%
% of Endemic Species required	80%

All Canopy trees and 80% of planted vegetation to be locally native species and/or listed in Pittwater Spotted Gum Endangered Ecological Community.

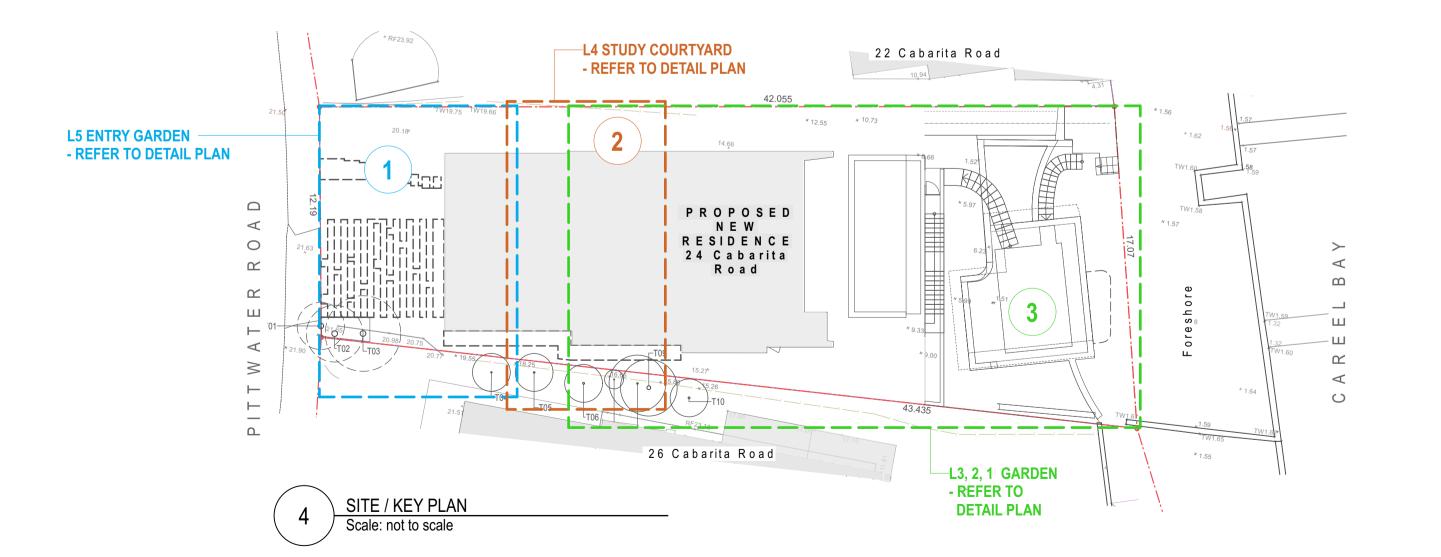
PLANTING NOTES

- All Noxious weeds to be removed from site during construction.
- Minimum soil depths for planting areas to be:

- 300mm for turf areas - 600mm for shrub planting - 1000mm for trees.

Refer to Plant Schedule.

NATIVE/INDIGENOUS PLANTS



DRAWING			
Landsc	ape Concept	Plan - DA	
٠ ک	piri	t le	vel
	514 cleveland st tel:	vel designs pty lto reet, surry hills r 02 8399 0660 red@spiritlevel.co	nsw 2010
	ABN	: 58 078 310 826	
PROJECT #	1808	DWG STATUS	
DWG DATE	22/12/2022	CAD FILE NAME	MacDiarmid.vw
PLOT DATE	00/10/0000	DWG #	REVISION

OF 0

THE BUILDER IS RESPONSIBLE FOR THE SETTING OUT OF THE WORKS, THE CHECKING OF ALL DIMENSIONS AND LEVELS ON SITE, AND THE REPORTING OF ANY

DISCREPANCIES TO THE PROPRIETOR PRIOR TO COMMENCEMENT OF WORK. DO NOT SCALE FROM DRAWINGS.

Proposed Alterations & Additions

24 Cabarita Road, Avalon

Bruce and Libby McDiarmid

ORIGINAL SHEET SIZE ISO A1 SCALE @ SHEET SIZE

SITE BOUNDARY

STEPPING STONES

BALUSTRADE

GARDEN BED

B 22/12/2022 Revised DA Issue A 7/12/2022 DA Issue

REVISION DATE REVISION NOTE

SCULPTURE LOCATION CLIMBERS

PROPOSED TREE

EXISTING TREE PROPOSED FOR REMOVAL Refer to Existing Tree Schedule

