BASIX™Certificate

Building Sustainability Index www.planningportal.nsw.gov.au/development-and-assessment/basix

Single Dwelling

Certificate number: 1179704S_03

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 10/09/2020 published by the Department. This document is available at www.planningportal.nsw.gov.au/definitions

This certificate is a revision of certificate number 1179704S lodged with the consent authority or certifier on 12 April 2021 with application DA 2021/0319.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Tuesday, 03 June 2025

To be valid, this certificate must be lodged within 3 months of the date of issue.





When submitting this BASIX certificate with a development application or complying development certificate application, it must be accompanied by NatHERS certificate 0011961745.

Project summary					
Project name	4326A Church Point - Downes_03				
Street address	190 MCCARRS CREEK STREET CHURCH POINT 2105				
Local Government Area	Northern Beaches Council				
Plan type and plan number	Deposited Plan 20097				
Lot no.	7				
Section no.	-				
Project type	separate dwelling house				
No. of bedrooms	4				
Project score					
Water	✓ 40 Target 40				
Thermal Performance	✓ Pass Target Pass				
Energy	✓ 94 Target 50				
Materials	✓ -1 Target n/a				

Certificate Prepared by

Name / Company Name: Lin & Associates Pty Ltd

ABN (if applicable):

Description of project

Project address							
Project name	4326A Church Point - Downes_03						
Street address	190 MCCARRS CREEK STREET CHURCH POINT 2105						
Local Government Area	Northern Beaches Council						
Plan type and plan number	Deposited Plan 20097						
Lot no.	7						
Section no.	-						
Project type							
Project type	separate dwelling house						
No. of bedrooms	4						
Site details							
Site area (m²)	436						
Roof area (m²)	178						
Conditioned floor area (m²)	297.0						
Unconditioned floor area (m²)	6.0						
Total area of garden and lawn (m²)	224						
Roof area of the existing dwelling (m²)	0						

Assessor details and therma	al loads						
NatHERS assessor number	DMN/19/1894						
NatHERS certificate number	0011961745						
Climate zone	56						
Area adjusted cooling load (MJ/ m².year)	15						
Area adjusted heating load (MJ/ m².year)	36						
Ceiling fan in at least one bedroom	Yes						
Ceiling fan in at least one living room or other conditioned area	Yes						
Project score							
Water	✓ 40	Target 40					
Thermal Performance	✓ Pass	Target Pass					
Energy	94	Target 50					
Materials	✓ -1	Target n/a					

BASIX

Version: 3.0 / DARWINIA_03_01_0

Schedule of BASIX commitments

BASIX

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check				
andscape							
The applicant must plant indigenous or low water use species of vegetation throughout 120 square metres of the site.	~	~					
Fixtures							
The applicant must install showerheads with a minimum rating of 4 star (> 6 but <= 7.5 L/min plus spray force and/or coverage tests) in all showers in the development.		~	~				
The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.		~	~				
The applicant must install taps with a minimum rating of 4 star in the kitchen in the development.		~					
The applicant must install basin taps with a minimum rating of 5 star in each bathroom in the development.		~					
Alternative water							
Rainwater tank							
The applicant must install a rainwater tank of at least 3000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	~	~	~				
The applicant must configure the rainwater tank to collect rain runoff from at least 90 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		~	~				
The applicant must connect the rainwater tank to:							
the cold water tap that supplies each clothes washer in the development		-	~				
 at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply.) 		~	V				

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Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check	
Swimming Pool				
The swimming pool must not have a volume greater than 30 kilolitres.	~	~		
The swimming pool must be shaded.	~	~		
The swimming pool must be outdoors.	~	V		

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Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Simulation Method			
Assessor details and thermal loads	=		
The applicant must attach the certificate referred to under "Assessor Details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for an occupation certificate for the proposed development.			
The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX certificate, including the Cooling and Heating loads shown on the front page of this certificate.			
The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Assessor Certificate requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor to certify that this is the case. The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.	~	~	~
The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		~	~
The applicant must show on the plans accompanying the development application for the proposed development, the locations of ceiling fans set out in the Assessor Certificate. The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), the locations of ceiling fans set out in the Assessor Certificate.	~	~	~

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Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Construction			
The applicant must construct the floors and walls of the dwelling in accordance with the specifications listed in the table below.	~	~	>

Floor and wall construction	Area
floor - concrete slab on ground	88.0 square metres
floor - suspended floor/open subfloor	33.0 square metres

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Tet weter		plans & specs	check
lot water			
The applicant must install the following hot water system in the development, or a system with a higher energy rating: solar (electric poosted) with a performance of 31 to 35 STCs or better.	~	~	~
Cooling system			
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: 3-phase airconditioning; Energy rating: EER 2.5 - 3.0		~	~
he applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 3-phase airconditioning; Energy rating: EER 2.5 - 3.0		~	~
he cooling system must provide for day/night zoning between living areas and bedrooms.		~	~
leating system			
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: 3-phase airconditioning; Energy rating: EER 2.5 - 3.0		~	~
he applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: 3-phase airconditioning; Energy rating: EER 2.5 - 3.0		~	~
he heating system must provide for day/night zoning between living areas and bedrooms.		~	~
/entilation	_		
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: individual fan, ducted to façade or roof; Operation control: manual switch on/off		-	-
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		-	-
Laundry: individual fan, ducted to façade or roof; Operation control: interlocked to light		✓	-

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent or light emitting diode (LED) lamps:			
• at least 4 of the bedrooms / study;		~	-
at least 3 of the living / dining rooms;		~	V
• the kitchen;		_	_
• all bathrooms/toilets;		_	-
• the laundry;		_	
• all hallways;		-	-
Natural lighting			
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	~	V	~
The applicant must install a window and/or skylight in 3 bathroom(s)/toilet(s) in the development for natural lighting.	V	V	~
Swimming pool	,		
The applicant must install the following heating system for the swimming pool in the development (or alternatively must not install any heating system for the swimming pool): electric heat pump		~	
Alternative energy			
The applicant must install a photovoltaic system with the capacity to generate at least 6 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	~	~	~
Other			
The applicant must install an induction cooktop & electric oven in the kitchen of the dwelling.			

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
The applicant must install a fixed outdoor clothes drying line as part of the development.		•	

Legend

BASIX

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a in the "Show on CC/CDC plans and specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate (either interim or final) for the development may be issued.

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Assessor Construction Summary

Address: 190 McCarrs Creeek Road Church Point NSW Project:

> Applicant: Adam and Katrina Bacon

Contact: Name: Peter Downes

> peter@peterdownes.com.au Contact:

Victor Lin & Associates Assessor: Name: Ailin Zhang Company:

PO Box 5080. Sth Turramurra. 2074 DMN/19/1894 Address: Number:

Contact: 0412-988088 Email: Ailin@linassociates.com.au

Ext. Walls: Details Construction Insulation Colour Weatherboard Cavity R3.5 Med As per plans

Lined Concrete R3.5 Level 1

Int. Walls: Construction Details R2.7 Plasterboard All internal walls

Floors: Construction Insulation **Details**

Concrete slab None As per plans Timber None As per plans

> R3.0 Under all suspended timber floor to external air (level 2,3)

Floor Cover: Material

Timber/Tile/Carpet As per plans Ceilings: Construction Insulation Details

Plasterboard R6.0 Under all roofs and in ceilings with deck above

Roof: Construction Insulation Colour **Details**

R1.3 60mm Anticon Metal Med As per plans

Uw/SHGCw Windows: Product ID Frame Window No. Generic 2.60 / 0.53

Double Argon filled All fixed & sliding windows and stacker doors

2.60 / 0.50 All tilt & turn windows

Uw/SHGCw Skylights: **Product ID** Glass Details Frame

Other: Orientation Terrain Weatherseals Climate Zone **Recessed Downlights** Suburban YES - SEALED TYPE ONLY 25 56 Yes

90mm LED at 1 per 5 sqm of ceiling space

6.0

0011961745 03 Jun 2025

Overshadowing Details: Other Project Building

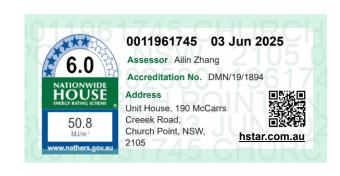
190 McCarrs Creeek Road Church Point. Dwgs as stamped Drawings: Assessment:

> File Ref: 4326A.02 BERS Pro 4.4 Software:

Certification Number: 0011961745

	Insulation Summary (refer also to table above)								
House No.	Conditioned Area	Unconditioned Area	Heating	Cooling	Star			SEALED Recessed Downlights ONLY	Sealed exhaust vents
House	297	6	35.5	15.3				Х	X

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Nationwide House Energy Rating Scheme NatHERS Certificate No. 0011961745

Generated on 03 Jun 2025 using BERS Pro v4.4.1.5 (3.21)

Property

Address Unit House, 190 McCarrs Creeek Road,

Church Point, NSW, 2105

Lot/DP 7/20097

NCC Class* 1A

Type New Dwelling

Plans

Main plan A3 2012 00-12

Prepared by Downes

Construction and environment

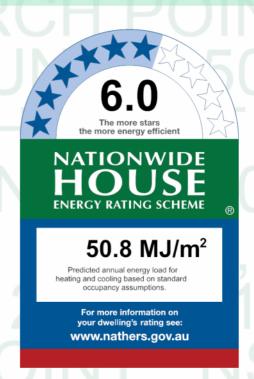
Assessed floor area (m²)* Exposure type
Conditioned* 297.0 Suburban

Unconditioned* 6.0

Total 303.0 NatHERS climate zone

56

Garage 0.0



Thermal performance

Heating Cooling

35.5 15.3

 MJ/m^2 MJ/m^2



Name Ailin Zhang

Business name Victor Lin Associates Pty Ltd

Email ailin@linassociates.com.au

 Phone
 1800884199

 Accreditation No.
 DMN/19/1894

Assessor Accrediting Organisation

Design Matters National

Declaration of interest Declaration not completed

About the rating

NatHERS software models the expected thermal energy loads using information about the design and construction, climate and common patterns of household use. The software does not take into account appliances, apart from the airflow impacts from ceiling fans.

Verification

To verify this certificate, scan the QR code or visit



hstar.com.au/QR/Generate?

p=BOCQOqTID.

When using either link, ensure you are visiting hstar.com.au

National Construction Code (NCC) requirements

The NCC's requirements for NatHERS-rated houses are detailed in 3.12.0(a)(i) and 3.12.5 of the NCC Volume Two. For apartments the requirements are detailed in J0.2 and J5 to J8 of the NCC Volume One.

In NCC 2019, these requirements include minimum star ratings and separate heating and cooling load limits that need to be met by buildings and apartments through the NatHERS assessment. Requirements additional to the NatHERS assessment that must also be satisfied include, but are not limited to: insulation installation methods, thermal breaks, building sealing, water heating and pumping, and artificial lighting requirements. The NCC and NatHERS Heating and Cooling Load Limits (Australian Building Codes Board Standard) are available at www.abcb.gov.au.

State and territory variations and additions to the NCC may also apply.



Certificate check

Ensure the dwelling is designed and then built as per the NatHERS Certificate. While you need to check the accuracy of the whole Certificate, the following spot check covers some important items impacting the dwelling's rating.

Genuine certificate

Does this Certificate match the one available at the web address or QR code in the verification box on the front page? Does the set of NatHERS-stamped plans for the dwelling have a Certificate number on the stamp that matches this Certificate?

Does the 'number' and 'type' of ceiling penetrations (e.g. downlights, exhaust fans, etc) shown on the stamped plans or installed, match what is shown in this Certificate?

Windows

Does the installed window meet the substitution tolerances (SHGC and U-value) and window type, of the window shown on this Certificate? Substituted values must be based on the Australian Fenestration Rating Council (AFRC) protocol.

Apartment entrance doors

Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.

Exposure*

Has the appropriate exposure level (terrain) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".

Provisional* values

Have provisional values been used in the assessment and, if so, noted in "additional notes" below?

Additional notes

I have modeled the shading in accordance with NatHERS principles

Window and glazed door type and performance

Default* windows

Window ID	Window	Maximum	SHGC*	Substitution to	lerance ranges
willdow ib	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit
	PVC-006-01 W uPVC B				
PVC-006-01 W	DG Argon Fill Clear-	2.6	0.53	0.50	0.56
	Clear				
	PVC-005-01 W uPVC A				
PVC-005-01 W	DG Argon Fill Clear-	2.6	0.50	0.48	0.53
	Clear				

Custom* windows

Window ID	Window	Maximum	SHGC*	Substitution to	lerance ranges
willdow ib	Description	U-value*	энвс	SHGC lower limit	SHGC upper limit
No Data Availa	able				

 * Refer to glossary. Generated on 03 Jun 2025 using BERS Pro v4.4.1.5 (3.21) for Church Point , NSW , 2105



Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
Family	PVC-006-01 W	n/a	720	500	n/a	00	NW	No
Family	PVC-005-01 W	n/a	720	500	n/a	90	NW	No
Family	PVC-005-01 W	n/a	800	500	n/a	90	NW	No
Family	PVC-006-01 W	n/a	2400	3300	n/a	90	NW	No
guest	PVC-005-01 W	n/a	800	800	n/a	90	SW	No
guest	PVC-006-01 W	n/a	720	500	n/a	00	NW	No
guest	PVC-005-01 W	n/a	720	500	n/a	90	NW	No
guest	PVC-005-01 W	n/a	800	500	n/a	90	NW	No
guest	PVC-006-01 W	n/a	2400	3300	n/a	90	NW	No
ens	PVC-005-01 W	n/a	800	800	n/a	90	SW	No
Bedroom 1	PVC-006-01 W	n/a	720	500	n/a	00	NW	No
Bedroom 1	PVC-005-01 W	n/a	720	500	n/a	10	NW	No
Bedroom 1	PVC-005-01 W	n/a	800	500	n/a	10	NW	No
Bedroom 1	PVC-005-01 W	n/a	800	800	n/a	10	NE	No
Bedroom 1	PVC-005-01 W	n/a	2400	600	n/a	10	W	No
Bedroom 1	PVC-006-01 W	n/a	2400	3900	n/a	90	NW	No
Bedroom	PVC-005-01 W	n/a	800	800	n/a	10	SW	No
Bedroom	PVC-005-01 W	n/a	800	800	n/a	10	SW	No
Bedroom	PVC-006-01 W	n/a	800	1700	n/a	00	SW	No
ens	PVC-005-01 W	n/a	800	800	n/a	10	NE	No
bath	PVC-005-01 W	n/a	800	800	n/a	10	SW	No
bath	PVC-006-01 W	n/a	720	500	n/a	00	NW	No
bath	PVC-005-01 W	n/a	720	500	n/a	10	NW	No
bath	PVC-005-01 W	n/a	800	500	n/a	10	NW	No
bedroom 2	PVC-006-01 W	n/a	2400	2400	n/a	90	W	No
Kitchen/Living	PVC-006-01 W	n/a	800	4400	n/a	00	NE	No
Kitchen/Living	PVC-005-01 W	n/a	800	800	n/a	10	NE	No
Kitchen/Living	PVC-005-01 W	n/a	800	800	n/a	10	NE	No
Kitchen/Living	PVC-006-01 W	n/a	800	2000	n/a	00	NE	No



Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
Kitchen/Living	PVC-006-01 W	n/a	800	1700	n/a	00	SW	No
Kitchen/Living	PVC-005-01 W	n/a	800	800	n/a	10	SW	No
Kitchen/Living	PVC-006-01 W	n/a	800	4400	n/a	00	SW	No
Kitchen/Living	PVC-006-01 W	n/a	720	500	n/a	00	NW	No
Kitchen/Living	PVC-005-01 W	n/a	800	500	n/a	10	NW	No
Kitchen/Living	PVC-005-01 W	n/a	720	500	n/a	10	NW	No
Kitchen/Living	PVC-006-01 W	n/a	1000	3460	n/a	00	NW	No
Kitchen/Living	PVC-006-01 W	n/a	1000	3460	n/a	00	NW	No
Kitchen/Living	PVC-006-01 W	n/a	2400	7200	n/a	90	NW	No
Kitchen/Living	PVC-006-01 W	n/a	720	500	n/a	00	NW	No
Kitchen/Living	PVC-005-01 W	n/a	800	500	n/a	10	NW	No
Kitchen/Living	PVC-005-01 W	n/a	720	500	n/a	10	NW	No
corridor	PVC-005-01 W	n/a	800	800	n/a	10	NE	No
work shop	PVC-005-01 W	n/a	800	800	n/a	10	SW	No
work shop	PVC-005-01 W	n/a	800	800	n/a	10	SW	No
work shop	PVC-006-01 W	n/a	1000	1800	n/a	00	NW	No
foyer	PVC-005-01 W	n/a	800	800	n/a	10	NE	No
foyer	PVC-006-01 W	n/a	800	2000	n/a	00	NE	No
foyer	PVC-006-01 W	n/a	1000	1800	n/a	00	NW	No
media	PVC-005-01 W	n/a	800	1600	n/a	90	SW	No

Roof window type and performance

Default* roof windows

WINDOW II)	lerance ranges				
willdow ib	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit
No Doto Avoilo	hla				

Custom* roof windows

Window ID	Window	Maximum	SHGC*	Substitution to	lerance ranges
Williaow ID	Description	U-value*	SHGC lower limit SHGC upper	SHGC upper limit	
No Data Availa	able				



Roof window schedule

Location	Window ID	Window no.	Opening %	Height (mm)	Width (mm) Orientation	Outdoor shade	Indoor shade

No Data Available

Skylight type and performance

Skylight ID	Skylight description
-------------	----------------------

No Data Available

Skylight schedule

|--|

No Data Available

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation	
pantry	2100	800	90	SE	
work shop	2100	1250	90	SE	
foyer	2400	1100	90	NE	

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade (colour)	Bulk insulation (R-value)	Reflective wall wrap*
EW-1	Tilt up concrete, lined	0.50	Medium	Bulk Insulation R3.5	No
EW-2	Tilt up concrete, lined	0.50	Medium	Bulk Insulation R3.5	No
EW-3	Weatherboard Cavity Panel Direct Fix	0.50	Medium	Bulk Insulation R3.5	No
EW-4	Weatherboard Cavity Panel Direct Fix	0.50	Medium	Bulk Insulation R3.5	No



External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
Family	EW-1	2730	900	NE	1000	YES
Family	EW-1	2730	900	NW	900	YES
Family	EW-2	2730	5795	NE	100	NO
Family	EW-1	2730	3495	NW	4150	NO
guest	EW-2	2730	2995	SW	100	NO
guest	EW-1	2730	1000	NW	900	YES
guest	EW-1	2730	1000	SW	1100	YES
guest	EW-1	2730	3595	NW	4200	NO
ens	EW-1	2730	2690	SW	100	NO
staircase	EW-1	2730	600	NE	2200	YES
staircase	EW-1	2730	2300	SE	425	NO
staircase	EW-1	2730	600	SW	4700	YES
Bedroom 1	EW-3	2730	2900	NE	100	YES
Bedroom 1	EW-3	2730	900	NW	1000	YES
Bedroom 1	EW-3	2730	995	NE	200	NO
Bedroom 1	EW-3	2730	716	W	1082	YES
Bedroom 1	EW-3	2730	4168	NW	1076	NO
Bedroom	EW-1	2730	3495	SE	2075	NO
Bedroom	EW-3	2730	5395	SW	50	NO
ens	EW-3	2730	7895	NE	200	NO
ens	EW-1	2730	2095	SE	2000	YES
wc	EW-3	2730	1290	SW	25	NO
bath	EW-3	2730	2195	SW	25	NO
bath	EW-3	2730	900	NW	900	YES
bedroom 2	EW-3	2730	2795	SW	100	YES
bedroom 2	EW-3	2730	3494	W	1132	YES
store	EW-1	2730	1090	SE	2050	YES
corridor	EW-1	2730	600	NE	2300	YES
corridor	EW-1	2730	2300	SE	1425	NO



Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
corridor	EW-1	2730	600	SW	4675	YES
Kitchen/Living	EW-4	3950	5000	NE	600	NO
Kitchen/Living	EW-4	2790	4300	NE	600	NO
Kitchen/Living	EW-3	2790	600	SE	7500	YES
Kitchen/Living	EW-3	2790	3795	SW	100	NO
Kitchen/Living	EW-4	3950	5100	SW	100	NO
Kitchen/Living	EW-4	3950	900	NW	3825	YES
Kitchen/Living	EW-4	3950	1000	SW	1000	YES
Kitchen/Living	EW-4	3950	7200	NW	4000	NO
Kitchen/Living	EW-4	3950	1000	NE	1000	YES
Kitchen/Living	EW-4	3950	900	NW	3825	YES
pantry	EW-3	2790	1800	SE	100	NO
pantry	EW-3	2790	1995	SW	100	NO
corridor	EW-3	2790	1595	NE	800	YES
work shop	EW-3	3250	2895	SE	6100	NO
work shop	EW-3	3250	5700	SW	100	NO
work shop	EW-3	1600	2895	NW	600	NO
foyer	EW-3	3250	5700	NE	600	NO
foyer	EW-3	3250	2095	SE	6100	NO
foyer	EW-3	1600	2095	NW	600	NO
store	EW-1	2730	3095	NE	100	NO
store	EW-1	2730	2095	SE	1000	YES
media	EW-1	2730	4595	SE	1075	YES
media	EW-1	2730	3095	SW	100	NO

Internal wall type

Wall ID	Wall type	Area (m ²) Bulk insulation
---------	-----------	--

IW-1 - Cavity wall, direct fix plasterboard, single gap	246.00	Bulk Insulation, No Air Gap R2.7
IW-2 - Concrete Panel/Blocks fully core filled	18.00	No Insulation



Floor type

Location	Construction	Area Sub-floor (m²) ventilation	Added insulation (R-value)	Covering
Family	Concrete Slab on Ground 200mm	28.20 None	No Insulation	Ceramic Tiles 8mm
guest	Concrete Slab on Ground 200mm	17.00 None	No Insulation	Carpet 10mm
ldry	Concrete Slab on Ground 200mm	5.20 None	No Insulation	Ceramic Tiles 8mm
ens	Concrete Slab on Ground 200mm	6.40 None	No Insulation	Ceramic Tiles 8mm
staircase	Concrete Slab on Ground 200mm	8.10 None	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 1/Family	Timber Above Plasterboard 19mm	7.90	No Insulation	Carpet 10mm
Bedroom 1/guest	Timber Above Plasterboard 19mm	2.10	No Insulation	Carpet 10mm
Bedroom 1	Suspended Timber Floor 19mm	13.00 Totally Open	Bulk Insulation in Contact with Floor R3	Carpet 10mm
Bedroom /ldry	Timber Above Plasterboard 19mm	2.00	No Insulation	Carpet 10mm
Bedroom /ens	Timber Above Plasterboard 19mm	5.60	No Insulation	Carpet 10mm
Bedroom /media	Timber Above Plasterboard 19mm	10.60	No Insulation	Carpet 10mm
ens/Family	Timber Above Plasterboard 19mm	16.70	No Insulation	Ceramic Tiles 8mm
ens/store	Timber Above Plasterboard 19mm	6.40	No Insulation	Ceramic Tiles 8mm
wc/guest	Timber Above Plasterboard 19mm	1.60	No Insulation	Ceramic Tiles 8mm
wc/ens	Timber Above Plasterboard 19mm	0.70	No Insulation	Ceramic Tiles 8mm
bath/guest	Timber Above Plasterboard 19mm	5.80	No Insulation	Ceramic Tiles 8mm
bedroom 2/guest	Timber Above Plasterboard 19mm	2.50	No Insulation	Cork Tiles or Parquetry 8mm
bedroom 2	Suspended Timber Floor 19mm	8.20 Totally Open	Bulk Insulation in Contact with Floor R3	Cork Tiles or Parquetry 8mm
store/media	Timber Above Plasterboard 19mm	2.30	No Insulation	Cork Tiles or Parquetry 8mm
corridor/Family	Timber Above Plasterboard 19mm	3.20	No Insulation	Cork Tiles or Parquetry 8mm
corridor/guest	Timber Above Plasterboard 19mm	4.50	No Insulation	Cork Tiles or Parquetry 8mm
corridor/ldry	Timber Above Plasterboard 19mm	3.50	No Insulation	Cork Tiles or Parquetry 8mm



Location	Construction	Area Sub-floor (m ²) ventilation	Added insulation (R-value)	Covering
corridor/staircase	Timber Above Plasterboard 19mm	8.10	No Insulation	Cork Tiles or Parquetry 8mm
corridor/media	Timber Above Plasterboard 19mm	0.80	No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living /Bedroom 1	Timber Above Plasterboard 19mm	10.70	No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living /Bedroom	Timber Above Plasterboard 19mm	18.50	No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living /ens	Timber Above Plasterboard 19mm	23.60	No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living /wc	Timber Above Plasterboard 19mm	2.60	No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living /bath	Timber Above Plasterboard 19mm	6.10	No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living /bedroom 2	Timber Above Plasterboard 19mm	3.00	No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living /store	Timber Above Plasterboard 19mm	2.50	No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living /corridor	Timber Above Plasterboard 19mm	20.80	No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living	Suspended Timber Floor 19mm	0.80 Totally Open	Bulk Insulation in Contact with Floor R3	Cork Tiles or Parquetry 8mm
pantry	Suspended Timber Floor 19mm	8.90 Totally Open	Bulk Insulation in Contact with Floor R3	Cork Tiles or Parquetry 8mm
wc	Suspended Timber Floor 19mm	3.30 Open	Bulk Insulation in Contact with Floor R3	Ceramic Tiles 8mm
corridor	Suspended Timber Floor 19mm	1.90 Open	Bulk Insulation in Contact with Floor R3	Cork Tiles or Parquetry 8mm
work shop/Kitchen/Living	Timber Above Plasterboard 19mm	10.60	No Insulation	Bare
work shop/pantry	Timber Above Plasterboard 19mm	5.70	No Insulation	Bare
foyer/Kitchen/Living	Timber Above Plasterboard 19mm	8.40	No Insulation	Ceramic Tiles 8mm
foyer/wc	Timber Above Plasterboard 19mm	3.10	No Insulation	Ceramic Tiles 8mm
store	Concrete Slab on Ground 19mm	6.30 None	No Insulation	Ceramic Tiles 8mm
media	Concrete Slab on Ground 200mm	13.90 None	No Insulation	Ceramic Tiles 8mm



Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Family	Plasterboard	Bulk Insulation R4	No
Family	Timber Above Plasterboard	No Insulation	No
guest	Plasterboard	Bulk Insulation R4	No
guest	Timber Above Plasterboard	No Insulation	No
ldry	Plasterboard	Bulk Insulation R4	No
Idry	Timber Above Plasterboard	No Insulation	No
ens	Plasterboard	Bulk Insulation R4	No
ens	Timber Above Plasterboard	No Insulation	No
staircase	Plasterboard	Bulk Insulation R4	No
staircase	Timber Above Plasterboard	No Insulation	No
Bedroom 1	Plasterboard	Bulk Insulation R6	No
Bedroom 1	Timber Above Plasterboard	No Insulation	No
Bedroom	Plasterboard	Bulk Insulation R4	No
Bedroom	Timber Above Plasterboard	No Insulation	No
ens	Plasterboard	Bulk Insulation R4	No
ens	Timber Above Plasterboard	No Insulation	No
wc	Plasterboard	Bulk Insulation R4	No
wc	Timber Above Plasterboard	No Insulation	No
bath	Plasterboard	Bulk Insulation R4	No
bath	Timber Above Plasterboard	No Insulation	No
bedroom 2	Plasterboard	Bulk Insulation R6	No
bedroom 2	Timber Above Plasterboard	No Insulation	No
store	Plasterboard	Bulk Insulation R4	No
store	Timber Above Plasterboard	No Insulation	No
corridor	Plasterboard	Bulk Insulation R4	No
corridor	Timber Above Plasterboard	No Insulation	No
Kitchen/Living	Plasterboard	Bulk Insulation R6	No
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
pantry	Plasterboard	Bulk Insulation R6	No



Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*	
pantry	Timber Above Plasterboard	No Insulation	No	
wc	Plasterboard	Bulk Insulation R6	No	
wc	Timber Above Plasterboard	No Insulation	No	
corridor	Plasterboard	Bulk Insulation R6	No	
work shop	Plasterboard	Bulk Insulation R6	No	
foyer	Plasterboard	Bulk Insulation R6	No	
store	Plasterboard	Bulk Insulation R4	No	
store	Timber Above Plasterboard	No Insulation	No	
media	Plasterboard	Bulk Insulation R4	No	
media	Timber Above Plasterboard	No Insulation	No	

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm)	Sealed/unsealed
Family	6	Downlights - LED	90	Sealed
guest	4	Downlights - LED	90	Sealed
Idry	1	Downlights - LED	90	Sealed
ldry	1	Exhaust Fans	350	Sealed
ens	2	Downlights - LED	90	Sealed
ens	1	Exhaust Fans	350	Sealed
Bedroom 1	5	Downlights - LED	90	Sealed
Bedroom	4	Downlights - LED	90	Sealed
ens	5	Downlights - LED	90	Sealed
ens	1	Exhaust Fans	350	Sealed
wc	1	Exhaust Fans	350	Sealed
bath	2	Downlights - LED	90	Sealed
bath	1	Exhaust Fans	350	Sealed
bedroom 2	2	Downlights - LED	90	Sealed
corridor	4	Downlights - LED	90	Sealed
Kitchen/Living	18	Downlights - LED	90	Sealed



Location	Quantity	Туре	Diameter (mm)	Sealed/unsealed	
Kitchen/Living	1	Exhaust Fans	350	Sealed	_
pantry	2	Downlights - LED	90	Sealed	
wc	1	Downlights - LED	90	Sealed	
wc	1	Exhaust Fans	350	Sealed	
work shop	4	Downlights - LED	90	Sealed	
foyer	2	Downlights - LED	90	Sealed	
store	2	Downlights - LED	90	Sealed	
media	2	Downlights - LED	90	Sealed	

Ceiling fans

Location	Quantity	Diameter (mm)
Family	1	1200
guest	1	1200
Bedroom 1	1	1200
Bedroom	1	1200
bedroom 2	1	1200
Kitchen/Living	2	1200
media	1	1200

Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof shade
Waterproofing Membrane	No Insulation, Only an Air Gap	0.50	Medium
Corrugated Iron	Bulk, Reflective Side Down, Anti-glare Up R1.3	0.50	Medium



Explanatory notes

About this report

A NatHERS rating is a comprehensive, dynamic computer modelling evaluation of a home, using the floorplans, elevations and specifications to estimate an energy load. It addresses the building layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings), but does not cover the water or energy use of appliances or energy production of solar panels.

Ratings are based on a unique climate zone where the home is located and are generated using standard assumptions, including occupancy patterns and thermostat settings. The actual energy consumption of a home may vary significantly from the predicted energy load, as the assumptions used in the rating will not match actual usage patterns. For example, the number of occupants and personal heating or cooling preferences will vary.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparing different dwelling designs and to demonstrate that the design meets the energy efficiency requirements in the National Construction Code. Homes that are energy efficient use less energy, are warmer on cool days, cooler on hot days and cost less to run. The higher the star rating the more thermally efficient the dwelling is.

Accredited assessors

To ensure the NatHERS Certificate is of a high quality, always use an accredited or licenced assessor. NatHERS accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

Australian Capital Territory (ACT) licensed assessors may only produce assessments for regulatory purposes using software for which they have a licence endorsement. Licence endorsements can be confirmed on the ACT licensing register

AAOs have specific quality assurance processes in place, and continuing professional development requirements, to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any ongoing training requirements.

Any questions or concerns about this report should be directed to the assessor in the first instance. If the assessor is unable to address these questions or concerns, the AAO specified on the front of this certificate should be contacted.

Disclaimer

The format of the NatHERS Certificate was developed by the NatHERS Administrator. However the content of each individual certificate is entered and created by the assessor to create a NatHERS Certificate. It is the responsibility of the assessor who prepared this certificate to use NatHERS accredited software correctly and follow the NatHERS Technical Notes to produce a NatHERS Certificate.

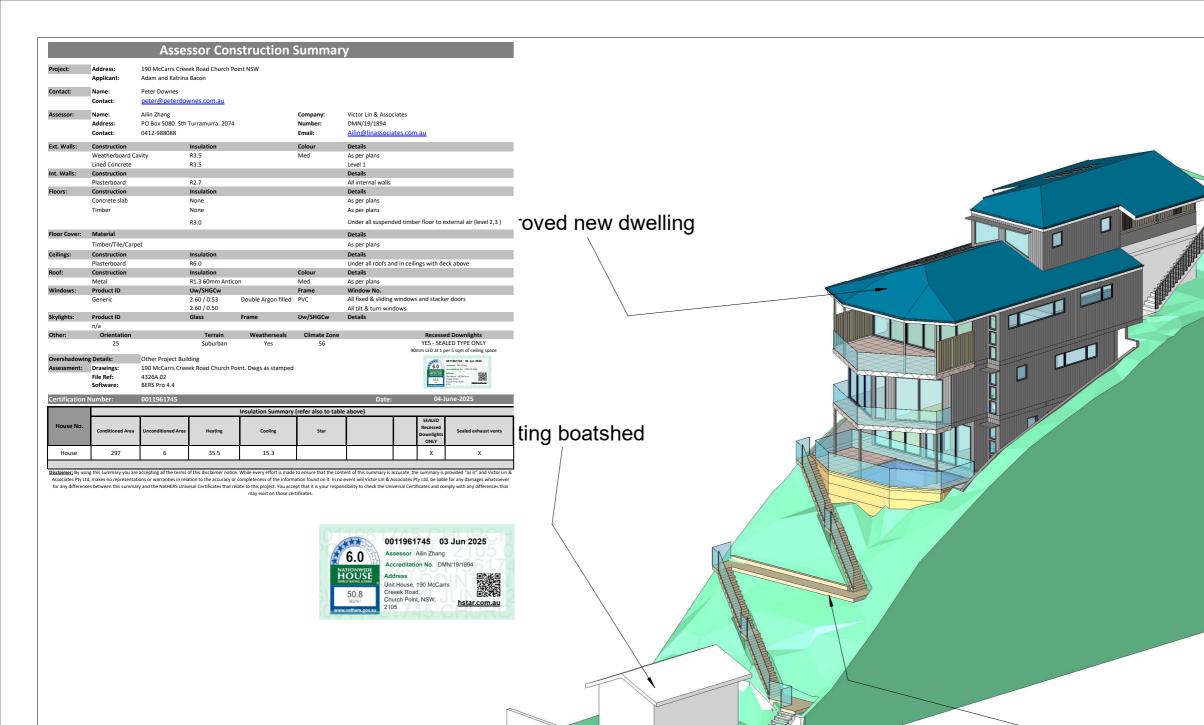
The predicted annual energy load in this NatHERS Certificate is an estimate based on an assessment of the building by the assessor. It is not a prediction of actual energy use, but may be used to compare how other buildings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, indoor air temperature and local climate.

Not all assumptions that may have been made by the assessor while using the NatHERS accredited software tool are presented in this report and further details or data files may be available from the assessor.

Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, rangehoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure category – exposed	terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate airgap and emissivity value, it provides insulative properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading device	a device fixed to windows that provides shading e.g. window awnings or screens but excludes eaves.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
U-value	the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
Unconditioned	a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions.
Vertical shading features	provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).



4.55 MK 2 ISSUE

existing driveway

DIAL BEFORE
YOU DIG

EVISION

and BASIX reports, and any other supporting documentaion

BUILDING
DESIGNERS
AUSTRALIA N

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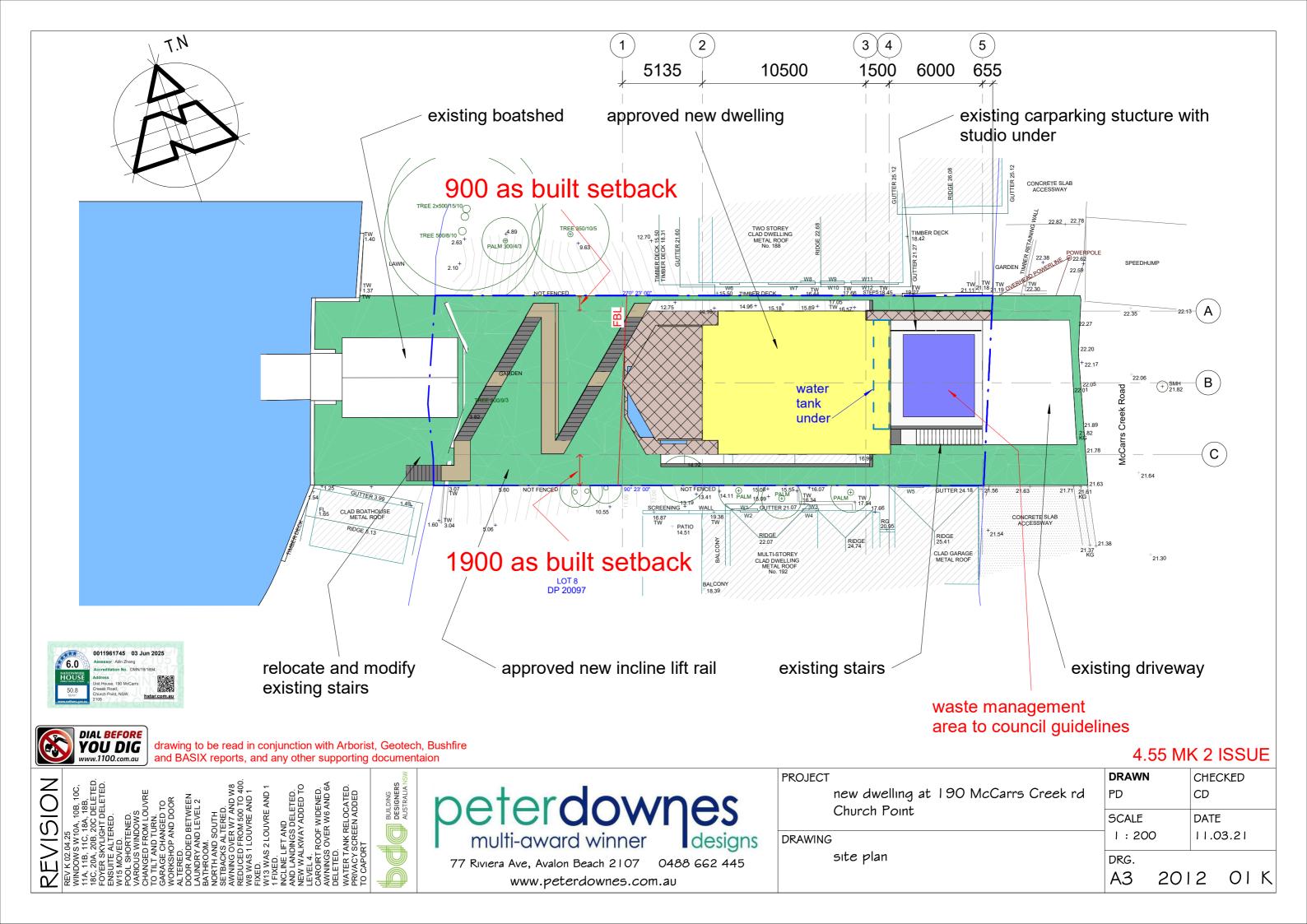
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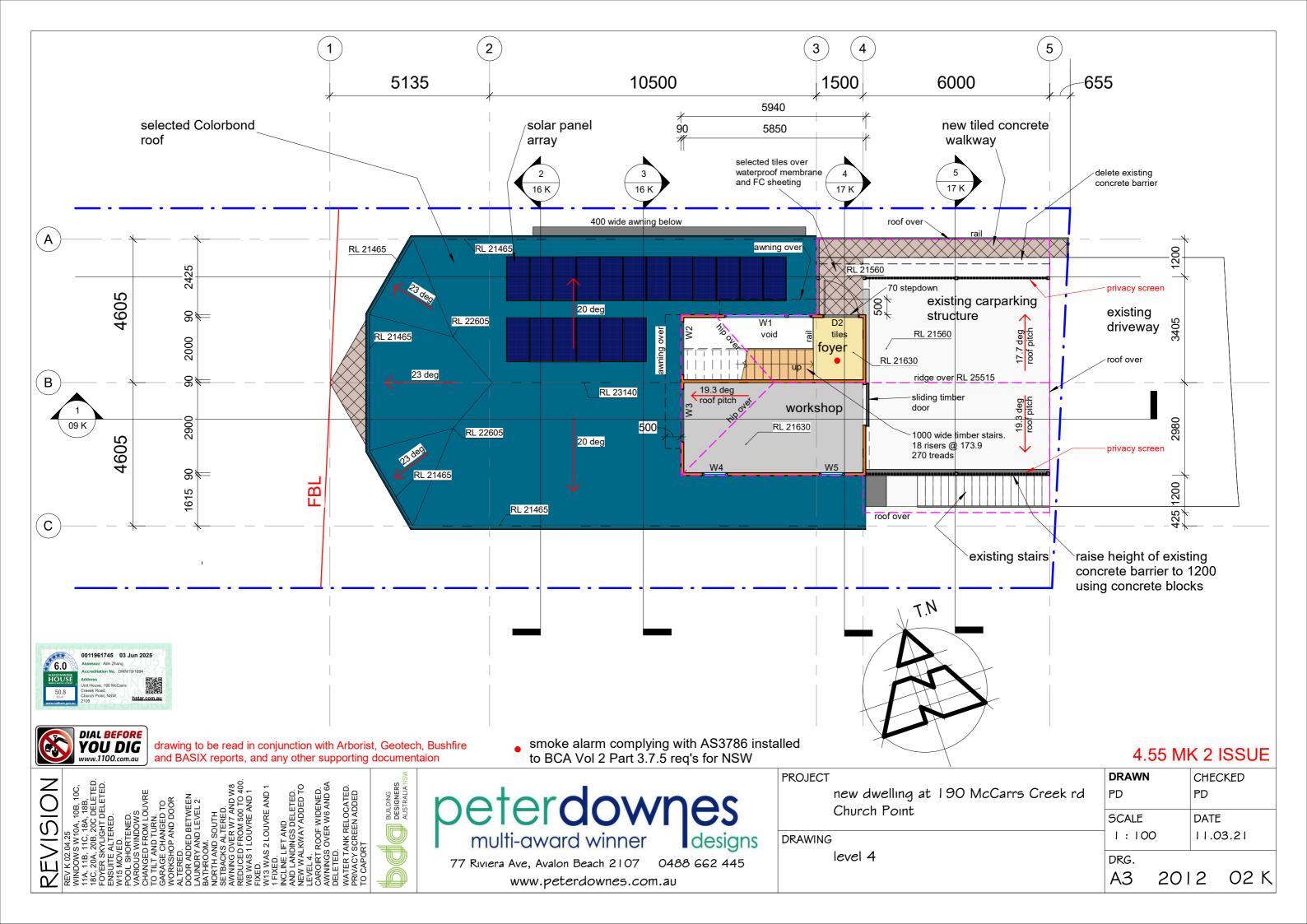
PROJECT	DRAWN	CHECKED
new dwelling at 190 McCarrs Creek rd	PD	PD
Church Point	SCALE	DATE
DRAWING		11.03.21
cover sheet	DRG. A3 201	2 00 K

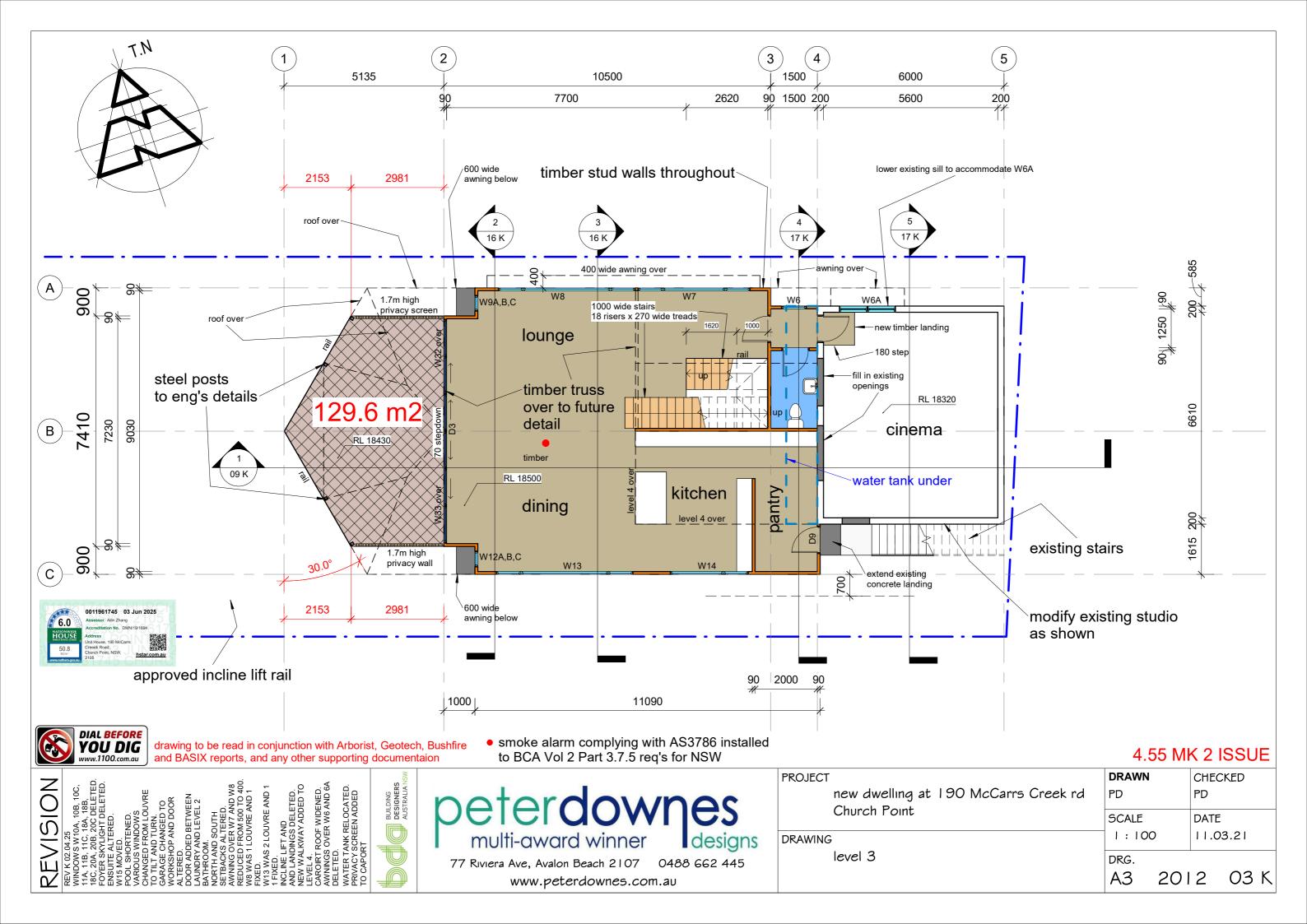
approved stairs and paths

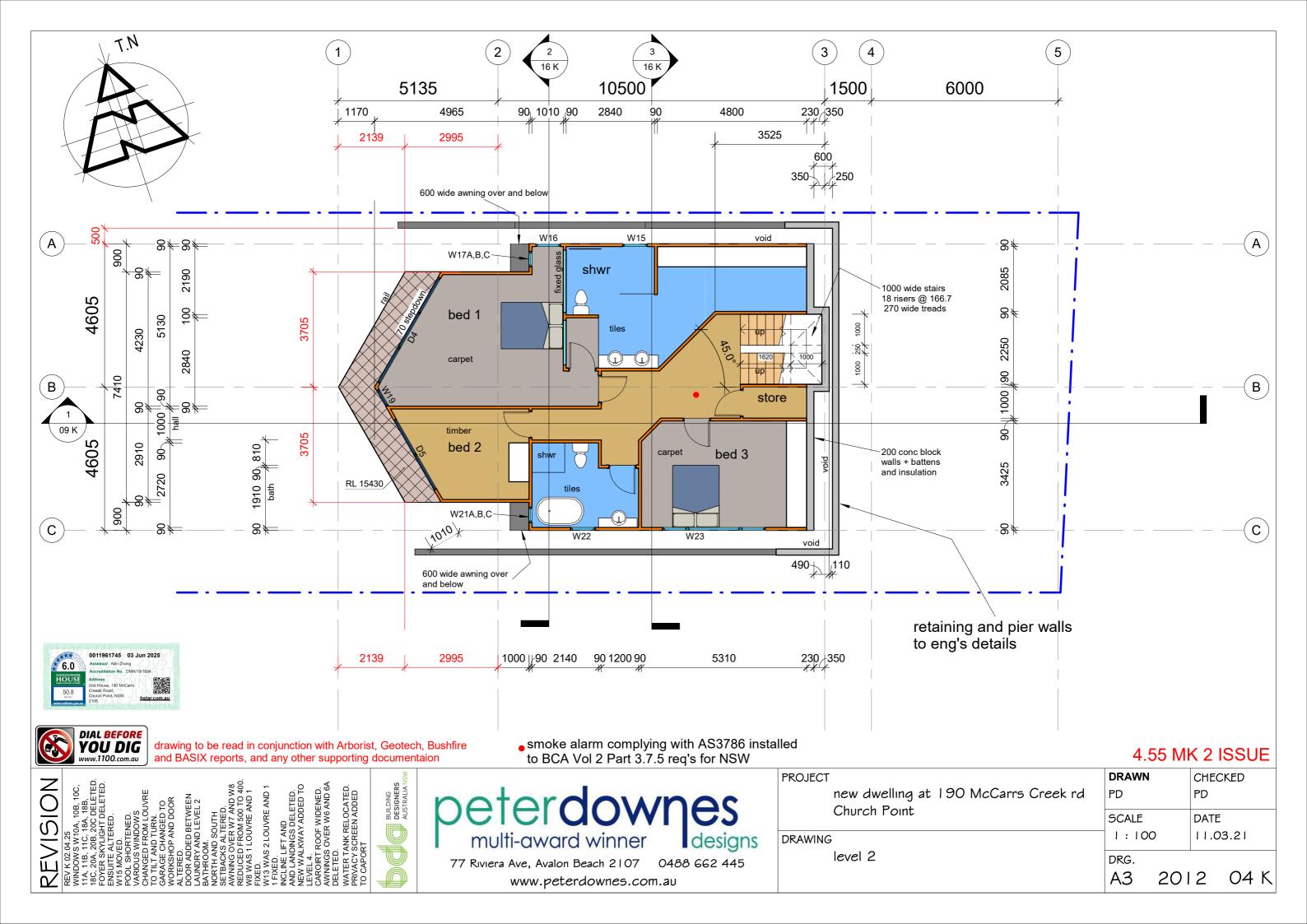
existing stairs modified

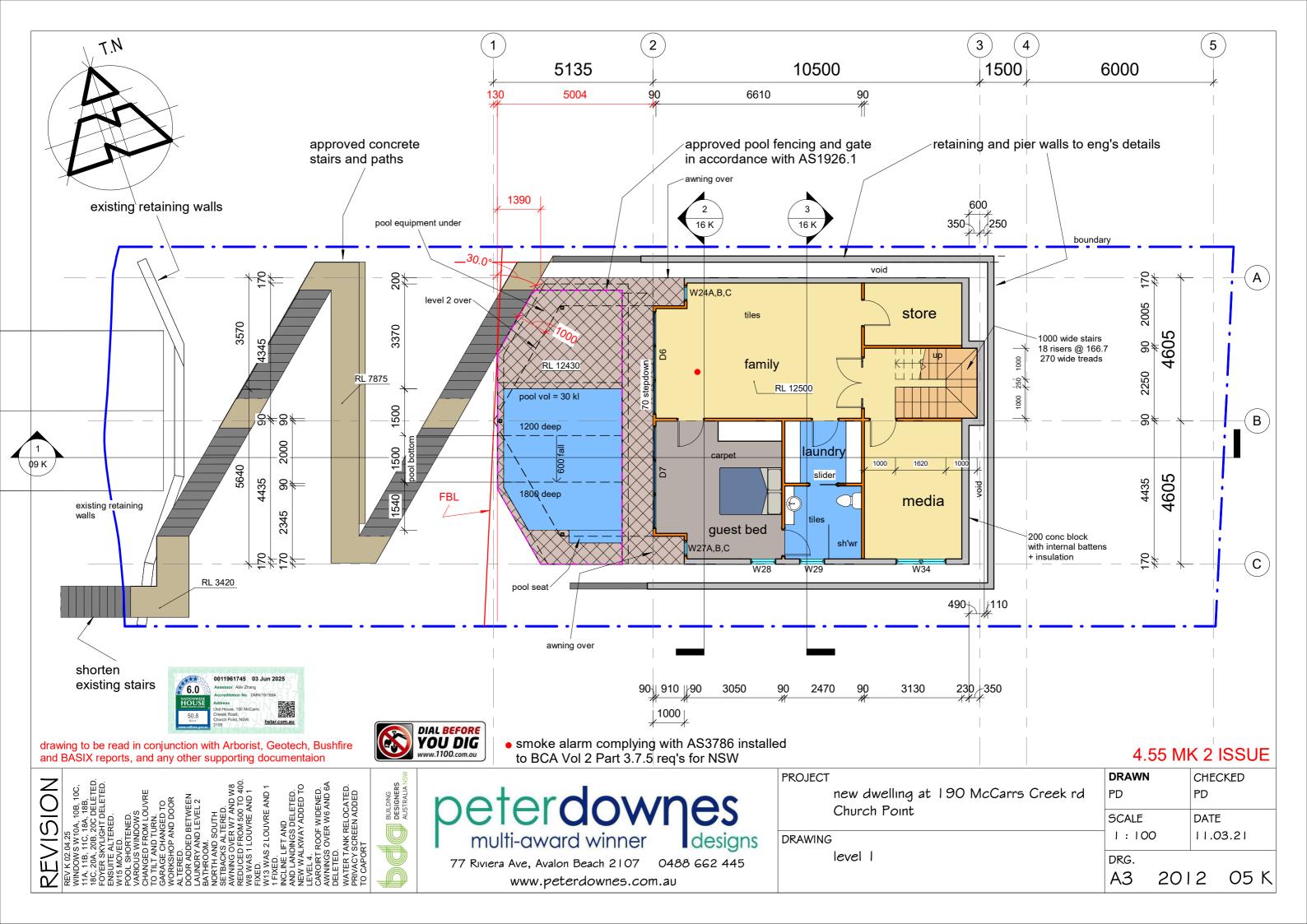
drawing to be read in conjunction with Arborist, Geotech, Bushfire

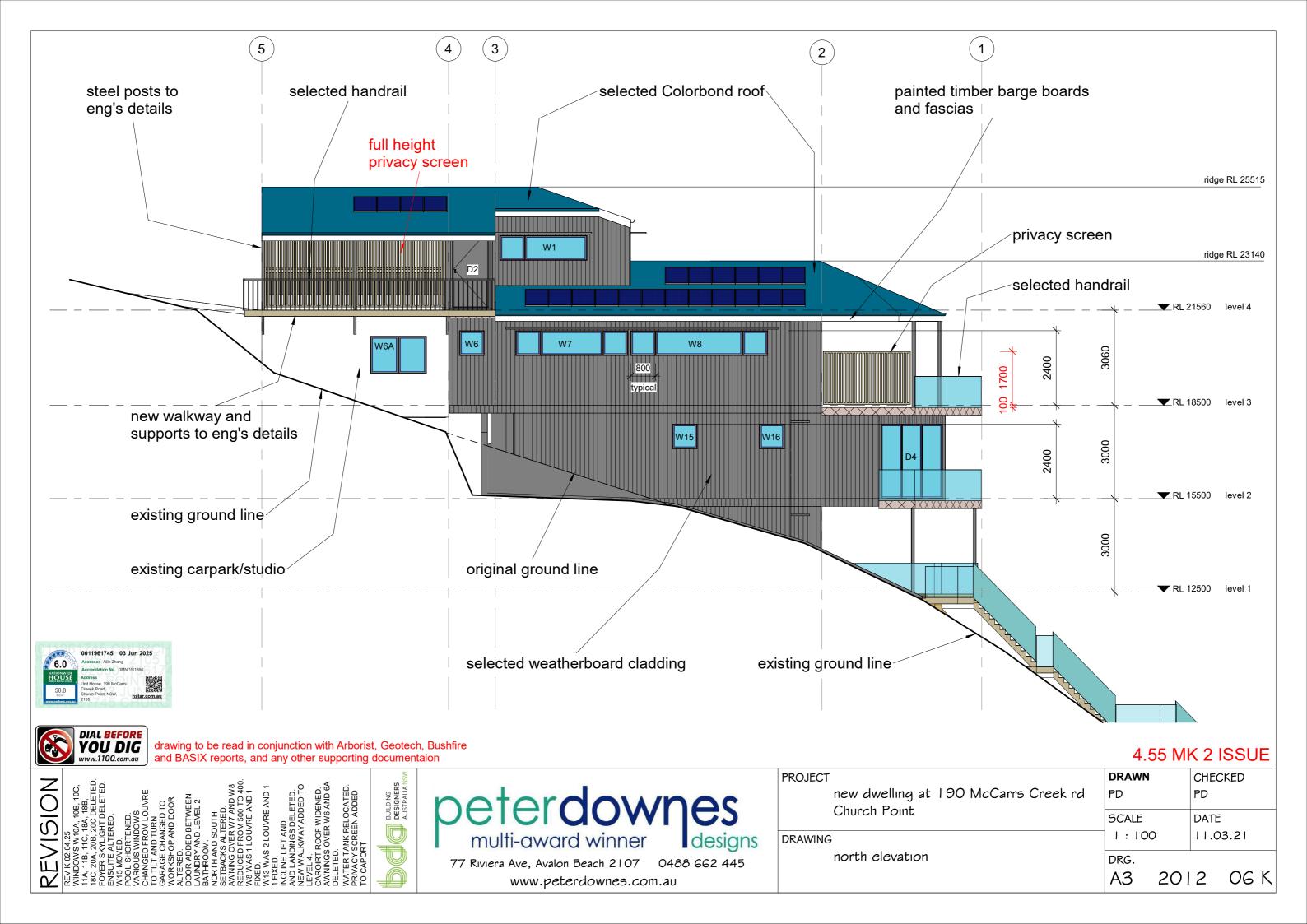




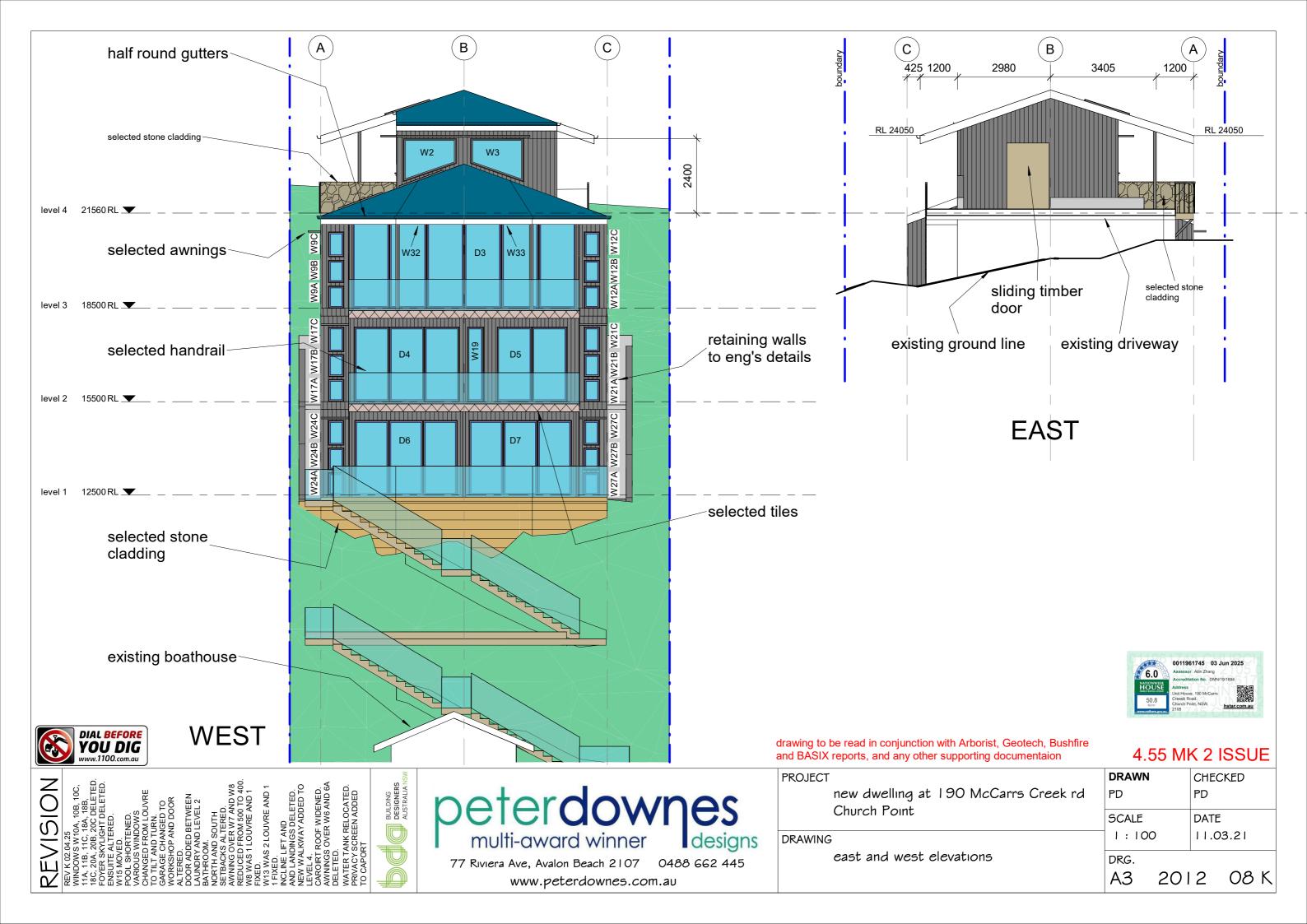


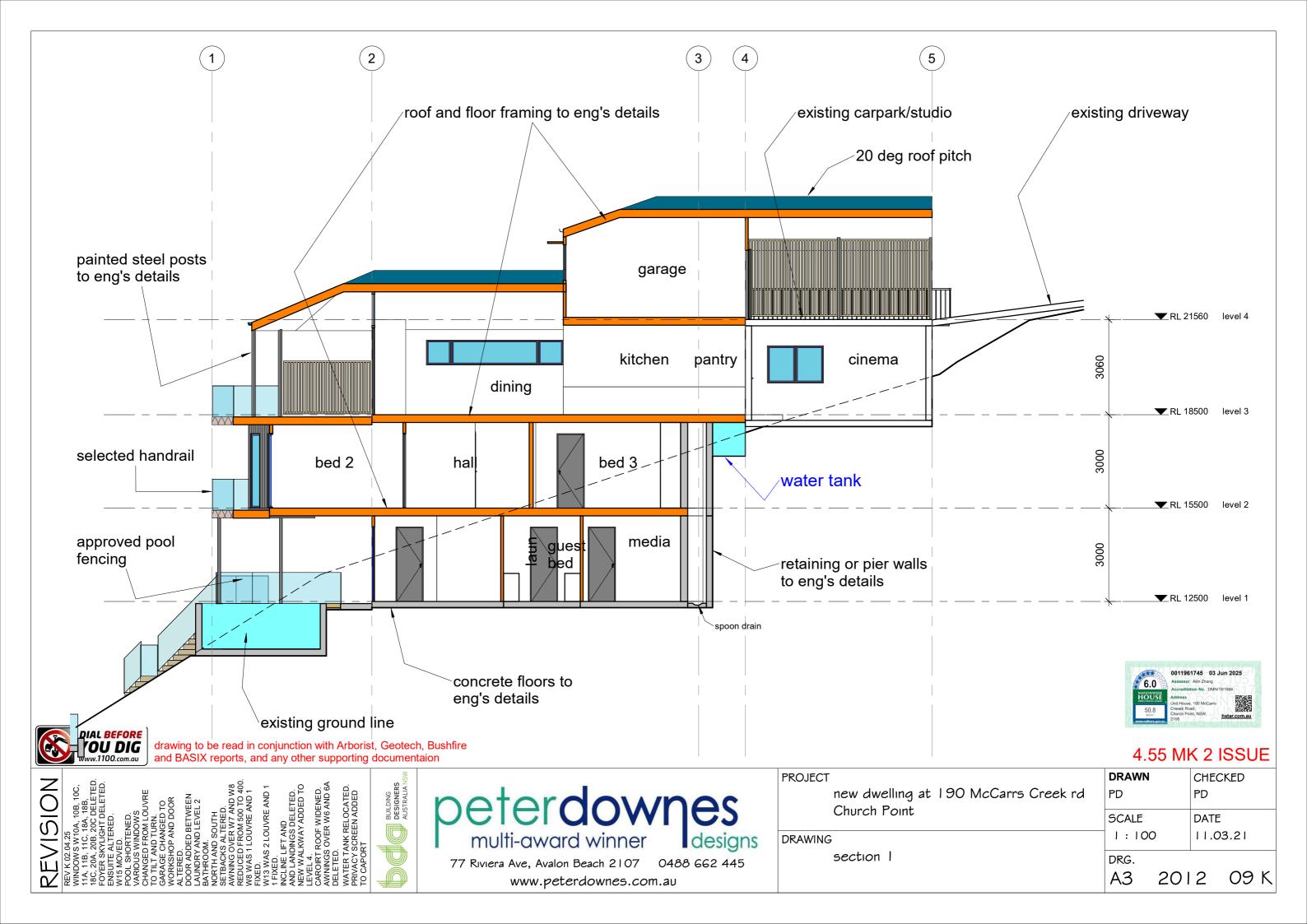


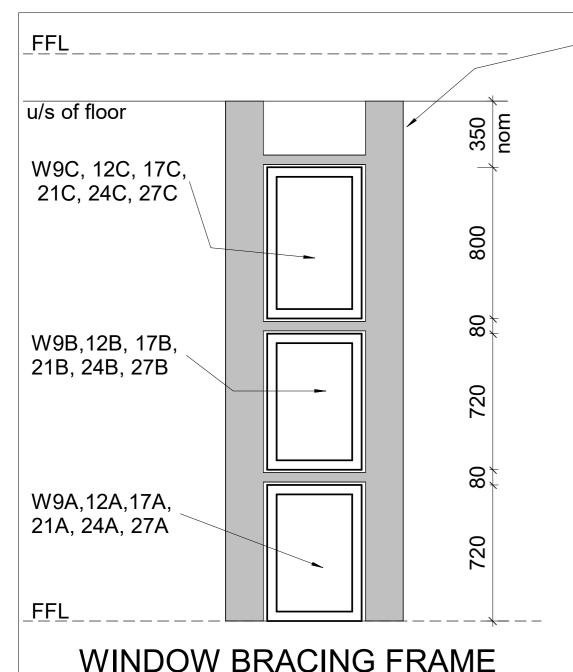








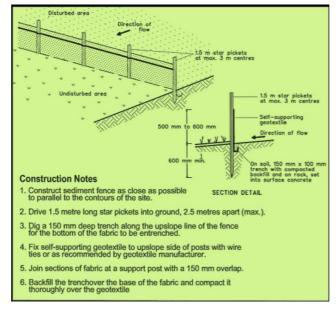


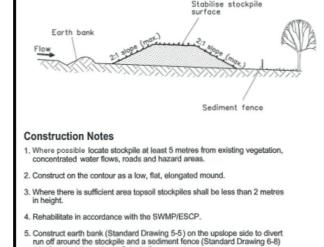


✓ steel frame

VB1 - refer

to eng drg's





SD 4-1

ARRANGEMENT scale 1 to 20



ESTUARINE PLANNING LEVEL NOTES

All structural elements below 2.53 m AHD shall be of flood compatible materials. All electrical equipment, wiring, fuel lines or any other service pipes and connections must be above 2.53 m AHD.

All power supplies (including electrical fittings, outlets and switches) must be above 2.53 m AHD.

BUILDING NOTES

All work to be carried out by suitably licensed and qualified tradesmen, and to comply with all relevant standards and Councils requirements.

Main contractor to be responsible for obtaining all necessary inspection certificates.

An approved sedimentation control system is to be installed and maintained for the duration of the construction.

Smoke alarms are to be fitted in accordance with Building Code of Australia requirements.

Termite protection is to be in the form of a physical barrier (eg Termimesh or similar) - no chemical barriers to be used.

DEMOLITION NOTES

existing house, garage, driveway, paths, retaining walls, external stairs etc to be demolished.

all demolition materials to be disposed of in an approved and proper manner

adjoining properties to be protected at all times

asbestos (if encountered) is to be disposed of in an approved and proper manner

EROSION AND SEDIMENT CONTROL PLAN

- **1.** All excavations and backfilling associated with the erection or demolition of a building must be executed safely and in accordance with appropriate professional standards.
- **2.** All excavations associated with the erection or demolition of a building must be properly guarded and protected to prevent them from being dangerous to life or property.
- **3.** Where excavations extend below the level of the base of the footings of a building on an adjoining allotment of land, the person causing the excavation must preserve and protect the building from damage and, if necessary, underpin and support the adjoining building in an approved manner.
- **4.** Temporary sedimentation and erosion controls are to be constructed prior to commencement of any work to eliminate the discharge of sediment from the site.
- **5.** Adequate measures shall be undertaken to remove clay from vehicles leaving the site so as to maintain public roads in a clean condition.
- **6.** Builder to confirm the locations of barrier fences and stockpiles onsite, see suggested main barrier fence location on site plan.
- **7.** Sediment fences and stockpiles to be constructed in accordance with modern standards and the diagrams seen to the left.
- **8.** Due to the steeply sloping site, special care will be taken to prevent sediment runoff into existing drains or the waterway.
- **9.** Note that due to the constraints of the site, barriers may need to be relocated during construction.
- **10.** All ESCP measures are to be installed and managed in accordance with Landcom's Managing Urban Stormwater: *Soils and Construction* 2004.

4.55 MK 2 ISSUE

EV K 02.04.25
INDOWS W10A, 10B, 10C, 1A, 11B, 11C, 18A, 18B, 3C, 20A, 20B, 20C DELETED.

SYG, 20A, 20B, 20C DELETED.

SYG, 20A, 20B, 20C DELETED.

SYLLIGHT DELETED.

ASSULTE ALTERED.

115 MOVED.

OOL SHORTENED.

ARNOUS WINDOWS
HANGED FROM LOUVRE

OTIL AND TURN.

ARRAGE CHANGED TO

OOR ADDED BETWEEN

AURORY AND DOOR

LITERED.

OOR ADDED BETWEEN

ATHROOM.

ATHROOM

AUNING OVER W7 AND W8

ETBACKS ALTERED.

WINING OVER W7 AND W8

ETBACKS ALTERED.

WINING OVER W7 AND W8

ETBACKS ALTERED.

WINING SOVER W6 AND 1

FIXED.

1/13 WAS 2 LOUVRE AND 1

FIXED.

ITAND

WAS 1 LOUVRE AND 1

SEDUCED FROM 50G TO 400.

SEDUCED FROM 50G TO 50G T

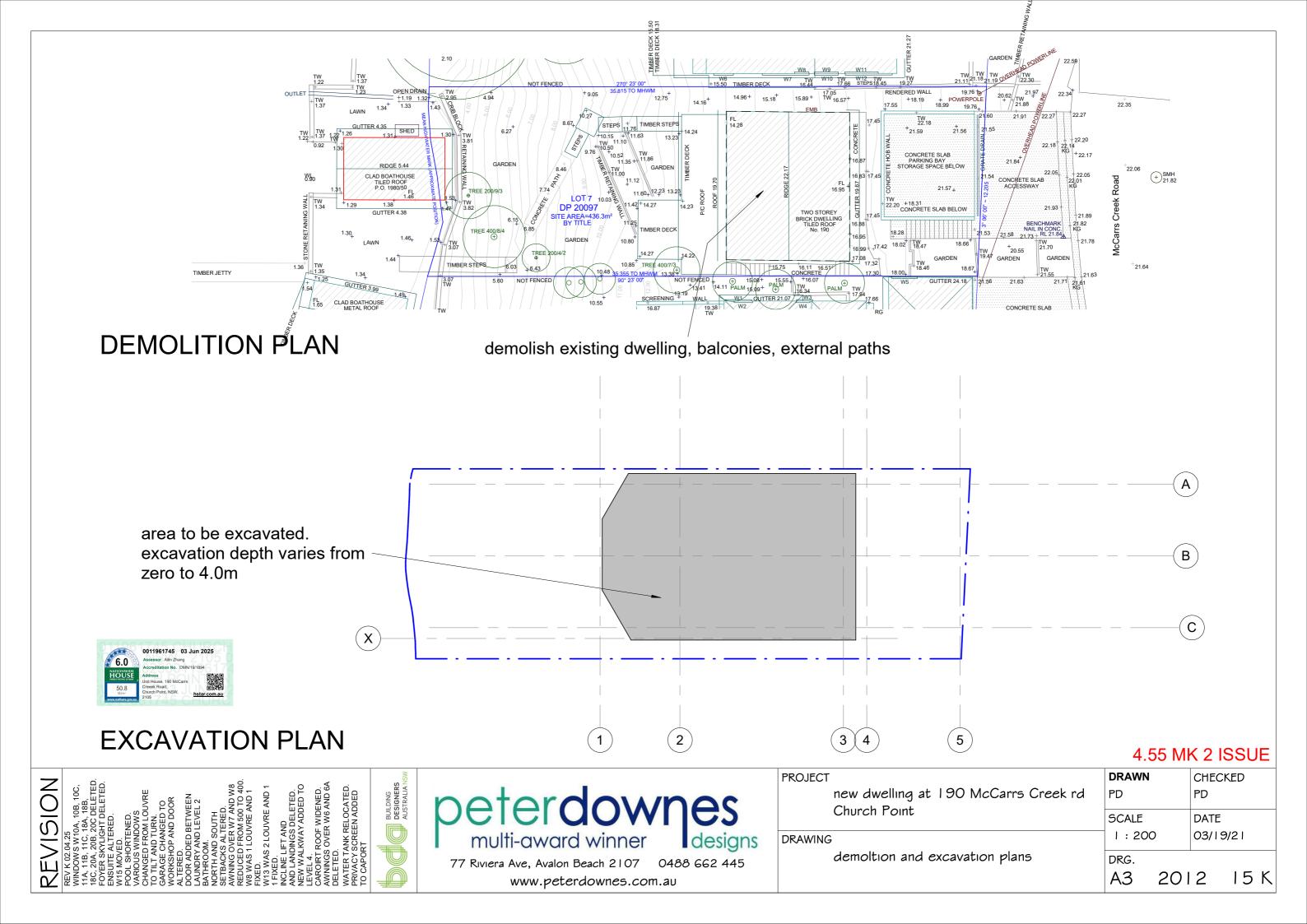
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1 to 2 metres downslope of stockpile.

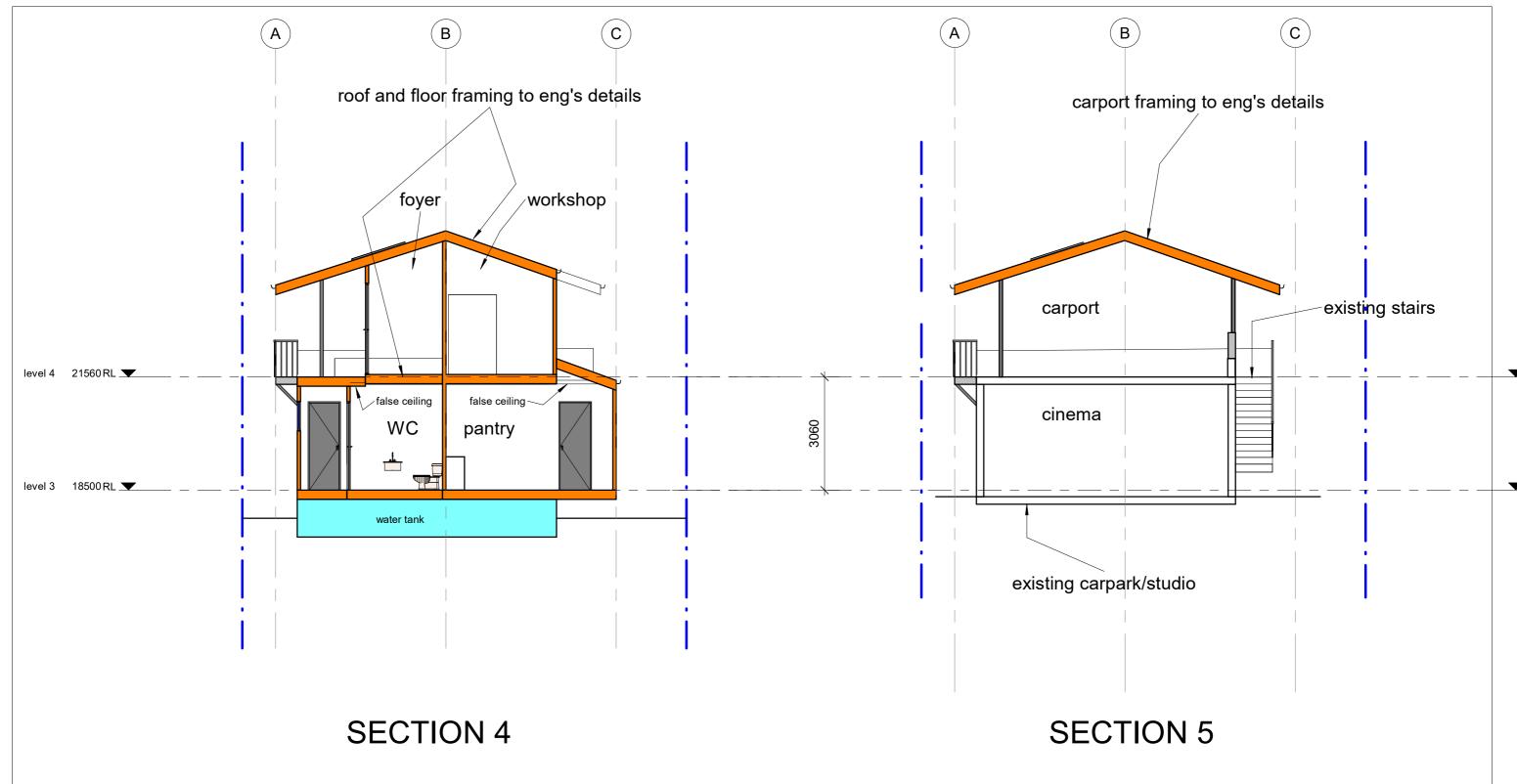
TOPSOIL STOCKPILE

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PROJECT	DRAWN		CHECK	.ED
new dwelling at 190 McCarrs Creek rd	PD		PD	
Church Point	SCALE		DATE	
DRAWING	1:20		11.03	.21
window bracing arrangement, ESCP, notes	DRG.			
	A3 2	20 I	2	10 K









EVISION

4.55 MK 2 ISSUE

ENSUITE ATTERED.
W15 MOVED.
POOL SHORTENED.
VARIOUS WINDOWS
CHANGED FROM LOUVRE
TO TILT AND TURN.
GARAGE CHANGED TO
WORKSHOP AND DOOR
ADDED BETWEEN
LAUNDRY AND LEVEL 2
BATTERED.
DOOR ADDED BETWEEN
LAUNDRY AND LEVEL 2
BATTERED.
AWNING OVER W7 AND W8
REDUCED FROM 500 TO 400.
W8 WAS 1 LOUVRE AND 1
FIXED.
W13 WAS 2 LOUVRE AND 1
FIXED.
W13 WAS 2 LOUVRE AND 1
FIXED.
W14 WALKWAY ADDED TO
LEVEL 4.
CAROIRT ROOF WIDENED.
AWNINGS OVER W6 AND 64
DELETED.
WATER TANK RELOCATED.
WATER TANK RELOCATED.
WATER TANK RELOCATED.
WATER TANK RELOCATED.
PRIVACY SCREEN ADDED
TO CAPORT

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	PROJECT	DRAWN	CHECKED
new dwelling at 190 McCarrs Creek rd	PD	PD	
	Church Point	SCALE	DATE
	DRAWING	1:100	07/05/21
	sections 4 and 5	DRG.	
		A3 201	12 17 K

Schedule of BASIX commitments

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Landscape			
The applicant must plant indigenous or low water use species of vegetation throughout 120 square metres of the site.	V	~	
Fixtures			
The applicant must install showerheads with a minimum rating of 4 star (> 6 but <= 7.5 L/min plus spray force and/or coverage tests) in all showers in the development.		~	-
The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.		~	~
The applicant must install taps with a minimum rating of 4 star in the kitchen in the development.		~	
The applicant must install basin taps with a minimum rating of 5 star in each bathroom in the development.		~	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 3000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	V	~	~
The applicant must configure the rainwater tank to collect rain runoff from at least 90 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		~	V
The applicant must connect the rainwater tank to:			
the cold water tap that supplies each clothes washer in the development		~	V
 at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply.) 		V	V
Swimming pool		•	i I
The address of the second seco		T	1

Thermal Comfort Commitments		Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Simulation Method				
The applicant must attach the certificate referred to under "Assessor Details" on the front page Certificate") to the development application and construction certificate application for the propo- applying for a complying development certificate for the proposed development, to that applicat Assessor Certificate to the application for an occupation certificate for the proposed developme	osed development (or, if the applicant is tion). The applicant must also attach the			
The Assessor Certificate must have been issued by an Accredited Assessor in accordance with	h the Thermal Comfort Protocol.			
The details of the proposed development on the Assessor Certificate must be consistent with the certificate, including the Cooling and Heating loads shown on the front page of this certificate.	he details shown in this BASIX			
The applicant must show on the plans accompanying the development application for the proposassessor Certificate requires to be shown on those plans. Those plans must bear a stamp of e assessor to certify that this is the case. The applicant must show on the plans accompanying the perificate (or complying development certificate, if applicable), all thermal performance specific certificate, and all aspects of the proposed development which were used to calculate those specific	ndorsement from the Accredited he application for a construction cations set out in the Assessor	~	~	~
The applicant must construct the development in accordance with all thermal performance spec Certificate, and in accordance with those aspects of the development application or application which were used to calculate those specifications.			~	~
The applicant must show on the plans accompanying the development application for the proposeiling fans set out in the Assessor Certificate. The applicant must show on the plans accompa certificate (or complying development certificate, if applicable), the locations of ceiling fans set	nying the application for a construction	~	~	~
The applicant must construct the floors and walls of the dwelling in accordance with the specific	cations listed in the table below.	V	~	V
Floor and wall construction	Area			
loor - concrete slab on ground	66.0 square metres			
loor - suspended floor/open subfloor	32.0 square metres			

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The swimming pool must have a pool cover.			
The swimming pool must be shaded.	~	~	
The swimming pool must be outdoors.	~	~	

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Hot water			
The applicant must install the following hot water system in the development, or a system with a higher energy rating: gas instantaneous with a performance of 5 stars.	V	~	~
Cooling system			
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: EER 2.5 - 3.0		~	~
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: EER 2.5 - 3.0		~	-
The cooling system must provide for day/night zoning between living areas and bedrooms.		V	~
Heating system			
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: EER 3.0 - 3.5		~	~
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: EER 3.0 - 3.5		~	~
The heating system must provide for day/night zoning between living areas and bedrooms.		~	~
Ventilation			
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: individual fan, ducted to façade or roof; Operation control: manual switch on/off		~	~
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		~	~
Laundry: individual fan, ducted to façade or roof; Operation control: interlocked to light		~	-
Artificial lighting			
The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent or light emitting diode (LED) lamps:			
at least 4 of the bedrooms / study;		J	U

all downlights to be 90 mm dia. all recessed downlights to be sealed to prevent air leakage and IC rated with insulation installed continuously over



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PROJECT		DRAWN		CHECK	ŒD	
	new dwelling at 190 McCarrs Creek rd	PD		PD		
	Church Point	SCALE		DATE		
DRAWING				22/06	/2	
	BASIX sht I	DRG.				
		A3	20 I	2	18	K

REVISION

WINDOWS W104, 108, 106

114, 11B, 11C, 184, 18B,
18C, 20A, 20B, 20C DELET
FOYER SKYLIGHT DELETE
ENSUITE AL TERED.

W15 MOVED.

W15 MOVED.

W15 MOVED.

VARIOUS WINDOWS
CHANGED FROM LOUVRE
TO TILT AND TURN.
GARAGE CHANGED TO
WORKSHOP AND DOOR
ALTERED.

DOOR ADDED BETWEEN
LAUNDRY AND LEVEL 2
BATHROOM.

SETBACKS ALTERED.

AWNING OVER W7 AND W
REDUCED FROM 500 TO 4
W8 WAS 1 LOUVRE AND 1
FIXED.

W13 WAS 2 LOUVRE AND 1
INCLINE LIFT AND
NEW WALKWAY ADDED T

BUILDING DESIGNERS AUSTRALIA NS

Show on DA plans	Show on CC/CDC plans & specs	Certifier check
	J	J
	J	J
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		-
	~	-
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	DA plans	DA plans plans & specs

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REVISION

4.55 MK 2 ISSUE

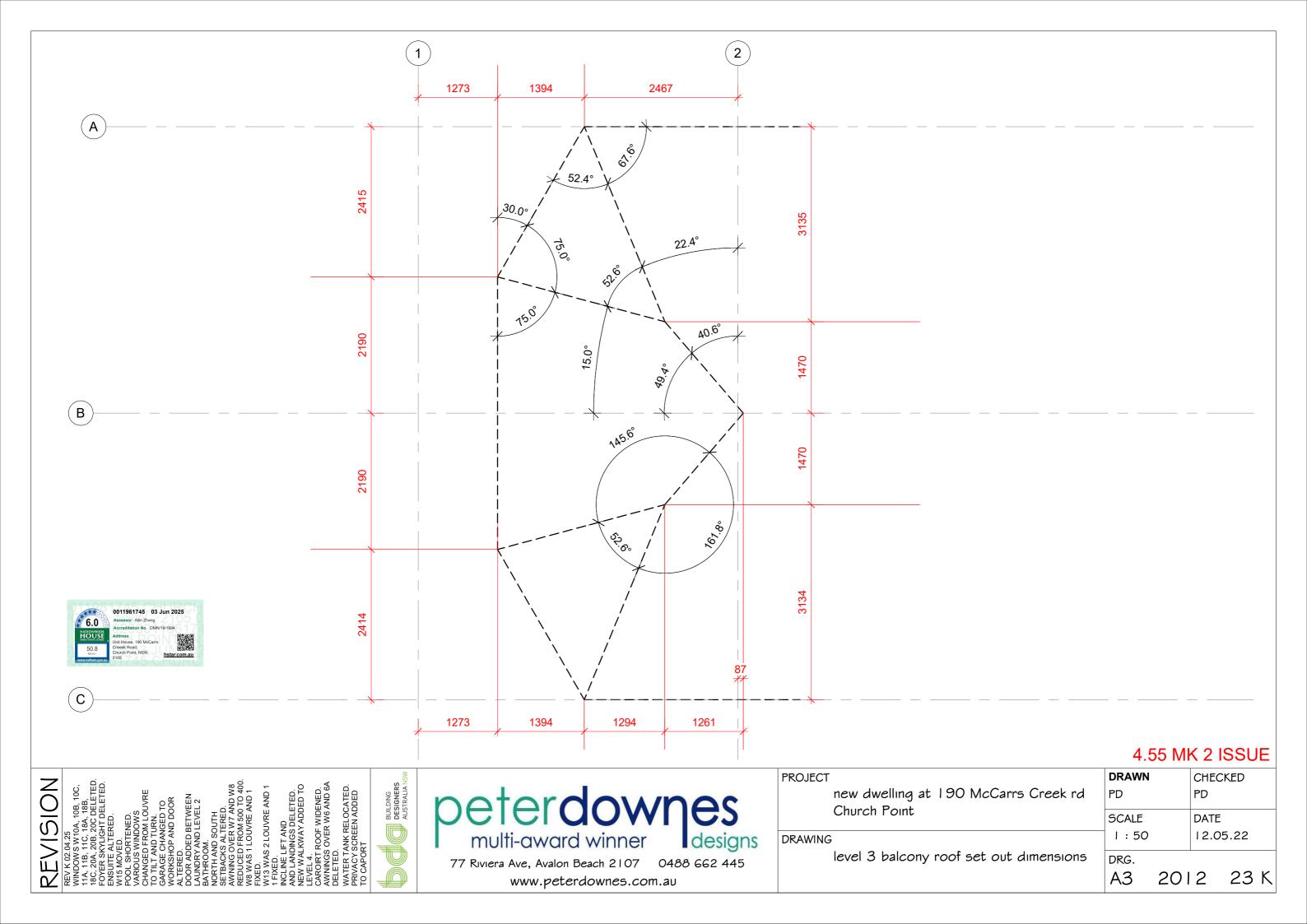


WAS 2 LOUVRE AND 1 INE LIFT AND LANDINGS DELETED. WALKWAY ADDED TO EL 4.

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PROJECT	DRAWN	CHECKED
new dwelling at 190 McCarrs Creek	rd PD	PD
Church Point	SCALE	DATE
DRAWING		22/06/21
BASIX sht 2	DRG.	
	A3 201	2 19 K



DRAWN PD

at 190 McCarrs Creek rd

new dwelling

PROJECT

20

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DRG. S

door schedule

window and

DRAWING

DATE 07/27/21

SCALE

Description	
1 fixed, 1 tilt and turn	
1 fixed	
1 fixed	
1 tilt and turn	
1 tilt and turn	
1 tilt and turn - obs	
2 tilt and turn	
1 fixed, 2 tilt and turn	
3 fixed	
1 fixed	
1 tilt and turn	
1 tilt and turn	
1 fixed	
1 tilt and turn	
1 tilt and turn	
3 fixed	
1 fixed, 1 tilt and turn	
1 tilt and turn - obs	
1 tilt and turn - obs	
1 fixed	
1 tilt and turn	
1 tilt and turn	
1 tilt and turn	
1 fixed	
1 tilt and turn	
1 tilt and turn	
1 tilt and turn - frosted	
1 fixed, 1 tilt and turn	
1 fixed	
1 tilt and turn	
1 tilt and turn	
1 fixed	
1 tilt and turn	
1 tilt and turn	
1 tilt and turn	
1 tilt and turn - frosted	
not used	
	1

WINDOW AND DOOR SCHEDULE

800

1400

1400

800

800

800

1200

800

800

720

720

800

720

720

800

800

800

800

800

720

720

800

2400

720

720

800

800

800

720

720

800

720

720

800

800

800

0

0

1650

1650

800

0

2400

2400

2400

2400

2400

2400

0

2100

Height Description

2 tilt and turn

6 panel stacker

3 panel stacker

3 panel stacker

3 panel stacker

3 panel stacker

not used

solid swing

multiple fixed panels

multiple fixed panels

selected timber door

not used

not used

Width

2800

1700

1700

800

800

800

1800

3600

4400

500

500

500

500

500

500

4400

2500

800

600

500

500

500

600

500

500

500

800

3300

500

500

500

500

500

500

800

800

0

0

3460

3460

1600

0

1100

7200

3900

2400

3300

3300

0

800

Mark

W1

W2

W3

W4

W5

W6

W6A

W7

W8

W9A

W9B

W9C

W12A

W12B

W12C W13

W14

W15

W16

W17A

W17B

W17C

W19

W21A

W21B

W21C

W22

W23

W24A

W24B

W24C

W27A

W27B

W27C

W28

W29

W30

W31

W32

W33

W34

D1

D2

D3

D4

D5

D6

D7

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D9

Orientation

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WINDOW AND DOOR NOTES

all windows and doors to be UPVC, double glazed and Argon filled.

all window and door dimensions to be verified by the builder

all doors and windows to be fitted with draft seals

frosted glass to W10A, 10B, 11A, 11B, 18A, 18B 20A and 20B

all window openings to be in accordance with BCA 3.9.2.6 and 3.9.2.7

all internal doors to be 820 x 2400

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REV K 02.04.25 WINDOWS W10A, 10B, 10C, 11A, 11B, 11C, 18A, 18B, 18C, 20A, 20B, 20C DELETED. FOYER SKYLIGHT DELETED. ENSUITE ALTERED. W15 MOVED. POOL SHORTENED. **VARIOUS WINDOWS** CHANGED FROM LOUVRE TO TILT AND TURN. GARAGE CHANGED TO WORKSHOP AND DOOR ALTERED. DOOR ADDED BETWEEN LAUNDRY AND LEVEL 2 BATHROOM. NORTH AND SOUTH SETBACKS ALTERED. AWNING OVER W7 AND W8 REDUCED FROM 500 TO 400. W8 WAS 1 LOUVRE AND 1 FIXED. W13 WAS 2 LOUVRE AND 1 1 FIXED INCLINE LIFT AND AND LANDINGS DELETED NEW WALKWAY ADDED TO CAROIRT ROOF WIDENED. AWNINGS OVER W6 AND 6A DELETED.



