



ACTION PLANS

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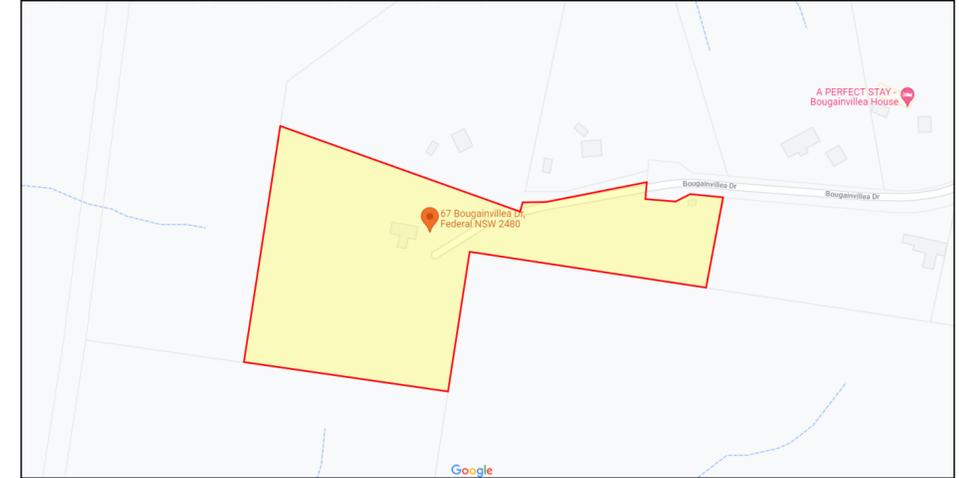
PLANS PUBLISHED
16 April 2024

67 BOUGAINVILLEA DRIVE, FEDERAL NSW 2480

SECTION 4.55

These plans are for Council Approval only.

SHEET NUMBER	SHEET NAME	DATE PUBLISHED
MOD00	COVER	
MOD01	NOTATION	
MOD02	SAFTEY NOTES	
MOD03	LOCATION PLAN	
MOD04	SITE ANALYSIS	
MOD05	SITE / ROOF / SEDIMENT EROSION / WASTE MANAGEMENT / STORMWATER CONCEPT PLAN	
MOD06	EXISTING GROUND FLOOR PLAN	
MOD07	EXISTING FIRST FLOOR PLAN	
MOD08	PROPOSED GYM FLOOR PLAN	
MOD09	PROPOSED GYM ELEVATIONS	
MOD10	AREA CALCULATIONS	
MOD11	WINTER SOLSTICE 9 AM	
MOD12	WINTER SOLSTICE 12 PM	
MOD13	WINTER SOLSTICE 3 PM	
MOD14	BASIX COMMITMENTS	



ITEM DETAILS	DEVELOPMENT APPLICATION			
ADDRESS	67 BOUGAINVILLEA, FEDERAL NSW 2480			
LOT & DPI/SP	LOT 1 DP 1220595			
COUNCIL	BYRON SHIRE COUNCIL			
SITE AREA	26,380m ²			
FRONTAGE	10.42m			
CONTROLS	PERMISSIBLE / REQUIRED m / m ² / %	EXISTING m / m ² / %	PROPOSED m / m ² / %	COMPLIANCE
LEP				
LAND ZONING	R5 – LARGE LOT RESIDENTIAL	R5	R5	YES
MINIMUM LOT SIZE	2.5ha	26380m ²	UNCHANGED	YES
MAXIMUM BUILDING HEIGHT	9m	6.198m	UNCHANGED	YES
HAZARDS				
BUSHFIRE	VEGETATION BUFFER	N/A	N/A	N/A
DCP				
LANDSCAPE AREA	25% (6595m ²)	93.03% (24,543.51m ²)	91% (24,197.14m ²)	YES
FRONT SETBACK	15m	UNABLE TO BE MEASURED AT 90 DEGREES	UNCHANGED	N/A
SIDE SETBACK - DWELLING	0.9m	N: 45.007m E: 39.406m S: 37.489m	N: UNCHANGED E: UNCHANGED S: UNCHANGED	YES
SIDE SETBACK – DETACHED BUILDING (GYM)	0.9m	N/A	N: 12.785m E: N/A W: 110.158m	YES

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-prone areas' which are recommended in this report. It is included as a courtesy, is a guide only, and not to be complete. In addition, the contents of the documents from which this information was extracted may have changed between the date of preparation of this report, and its use or application. Specifications in other documents such as the Building Code of Australia (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				
	Timber <400mm ag Timber >400mm ag		FRT or lined or enclosed OK		Non-combustible or FRT or enclosed
Floor posts			FRT or enclosed		Enclosed or non-combustible
External walls		400mm FRT or non-combustible	FRT or non-combustible		Non-combustible
Windows	Frame		FRT or metal		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	6mm toughened glass or full mesh	6mm toughened glass plus full mesh or shutter
	Screens		Al, Fe or Br, if fitted		Fe or Br
Vents etc	Timber frames		FRT		Metal only
	Garage	Lower 400mm FRT or non-combustible	FRT or non-combustible		Non-combustible
Roofs	Mesh		Al, Fe or Br mesh 2mm		Fe or Br mesh 2mm
	Tiled		Fully sarked (Flammability Index <5)		
Verandahs, decks etc	Sheeted Non		-combustible, fully sarked (Flammability Index <5)		
	Rooflights		Non-combustible sieve/lining, 4mm safety glass		FRL >R0/
Services	Enclosed		Any supports, unspaced 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
	Above ground	FRT	Fire Resistant Timber	Al	Aluminium
			Fe	Stainless steel	Br
					Bronze

NCC 2022 & AS COMPLIANCES SPECIFICATIONS

- STRUCTURE - PART H1 & SECTION 2 OF NCC
- SITE PREPARATION - PART H1D3 & SECTION 3 OF NCC
- FOOTINGS & SLABS - PART H1D4 & SECTION 4 OF NCC
- MASONRY - PART H1D5 & SECTION 5 OF NCC
- FRAMING - PART H1D6 & SECTION 6 OF NCC
- ROOF AND WALL CLADDING - PART H1D7 & SECTION 7 OF NCC
- GLAZING - PART H1D8 & SECTION 8 OF NCC
- DAMP & WEATHERPROOFING - PART H2 OF NCC
- FIRE SAFETY - PART H3 & SECTION 9 OF NCC
- HEALTH & AMENITY - PART H4 & SECTION 10 OF NCC
- SAFE MOVEMENT & ACCESS - PART H5 & SECTION 11 OF NCC
- ANCILLARY PROVISIONS - PART H7 & SECTION 12 OF NCC
- SWIMMING POOLS - PART H7P1 & NSW H7D2 OF NCC
- CONSTRUCTION IN BUSHFIRE PRONE AREAS - PART NSW H7D4 OF NCC
- ENERGY EFFICIENCY - PART H6 & SECTION 13 OF NCC
- POOL FENCING & OTHER PROVISIONS - REGULATIONS, & AS 1926
- DEMOLITION WORKS TO COMPLY WITH AS 2601-2001 THE DEMOLITION OF STRUCTURES.
- WATERPROOFING OF WET AREAS TO COMPLY WITH AS 3740:2021
- ALL PLUMBING & DRAINAGE WORK TO COMPLY WITH AS 3500:2021
- ALL PLASTERBOARD WORK TO COMPLY WITH AS 2588:2018
- ALL STRUCTURAL STEEL WORK TO COMPLY WITH AS 4100:2020 & AS 1554.1:2014
- 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 & AS 1288:2021
- ALL TIMBER RETAINING WALLS ARE TO COMPLY WITH AS 1720, AS 1170
- ALL RETAINING WALLS ARE TO COMPLY WITH AS 3700:2018 & AS 3600:2018
- ALL CONSTRUCTION IN BUSHFIRE-PRONE AREAS TO COMPLY WITH AS 3959:2018

IMPORTANT NOTATION FOR BUILDERS

- All dimensions are to be confirmed on-site by the builder/subcontractor, any incongruencies must be reported to the Designer in writing before the commencement of any work.

- No Survey has been made on the boundaries. All bearings, distances, and areas have been taken from the contour survey plan. A Survey must be carried out to confirm the exact boundary locations.

- No construction work shall commence until a site survey confirming the site boundaries has been completed. The contractor is to ensure that the approved boundary setbacks are confirmed and used, the boundary setbacks take precedence over all other dimensions. The Survey work must be performed by a registered Surveyor.

- In the event of encountering any discrepancies on these drawings, specification, or subsequent instructions issued, the Builder/Subcontractor shall contact the designer in writing before proceeding further with any work.

The builder/subcontractor is responsible to ensure that all materials installed on-site are fit for purpose and comply with the NCC and relevant Australian Standards. The builder is to obtain written confirmation of material selection by the Client prior to ordering.

- All construction, control joints, and expansion joints in the walls, floors, and other locations shall be in strict accordance with the structural engineering details. No joints or breaks other than specified are allowed without written permission from the Engineer.

- Measurements for the fabrication of secondary components such as windows, doors, internal frames, structural steel components, and the like, are not to be taken from these documents. Measurements must be taken on-site to suit the work as constructed.

- All structural components shall be in strict accordance with details and specifications as prepared by a suitably qualified structural engineer.

- All existing structures need to be examined for structural adequacy, and it is the Contractor's responsibility to ensure that a certificate of structural adequacy is available prior to the start of any work.

SPECIFICATION

- "Approval" - obtained by either an 'Accredited Certifying Authority' or 'Local Council'.

- The Owner will directly pay all fees associated with the following:

Building approval from council or accredited certifier, any footpath and kerb deposits with the local council, insurance fees to Building Services Corporation, Long Service Leave levy fees and approval fees by water and sewerage authority. All other fees are to be paid by the builder. The amount of any local authority deposits which are forfeited due to damage or other causes, will be deducted from payments due to the builder.

-The Builder is to provide at his/her own expense adequate Public Risk Insurance and arrange indemnification under the Workers Compensation Act. Works insurance to be as stated in the contract conditions.

-All Tenderers are to visit the site to satisfy themselves as to the nature and extent of the Works, facilities available and difficulties entailed in the works as Variations will not be allowed due to work arising owing to neglect of this clause.

- These drawings shall be read in conjunction with all structural and other consultant's drawings and specifications and with any such written instructions as may be issued during the course of the contract.

- Set out dimensions shown on this drawing shall be verified by the builder on site before commencement of any work. Dimensions shall not be obtained by scaling the drawings, use figured dimensions. All dimensions are in millimetres.

- The Builder is to ensure all construction, levels and other items comply with the conditions of the Building Approval.

- Any detailing additional to that which is supplied shall be resolved between the Owner and the Builder, to the Owner's approval. Except for any structural details or design, which is to be supplied by the Engineer.

- All work to be carried out in a tradesman like manner and in accordance with the standards, codes and regulations of Standards Australia, the National Construction Code and any statutory authority having jurisdiction over the works.

- All structural work is to be in accordance with the structural details prepared by a suitably qualified structural engineer, including but not limited to all piers, footings, concrete slabs, retaining walls, steelworks, formwork, underpinning, additional structural loads, timber framing, wind bracing and associated connections. Builder to obtain prior to finalising the tender, unless previously obtained by owners.

- All brickwork is to be selected by the Owner, and is to comply with AS 1640.

- All masonry is to comply with AS 3700.

- Provide all metalwork and flashings necessary to satisfactorily complete the works.

- All timber construction to be in accordance with AS 1684 - Residential timber-framed construction. Level and grade where necessary under timber floors to provide a minimum clearance of 300mm under bearers or 400mm under joists. Adequate precautions shall be taken to ensure that the surface and/or seepage water does not collect or remain under floor area.

- Sustainable timbers, and not rainforest or old growth timber will be used. Recycled timber or second hand timbers are to be sourced and used in preference to plantation timbers, if available and suitable.

- All glazing installation is to comply with AS 1288, AS 2047 and in accordance with manufacturers recommendations.

- All wall and ceiling linings in wet areas to be plasterboard and villaboard, or equal. A breathable wall wrap is to be provided to all external walls. Timber cladding is to be battened out from timber frame to provide an 'air' gap to prevent condensation. Workmanship is to comply with the relevant Australian Standards or installed in accordance with

manufacturer's specifications. All bathrooms and wet areas to be waterproofed with a flexible membrane to manufacturer's specifications and to AS 3740, Part H4D2 and Section 10; Part 10.2 of the 2022 NCC.

- All Architraves and skirtings to the profile as selected by owner, and painted or stain finish as selected.

- All plumbing and drainage work to be installed and completed by a licensed tradesman and in accordance with the statutory body having authority over the works. Connect all waste to Sydney Water sewer line.

- Connect all stormwater to existing system or street drainage system in accordance with AS 3500, Part H2D2 and Section 3; Part 3.3 of the 2022 NCC.

- Smoke detector alarms are to be installed in accordance with AS 3786, Part H3D6 and Section 9; Part 9.5 of the 2022 NCC.

- If a member which provides structural support to the works is subject to termite attack, management measures are to comply with AS 3660 and Section 3; Part 3.4 of the 2022 NCC. Termite management system to be installed to manufacturer's specifications.

- Stairs and Balustrades to comply with Part H5D2, H5D3 and Section 11; Part 11.2 and 11.3 of the 2022 NCC. Provide a handrail along the full length of the flight and a slip resistant finish to the edge of the nosings to comply with 3.9.1 and 3.9.2 of the NCC. No horizontal elements to facilitate climbing between 150mm and 760mm where floor to level below is more than 4m.

- Electrical works to be in accordance with SAA wiring rules and be done by a licenced tradesperson. Obtain electrical layout prior to proceeding. All electrical power (GPO's) and light outlets to be determined by the Owner.

- Painting: All paints or other coatings shall be of the best quality materials & of approved manufacture. All priming materials shall be of an approved brand acceptable to the manufacturer of the finishing coats to be used. External joinery intended to be painted shall be primed on all faces at the place of assembly. Where new work or alteration work adjoins existing painted surfaces allow for repainting existing surfaces to provide uniform appearance.

- ZERO-VOC or LOW-VOC paints and primers only are to be used.

- Any work indicated on the plans but not specified and any item not shown on the plans which is obviously necessary as part of proper construction and/or finish, is to be considered as shown and specified and is to be undertaken as part of the contract.Variations will not be permitted without prior written approval by the owners.

- The Builder shall provide sediment and siltation control measures as required by Council, and maintain them throughout the duration of the works.

- A legible copy of the plans bearing approval stamps, must be maintained on the job site at all times. Hours of construction shall be restricted to the times as required by the building approval.

- The Builder is to arrange for all inspections required by the relevant authorities and/or lending institutions, to their requirements.

- The Builder is to obtain approval for interruptions to existing services and minimise the duration and number of interruptions. Any interruptions to existing services and equipment is to be undertaken by appropriately qualified tradespersons.

- The Builder shall restore, reinstate or replace any damage to existing structures or landscaping caused by the construction works or workmen.

- Provide protection to existing trees to remain, or as required by the Approval Conditions.

GENERAL NOTATION

- Approved means by the 'relevant local authority' or council?

- All work and materials to comply with the current Australian standards at the time of commencement, where applicable.

- The builder is to comply with all ordinances, local authority regulations and the requirements of all services supply authorities having jurisdiction over the works.

- All new downpipes are to be connected to the existing stormwater system.

- All timber sizes and concrete details to be confirmed by the builder prior to commencement of any work.

- All gutters, downpipes to be colorbond.

- All wall and ceiling linings to be plasterboard or cement render as selected, and villa board in wet areas. To comply with relevant Australian standards, and installed in accordance with manufacturers specification.

NCC 2022 & AS COMPLIANCES SPECIFICATIONS

- Structure - Part H1 & Section 2 of NCC

- Structural Provisions - PART H1D2 & PART 2.2 of NCC

- Site Preparation - Part H1D3 & Section 3 of NCC

- Earthworks - Part 3.2 of NCC

- Drainage - Part 3.3 of NCC

- Termite Risk Management - Part 3.4 of NCC

- Footings & Slabs - Part H1D4 & Section 4 of NCC

- Footings, Slabs & Associated Elements - Part 4.2 of NCC

- Masonry - Part H1D5 & Section 5 of NCC

- Masonry Veneer - Part 5.2 of NCC

- Cavity Masonry - Part 5.3 of NCC

- Unreinforced Single Leaf Masonry - Part 5.4 of NCC

- Isolated Piers - Part 5.5 of NCC

- Masonry Components & Accessories - Part 5.6 of NCC

- Waetherproofing of Masonry - Part 5.7 of NCC

- Framing - Part H1D6 & Section 6 of NCC

- Sub Floor Ventilation - Part 6.2 of NCC

- Structural Steel Members - Part 6.3 of NCC

- Roof & Wall Cladding - Part H1D7 & Section 7 of NCC

- Sheet Roofing - Part 7.2 of NCC

- Roof Tiles & Shingles - Part 7.3 of NCC

- Gutters & Downpipes - Part 7.4 of NCC

- Timber & Composite Wall Cladding - Part 7.5 of NCC

- Glazing - Part H1D8 & Section 8 of NCC

- Wndows & External Glazed Doors - Part 8.2 of NCC

- Glass - Part 8.3 of NCC

- Glazing Human Impact - Part 8.4 of NCC

- Damp & Weatherproofing - Part H2 of NCC

- Fire Safety - Part H3 & Section 9 of NCC

- Fire Separation of External Walls - Part 9.2 of NCC

- Fire Protection of Separating Walls & Floors - Part 9.3 of NCC

- Fire Protection of Garage Top Dwellings - Part 9.4 of NCC

- Smoke Alarms & Evacuation Lighting - Part 9.5 of NCC

- Health & Amenity - Part H4 & Section 10 of NCC

- Wet Area Waterproofing - Part 10.2 of NCC

- Room Heights - Part 10.3 of NCC

- Facilities - Part 10.4 of NCC

- Light - Part 10.5 of NCC

- Ventilation - Part 10.6 of NCC

- Sound Insulation - Part 10.7 of NCC

- Condensation Management - Part 10.8 of NCC

- Safe Movement & Access - Part H5 & Section 11 of NCC

- Stairway & Ramp Construction - Part 11.2 of NCC

- Barriers & Handrails - Part 11.3 of NCC

- Ancillary Provisions - Part H7 & Section 12 of NCC

- Construction in Alpine Areas - Part 12.2 of NCC

- Attachment of Framed Decks & Balconies to External Walls of Buildings Using a Waling Plate - Part 12.3 of NCC

- Heating Appliances, Fireplaces, Chimneys & Flues - Part 12.4 of NCC

- Swimming Pools - Part H7P1 & NSW H7D2 of NCC

- Construction in Bushfire Prone Areas - Part NSW H7D4 of NCC

- Energy Efficiency - Part H6 & Section 13 of NCC

- Building Fabric - Part 13.2 of NCC

- External Glazing - Part 13.3 of NCC

- Building Sealing - Part 13.4 of NCC

- Ceiling Fans - Part 13.5 of NCC

- Whole of Home Energy Usage - Part 13.6 of NCC

- Services - Part 13.7 of NCC

- Pool Fencing & other provisions - Regulations, & AS 1926

- Demolition Works to comply with AS 2601-2001 The Demolition of Structures.

- Waterproofing of Wet Areas to comply with AS 3740:2021

- All plumbing & drainage work to comply with AS 3500:2021

- All plasterboard work to comply with AS 2588:2018

- All structural steel work to comply with AS 4100:2020 & AS 1554.1:2014

- 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 & AS 1288:2021

- All timber retaining walls to comply with AS 1720, AS 1170

- All retaining walls to comply with AS 3700:2018 & AS 3600:2018

- All construction in bushfire-prone areas to comply with AS 3959:2018

THIS SET OF DRAWING SHOULD BE READ & KEPT IN ITS ENTIRETY. NO INDIVIDUAL PAGE SHOULD BE SEPARATED FROM THE REST OF THE SET. EACH NOTATION LISTED ON THIS PAGE APPLY TO ALL PAGES OF THIS SET.

SAFTEY NOTES

THESE NOTES MUST BE READ AND UNDERSTOOD BY ALL INVOLVED IN THE PROJECT. THIS INCLUDES (but is not excluded to): OWNER, BUILDER, SUB-CONTRACTORS, CONSULTANTS, RENOVATORS, OPERATORS, MAINTENORS, DEMOLISHERS.

1. FALLS, SLIPS, TRIPS

a) WORKING AT HEIGHTS

DURING CONSTRUCTION

Wherever possible, components for this building should be prefabricated off-site or at ground level to minimise the risk of workers falling more than two metres. However, construction of this building will require workers to be working at heights where a fall in excess of two metres is possible and injury is likely to result from such a fall. The builder should provide a suitable barrier wherever a person is required to work in a situation where falling more than two metres is a possibility.

DURING OPERATION OR MAINTENANCE

For houses or other low-rise buildings where scaffolding is appropriate: Cleaning and maintenance of windows, walls, roof or other components of this building will require persons to be situated where a fall from a height in excess of two metres is possible. Where this type of activity is required, scaffolding, ladders or trestles should be used in accordance with relevant codes of practice, regulations or legislation. For buildings where scaffold, ladders, trestles are not appropriate: Cleaning and maintenance of windows, walls, roof or other components of this building will require persons to be situated where a fall from a height in excess of two metres is possible. Where this type of activity is required, scaffolding, fall barriers or Personal Protective Equipment (PPE) should be used in accordance with relevant codes of practice, regulations or legislation.

b) SLIPPERY OR UNEVEN SURFACES

FLOOR FINISHES Specified

If finishes have been specified by designer, these have been selected to minimise the risk of floors and paved areas becoming slippery when wet or when walked on with wet shoes/ feet. Any changes to the specified finish should be made in consultation with the designer or, if this is not practical, surfaces with an equivalent or better slip resistance should be chosen.

FLOOR FINISHES By Owner

If designer has not been involved in the selection of surface finishes. the owner is responsible for the selection of surface finishes in the pedestrian trafficable areas of this building. Surfaces should be selected in accordance with AS HB 197:1999 and AS/ NZ 4586:2004.

STEPS, LOOSE OBJECTS AND UNEVEN SURFACES

Due to design restrictions for this building, steps and/ or ramps are included in the building which may be a hazard to workers carrying objects or otherwise occupied. Steps should be clearly marked with both visual and tactile warning during construction, maintenance, demolition and at all times when the building operates as a workplace. Building owners and occupiers should monitor the pedestrian access ways and in particular access to areas where maintenance is routinely carried out to ensure that surfaces have not moved or cracked so that they become uneven and present a trip hazard. Spills, loose material, stray objects or any other matter that may cause a slip or trip hazard should be cleaned or removed from access ways. Contractors should be required to maintain a tidy work site during construction, maintenance or demolition to reduce the risk of trips and falls in the workplace. Materials for construction or maintenance should be stored in designated areas away from access ways and work areas.

2. FALLING OBJECTS

LOOSE MATERIALS OR SMALL OBJECTS

Construction, maintenance or demolition work on or around this building is likely to involve persons working above ground level or above floor levels. Where this occurs one or more of the following measures should be taken to avoid objects falling from the area where the work is being carried out onto persons below.

1. Prevent or restrict access to areas below where the work is being carried out.
2. Provide toeboards to scaffolding or work platforms.
3. Provide protective structure below the work area.
4. Ensure that all persons below the work area have Personal Protective Equipment (PPE).

BUILDING COMPONENTS

During construction, renovation or demolition of this building, parts of the structure including fabricated steelwork, heavy panels and many other components will remain standing prior to or after supporting parts are in place. Contractors should ensure that temporary bracing or other required support is in place at all times when collapse which may injure persons in the area is a possibility. Mechanical lifting of materials and components during construction, maintenance or demolition presents a risk of falling objects. Contractors should ensure that appropriate lifting devices are used, that loads are properly secured and that access to areas below the load is prevented or restricted.

3. TRAFFIC MANAGEMENT

For building on a major road, narrow road or steeply sloping road: Parking of vehicles or loading/ unloading of vehicles on this roadway may cause a traffic hazard. During construction, maintenance or demolition of this building designated parking for workers and loading areas should be provided. Trained traffic management personnel should be responsible for the supervision of these areas. For building where on-site loading/ unloading is restricted: Construction of this building will require loading and unloading of materials on the roadway. Deliveries should be well planned to avoid congestion of loading areas and trained traffic management personnel should be used to supervise loading/ unloading areas. For all buildings: Busy construction and demolition sites present a risk of collision where deliveries and other traffic are moving within the site. A traffic management plan supervised by trained traffic management personnel should be adopted for the work site.

4. SERVICES

GENERAL

Rupture of services during excavation or other activity creates a variety of risks including release of hazardous material. Existing services are located on or around this site. Where known, these are identified on the plans but the exact location and extent of services may vary from that indicated. Services should be located using on appropriate service (such as Dial Before You Dig), appropriate excavation practice should be used and, where necessary, specialist contractors should be used. Locations with underground power: Underground power lines MAY be located in or around this site. All underground power lines must be disconnected or carefully located and adequate warning signs used prior to any construction, maintenance or demolition commencing. Locations with overhead power lines: Overhead power lines MAY be near or on this site. These pose a risk of electrocution if struck or approached by lifting devices or other plant and persons working above ground level. Where there is a danger of this occurring, power lines should be, where practical, disconnected or relocated. Where this is not practical adequate warning in the form of bright coloured tape or signage should be used or a protective barrier provided.

5. MANUAL TASKS

Components within this design with a mass in excess of 25kg should be lifted by two or more workers or by mechanical lifting device. Where this is not practical, suppliers or fabricators should be required to limit the component mass. All material packaging, building and maintenance components should clearly show the total mass of packages and where practical all items should be stored on site in a way which minimises bending before lifting. Advice should be provided on safe lifting methods in all areas where lifting may occur. Construction, maintenance and demolition of this building will require the use of portable tools and equipment. These should be fully maintained in accordance with manufacturer's specifications and not used where faulty or (in the case of electrical equipment) not carrying a current electrical safety tag. All safety guards or devices should be regularly checked and Personal Protective Equipment should be used in accordance with manufacturer's specification.

6. HAZARDOUS SUBSTANCES

ASBESTOS

For alterations to a building constructed prior to 1990:

If this existing building was constructed prior to:

1990 - it therefore may contain asbestos

1986 - it therefore is likely to contain asbestos

either in cladding material or in fire retardant insulation material. In either case, the builder should check and, if necessary, take appropriate action before demolishing, culling, sanding, drilling or otherwise disturbing the existing structure.

POWDERED MATERIALS

Many materials used in the construction of this building can cause harm if inhaled in powdered form. Persons working on or in the building during construction, operational maintenance or demolition should ensure good ventilation and wear Personal Protective Equipment including protection against inhalation while using powdered material or when sanding, drilling, cutting or otherwise disturbing or creating powdered material.

TREATED TIMBER

The design of this building may include provision for the inclusion of treated timber within the structure. Dust or fumes from this material can be harmful. Persons working on or in the building during construction, operational maintenance or demolition should ensure good ventilation and wear Personal Protective Equipment including protection against inhalation of harmful material when sanding, drilling, cutting or using treated timber in any way that may cause harmful material to be released. Do not burn treated timber.

VOLATILE ORGANIC COMPOUNDS

Many types of glue, solvents, spray packs, paints, varnishes and some cleaning materials and disinfectants have dangerous emissions. Areas where these are used should be kept well ventilated while the material is being used and for a period after installation. Personal Protective Equipment may also be required. The manufacturer's recommendations for use must be carefully considered at all times.

SYNTHETIC MINERAL FIBRE

Fibreglass, rockwool, ceramic and other material used for thermal or sound insulation may contain synthetic mineral fibre which may be harmful if inhaled or if it comes in contact with the skin, eyes or other sensitive parts or the body. Personal Protective Equipment including protection against inhalation of harmful material should be used when installing, removing or working near bulk insulation material.

TIMBER FLOORS

This building may contain timber floors which have an applied finish. Areas where finishes are applied should be kept well ventilated during sanding and application and for a period after installation. Personal Protective Equipment may also be required. The manufacturer's recommendations for use must be carefully considered at all times.

7. CONFINED SPACES

EXCAVATION

Construction of this building and some maintenance on the building will require excavation and installation of items within excavations. Where practical, installation should be carried out using methods which do not require workers to enter the excavation. Where this is not practical, adequate support for the excavated area should be provided to prevent collapse. Warning signs and barriers to prevent accidental or unauthorised access to all excavations should be provided.

ENCLOSED SPACES

For buildings with enclosed spaces where maintenance or other access may be required: Enclosed spaces within this building may present a risk to persons entering for construction, maintenance or any other purpose. The design documentation calls for warning signs and barriers to unauthorised access. These should be maintained throughout the life of the building. Where workers are required to enter enclosed spaces, air testing equipment and Personal Protective Equipment should be provided.

SMALL SPACES

For buildings with small spaces where maintenance or other access may be required: Some small spaces within this building will require access by construction or maintenance workers. The design documentation calls for warning signs and barriers to unauthorised access. These should be maintained throughout the life of the building. Where workers are required to enter small spaces they should be scheduled so that access is for short periods. Manual lifting and other manual activity should be restricted in small spaces.

8. PUBLIC ACCESS

Public access to construction and demolition sites and to areas under maintenance causes risk to workers and public. Warning signs and secure barriers to unauthorised access should be provided. Where electrical installations, excavations, plant or loose materials are present they should be secured when not fully supervised.

9. OPERATIONAL USE OF BUILDING RESIDENTIAL BUILDINGS

This building has been designed as a residential building. If it, at a later date, it is used or intended to be used as a workplace, the provisions of the Work Health and Safety Act 2011 or subsequent replacement Act should be applied to the new use.

NON-RESIDENTIAL BUILDINGS

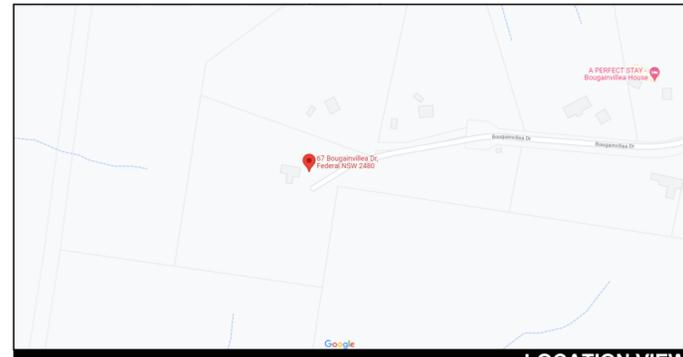
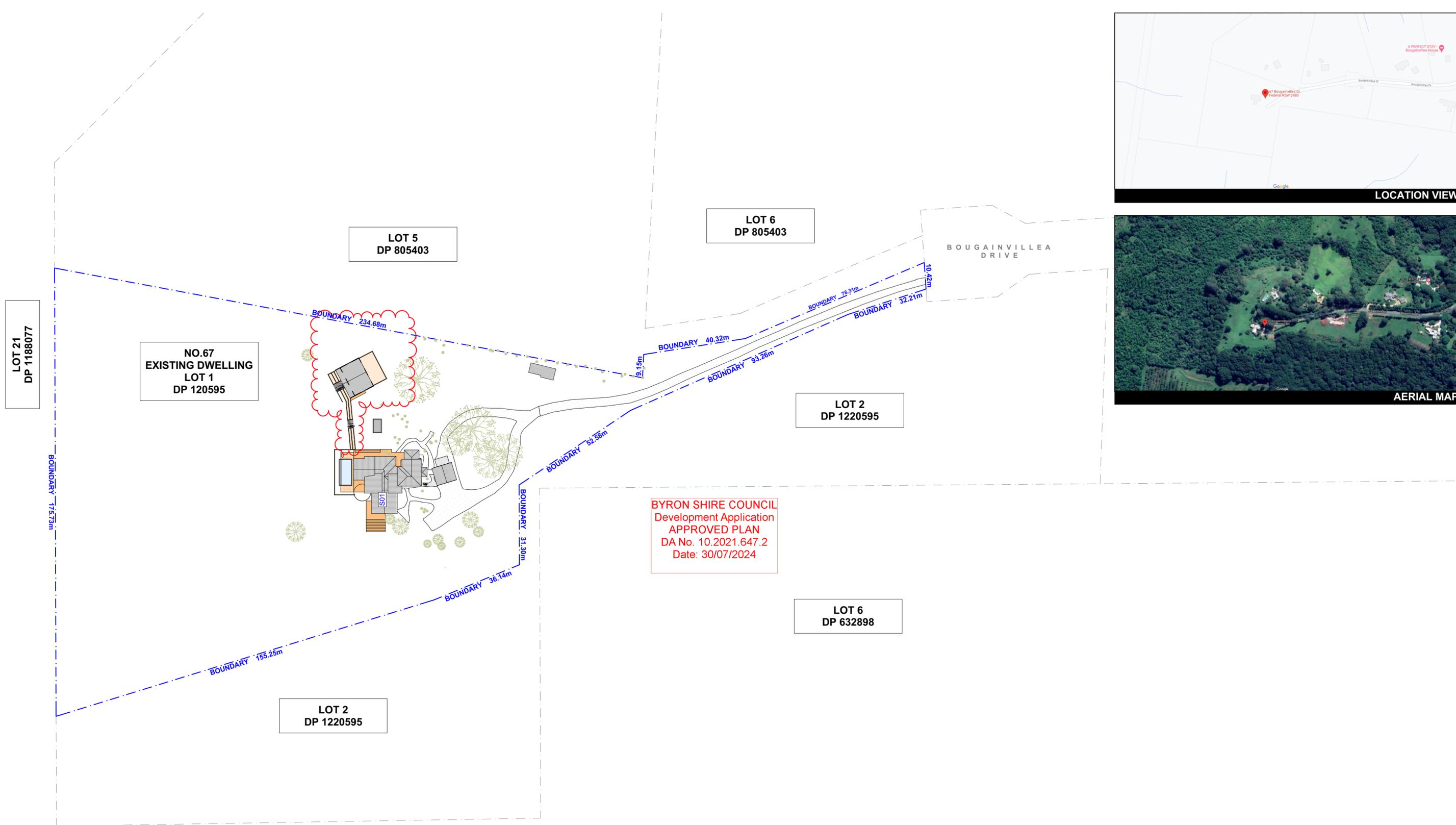
For non-residential buildings where the end-use has not been identified: This building has been designed to requirements of the classification identified on the drawings. The specific, use of the building is not known at the time of the design and a further assessment of the workplace health and safety issues should be undertaken at the time of fit-out for the end-user. For non-residential buildings where the end-use is known: This building has been designed for the specific use as identified on the drawings. Where a change of use occurs at a later date a further assessment of the workplace health and safety issues should be undertaken.

10. OTHER HIGH RISK ACTIVITY

All electrical work should be carried out in accordance with Code of Practice: Managing Electrical Risks at the Workplace, AS/ NZ 3012 and all licensing requirements. All work using Plant should be carried out in accordance with Code of Practice: Managing Risks of Plant at the Workplace. All work should be carried out in accordance with Code of Practice: Managing Noise and Preventing Hearing Loss at Work. Due to the history of serious incidents it is recommended that particular care be exercised when undertaking work involving steel construction and concrete placement. All the above applies.

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-prone areas' which are recommended in this report. It is included as a courtesy, is a guide only, and is not be complete. In addition, the contents of the documents from which this information was extracted may have changed between the date of preparation of this report, and its use or application. Specifications in other documents such as the Building Code of Australia (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								
	Timber <400mm ag	FRT or lined or enclosed			Non-combustible or FRT or enclosed				
	Timber >400mm ag	OK							
Floor posts	FRT or enclosed			Enclosed or non-combustible					
External walls	400mm FRT or non-combustible		FRT or non-combustible	Non-combustible					
Windows	Frame	FRT or metal			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	6mm toughened glass or full mesh	6mm toughened glass plus full mesh or shutter				
	Screens	Al, Fe or Br, if fitted			Fe or Br				
	Timber frames	FRT			Metal only				
	Garage	Lower 400mm FRT or non-combustible		FRT or non-combustible	Non-combustible				
Vents etc	Mesh	Al, Fe or Br mesh 2mm			Fe or Br mesh 2mm				
Roofs	Tiled	Fully sarked (Flammability Index <5)							
	Sheeted Non	-combustible, fully sarked (Flammability Index <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 water & gas pipes to metal								
Ag	Above ground	FRT	Fire Resistant Timber	Al	Aluminium	Fe	Stainless steel	Br	Bronze



1 **LOCATION PLAN** **1:1000**

NOTE: ALL DEMOLISHED ELEMENTS TO ENG. SPECIFICATIONS AND AS. 2601 - 2001

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LEGEND
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 DEMOLISHED

PROPOSED S4.55 CHANGES

CLIENT
 ELLA MILES (BYRON)

PROJECT ADDRESS
 67 BOUGAINVILLEA DRIVE, FEDERAL NSW 2480

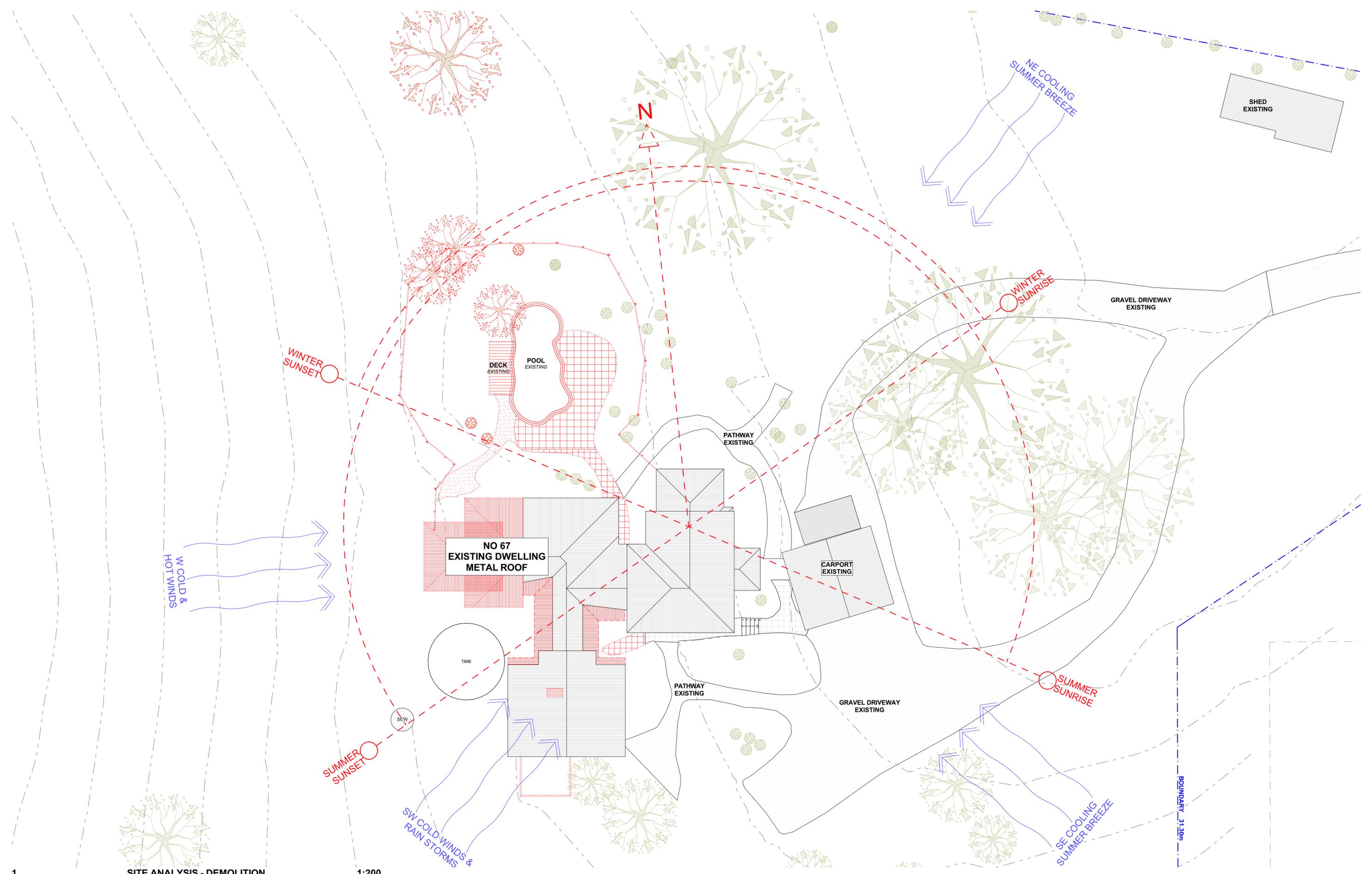
DRAWING NO.
MOD03

DATE
 Tuesday, 16 April 2024

DRAWING NAME
 LOCATION PLAN

SCALE
 1:1000 @A2





1

SITE ANALYSIS - DEMOLITION

1:200



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LEGEND

- EXISTING
- PROPOSED
- DEMOLISHED
- PROPOSED S4.55 CHANGES

BYRON SHIRE COUNCIL
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 DA No. 10.2021.647.2
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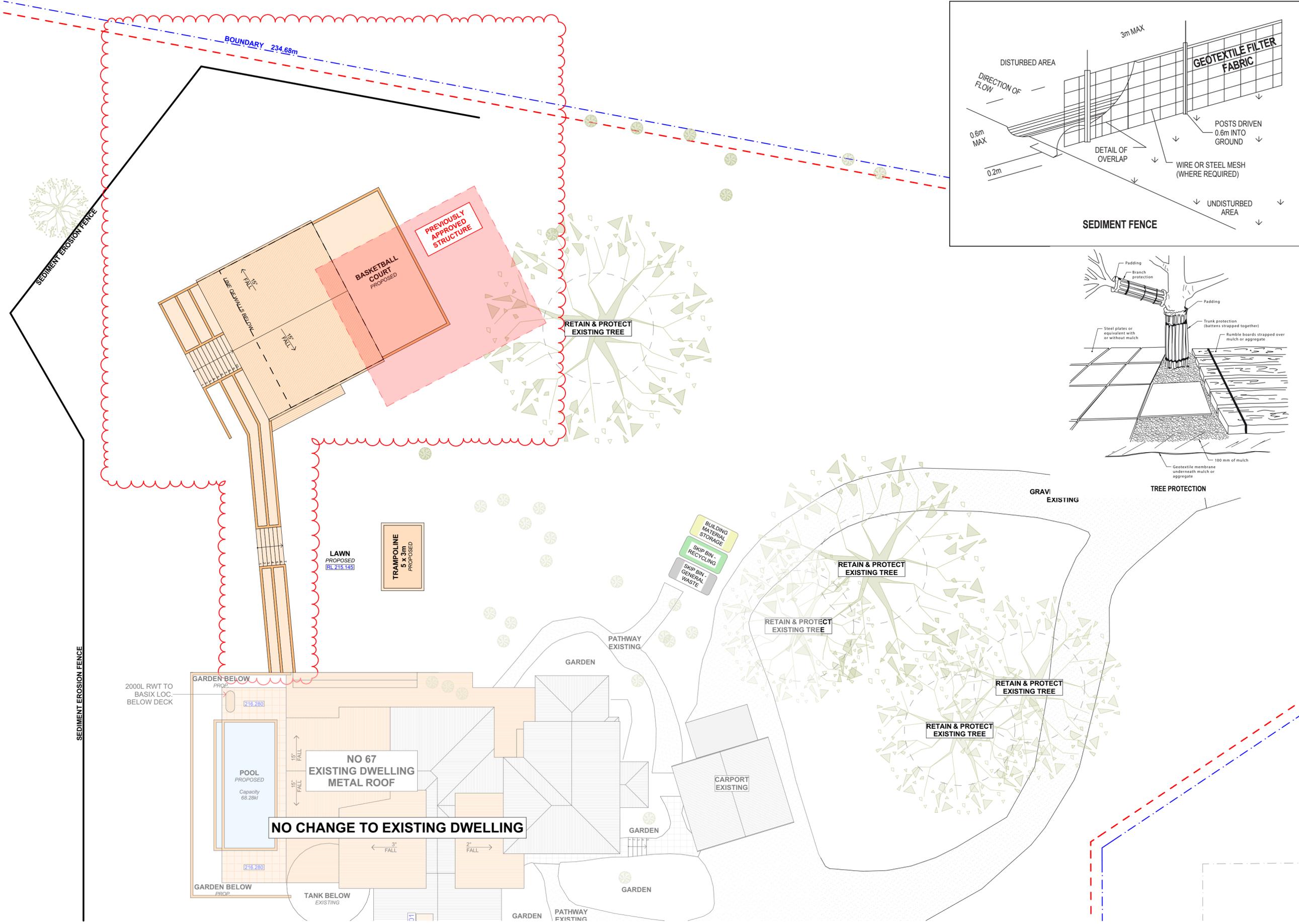
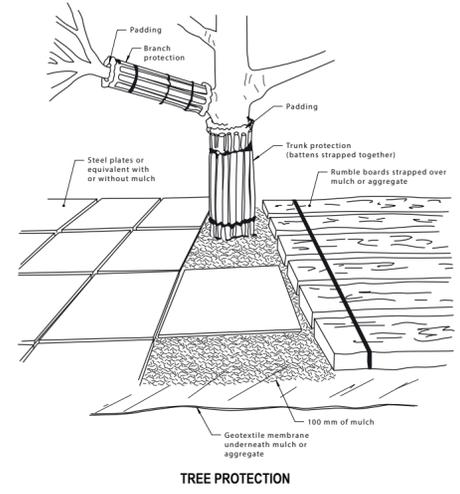
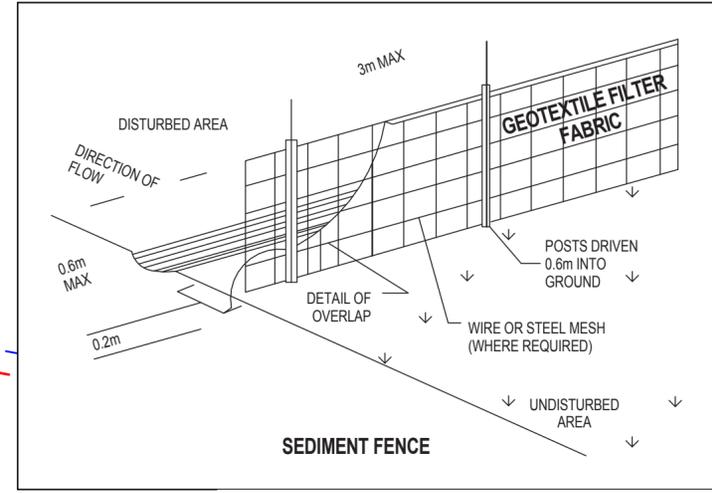
DATE
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DRAWING NAME
 SITE ANALYSIS

SCALE
 1:200 @A2



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 DA No. 10.2021.647.2
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1 SITE / ROOF / SEDIMENT EROSION / WASTE MANAGEMENT / STORMWATER CONCEPT PLAN 1:200

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LEGEND
 ■ EXISTING
 ■ PROPOSED
 - - - DEMOLISHED
 ☁ PROPOSED S4.55 CHANGES

CLIENT
 ELLA MILES (BYRON)

PROJECT ADDRESS
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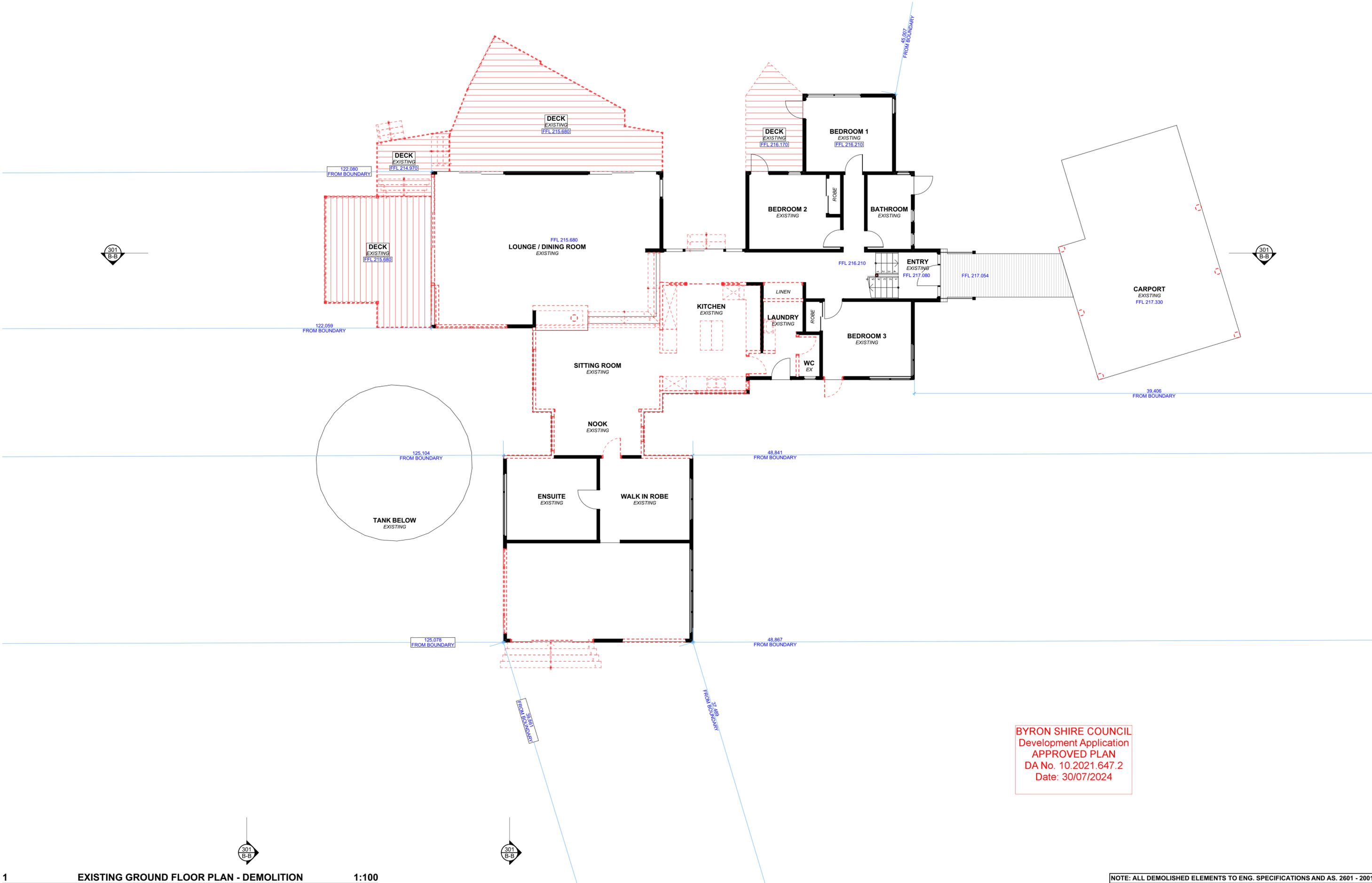
DRAWING NO.
MOD05

DATE
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DRAWING NAME
 SITE / ROOF / SEDIMENT EROSION / WASTE MANAGEMENT / STORMWATER CONCEPT PLAN

SCALE
 1:200 @A2





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APPROVED PLAN
 DA No. 10.2021.647.2
 Date: 30/07/2024

1 EXISTING GROUND FLOOR PLAN - DEMOLITION 1:100

NOTE: ALL DEMOLISHED ELEMENTS TO ENG. SPECIFICATIONS AND AS. 2601 - 2001

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LEGEND

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- PROPOSED
- DEMOLISHED
- PROPOSED S4.55 CHANGES

CLIENT
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DRAWING NO.
MOD06

DATE
 Tuesday, 16 April 2024

DRAWING NAME
 EXISTING GROUND FLOOR PLAN

SCALE
 1:100 @A2





BYRON SHIRE COUNCIL
Development Application
APPROVED PLAN
DA No. 10.2021.647.2
Date: 30/07/2024

DASHED LINE DENOTES EXISTING GROUND LEVEL



1

EXISTING FIRST FLOOR PLAN

1:100

NOTE: ALL DEMOLISHED ELEMENTS TO ENG. SPECIFICATIONS AND AS. 2601 - 2001



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LEGEND

- EXISTING
- PROPOSED
- DEMOLISHED
- PROPOSED S4.55 CHANGES

CLIENT
ELLA MILES (BYRON)

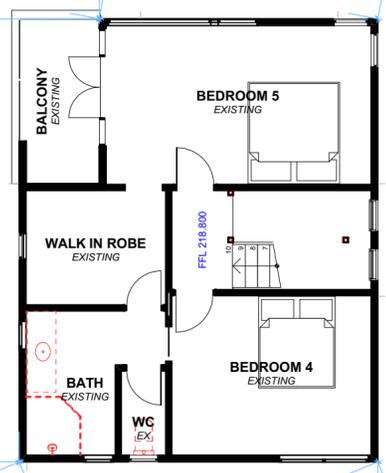
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DRAWING NO.
MOD07

DATE
Tuesday, 16 April 2024

DRAWING NAME
EXISTING FIRST FLOOR PLAN

SCALE
1:100 @A2



137.065 FROM BOUNDARY

49.171 FROM BOUNDARY

48.100 FROM BOUNDARY

135.434 FROM BOUNDARY

39.406 FROM BOUNDARY

FROM BOUNDARY

FROM BOUNDARY

BALCONY EXISTING

WALK IN ROBE EXISTING

BATH EXISTING

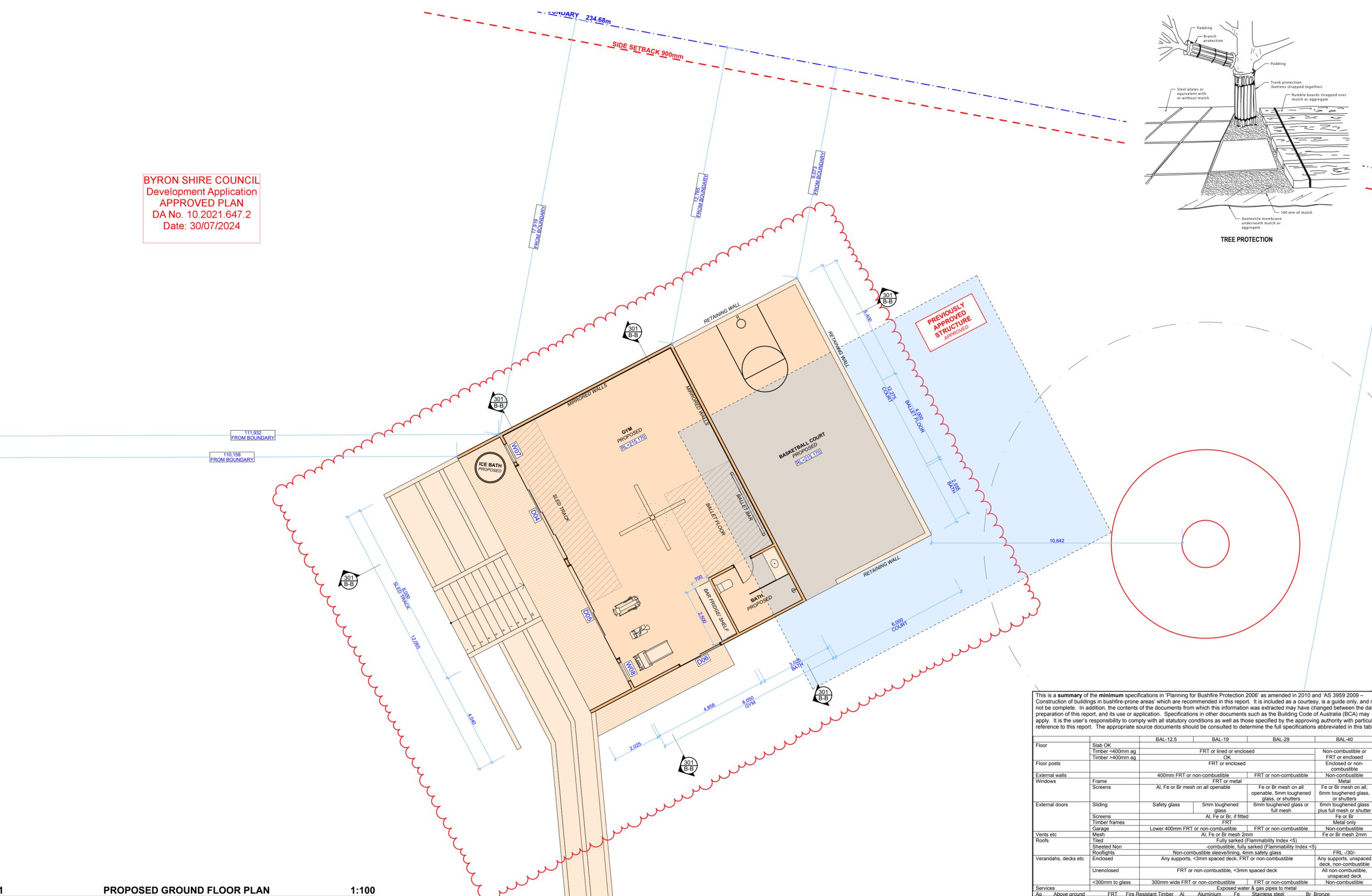
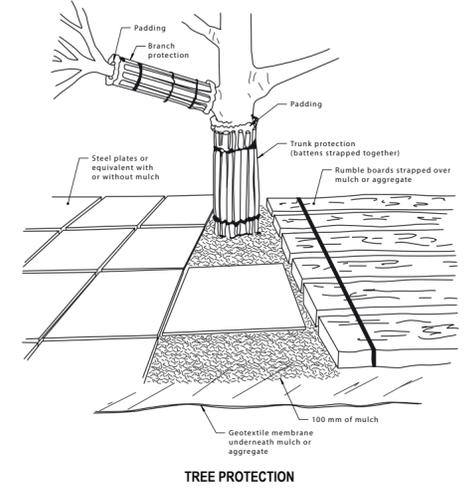
WC EXISTING

BEDROOM 4 EXISTING

BEDROOM 5 EXISTING

PFL 218.800

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Development Application
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DA No. 10.2021.647.2
Date: 30/07/2024



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		BAL-12.5	BAL-19	BAL-29	BAL-40
Floor	Slab OK				
	Timber <400mm ag	FRT or lined or enclosed			Non-combustible or FRT or enclosed
	Timber >400mm ag	FRT or enclosed			Enclosed or non-combustible
Floor posts		FRT or enclosed			Enclosed or non-combustible
External walls		400mm FRT or non-combustible		FRT or non-combustible	Non-combustible
Windows	Frame	FRT or metal			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	6mm toughened glass or full mesh	6mm toughened glass plus full mesh or shutter
	Screens	Al, Fe or Br, if fitted			Fe or Br
Timber frames		FRT			Metal only
Garage		Lower 400mm FRT or non-combustible			FRT or non-combustible
Vents etc	Mesh	Al, Fe or Br mesh 2mm			Fe or Br mesh 2mm
Roofs	Tiled	Fully sarked (Flammability Index <5)			
	Sheeted Non	-combustible, fully sarked (Flammability Index <5)			
Verandahs, decks etc	Enclosed	Non-combustible sleeve/lining, 4mm safety glass			FRL -/30/-
	Unenclosed	Any supports, <3mm spaced deck, FRT or non-combustible			Any supports, unspaced deck, non-combustible
Services		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
	Aa	Exposed water & gas pipes to metal			Non-combustible
	Ao	FRT	Fire Resistant Timber	Al	Aluminium
			Fe	Stainless steel	Br
					Bronze

1 PROPOSED GYM FLOOR PLAN 1:100

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LEGEND

- EXISTING
- PROPOSED
- DEMOLISHED
- PROPOSED S4.55 CHANGES

CLIENT
ELLA MILES (BYRON)

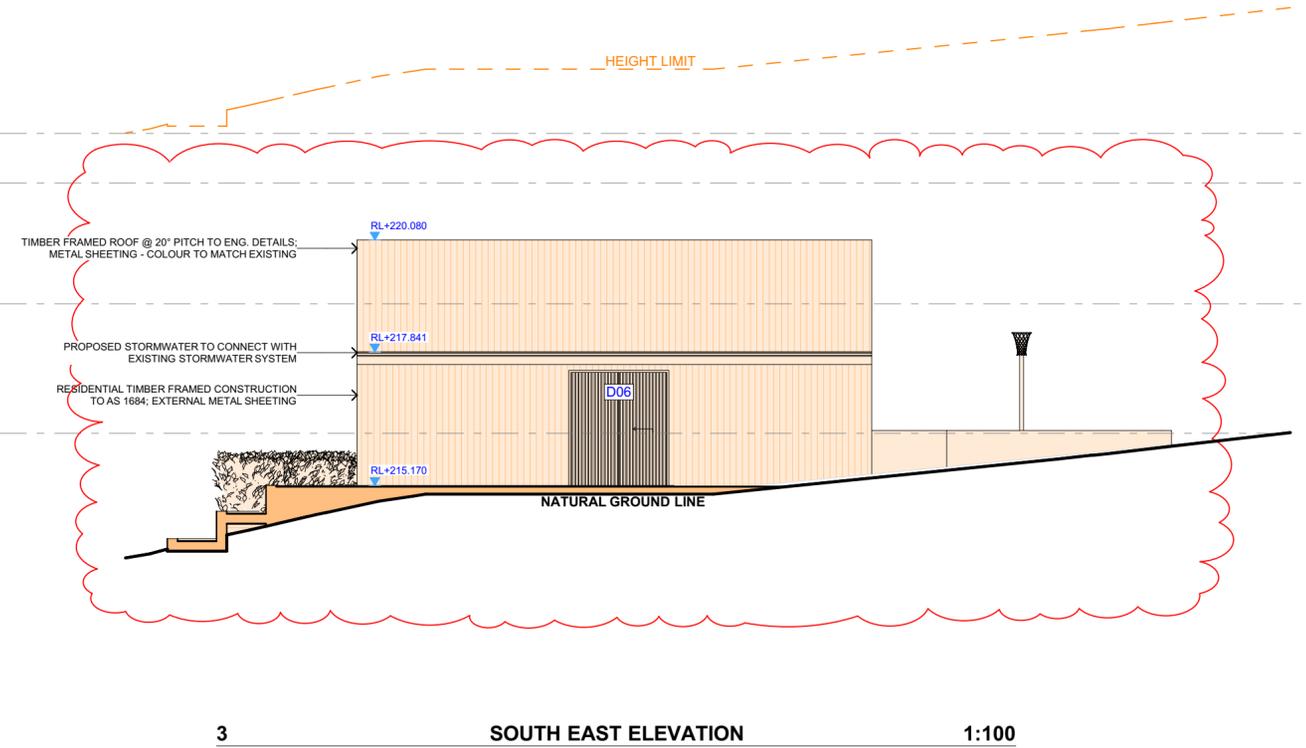
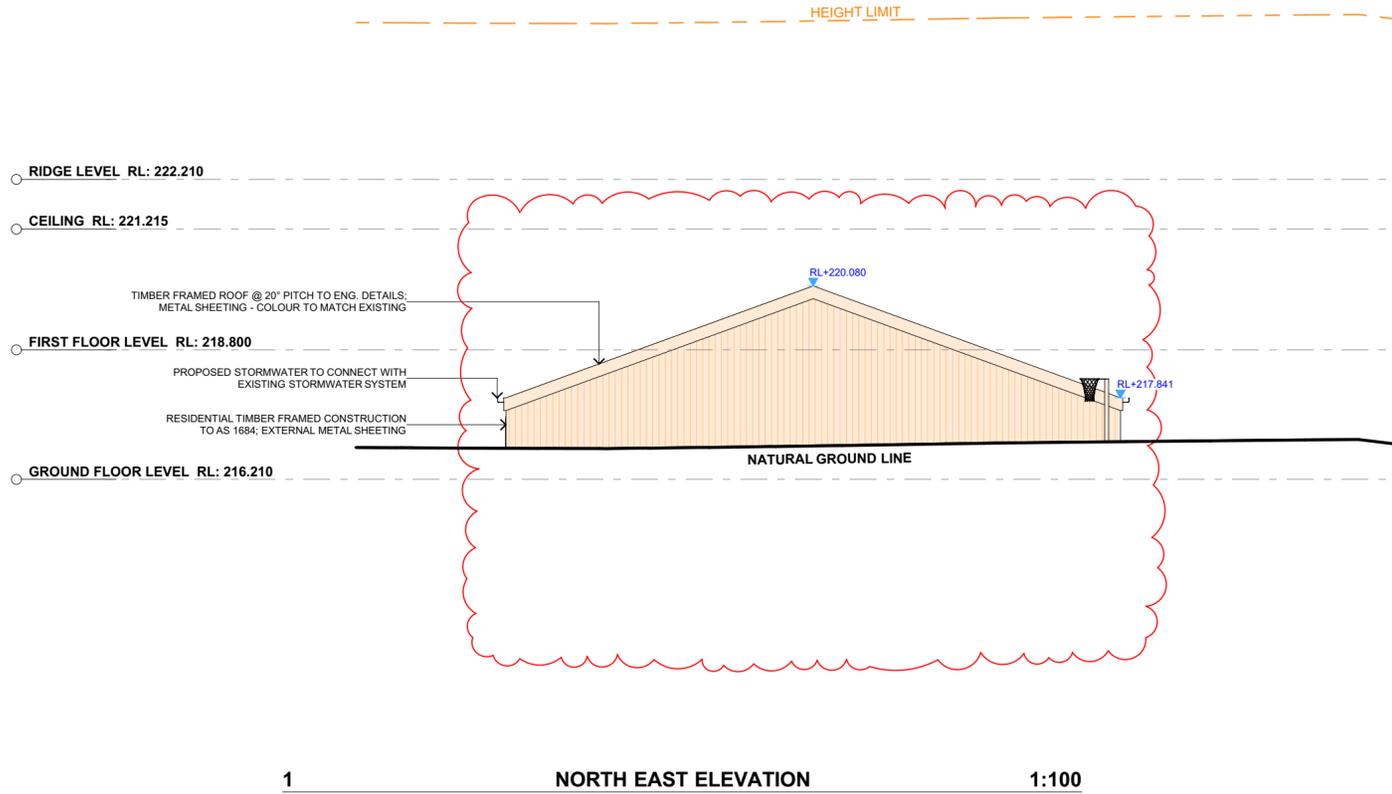
DRAWING NO.
MOD08

DRAWING NAME
PROPOSED GYM FLOOR PLAN

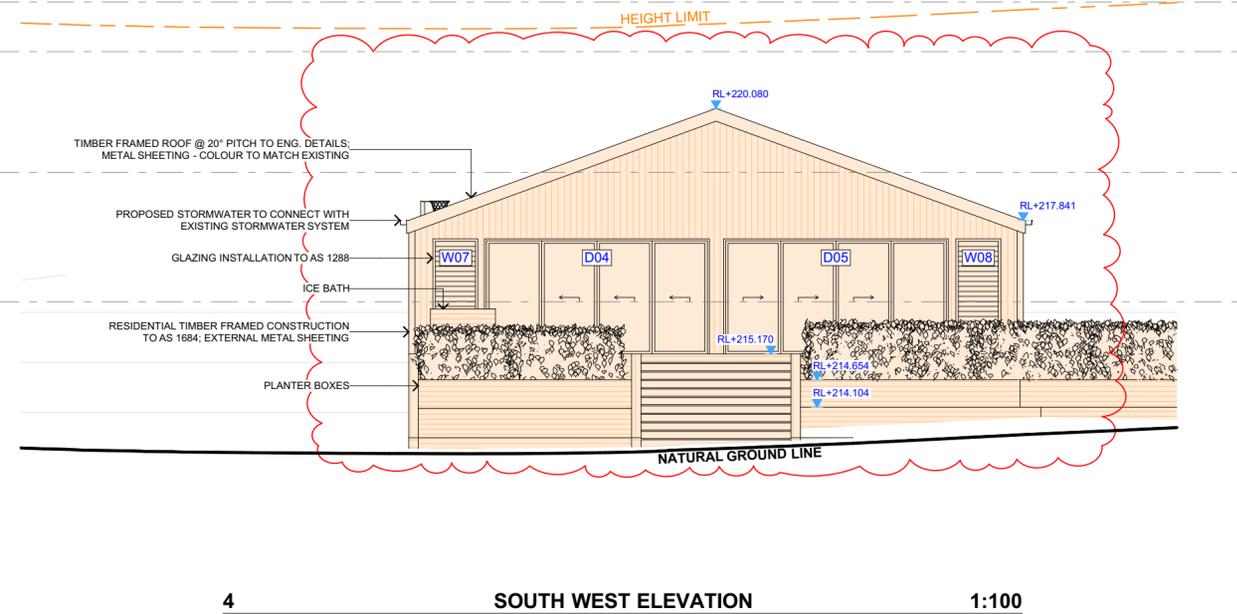
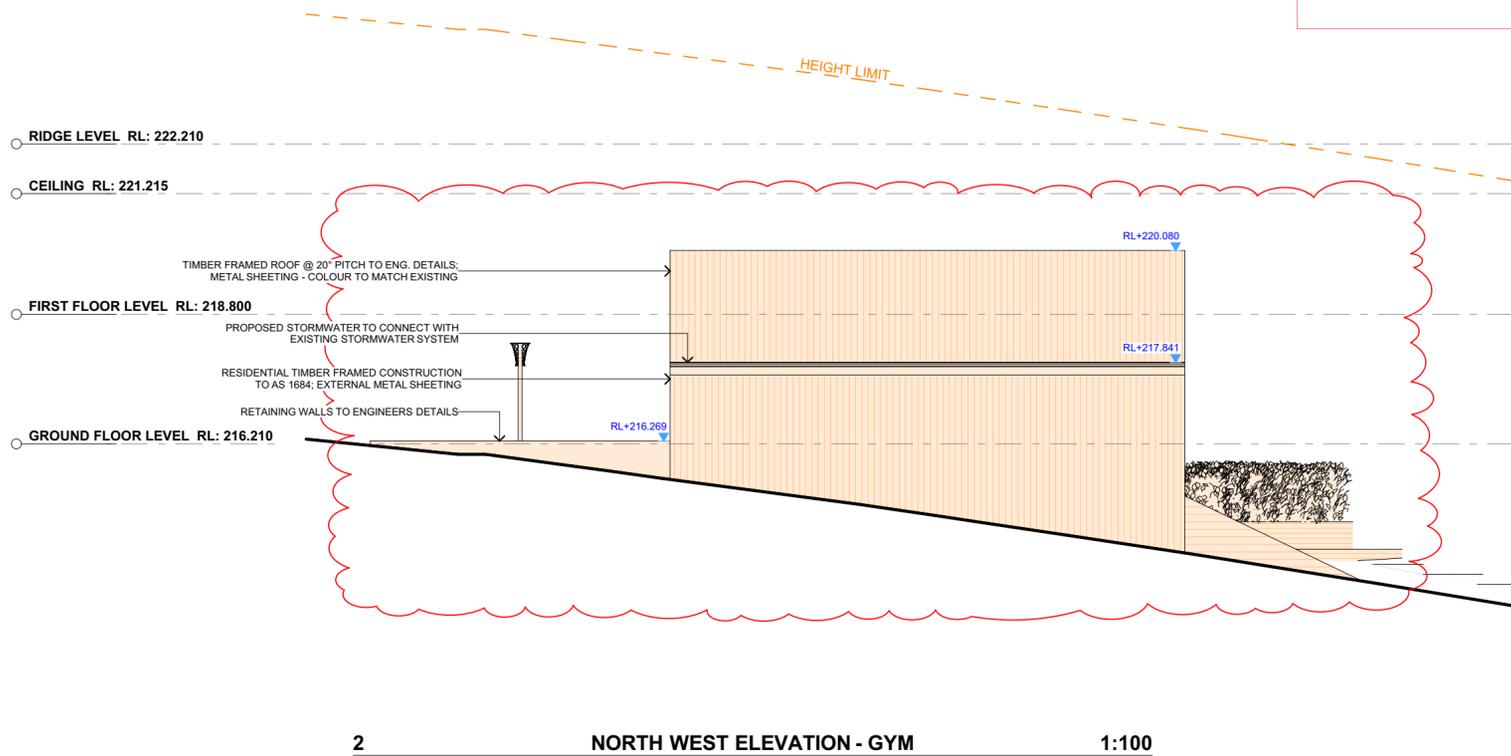
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Tuesday, 16 April 2024

SCALE
1:100 @A2



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LEGEND	
	EXISTING
	PROPOSED
	DEMOLISHED
	PROPOSED S4.55 CHANGES

CLIENT
ELLA MILES (BYRON)

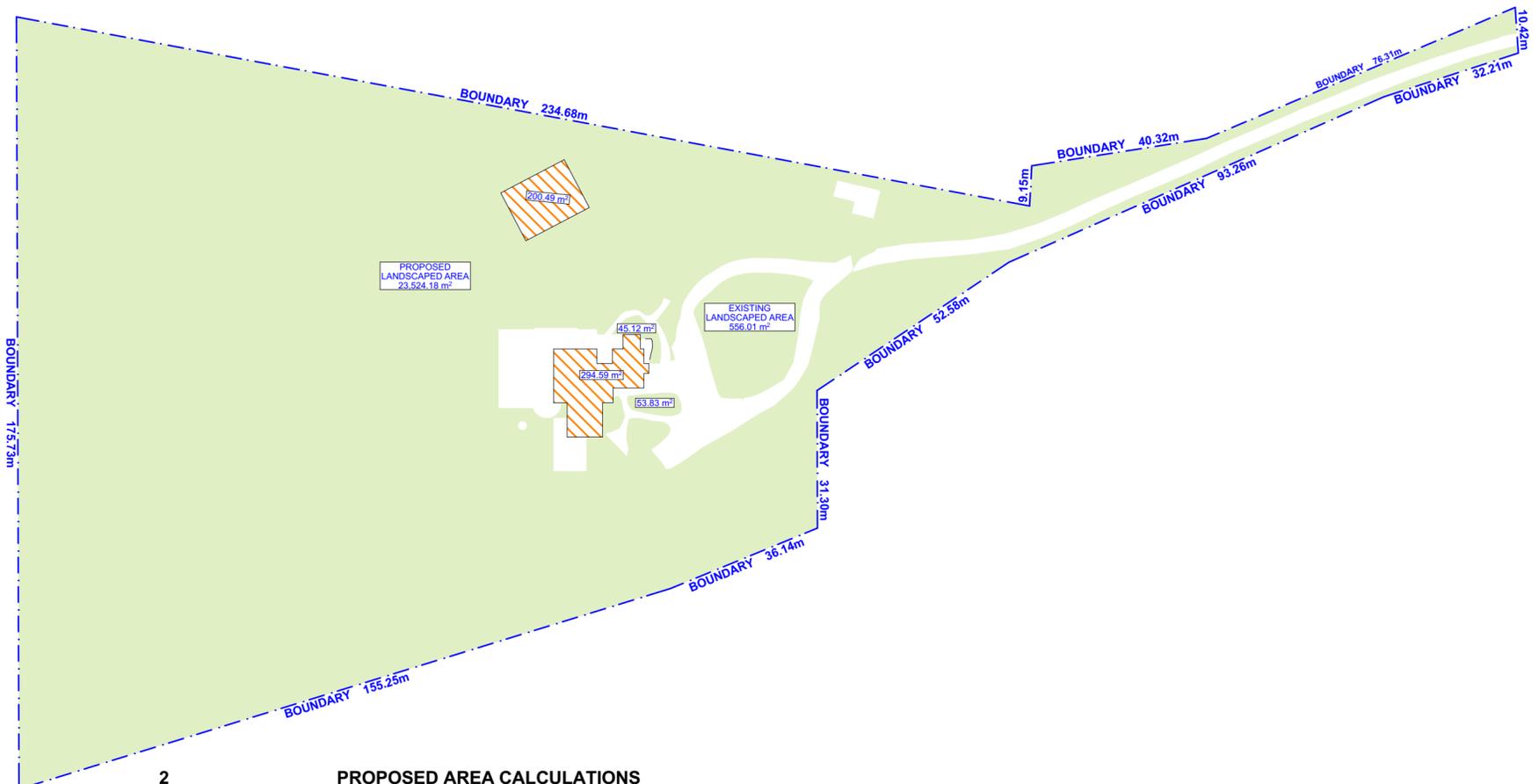
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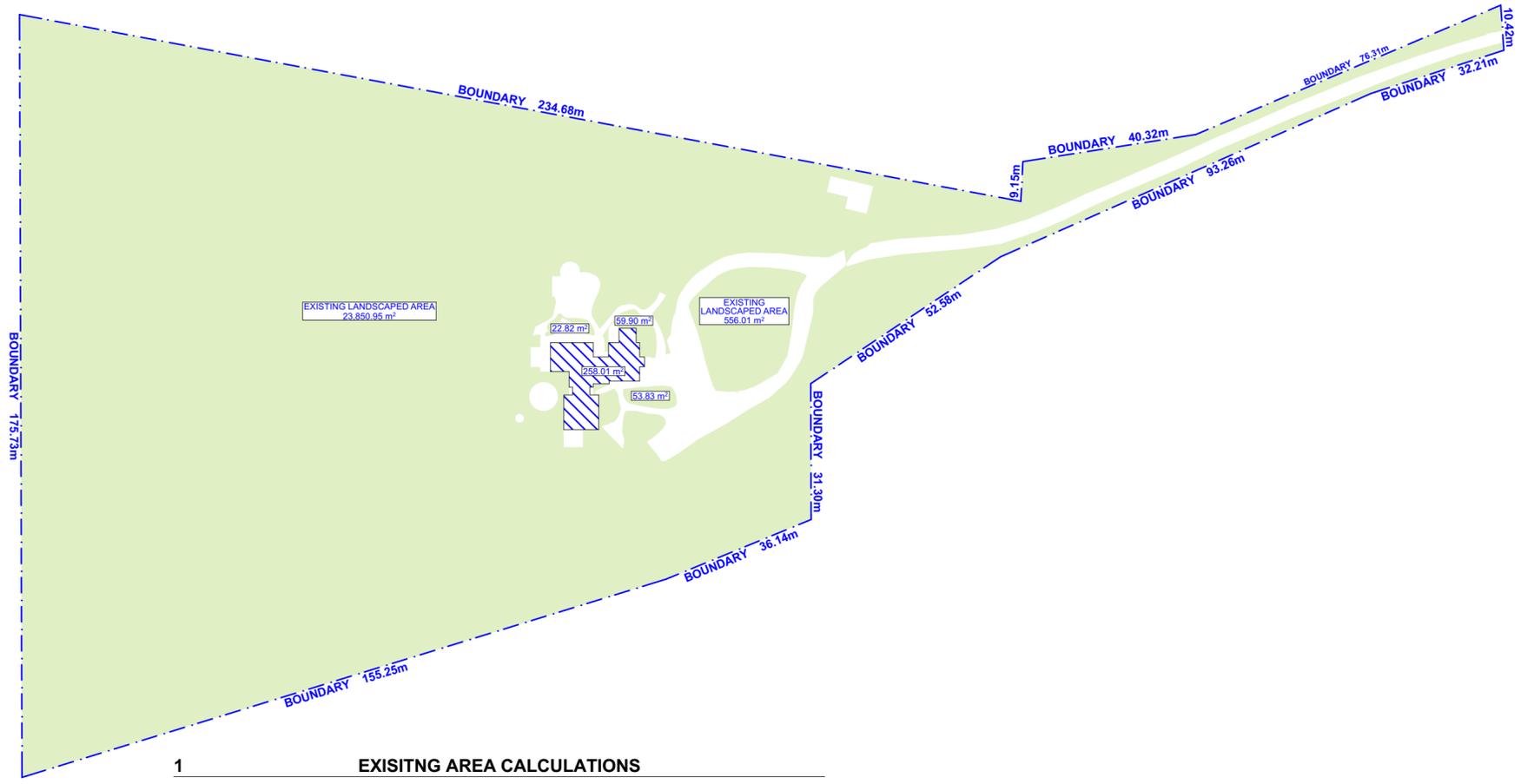
DRAWING NAME
PROPOSED GYM ELEVATIONS

SCALE
1:100 @A3



2 PROPOSED AREA CALCULATIONS

CONTROL TABLE		
SITE AREA 26,380m ²		
	REQUIRED	PROPOSED
LANDSCAPED AREA	25% (6595m ²)	91% (24,197.14m ²)

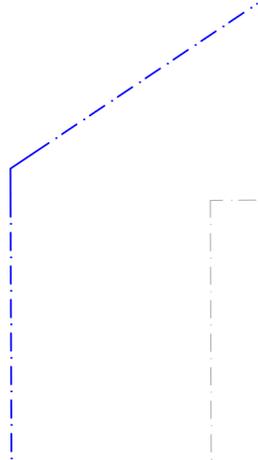
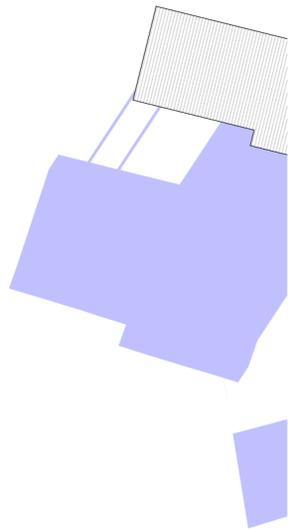
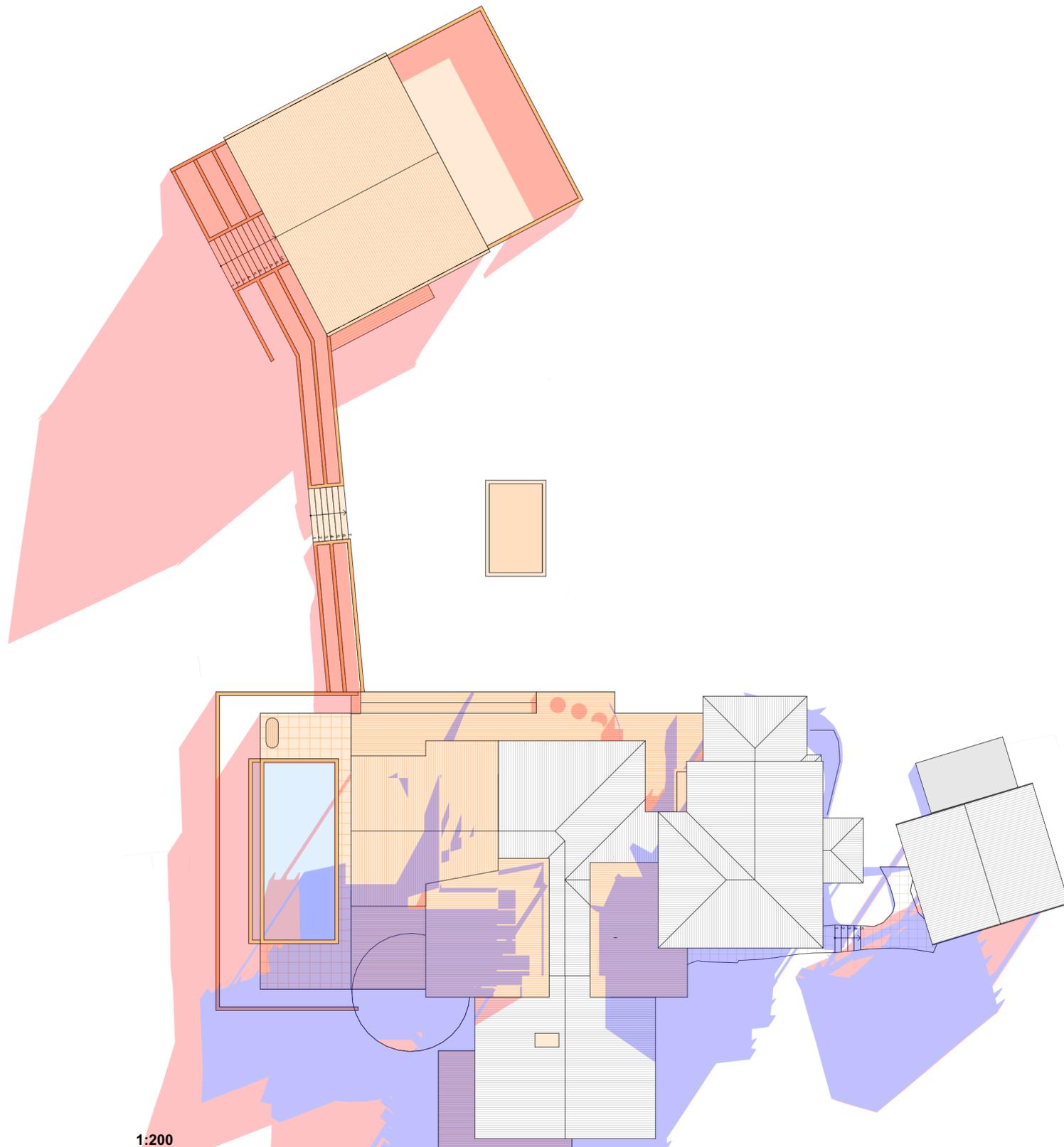


1 EXISTING AREA CALCULATIONS

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1

WINTER SOLSTICE 9AM

1:200



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LEGEND
 EXISTING SHADOWS
 PROPOSED SHADOWS

CLIENT
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PROJECT ADDRESS
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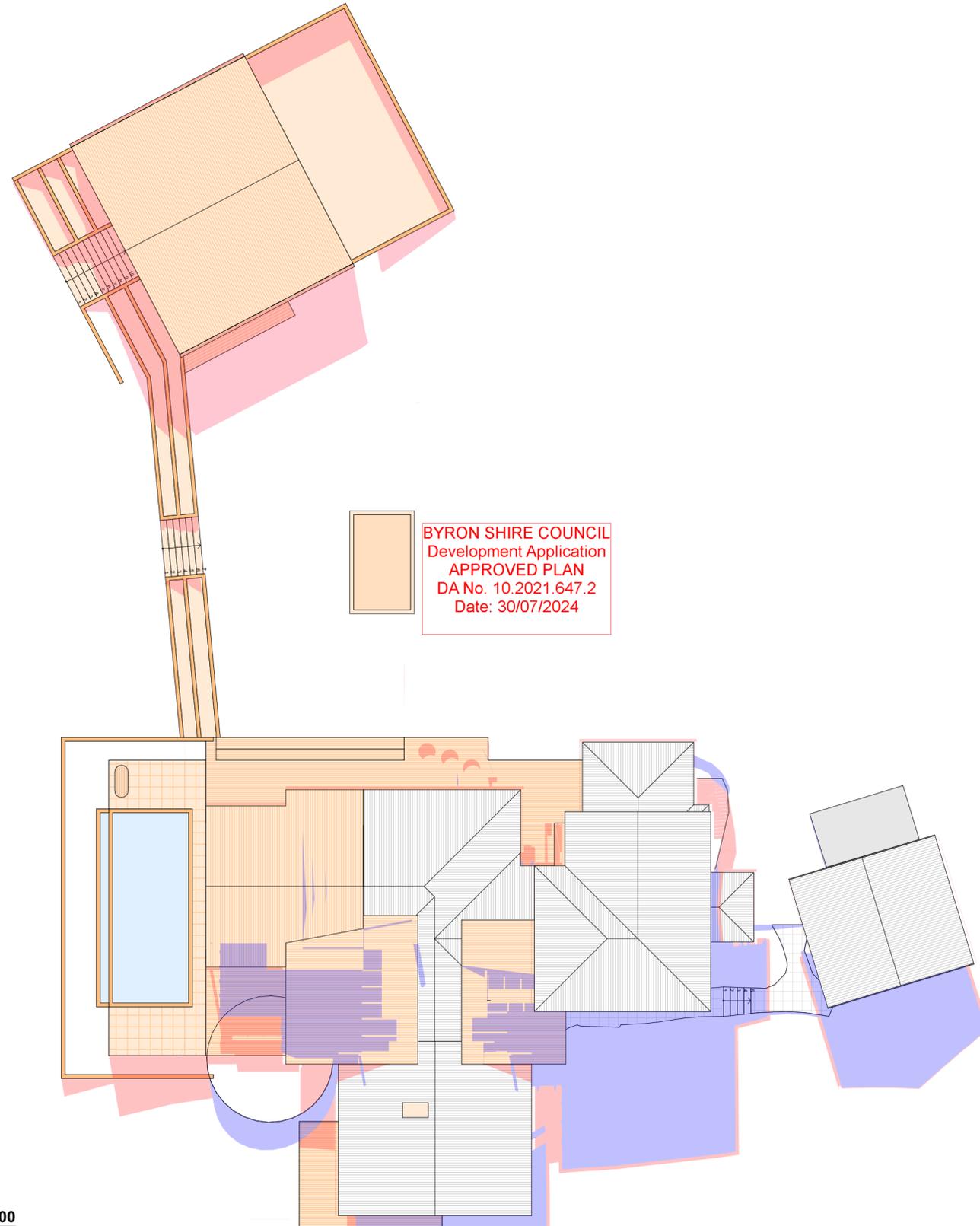
DRAWING NO.
MOD11

DATE
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DRAWING NAME
 WINTER SOLSTICE 9 AM

SCALE
 1:200 @A3





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1 WINTER SOLSTICE 12PM

1:200



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LEGEND
 EXISTING SHADOWS
 PROPOSED SHADOWS

CLIENT
 ELLA MILES (BYRON)

PROJECT ADDRESS
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 DRIVE, FEDERAL NSW
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DRAWING NO.
MOD12

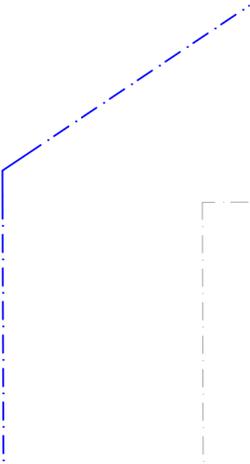
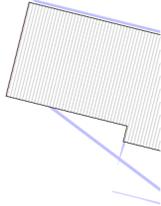
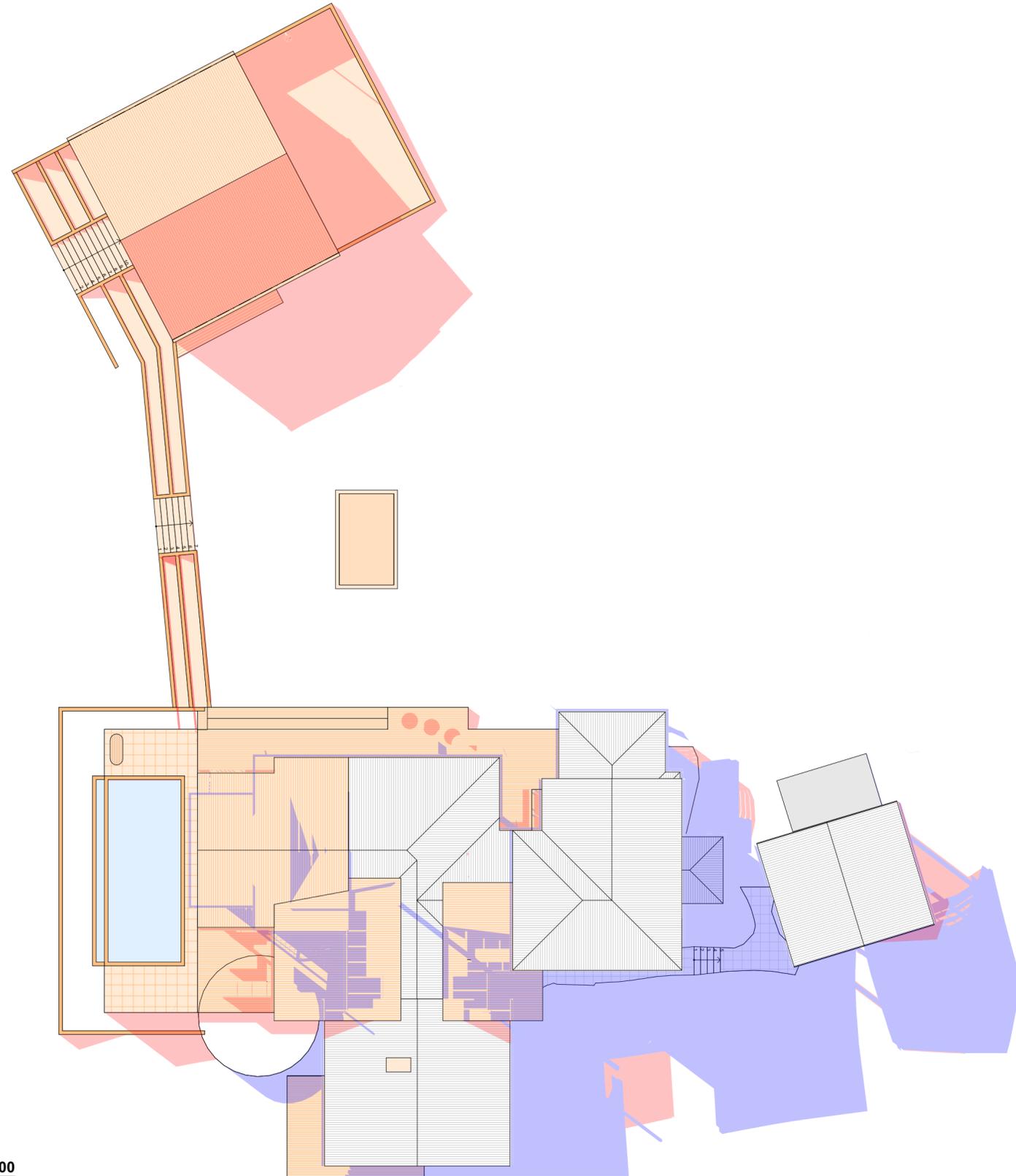
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DRAWING NAME
 WINTER SOLSTICE 12 PM

SCALE
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1

WINTER SOLSTICE 3PM

1:200



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LEGEND
 EXISTING SHADOWS
 PROPOSED SHADOWS

CLIENT
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DRAWING NO.
MOD13

DATE
 Tuesday, 16 April 2024

DRAWING NAME
 WINTER SOLSTICE 3 PM

SCALE
 1:200 @A3



Alterations and Additions

Certificate number: A432379_04

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.basix.nsw.gov.au

This certificate is a revision of certificate number A432379 lodged with the consent authority or certifier on 22 October 2021 with application PAN-149280.

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: Wednesday, 03 April 2024
To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	0862_04
Street address	67 BOUGAINVILLEA DRIVE - FEDERAL 2480
Local Government Area	Byron Shire Council
Plan type and number	Deposited Plan 120595
Lot number	1
Section number	-
Project type	
Dwelling type	Separate dwelling house
Type of alteration and addition	My renovation work is valued at \$50,000 or more, and includes a pool (and/or spa).
N/A	N/A
Certificate Prepared by (please complete before submitting to Council or PCA)	
Name / Company Name:	ACTION PLANS PTY LTD
ABN (if applicable):	55660046711

Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Rainwater tank			
The applicant must install a rainwater tank of at least 0 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 rainwater runoff from at least 100 square metres of roof area.		✓	✓
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool.		✓	✓
Outdoor swimming pool			
The swimming pool must be outdoors.	✓	✓	✓
The swimming pool must not have a capacity greater than 68.28 kilolitres.	✓	✓	✓
The swimming pool must have a pool cover.		✓	✓
The applicant must install a pool pump timer for the swimming pool.		✓	✓
The applicant must install the following heating system for the swimming pool that is part of this development: electric heat pump.		✓	✓

Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Lighting			
The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		✓	✓
Fixtures			
The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating.		✓	✓
The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.		✓	✓
The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating.		✓	✓

Construction	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements			
The applicant must construct the new or altered construction (floor(s), walls, and ceilings/roofs) in accordance with the specifications listed in the table below, except that a) additional insulation is not required where the area of new construction is less than 2m ² , b) insulation specified is not required for parts of altered construction where insulation already exists.	✓	✓	✓
Construction			
	Additional insulation required (R-value)	Other specifications	
suspended floor with enclosed subfloor: framed (R0.7).	nil	N/A	
external wall: framed (weatherboard, fibro, metal clad)	R1.00 (or R1.40 including construction)		
flat ceiling, pitched roof	ceiling: R1.31 (down), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)	
raked ceiling, pitched/skillion roof: framed	ceiling: R1.26 (down), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)	

Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and glazed doors			
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	✓	✓	✓
The following requirements must also be satisfied in relation to each window and glazed door:		✓	✓
Each window or glazed door with standard aluminium or timber frames and single clear or toned glass may either match the description, or, have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions.		✓	✓
For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill.	✓	✓	✓
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		✓	✓
Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.		✓	✓

Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check							
Windows and glazed doors glazing requirements										
	Window/door number	Orientation	Area of glass including frame (m ²)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
	W01	E	1.85	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
	W02	S	1.62	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
	W03	S	1.58	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
	W04	W	5.83	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
	W05	W	3.65	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
	W06	W	3.65	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
	D01	S	7.77	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
	D02	W	7.77	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
	D03	W	13.44	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
	D04	SW	1.35	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
	D05	SW	10.35	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
	D06	SE	4.6	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
	W07	SW	2.07	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
	W08	SW	2.07	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

Legend
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 & 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 for the development may be issued.

REV.	DATE	COMMENTS	DRWN	NOTES
A	09.04.2024	S4.55 MODIFICATION	JW	This drawing is the copyright of Action Plans and not be altered, reproduced or transmitted in any form or by any means in part or in whole with the written permission of Action Plans. Do not scale measure from drawings. Figured dimensions are to be used only. The Builder/Contractor shall check and verify all levels and dimensions on site prior to commencement of any work, creation of shop drawings, or fabrication of components. All errors and omissions are to be verified by the Builder/Contractor and referred to the designer prior to the commencement of works. All window & door dimensions, orientation, glazing materials, opening types, frame types are to be confirmed by a suitably qualified person prior to the ordering of any such materials are to take place. U value takes precedence over glazing type/colour in all cases. all new glazing must meet the BASIX specified frame and glass type, QR meet the ecified U value and SHGC value.