



Reference number 3304

Member of the Fire Protection Association of Australia

Lot 12, DP 776130, 180 McCarrs Creek Road, Church Point, NSW 2105.

Wednesday, 14 April 2021

Prepared and certified by:	Matthew Willis BPAD – Level 3 Certified Practitioner Certification No: BPD-PA 09337	Math history	14/04/2021
section 7.5, 7.5.1, applicable) of the Ru	mply with AS3959-2018 (inc 7.5.2, 7.5.3, 7.5.4 (where ural Fire Services document shfire Protection 2019)?	Yes	
What is the recommended AS 3959-2018 level of compliance?		BAL-40 and BAL-29	
Is referral to the RFS required?		No	
Can this development comply with the requirements of PBP?		Yes	
Plans by "Action P	lans" (Appendix 1) dated.	3/3/2021	

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Bushfire Planning Services

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Bushfire Risk Assessment

Wednesday, 14 April 2021

Contact

Anthea Then 180 McCarrs Creek Road Church Point NSW 2105

Subject Property

Lot 12, DP 776130 180 McCarrs Creek Road Church Point NSW 2105





BUSHFIRE RISK ASSESSMENT CERTIFICATE

THIS FORM IS TO BE COMPLETED BY A RECOGNISED CONSULTANT IN BUSHFIRE RISK ASSESSMENT IN ACCORDANCE WITH SECTION 79BA 1(b) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979 NO 203

Property Address	Lot 12, DP 776130, number 180 McCarrs Creek Road Church Point
Description of the Proposal	Alterations and additions to an existing dwelling
Plan Reference	3/3/2021
BAL Rating	BAL-40 and BAL-29
Does the Proposal Rely on Alternate Solutions?	No

I, Matthew Willis of Bushfire Planning Services Pty Ltd have carried out a bushfire risk assessment on the above-mentioned proposal and property. A detailed Bushfire Assessment Report is attached which includes the submission requirements set out in Planning for Bushfire Protection 2019 together with recommendations as to how the relevant Specifications and requirements are to be achieved.

I hereby advise, in accordance with Section 4.14 of the Environmental Planning and Assessment Act 1979 No 203:

- 1. That I am a person recognised by the NSW Rural Fire Service as a qualified consultant in bushfire risk assessment; and
- 2. That subject to the recommendations contained in the attached Bushfire Risk Assessment Report the proposed development conforms to the relevant specifications and requirements*
- *The relevant specifications and requirements being specifications and requirements of the document entitled Planning for Bush Fire Protection prepared by the NSW Rural Fire Service in co-operation with the Department of Planning and any other document as prescribed by Section 4.14 of the Environmental Planning and Assessment Act 1979 No 203.

I am aware that the Bushfire Assessment Report, prepared for the above-mentioned site is to be submitted in support of a development application for this site and will be relied upon by Northern Beaches Council as the basis for ensuring that the bushfire risk management aspects of the proposed development have been addressed in accordance with Planning for Bushfire Protection 2019.

REPORT REFERENCE	Wednesday, 14 April 2021
REPORT DATE	Wednesday, 14 April 2021
CERTIFICATION NO/ACCREDITED SCHEME	FPAA BPAD A BPD-PA 09337

Attachments:

- Bushfire Risk Assessment Report
- Recommendations

SIGNATURE: --- DATE: -----Wednesday, 14 April 2021





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1 Executive Summary.

Bushfire Planning Services has been requested to supply a bushfire compliance report on lot 12, DP 776130, 180 McCarrs Creek Road, Church Point.

The works proposed for the subject lot are for the alterations and additions to an existing dwelling, see attached plans for details.

The subject lot is on the western side of McCarrs Creek Road and at its closest point to the hazard the proposed new work has a separation distance to the east of approximately 22.74m.

The vegetation that is considered to be the hazard to this proposal is situated on land that slopes up slope away from the property at an angle of approximately 22.50°.

For the purposes of this assessment this vegetation is considered to be Forest.

The remaining vegetation within the study area is contained within the boundaries of established allotments and is managed land and of low threat to this proposal.

The calculations and assumptions outlined in this report show that the development will be required to comply with the construction requirements of AS 3959-2018 BAL-40 on its exposed eastern, northern and southern aspects, and BAL-29 on the western aspects and any additional construction requirements contained within section 7.5, 7.5.1,7.5.2, 7.5.3, 7.5.4 (where applicable) of the Rural Fire Services document Planning for Bushfire Protection 2019.

The following table is a summary of the pertinent findings of this assessment.

Aspect	North	East	South	West
Vegetation type	Managed land	Managed land/forest	Managed land	Managed land
Slope	N/A	All Upslope and Flat Land	N/A	N/A
Setback within lot 12	N/A	8.743m	N/A	N/A
Setback outside lot 12	N/A	14m	N/A	N/A
Total setback	N/A	22.743m	N/A	N/A
Bal level	N/A	BAL-40	N/A	N/A

Note: The above table is a summary of the significant variables used to determine the highest BAL for this proposal. THIS TABLE IS NOT INTENDED FOR CONSTRUCTION!

Only the highest BAL level is shown, aspects marked as N/A will still have a BAL. Refer to section 11 for construction requirements for these other aspects.





2 General.

This proposal relates to the alterations and additions to an existing dwelling on the subject lot and its ability to comply with the rules and regulations for building in a bushfire prone area.

The methodology used on this report is based on Planning for Bushfire Protection 2019 (PBP) as published by the New South Wales Rural Fire Service.

Any wording that appears in *blue italics* is quotes from Planning for Bushfire Protection 2019. Some of the measurements used in this report have been taken from aerial photographs and as such are approximate only.

3 Block Description.

The subject block is situated on the western side of McCarrs Creek Road in an established area of Church Point.

The lot currently contains a multi-level class 1 dwelling.

The lands surrounding the proposed site on the subject lot to a distance of at least 22.74m contain existing development or land that is otherwise not considered to be a significant bushfire hazard.

- Lot: 12
- DP; 776130.
- LGA; Northern Beaches.
- Area; 771m2.
- Address; 180 McCarrs Creek Road, Church Point.

This section has been left blank.







Map 1 shows the cadastral layout around the subject lot.



Map 2 is an extract from the councils' bushfire prone land map. The map shows lot 12 to be within the buffer zone of category 1 bushfire vegetation.





4 Vegetation.

The study area for the vegetation is 140m surrounding the subject block.

The vegetation within the study area for this development is considered to be largely managed land.

The major potential hazard to this development is the vegetation within an area of undeveloped land to the east.

For the purpose of this assessment and compliance with Planning for Bushfire Protection this area of undeveloped land is considered to be Forest and is the hazard to this proposal.



Photo 1 - An overview of the vegetation within the general area.

This area has been left intentionally blank.







Photo 2 is a closer view of the vegetation in the area.

Table 1 outlines the vegetation orientation and distance from the development area.

Aspect	North	East	South	West
Vegetation type	Managed land	aged land Managed Managed land		Managed land
Setback within lot 12	N/A	8.743m	N/A	N/A
Off-site setback	N/A	14m	N/A	N/A
Total setback	N/A	22.743m	N/A	N/A

Table 1 - Any aspect marked with "N/A" in the table above indicates that it is considered there is none or only a secondary hazard in that direction.

This area has been left intentionally blank.





5 Known constraints on subject block.

I have not been informed or know of any places of cultural or environmental significance within the boundaries of the subject block. Given the nature of the surrounding land it is considered highly unlikely that anything of significance will be affected by this development.

6 Slope.

The slope of the land beneath the hazard that is most likely to influence bushfire behaviour has been calculated by topographical map analysis to a distance of 100m from the subject lot.

An extract of the topographical map for the area is shown below and the relevant slope analysis is shown in Table 2.



Table 2 shows the slope beneath the hazard.

Aspect	North	East	South	West
Slope	N/A	All Upslope and Flat Land	N/A	N/A

Table 2 - Any aspect marked with "N/A" in the table above indicates that it is considered there is no hazard in that direction.



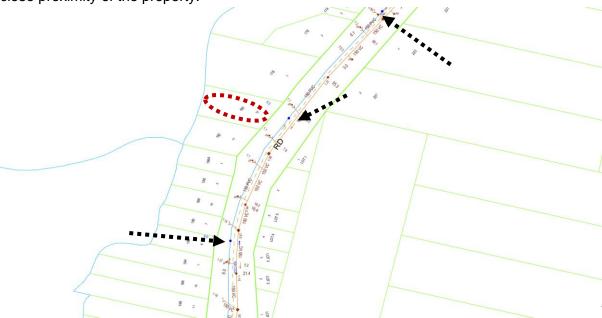


7 Utilities.

7.1 Water.

The subject block will be serviced by a reticulated water supply.

The following map is an extract from Sydney waters hydrant map. Hydrants are indicated by a blue dot on a blue line. As can be seen there is at least one hydrant point indicated within close proximity of the property.



7.2 Electricity

Main's electricity is available to the block.

7.3 Gas

It is unknown if either bottled or mains gas is to be altered or installed in this proposal.

8 Access/Egress.

Access to the development site will be via a short private driveway from McCarrs Creek Road.

All roads in the vicinity are considered to be capable of carrying emergency services vehicles and pedestrian access onto the lot is also considered to be adequate.





Analysis of development and recommendation.

9 Compliance with Planning for Bushfire Protection setbacks.

Based on the development design, vegetation classification, effective slope estimates and setback distance already outlined in this report the subject development will be required to comply with the deemed to satisfy construction requirements of AS 3959-2018 BAL-40 and the RFS requirements on all fire prone aspects.

The following table is an extract from table A1.12.5 of Planning for Bushfire Protection 2019. This table is used to calculate the BAL for a proposal in an area with an FDI of 100.

The variables that have already been outlined in this assessment are highlighted in red with the highest BAL highlighted in yellow.

	Keith Vegetation Formation	BUSHFIRE ATACK LEVEL (BAL)				
۵		BAL-FZ	BAL-40	BAL-29	BAL-19	BAL-12.5
AND	Arid-Shrublands (acacia and chenopod)	< 5	5 -< 6	6 -< 9	9 -< 14	14 -< 100
	Forest (wet and dry sclerophyll)	< 18	18 -< 24	24 -< 33	33 -< 45	45 -< 100
LAT	including Coastal Swamp Forest, Pine					
급	Plantations and Sub-Alpine Woodland					
AND	Forested Wetland (excluding Coastal	< 7	7 -< 10	10 -< 14	14 -< 21	21 -< 100
4	Swamp Forest)					
PE	Freshwater Wetlands	< 4	4 -< 5	5 -< 7	7 -< 11	11 -< 100
Ö	Grassland	< 8	8 -< 10	10 -< 15	15 -< 22	22 -< 50
UPSI	Grassy and Semi-Arid Woodland	< 9	9 -< 12	12 -< 18	18 -< 26	26 -< 100
5	(including Mallee)					
ALL	Rainforest	< 8	8 -< 11	11 -< 16	16 -< 23	23 -< 100
4	Short Heath	< 7	7 -< 9	9 -< 14	14 -< 20	20 -< 100
	Tall Heath	< 12	12 -< 16	16 -< 23	23 -< 32	32 -< 100

For the purpose of this assessment the eastern aspect has been chosen as the most potentially hazardous aspect due to the effective slope, potential run of fire and the prevailing fire weather of the area.

10 Siting.

The current site provides adequate separation between the proposed building and surrounding vegetation for a compliant structure to be built.

Recommendation;

Nil.





11 Construction and design.

All new work is to be undertaken in accordance with the relevant requirements of the NCC and AS3959 2018. The following recommendations are a minimum level of construction. Constructing the proposal to a higher level than that recommended is allowable under AS3959.

Recommendation; All new work to the eastern, northern and southern aspects.

- 1. New construction on the eastern, northern and southern aspects shall comply with the requirements of section 3 of Australian Standard AS3959-2018 "Construction of buildings in bush fire-prone areas" and,
- 2. New construction on the eastern, northern and southern aspects shall also comply with the requirements of BAL-40 Australian Standard AS3959-2018 "Construction of buildings in bush fire-prone areas" or NASH Standard "National Standard Steel Framed Construction in Bushfire Areas" and any additional construction requirements contained within section 7.5, 7.5.1,7.5.2, 7.5.3, 7.5.4 (where applicable) of the Rural Fire Services document Planning for Bushfire Protection 2019.

Recommendation; All new work to the western aspect.

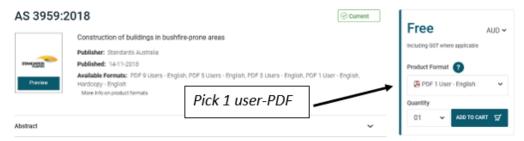
- 3. New construction on the western aspects shall comply with the requirements of section 3 of Australian Standard AS3959-2018 "Construction of buildings in bush fire-prone areas" and,
- 4. New construction on the western aspects shall also comply with the requirements of and BAL-29 Australian Standard AS3959-2018 "Construction of buildings in bush fire-prone areas" or NASH Standard "National Standard Steel Framed Construction in Bushfire Areas" and any additional construction requirements contained within section 7.5, 7.5.1,7.5.2, 7.5.3, 7.5.4 (where applicable) of the Rural Fire Services document Planning for Bushfire Protection 2019.

Recommendation; General.

All proposed Class 10 buildings attached to or within 6 metres of the habitable building shall comply with section 8 (BAL-40) Australian Standard AS3959-2018 "Construction of buildings in bush fire-prone areas and section 7.5 of Planning for Bush Fire Protection. Class 10 structures greater than 6m from a habitable building have no bushfire construction requirements. Notwithstanding this, the incorporation of ember protection is highly recommended.

AS-3959 2018 is now available as PDF for free from;

https://infostore.saiglobal.com/en-au/standards/as-3959-2018-122340 saig as as 2685241/







12 Utilities.

12.1 Water.

The proposed development will have access to a reticulated water supply. There is at least one hydrant indicated within the required distance from the dwelling.

Recommendation;

Nil.

12.2 Electricity and Gas.

Recommendation;

5. Any new electricity or gas connections are to comply with the requirements of table 7.4a of Planning for Bushfire Protection.

13 Asset Protection Zone (APZ).

The Asset Protection Zone is "An area surrounding a development managed to reduce the bushfire hazard to an acceptable level. The width of an APZ will vary with slope, vegetation and construction level".

Recommendation:

6. At the commencement of building works and in perpetuity the entire property shall be managed as an Asset Protection Zone in accordance with the requirements of Planning for Bushfire Protection, the RFS document Standards for Asset Protection Zones and in a manner that does not create a bushfire hazard to the property.

14 Landscaping.

Recommendation;

7. Any new fencing is to be constructed in accordance with section 7.6 of Planning for Bushfire Protection 2019.

- 8. Any new landscaping to the site is to comply with the principles of Appendix 4 and section 3.7 of Planning for Bush Fire Protection 2019. In this regard the following landscaping principles are, where applicable, to be incorporated into the development¹:
 - Suitable impervious areas being provided immediately surrounding the building such as courtyards, paths and driveways;

-

¹Refer to referenced documents for a complete description.





- Grassed areas/mowed lawns/ or ground cover plantings being provided in close proximity to the building;
- Restrict planting in the immediate vicinity of the building which may over time and if not properly maintained come in contact with the building;
- Maximum tree cover should be less than 30%, and maximum shrub cover less than 20%;
- Planting should not provide a continuous canopy to the building (i.e. trees or shrubs should be isolated or located in small clusters);
- When considering landscape species consideration needs to be given to estimated size of the plant at maturity;
- Avoid species with rough fibrous bark, or which retain/shed bark in long strips or retain dead material in their canopies;
- Use smooth bark species of trees species which generally do not carry a fire up the bark into the crown;
- Avoid planting of deciduous species that may increase fuel at surface/ ground level (i.e. leaf litter);
- · Avoid climbing species to walls and pergolas;
- Locate combustible materials such as woodchips/mulch, flammable fuel stores away from the building;
- Locate combustible structures such as garden sheds, pergolas and materials such timber garden furniture way from the building; and
- Use of low flammability vegetation species.

15 Constraints on the subject block.

None known.

Recommendation;

Nil

16 Access/Egress.

All roads in the area are considered to be capable of handling emergency service vehicles. Access from the roadway onto the property is also considered to be adequate for firefighting purposes.

Recommendation

Nil





17 Compliance or non compliance with the specifications and requirements for bushfire protection measures.

APZ A defendable space is provided onsite. An APZ is provided and maintained for the life of the development.	Achievable with the implementation of the recommendations in section 13
SITING AND DESIGN: Buildings are sited and designed to minimise the risk of bush fire attack.	Achievable with the implementation of the recommendations in section 10
CONSTRUCTION STANDARDS: It is demonstrated that the proposed building can withstand bush fire attack in the form of wind, smoke, embers, radiant heat and flame contact.	Achievable with the implementation of the recommendations in section 11
ACCESS Safe, operational access is provided (and maintained) for emergency services personnel in suppressing a bush fire while residents are seeking to relocate, in advance of a bush fire, (satisfying the intent and performance criteria for access roads in sections 4.1.3 and 4.2.7).	Achievable with the implementation of the recommendations in section 16
WATER AND UTILITY SERVICES: • adequate water and electricity services are provided for firefighting operations • Gas and electricity services are located so as not to contribute to the risk of fire to a building.	Achievable with the implementation of the recommendations in section 12
LANDSCAPING: • it is designed and managed to minimise flame contact and radiant heat to buildings, and the potential for wind driven embers to cause Ignitions.	Achievable with the implementation of the recommendations in section 14

18 Conclusions.

Based on the above report and with the implementation of the recommendation contained within this report the consent authority should determine that this development can comply with the requirements of AS 3959-2018 and 'Planning for Bushfire Protection' guidelines.

The recommendations contained within this report are to be implemented in their entirety. Changing one aspect may have an adverse effect on the rest of the recommendations.

Bushfires are affected by many external influences such as climactic conditions, vegetation type, moisture content of the fuel, slope of the land and human intervention to name a few and are difficult to predict.





This report does not intend to provide a guarantee that the subject property will survive if a bushfire should impact the surrounding area. The purpose of this report is to show the developments level of compliance or in some cases non-compliance with the New South Wales legislation regarding building in bushfire prone areas.

Where non-compliance is found measures will be suggested that should make the building less susceptible to the various attack mechanisms of a bushfire and comply with the performance requirements of the Building Code of Australia.

The opinions expressed in this report are based on the writers' experience and interpretation of the relevant guidelines and standards. Notwithstanding the above, these guidelines and standards are open to interpretation. All care has been taken to ensure that the opinions expressed in this report are consistent with past successful outcomes.

Some of the information used in the compilation of this assessment has been provided by the proponent or the proponent's representatives. While we believe this information to be true and have accepted the information in good faith however this company or its representatives will not accept any responsibility if the provided information is determined to be incorrect.

This document is to assist the consenting authorities with their assessment of this proposal. The recommendations contained in this assessment reflect the normal conditions that are typically applied by the consent authority for a proposal such as this however the conditions of consent for the proposal will be supplied by the certifying authority on approval of the development and may not necessarily be the same as the recommendations of this assessment.

The recommendations in this assessment are for planning guidance only, construction details and compliance with all building requirements are the responsibility of the Architect/Designer, Builder and Certifier.

To avoid confusion, unless specifically referenced by the consenting authority, it is strongly recommended that once this proposal has been approved that this document is no longer referenced and that only the official conditions of consent as reflected in documentation by the certifying body are used for construction guidance.

If any further clarification is required for this report, please do not hesitate to contact me using the details above.

Yours Sincerely

Matthew Willis

Grad Dip Planning for Bushfire Prone Areas

Bushfire Planning Services Pty Limited

Matthistin.





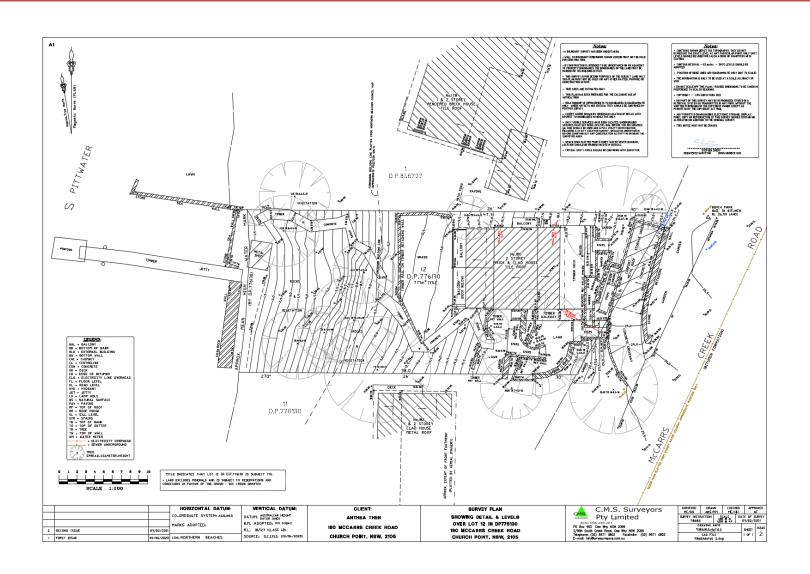
19 References.

- Australian Building Codes Board (2019). National Construction Code Volume One -Building Code of Australia. ABCB
- Australian Building Codes Board (2019). National Construction Code Volume two -Building Code of Australia. ABCB.
- Keith, D.A. (2004). Ocean Shores to Desert Dunes: The Native Vegetation of New South Wales and the ACT. NSW Department of Environment and Conservation.
- National Association of Steel Framed Housing (2014). "Steel Framed Construction in Bush Fire Areas. NASH
- Ramsay, C and Rudolph, L (2003) "Landscape and Building Design for Bush fire Areas". CSIRO Publishing, Collingwood.
- Resources and Energy NSW (2016). ISSC 3 Guide for the Managing Vegetation in the Vicinity of Electrical Assets. NSW Government
- Rural Fire Service NSW (2005) "Standards for Asset Protection Zones"
- Standards Australia (2018). "AS 3959, Construction of buildings in bush fire prone areas".
- Standards Australia (2018). "AS/NZS 1530.8.1 Methods for fire tests on building materials, components and structures Tests on elements of construction for buildings exposed to simulated bush fire attack Radiant heat and small flaming sources".
- Standards Australia (2018). "AS/NZS 1530.8.2 Methods for fire tests on building materials, components and structures - Tests on elements of construction for buildings exposed to simulated bush fire attack - Large flaming sources".
- Standards Australia (2014). "AS/NZS 1596 The storage and handling of LP Gas".





20 Appendix 1 - Plans.









ACTION PLANS

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DEVELOPMENT APPLICATION

This is a summary of the minimum specifications in 'Planning for Bushfire Protection 2006' as amended in 2010 and 'AS 3959 2009 -Construction of buildings in bushfire-prione areas' which are recommended in this report. It is included as a courtesy, is a guide only, and may not be complete. In addition, the contents of the documents from which this information was characted may have de Anagred between the dates of preparation of this report, and its user application. Specifications of hord documents such as the Building Code of Australe (BCA) may apply. It is the user's responsibility to comply with all statutory conditions as well as those specified by the approving authority with particular reference to this report. The appropriate source documents should be consulted to determine the full specifications abbreviated in this table.

		BAL-12.5	BAL-19	BAL-29	BAL-40
Floor	Slab OK		FRT or lined or end		
	Timber <400mm ag		Non-combustible or		
	Timber >400mm ag		FRT or enclosed		
Floor posts			FRT or encloses		Enclosed or non- combustible
External walls		400mm FRT or	non-combustible	FRT or non-combustible	Non-combustible
Windows	Frame	1000 PM 100 PM	FRT or metal	V 10 0-1 20 10 10 1	Metal
	Screens	Al, Fe or Br mesh on all openable		Fe or Br mesh on all openable, 5mm toughened glass, or shutters	Fe or Br mesh on all, 6mm toughened glass, or shutters
External doors	Sliding	Safety glass	5mm toughened glass Al, Fe or Br, if fith	6mm toughened glass or full mesh	6mm toughened glass plus full mesh or shutter
	Screens		Fe or Br		
	Timber frames	FRT			Metal only
	Garage	Lower 400mm FR	T or non-combustible	FRT or non-combustible	Non-combustible
Vents etc	Mesh		Al, Fe or Br mesh 2	!mm	Fe or Br mesh 2mm
Roofs	Tiled				
	Sheeted Non	-combustible, fully sarked (Flammability Index <5)			5)
	Rooflights	Non-combustible sleeve/lining, 4mm safety glass			FRL -/30/-
Verandahs, decks etc	Enclosed	Any supports, <3mm spaced deck, FRT or non-combustible			Any supports, unspaced deck, non-combustible
	Unenclosed	FRT or non-combustible, <3mm spaced deck			All non-combustible, unspaced deck
	<300mm to glass	300mm wide FRT	or non-combustible	FRT or non-combustible	Non-combustible
Services			Exposed wa	ter & gas pipes to metal	

SHEET NUMBER	SHEET NAME	DATE PUBLISHED
DA00	COVER	3/03/2021
DA01	SITE ANALYSIS	3/03/2021
DA02	SITE / ROOF / SEDIMENT EROSION / WASTE MANAGEMENT / STORMWATER CONCEPT PLAN	3/03/2021
DA03	EXISTING LOWER LEVEL PLAN	3/03/2021
DA04	EXISTING LOWER GROUND FLOOR PLAN	3/03/2021
DA05	EXISTING GROUND FLOOR PLAN	3/03/2021
DA06	EXISTING FIRST FLOOR PLAN	3/03/2021
DA07	PROPOSED LOWER LEVEL PLAN	3/03/2021
DA08	PROPOSED LOWER GROUND FLOOR PLAN	3/03/2021
DA09	PROPOSED GROUND FLOOR PLAN	3/03/2021
DA10	PROPOSED FIRST FLOOR PLAN	3/03/2021
DA11	NORTH ELEVATION	3/03/2021
DA12	EAST ELEVATION	3/03/2021
DA13	SOUTH ELEVATION	3/03/2021
DA14	WEST ELEVATION	3/03/2021
DA15	CROSS SECTION	3/03/2021
DA16	LONG SECTION	3/03/2021
DA17	EXISTING BOAT SHED PLAN	3/03/2021
DA18	PROPOSED BOAT SHED PLAN	3/03/2021
DA19	BOAT SHED NORTH / EAST ELEVATION	3/03/2021
DA20	BOAT SHED SOUTH ELEVATIONS	3/03/2021
DA21	BOAST SHED WEST ELEVATION	3/03/2021
DA22	BOAT SHED LONG / CROSS SECTION	3/03/2021
DA23	INCLINATOR SECTION	3/03/2021
DA24	AREA CALCULATIONS	3/03/2021
DA25	SAMPLE BOARD	3/03/2021
DA26	WINTER SOLSTICE 9 AM	3/03/2021
DA27	WINTER SOLSTICE 12 PM	3/03/2021
DA28	WINTER SOLSTICE 3 PM	3/03/2021
DA29	BASIX COMMITMENTS	3/03/2021

NCC & AS COMPLIANCES SPECIFICATIONS

- EARTHWORKS PART 3.1.1 OF NCC
- EARTH RETAINING STRUCTURES PART 3.1.2 OF NCC
- DRAINAGE PART 3.1.3 OF NCC
- TERMITE-RISK MANAGEMENT PART 3.1.4 OF NCC
- FOOTINGS & SLAB PART 3.2 OF NCC INCLUDING AS 2870-2011
- MASONRY PART 3.3 OF NCC INCLUDING AS 3700:2018
- FRAMING PART 3.4 OF NCC
- SUB FLOOR VENTILATION PART 3.4.1 OF NCC
- ROOF CLADDING AND WALL-CLADDING PART 3.5 OF NCC
- GLAZING PART 3.6 OF NCC INCLUDING AS 1288
- FIRE SAFETY PART 3.7 OF NCC
- FIRE SEPARATION OF EXTERNAL WALLS PART 3.7.2 OF NCC
- FIRE PROTECTION OF SEPARATING WALLS AND FLOORS- PART 3.7.3 OF NCC
- SMOKE ALARMS PART 3.7.5 OF NCC.
- WET AREAS AND EXTERNAL WATERPROOFING PART 3.8.1 OF NCC
- ROOM HEIGHTS PART 3.8.2 OF NCC - FACILITIES - PART 3.8.3 OF NCC
- LIGHT PART 3.8.4 OF NCC
- VENTILATION PART 3.8.5 OF NCC

180 McCARRS CREEK ROAD, **CHURCH POINT NSW 2105**

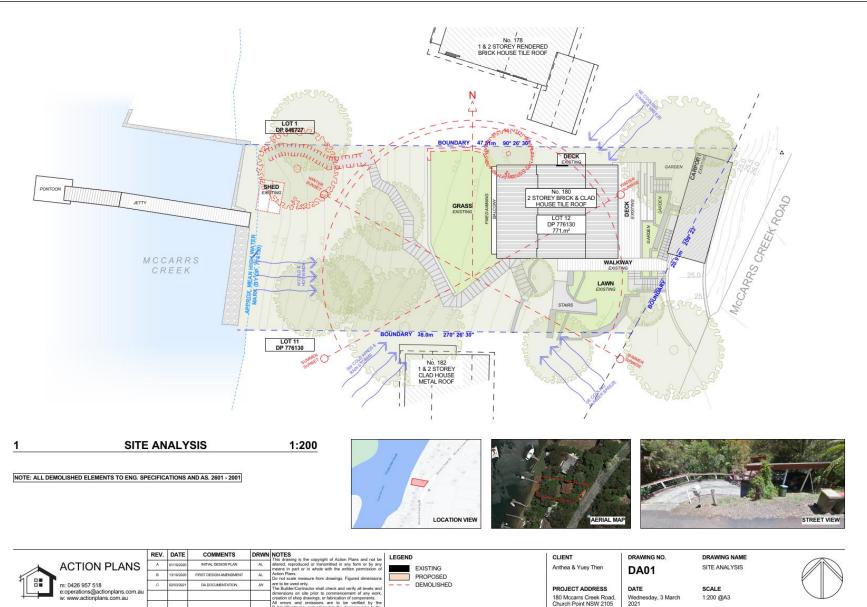


ITEM DETAILS	DEVELOPMENT APPLICATION				
ADDRESS	180 McCARRS CREEK ROAD, CHURCH POINT, NSW, 2105				
LOT & DP/SP	LOT 12 DP 776130				
COUNCIL	NORTHERN BEACHS COUNCIL (PI	TTWATER)			
SITE AREA	771.00m²				
FRONTAGE	20.91m				
CONTROLS	PERMISSIBLE / REQUIRED	EXISTING	PROPOSED	COMPLIANCE	
CONTROLS	m / m² / %	m / m² / %	m / m² / %		
LEP					
LAND ZONING	E4 - ENVIRONMENTAL LIVING	E4	E4	YES	
MINIMUM LOT SIZE	700m ²	771.00m ²	UNCHANGED	YES	
FLOOR SPACE RATIO	NOT IDENTIFIED	N/A	N/A	N/A	
MAXIMUM BUILDING HEIGHT	8.5m	8.689m	UNCHANGED	NO	
HAZARDS					
ACID SULFATE SOILS	CLASS 5				
BIODIVERSITY	IDENTIFIED				
BUSHFIRE PRONE LAND	VEGETATION BUFFER				
GEOTECHNICAL HAZARD H1/H2	H1				
LAND BELOW FORESHORE BUILDING LINE	IDENTIFIED				
DCP					
SIDE BOUNDARY ENVELOPE	3.5m	N/A	N/A	NO	
SIDE BOUNDARY SETBACKS	N: 1m S: 2.5m	N: 1.720m S: 7.292m	N: UNCHANGED S: 5.894m	YES	
FRONT BOUNDARY SETBACK	10m	5.275m	UNCHANGED	YES	
REAR BOUNDARY SETBACK	FORESHORE BUILDING LINE	N/A	N/A	YES	
LANDSCAPE OPEN SPACE	60% (462.6m²)	69.7% (538.01m ²)	61.9% (477.97m ²)	YES	
PRIVATE OPEN SPACE	80m²	82.01m ²	83.14m²	YES	

- SOUND INSULATION PART 3.8.6 OF NCC
- STAIRWAYAND RAMP CONSTRUCTION PART 3.9.1 OF NCC
- BARRIERS AND HANDRAILS PART 3.9.2 OF NCC
- SWIMMING POOLS PART 3.10.1 OF NCC
- CONSTRUCTION IN BUSHFIRE PRONE AREAS PART 3.10.5 OF NCC
- FENCING & OTHER PROVISIONS REGS & AS1926.1 2012
- DEMOLITION WORKS AS2601-2001 THE DEMOLITION OF STRUCTURES.
- WATERPROOFING OF WET AREAS TO COMPLY WITH AS 3740-2010
- ALL PLUMBING & DRAINAGE WORK TO COMPLY WITH AS 3500:2018
- ALL PLASTERBOARD WORK TO COMPLY WITH AS 2588:2018
- ALL STRUCTURAL STEEL WORK TO COMPLY WITH AS 4100-1992 & AS 1554
- ALL CONCRETE WORK TO COMPLY WITH AS 3600:2018
- ALL ROOF SHEETING WORK TO COMPLY WITH AS 1562.1-2018
- ALL SKYLIGHTS TO COMPLY WITH AS 4285-2019 - ALL CERAMIC TILING TO COMPLY WITH AS 3958.1-2007 & 3958.2-1992
- ALL GLAZING ASSEMBLIES TO COMPLY WITH AS 2047-2014 & 1288
- ALL TIMBER RETAINING WALLS ARE TO COMPLY WITH AS 1720.1-2010,
- AS 1720.2-2006, AS 1720.4-2006, AS 1170.1-2002 & AS 1170.4-2007
- ALL RETAINING WALLS ARE TO COMPLY WITH 3700:2018 & AS 3600:2018
- ALL CONSTRUCTION TO COMPLY WITH AS 3959:2018

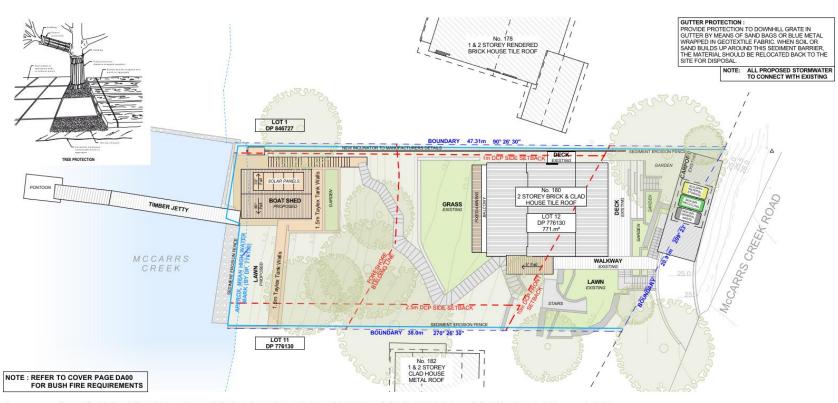












SITE / ROOF / SEDIMENT EROSION / WASTE MANAGEMENT / STORMWATER CONCEPT PLAN 1:200

STOCKPILES

ALL STOCKPILES ARE TO BE KEPT ON-SITE WHERE POSSIBLE. ANY MATERIALS PLACED ON THE FOOTPATHS OR NATURE STRIPS REQUIRE COUNCIL'S

ALL STOCKPILES ARE TO BE PLACED AWAY FROM THE DRAINAGE LINES AND STREET GUTTERS. IT IS BEST TO LOCATE THESE ON THE HIGHEST PART OF THE SITE IF POSSIBLE. PLACE WATERPROOF COVERING IF REQUIRED PROVIDE DIVERSION DRAIN & BANK

AROUND STOCKPILES.

SEDIMENT NOTE:

ALL EROSION AND SEDIMENT CONTROL MEASURES
 TO BE INSPECTED AND MAINTAINED DAILY BY THE SITE

. MINIMISE DISTURBED AREAS, REMOVE EXCESS SOIL FROM EXCAVATEDAREA AS SOON AS POSSIBLE. ALL MATERIAL STOCKPILE TO BE CLEAR FROM DRAINS GUTTERS AND FOOTPATHS OR WITHIN SEDIMENT FENCE AREA.

4. DRAINAGE TO BE CONNECTED TO STORMWATER AS

OON AS POSSIBLE IF STORED ON SITE IT MUST BE ILTERED BEFORE RELEASING INTO STORMWATER SYSTEM OR WATERWAYS.

. ROADS AND FOOTPATHS TO BE SWEPT DAILY.

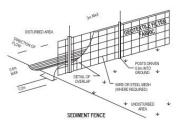
DUST CONTROL

TO REDUCE DUST GENERATED BY WIND ACTION, THE REMOVAL OF THE TOP SOIL IS TO BE MINIMISED. TO PREVENT DUST GENERATION, WATERING DOWN OF THE SITE, ESPECIALLY DURING THE MOVEMENT OF MACHINERY IS REQUIRED. WHERE EXCAVATING INTO ROCK, KEEP THE SURFACE MOIST TO MINIMISE DUST CONSTRUCT A GRAVEL ENTRY/EXIT POINT USING BLUE METALAND RESTRICT ALL VEHICLE MOVEMENTS WITHIN THE SITE TO A MINIMUM, ENSURE WIND BREAKS, SUCH AS EXISTING FENCES ARE MAINTAINED DURING THE CONSTRUCTION PHASE UNTIL NEW LANDSCAPING IS PROVIDED OR REINSTATED. PREVENT DUST BY COVERING STOCKPILES

NOTES REGARDING BOLINDARY

THE INFORMATION SHOWN ON THIS PLAN IS FOR DESIGN
PURPOSES ONLY. THE POSITION OF BOUNDARY LINES HAVE BEEN ESTABLISHED BY A SURVEY TO MEET THE IDENTIFICATION REQUIREMENTS FOR COUNCIL AND NOT FOR REGISTRATION WITH THE LAND REGISTRATION SERVICES NSW NOR MAY THIS PLAN BE USED FOR ANY OTHER PURPOSE, SUBSEQUENT REGISTERED OR OTHER SURVEYS MAY AFFECT THE DEFINED BOUNDARY POSITIONS IN THIS AREA. ANY DIFFERENCES OF THIS NATURE ARE BEYOND THE PURPOSES OF THIS PLAN. THIS PLAN IS FOR THE ABOVE STATED PURPOSES ONLY.
RESTRICTIONS ON THE TITLE HAVE NOT BEEN INVESTIGATED. IF FURTHER DEVELOPMENT IS CONTEMPLATED OR CONSTRUCTION INTENDED THEN IT IS IMPORTANT THAT A SURVEY SET OUT IS CARRIED OUT.

CLIENT





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	С	02/03/2021	DA DOCUMENTATION	JW	
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DRAWING NO Anthea & Yuey Then **DA02**

PROJECT ADDRESS DATE 180 Mccarrs Creek Road, Church Point NSW 2105 Wednesday, 3 March 2021

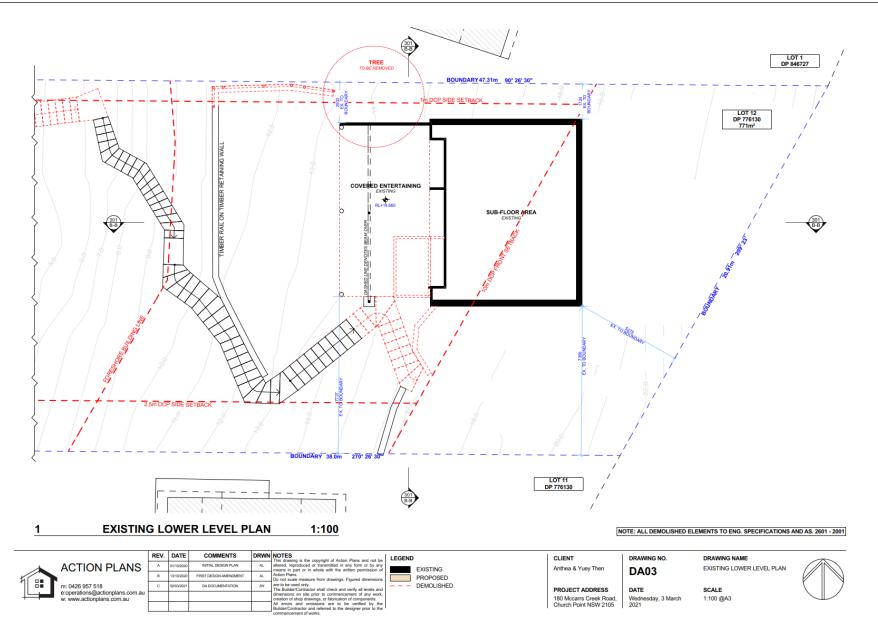
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SITE / ROOF / SEDIMENT EROSION / WASTE MANAGEMENT / STORMWATER CONCEPT PLAN SCALE 1:200 @A3



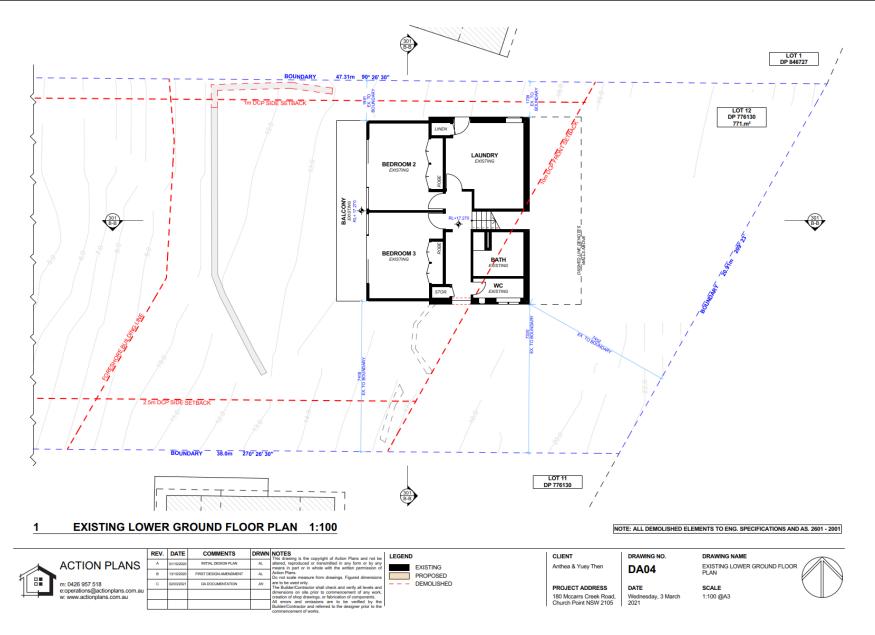






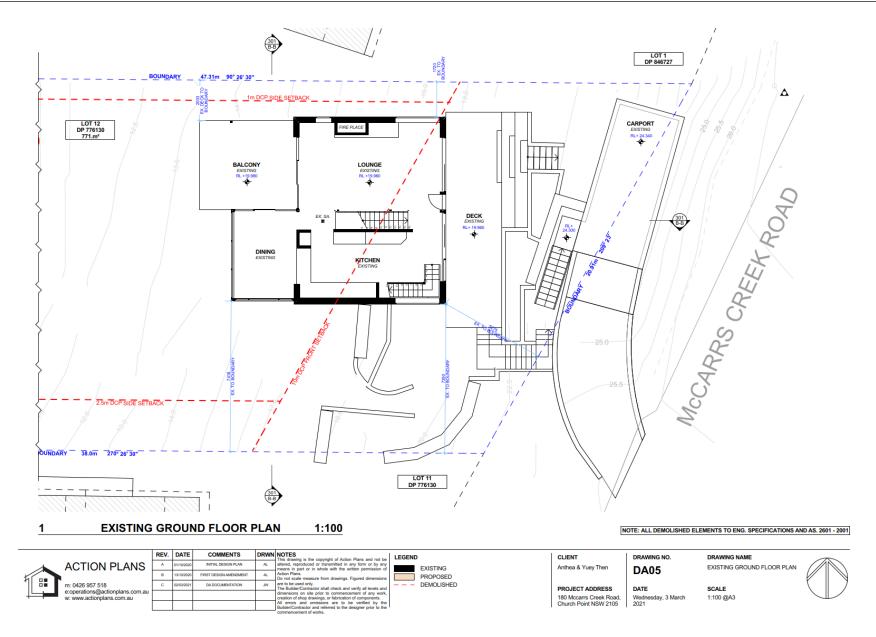






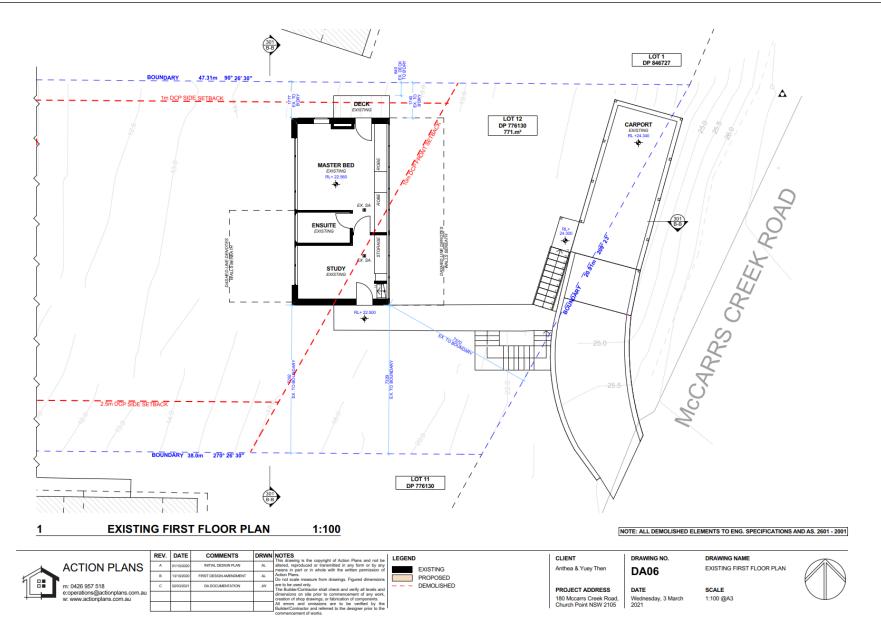






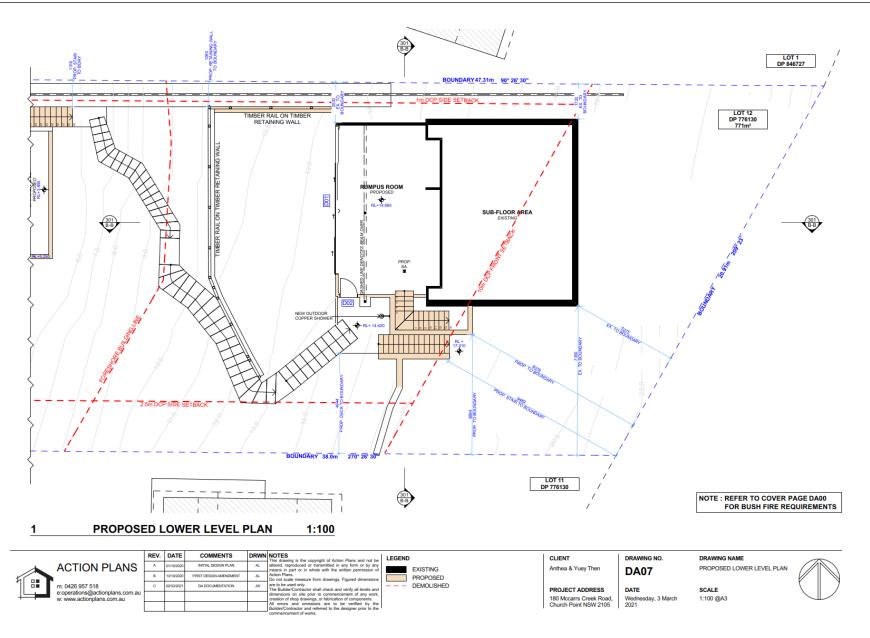






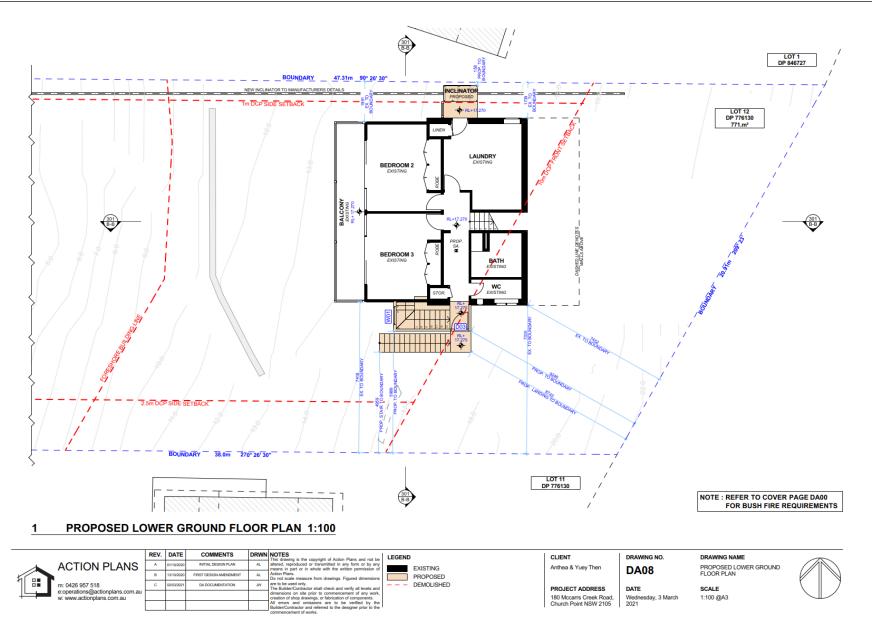






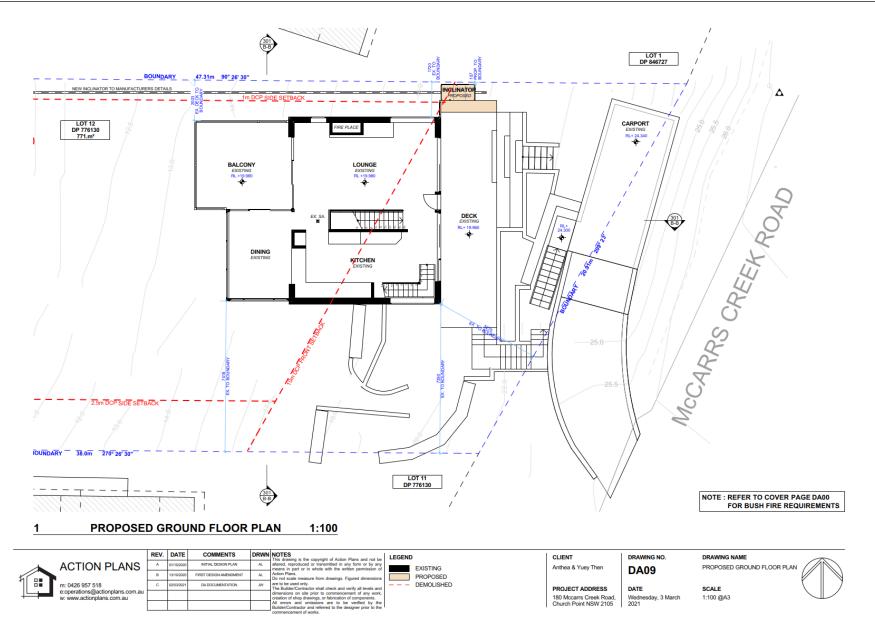






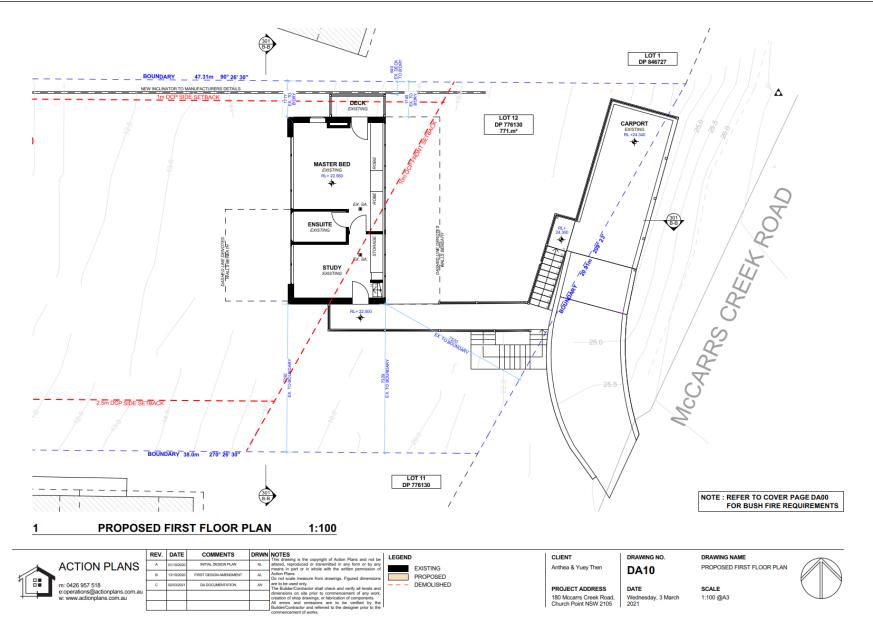






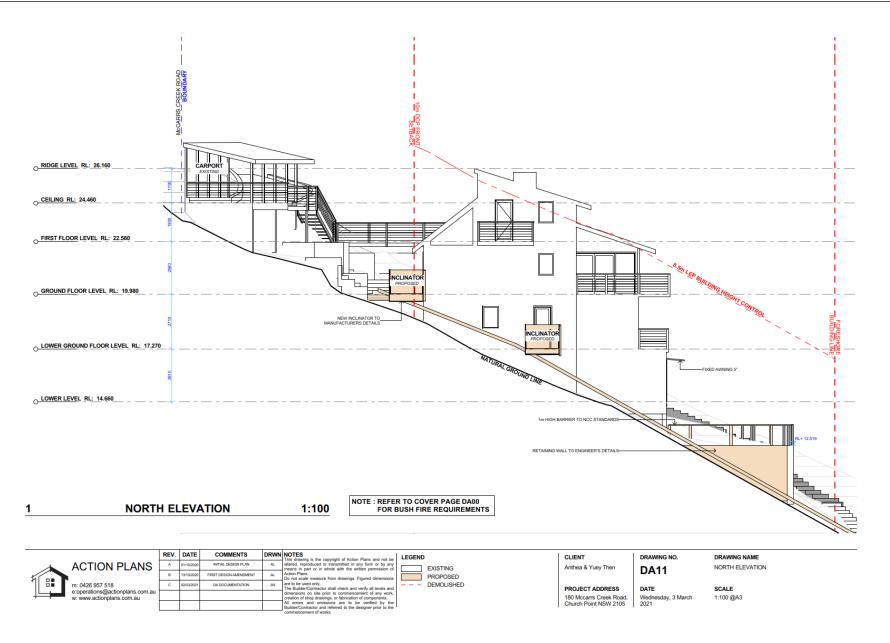






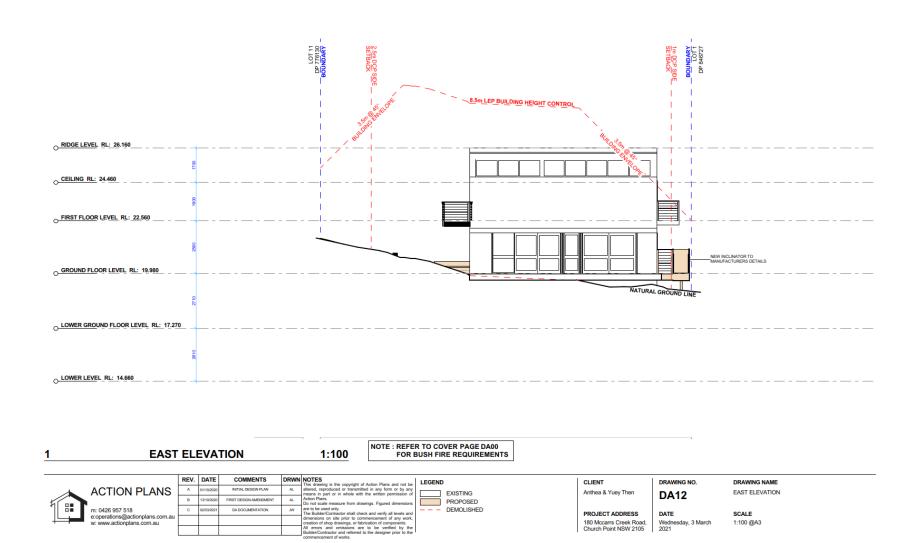






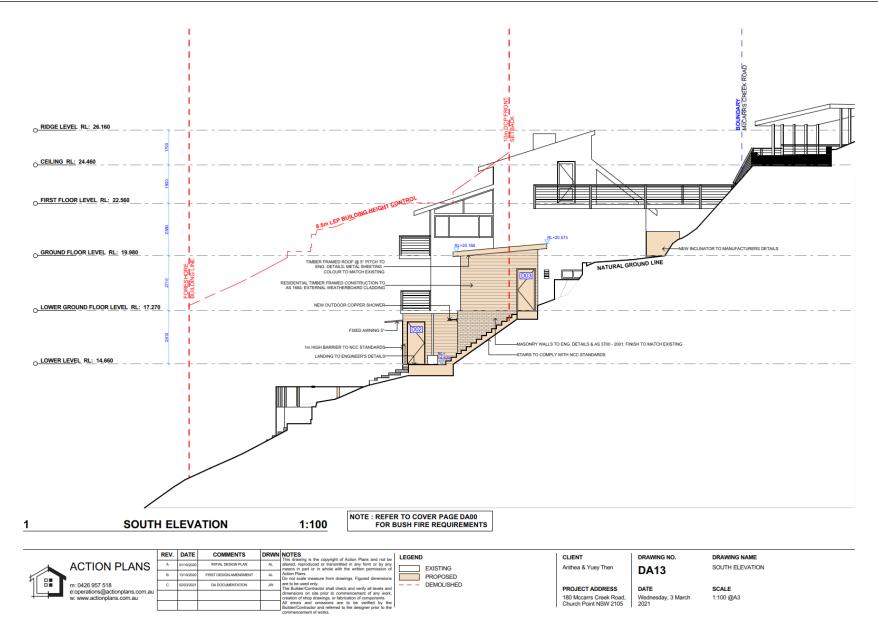






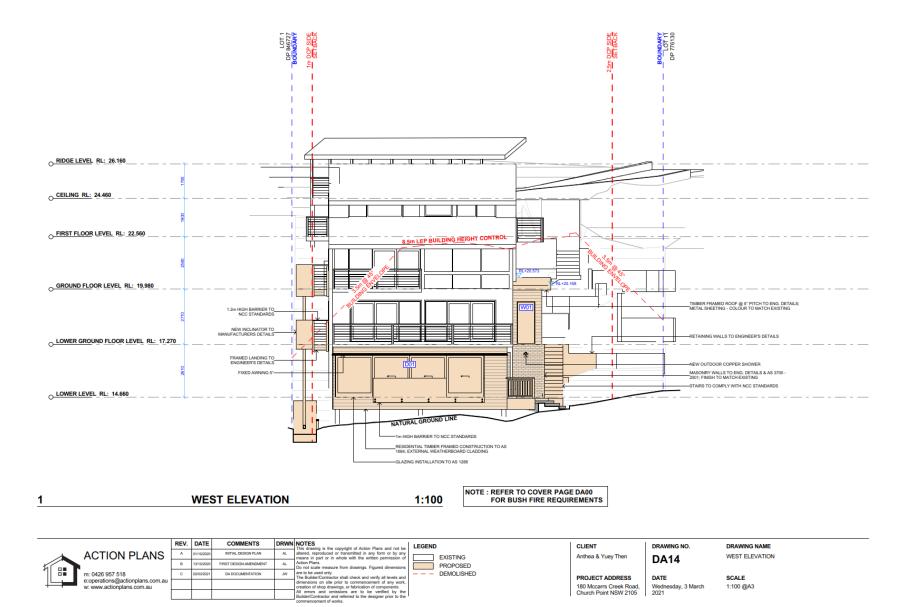












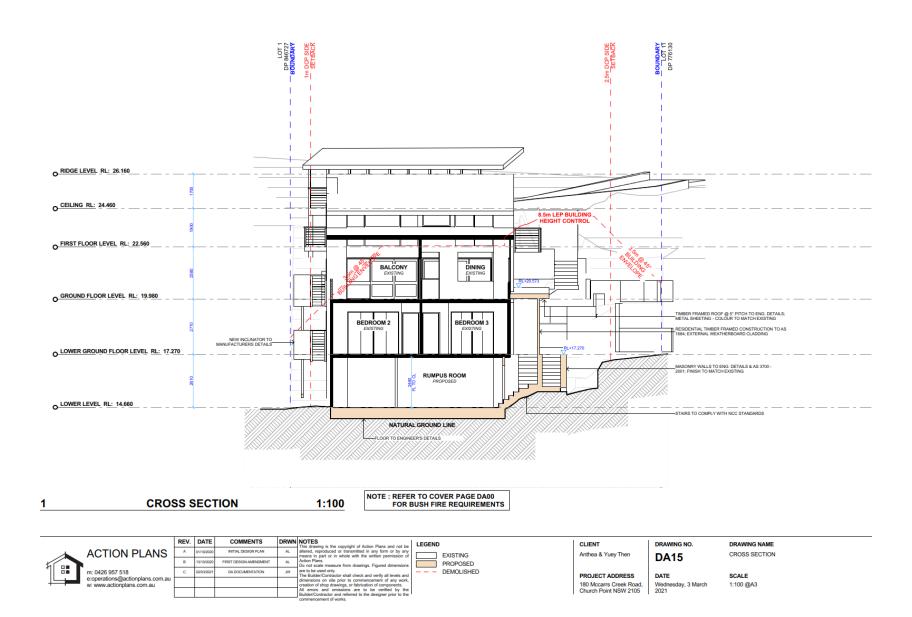
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Wednesday, 3 March 2021

1:100 @A3

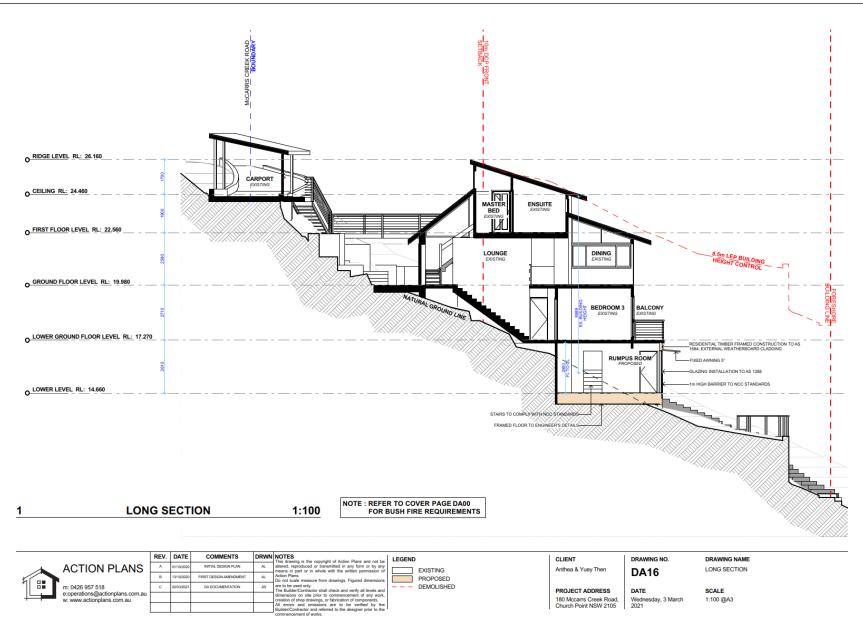






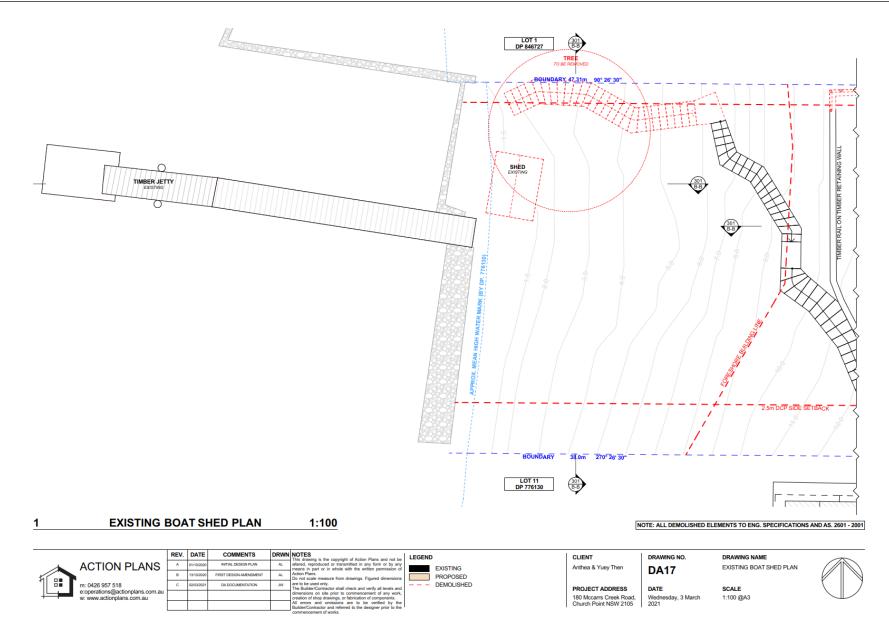






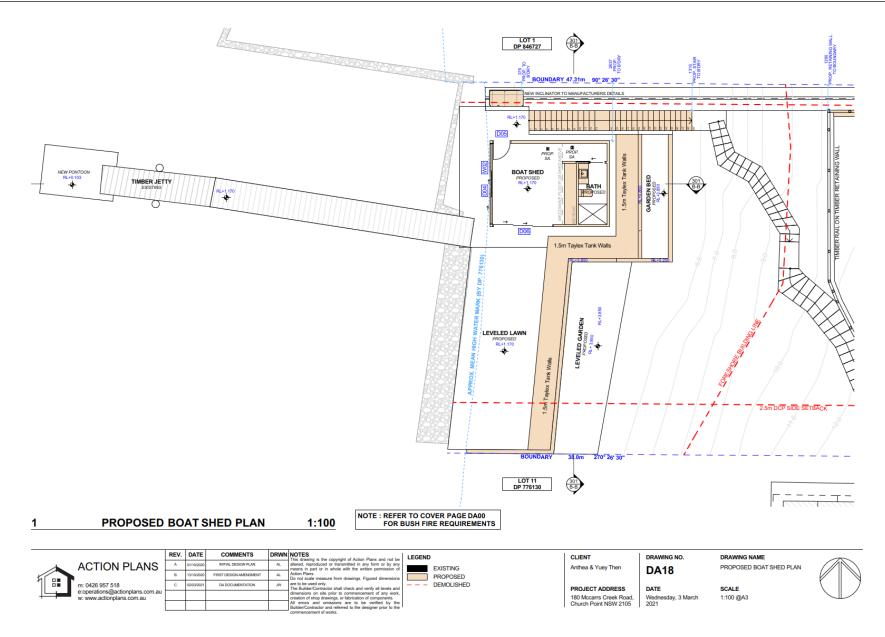






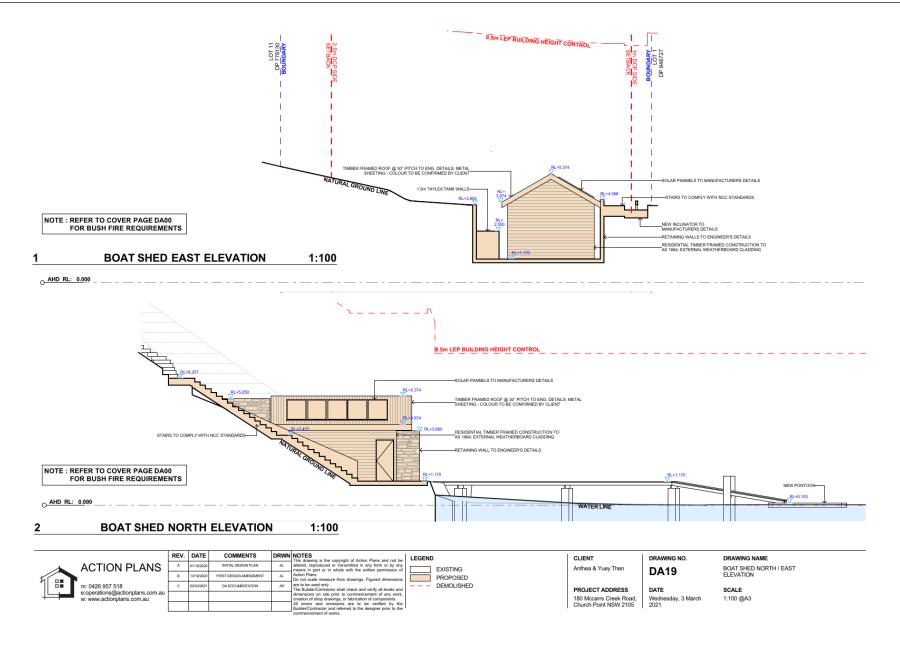






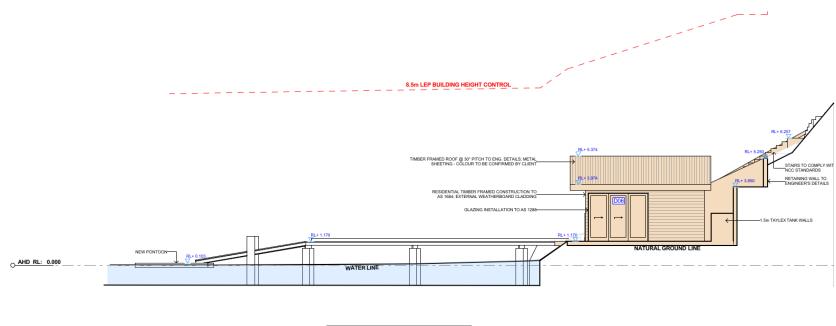










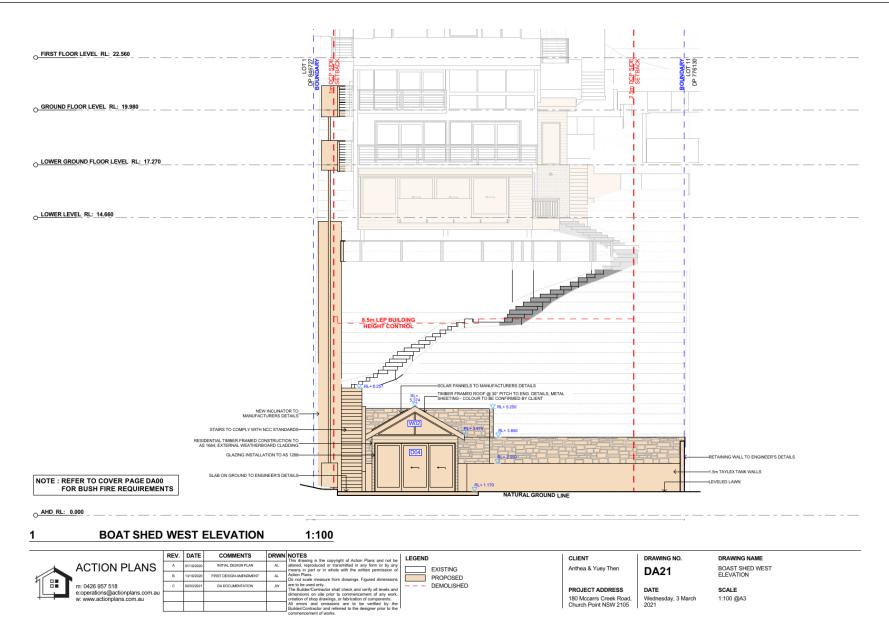


1 BOAT SHED SOUTH ELEVATION 1:100 NOTE: REFER TO COVER PAGE DA00 FOR BUSH FIRE REQUIREMENTS

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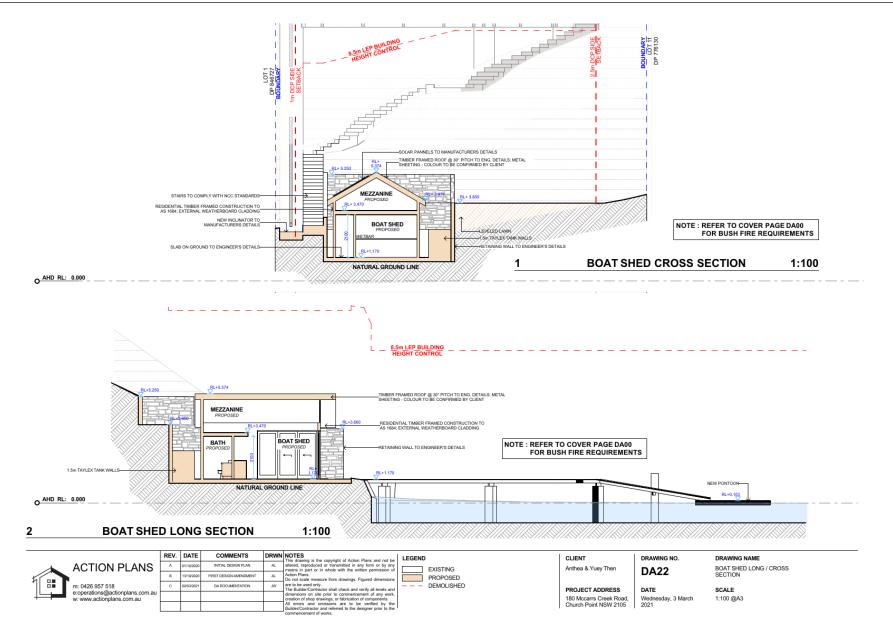






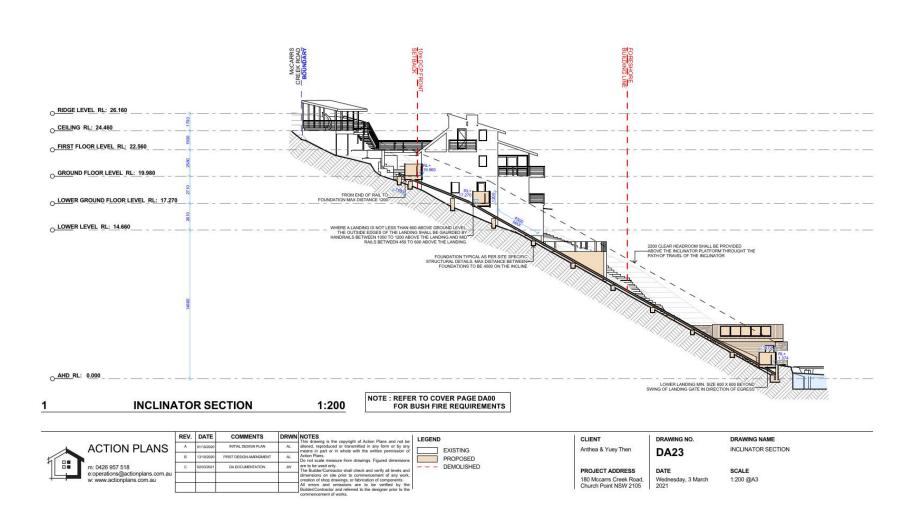






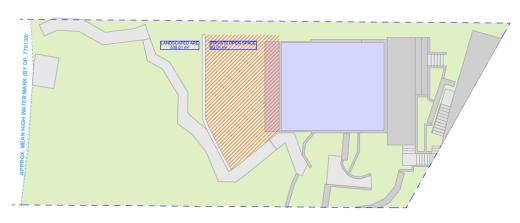




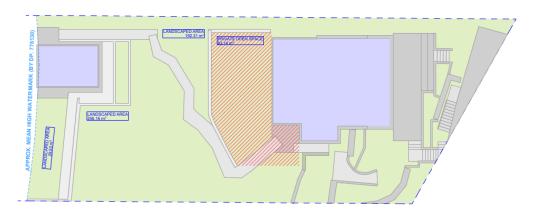








EXISTING AREA CALCULATIONS 1:200



PROPOSED AREA CALCULATIONS 1:200

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LEGEND LANDSCAPED AREA / LANDSCAPED OPEN SPACE HARD SURFACE AREA / BUILT UPON AREA / SITE COVERAGE FLOOR SPACE RATIO / FLOOR AREA

CLIENT Anthea & Yuey Then

AREA CALCULATIONS SITE AREA: 771m² REQUIRED

PROPOSED

LANDSCAPED AREA: 60% (462.6m²) PRIVATE OPEN SPACE: 80m2

LANDSCAPED AREA: 69.7% (538.01m²) PRIVATE OPEN SPACE: 82.01m2

LANDSCAPED AREA: 61.9% (477.97m²) PRIVATE OPEN SPACE: 83.14m²

FLOOR SPACE RATIO / FLOOR AREA

PRIVATE OPEN SPACE

LANDSCAPED AREA / LANDSCAPED OPEN SPACE HARD SURFACE AREA / BUILT UPON AREA / SITE COVERAGE

PROJECT ADDRESS 180 Mccarrs Creek Road, Church Point NSW 2105 DRAWING NO. DA24

DATE Wednesday, 3 March 2021 DRAWING NAME AREA CALCULATIONS

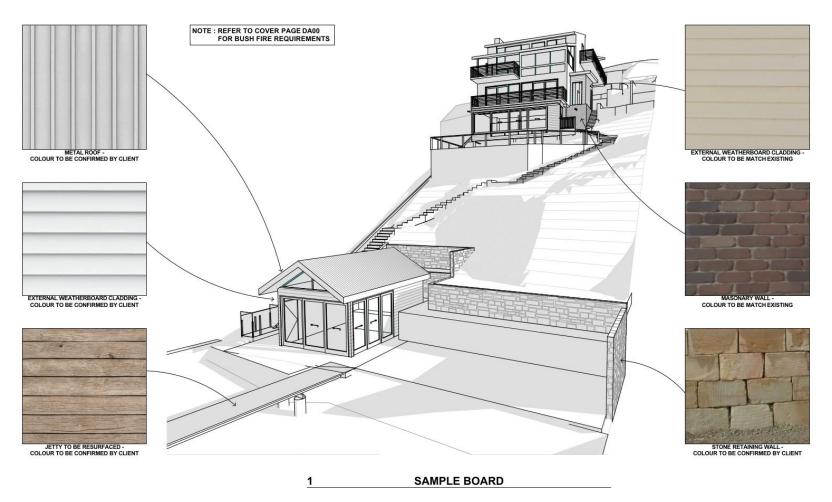
SCALE

1:200 @A3









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8		С	02/03/2021	DA DOCUMENTATION	.w			PROJECT ADDRESS	DATE	SCALE
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