

Action Plans

m: 0426 957 518
e: operations@actionplans.com.au
w: www.actionplans.com.au

PLANS PUBLISHED
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DEVELOPMENT APPLICATION

These plans are for Council Approval only.

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|------|---|
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| DA21 | NaTHERS / BASIX COMMITMENTS |

| ITEM DETAILS | DEVELOPMENT APPLICATION | | | |
|----------------------------|---|----------------|----------------|------------|
| ADDRESS | 12 KEVIN AVENUE, AVALON NSW 2107 | | | |
| LOT & DP/SP | LOT 55 DP 12074 | | | |
| COUNCIL | NORTHERN BEACHS COUNCIL (PITTWATER: AVALON) | | | |
| SITE AREA | 929m² | | | |
| FRONTAGE | 15.24m | | | |
| CONTROLS | PERMISSIBLE / REQUIRED | EXISTING | PROPOSED | COMPLIANCE |
| | m / m² / % | m / m² / % | m / m² / % | |
| LEP | | | | |
| LAND ZONING | R2 | R2 | UNCHANGED | YES |
| MINIMUM LOT SIZE | 700m² | 929m² | UNCHANGED | YES |
| FLOOR SPACE RATIO | NOT IDENTIFIED | N/A | N/A | N/A |
| MAXIMUM BUILDING HEIGHT | 8.5m | 7.12m | 9.146m | NO |
| HAZARDS | | | | |
| ACID SULFATE SOILS | CLASS 5 | N/A | N/A | N/A |
| DCP | | | | |
| SIDE BOUNDARY ENVELOPE | 3.5m | N/A | N/A | |
| SIDE BOUNDARY SETBACKS | NW: 2.5m | NW: 2.486m | NW: 2.020m | NO |
| | SE: 1m | SE: 2.320m | SE: 1m | YES |
| FRONT BOUNDARY SETBACK | 6.5m | 13.997m | 6.542m | YES |
| REAR BOUNDARY SETBACK | 6.5m | 30.623m | 22.785m | YES |
| LANDSCAPE OPEN SPACE | 60% (557.4m²) | 60% (555.06m²) | 45% (419.88m²) | NO |
| LANDSCAPE OPEN SPACE | 6% (55.74m²) | - | 6%(55.74m²) | NO |
| 6% IMPERVIOUS VARIATION | | | | |
| LANDSCAPE OPEN SPACE TOTAL | 613.14m² | - | 51% (475.62m²) | NO |
| PRIVATE OPEN SPACE | 80m² | 80m² | 152.03m² | YES |

12 KEVIN AVENUE, AVALON BEACH NSW 2107



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 get written confirmation of material selection by the client prior to ordering
- All construction, control joints, and expansion joints in the wall, floors, 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 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 obtained 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 only 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 in addition to what 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 the Standards Association of Australia, National construction Code of Australia 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 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 - "Timber Framing Code". Level & 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 &/or seepage water does not collect or remain under floor area.
- Sustainable timbers and not rainforest or old growth timber will be use. Recycled timber or second hand timbers are to be sourced and used in preference to plantation timbers, if available and suitable.
- All glazing installed is to comply with AS 1288, 2047 and in accordance with manufacturers recommendations.
- All wall and ceiling linings to be plasterboard and villaboard or equal in wet areas. 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 specification. All bathrooms and wet areas to be waterproofed with a flexible membrane to manufacturer's specification and to AS 3740 and Part 3.8.1 of the Building Code of Australia Housing Provisions.
- 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 and part 3.1.2 Drainage of the Building Code of Australia Housing Provisions.
- Smoke detector alarms to be installed in accordance with AS3786 and the Building Code of Australia/ NCC clause 3.7.2.2.
- If a member which provides structural support to the work is subject to attack by Termites protection measures are to comply with AS3660 and be installed to manufacturer's specification.

- Stairs and Balustrades to comply with part 3.9.1 & 3.9.2 of the Building Code of Australia Housing Provisions. 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 in 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 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 at the Builder's expense.
- 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
- The owner will directly pay the fees associated with the following: building approval from council, footpath and kerb deposits with the local council, insurance fee to building services corporation, long service leave service levy fee and approval fee 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 cause will be deducted from the 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 stated in the contract conditions.
- All work to be carried out in a tradesmen like manner and in accordance with the standards codes and regulations of the standards association of Australia, building code of Australia and any statutory authority having jurisdiction over the work.
- 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.
- All work and materials to comply with the current Australian standards at the time of commencement were applicable.
- These drawings shall be read in conjunction with all structural and other consultants 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 should not be obtained by scaling the drawings. use only 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.
- 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 plumbing and drainage work to be installed and completed by a licenced tradesman and in accordance with the statutory body having authority over the works. connect all waste to Sydney water sewer line
- All new downpipes are to be connected to the existing storm water system.
- All power and stormwater outlet locations shall be determined onsite by the owner.
- Smoke detector alarm to be installed in accordance with as3786 and the building code of Australia.
- Electrical work to be in accordance with SAA wiring rules and be done by a licenced tradesman
- Any detailing in addition to what 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 supplied by the engineer.
- All timber sizes and concrete details to be confirmed by the builder prior to commencement of any work.
- All structural work is to be in accordance with the structural details prepared by a structural engineer(i.e.) piers, footings, concrete slabs, retaining walls, steelwork, formwork, underpinning, additional structural loads, timber framing, wind bracing and associated connections. builder to obtain prior to finalising tender.
- Any work indicated on the plans but not specified, and any item not shown on the plan which is obviously necessary as a part of construction and/or finish is to be considered as shown and specified, and is to be done as part of the contract. variations will not be permitted without the written consent of the owner.
- The builder shall provide sediment and siltation control measures as required by council and maintain them through the duration of the works.
- A legible copy of the plans bearing approval stamps must be maintained on the job at all times. hours of construction will be restricted to the times as required by the building approval.
- The builder is to arrange for all inspections required by the authorities and 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 with existing services and equipment to be attended to by the appropriately skilled tradesmen.
- The builder shall restore, reinstate or replace any damage caused to existing structures or landscaping by construction work or workmen. provide protection to existing trees to remain as required by approval conditions.

- All brickwork is to be selected by owner and is to comply with as1640
- All masonry to comply with as3700
- All metalwork and flashing items necessary to satisfactory complete work shall be provided.
- All gutters, downpipes to be colorbond.
- All timber construction to be in accordance with the Australian standard 1684 "timber framing code"
- All glazing installed to comply with as1288, 2047 and in accordance with manufacturers recommendation
- All wall and ceiling linings to be plasterboard or cement render as selected and villa board in wet areas, to comply with the relevant Australian standards or installed in accordance with manufacturers specification.
- All bathrooms and wet areas to be adequately waterproofed to manufacturers speciation and as3740 and part 3.8.1 of the building code of Australia housing provisions
- Stairs and balustrades to comply with part 3.9.1 & 3.9.2 of the building code of Australia housing provision.
- Termite protection measures to comply with as 3660 and be installed to manufacturers specification.
- Any detailing additional to that supplied, shall be resolved between the owner and the builder to the owners approval. except for any structural details or design which is to be supplied by the structural engineer.

NCC & AS COMPLIANCES SPECIFICATIONS

- Earthworks - part 3.1.1 of NCC
- Earth retaining structures - part 3.1.2 of NCC & AS 4678-2002
- Drainage - part 3.1.3 of NCC
- Termite-risk management - part 3.1.4 of NCC & AS 3660
- Footings & slab - part 3.2 of NCC & AS 2870-2011
- Masonry - part 3.3 of NCC & AS 3700:2018
- Framing - part 3.4 of NCC
- Sub floor ventilation - part 3.4.1 of NCC
- Roof & wall-cladding - part 3.5 of NCC
- Glazing - part 3.6 of NCC & AS 1288, AS 2047
- Fire safety - part 3.7 of NCC
- Fire separation of external walls - part 3.7.2 of NCC
- Fire protection of separating walls & floors - part 3.7.3 of NCC
- Smoke Alarms - part 3.7.5 of NCC & AS 3786
- Wet areas & 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
- Sound insulation - part 3.8.6 of NCC
- Stairway and 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 & AS 1926.1-2012
- Demolition works - AS 2601-2001
- Waterproofing of domestic wet areas to AS 3740-2021
- Plumbing & drainage work to comply with AS 3500:2021
- Plasterboard work to comply with AS 2588:2018
- Structural steel work to comply with AS 4100-2020 & AS 1554:2014
- Concrete work to comply with AS 3600:2018
- Metal roof & wall cladding to comply with AS 1562.1:2018
- Skylights to comply with AS 4285:2019
- Ceramic tiling to comply with AS 3958.1-2007 & 3958.2-1992
- Glazing assemblies to comply with AS 2047:2014 & AS 1288:2021
- Construction of buildings in bushfire prone areas to 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 an 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 of 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, 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.

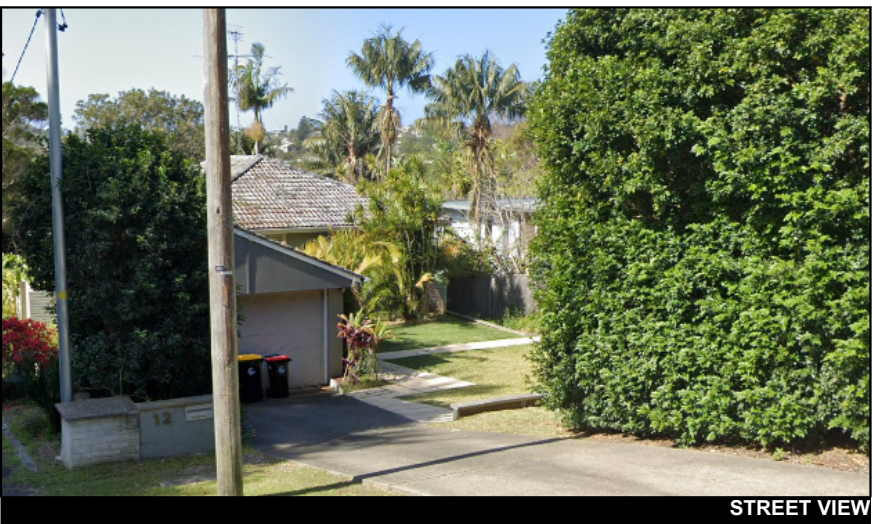
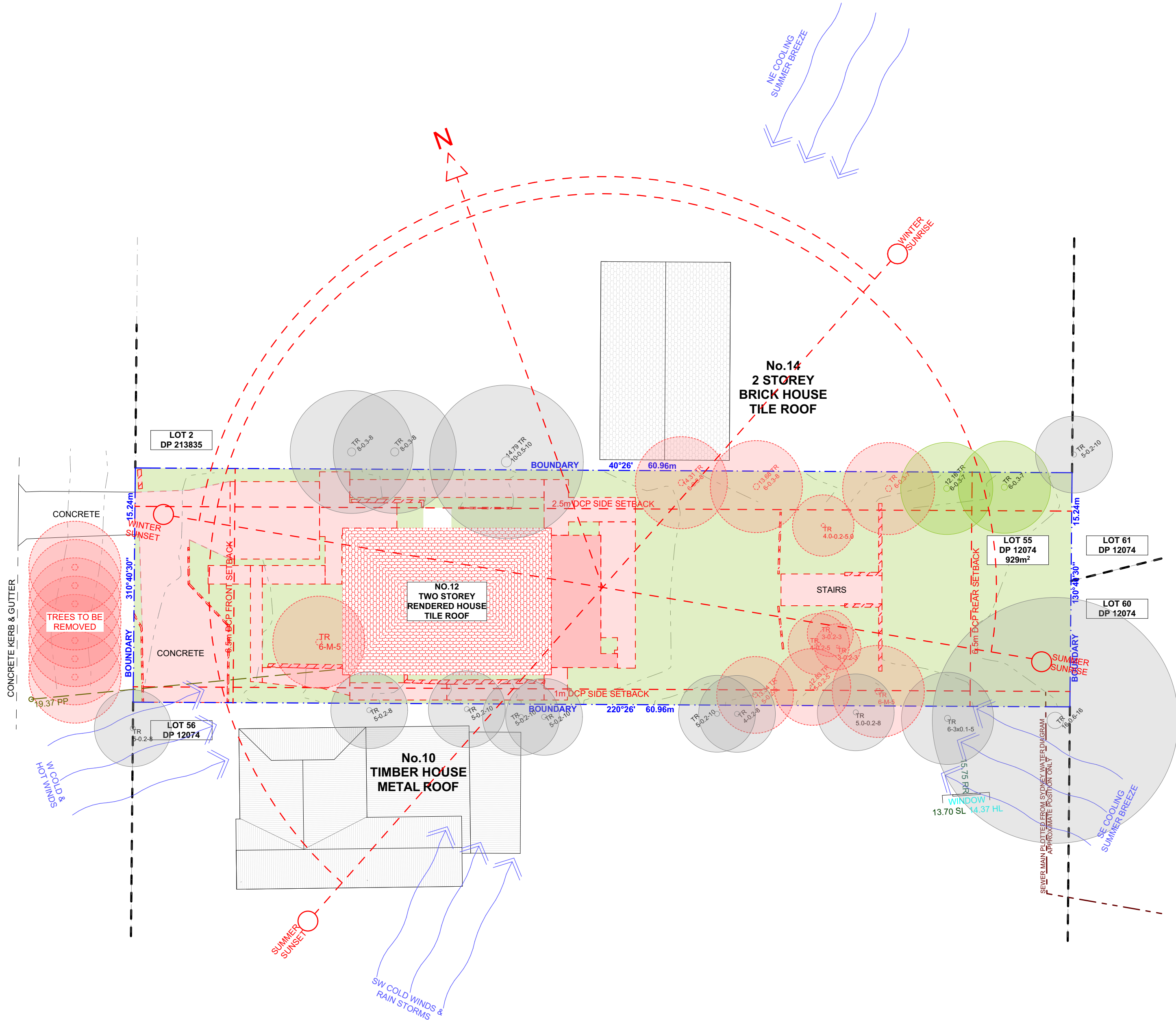
NON-RESIDENTIAL BUILDINGS

For non-residential buildings where the end-use has not been identified: This building has been designed to meet 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.

KEVIN AVENUE



ACTION PLANS

m: 0426 957 518
e:operations@actionplans.com.au
w: www.actionplans.com.au

| REV. | DATE | COMMENTS | DRWN | NOTES |
|------|------------|-----------------------|------|--|
| A | 02/11/2022 | DA ISSUE | DLR | 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. |
| B | 05/04/2023 | DRIVEWAY LONG SECTION | AL | Do not scale measure from drawings. Figured dimensions are to be used only. |
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LEGEND

- EXISTING

DEMOLISHED

METAL ROOFING

TILED ROOFING

TIMBER STUD
- TILED FLOOR

TIMBER FLOOR

BRICKWORK

CLIENT
DAN & MEL MIEGEL

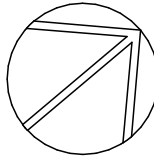
PROJECT ADDRESS
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AVALON BEACH NSW 2107

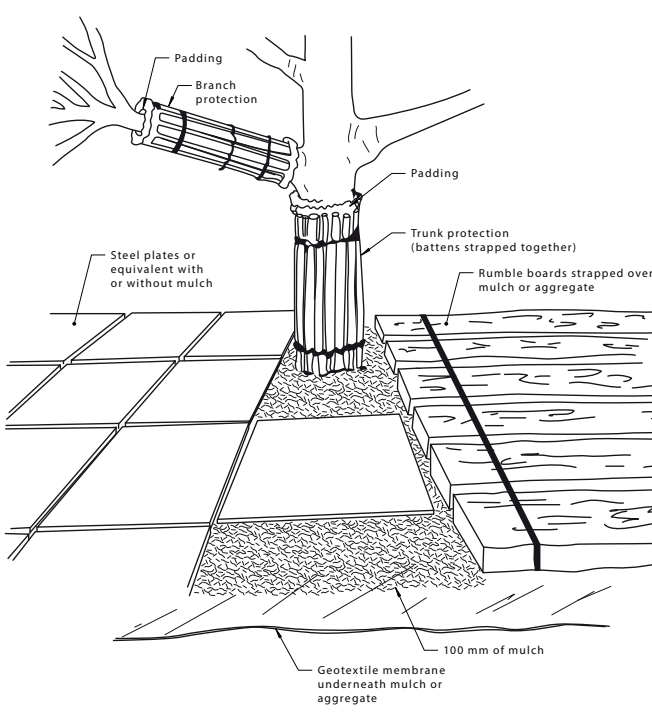
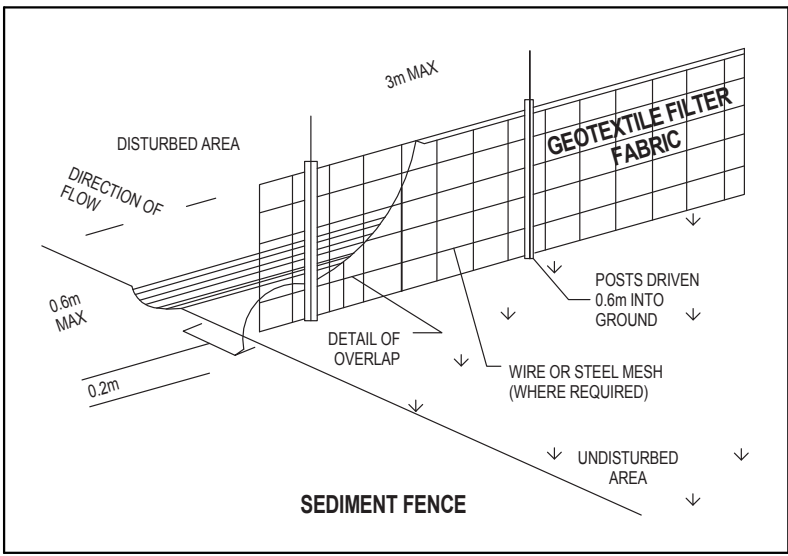
DRAWING NO.
DA03

DATE
Wednesday, 5 April 2023

DRAWING NAME
SITE ANALYSIS

SCALE
1:200 @A2





TREE PROTECTION

NOTES REGARDING BOUNDARY

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.

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 METAL AND 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

SEDIMENT NOTE :

1. ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSPECTED AND MAINTAINED DAILY BY THE SITE MANAGER.
2. MINIMISE DISTURBED AREAS, REMOVE EXCESS SOIL FROM EXCAVATED AREA AS SOON AS POSSIBLE.
3. ALL MATERIAL STOCKPILE TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATHS, OR WITHIN SEDIMENT FENCE AREA.
4. DRAINAGE TO BE CONNECTED TO STORMWATER AS SOON AS POSSIBLE. IF STORED ON SITE, IT MUST BE FILTERED BEFORE RELEASING INTO STORMWATER SYSTEM OR WATERWAYS.
5. ROADS AND FOOTPATHS TO BE SWEEPED DAILY.

STOCKPILES :

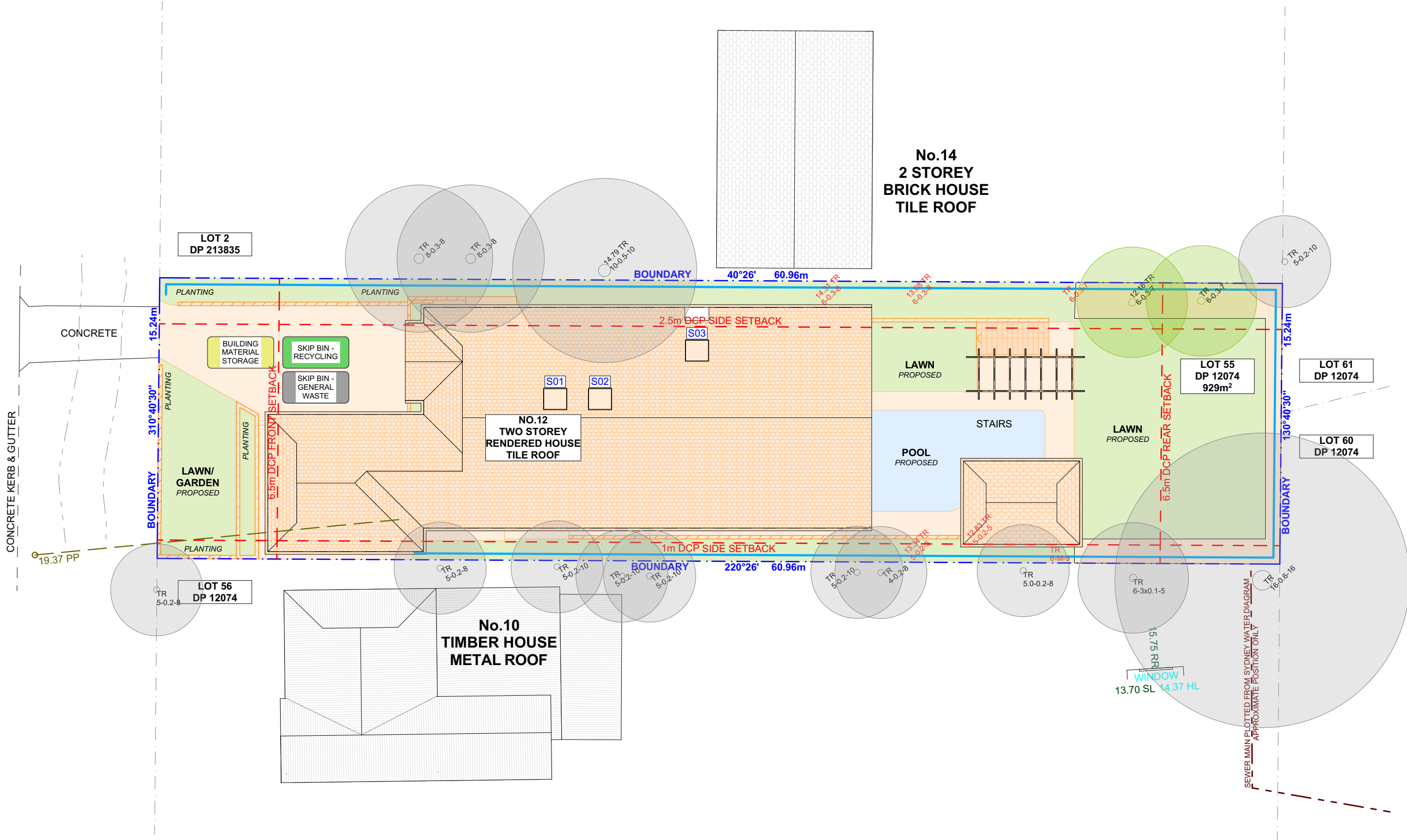
ALL STOCKPILES ARE TO BE KEPT ON-SITE WHERE POSSIBLE. ANY MATERIALS PLACED ON THE FOOTPATHS OR NATURE STRIPS REQUIRE COUNCIL'S PERMISSION. ALL STOCKPILES ARE TO BE PLACED AWAY FROM THE DRAINAGE LINES AND STREET GUTTERS. IT IS BEST TO LOCATE THESE ON THE HIGHEST PART OF THE SITE IF POSSIBLE. PLACE WATERPROOF COVERING OVER STOCKPILES. IF REQUIRED PROVIDE DIVERSION DRAIN & BANK AROUND STOCKPILES.

GUTTER PROTECTION :

PROVIDE PROTECTION TO DOWNHILL GRATE IN GUTTER BY MEANS OF SAND BAGS OR BLUE METAL WRAPPED IN GEOTEXTILE FABRIC. WHEN SOIL OR SAND BUILDS UP AROUND THIS SEDIMENT BARRIER, THE MATERIAL SHOULD BE RELOCATED BACK TO THE SITE FOR DISPOSAL.

NOTE: ALL PROPOSED STORMWATER TO CONNECT WITH EXISTING

KEVIN AVENUE



NOTE: SITE BOUNDARY IS TO BE IDENTIFIED BY A REGISTERED SURVEYOR AND CLEARLY MARKED ON SITE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.



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LEGEND

- EXISTING
- DEMOLISHED
- METAL ROOFING
- TILED ROOFING
- TIMBER STUD
- TILED FLOOR
- TIMBER FLOOR
- BRICKWORK

CLIENT

DAN & MEL MIEGEL

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DRAWING NO.

DA04

DATE

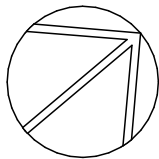
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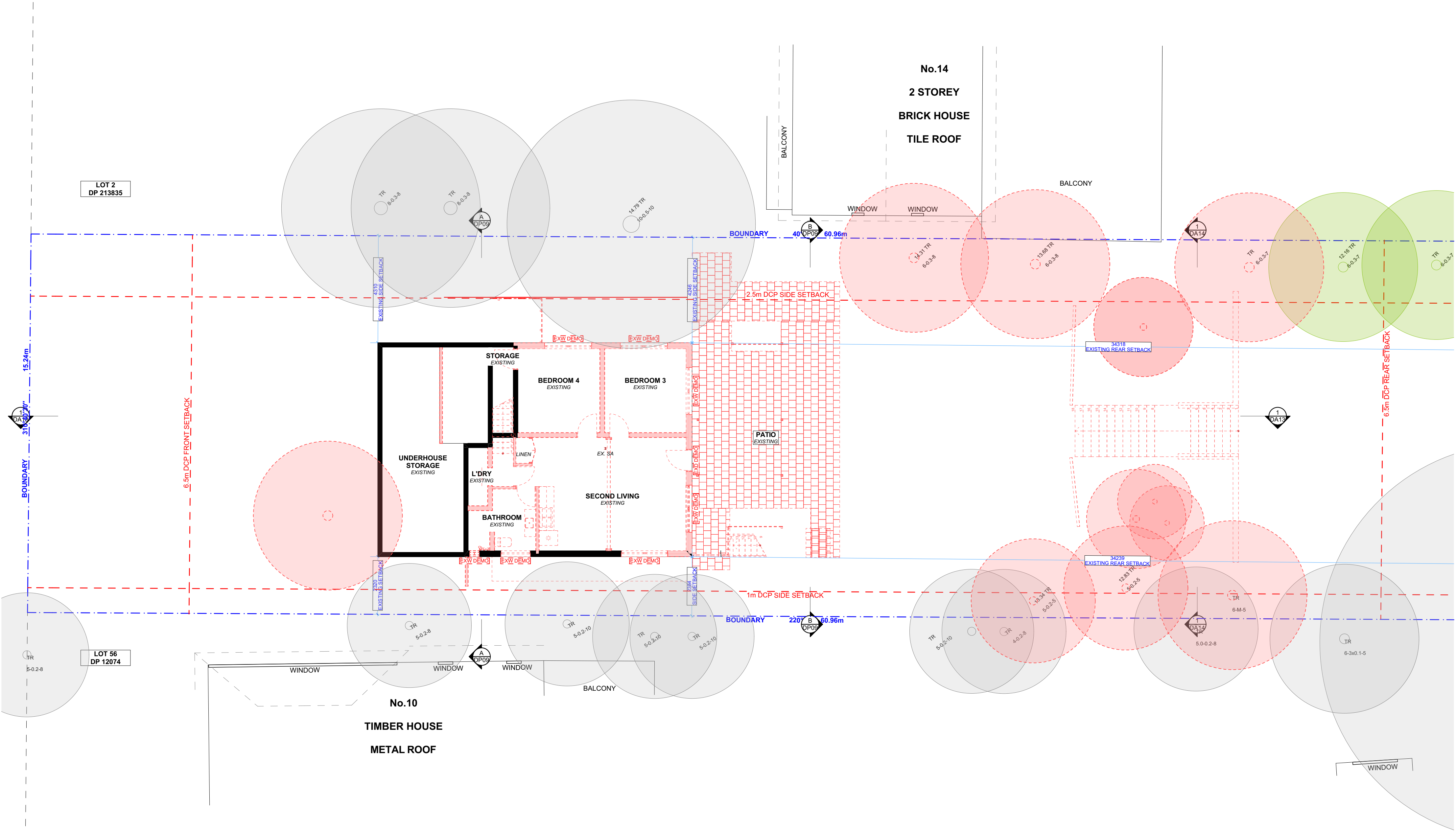
DRAWING NAME

SITE / ROOF / SEDIMENT EROSION /
WASTE MANAGEMENT /
STORMWATER CONCEPT PLAN

SCALE

1:200 @A2





1 EXISTING LOWER GROUND FLOOR PLAN - DEMOLITION 1:100

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



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LEGEND

| | | | |
|--|---------------|--|--------------|
| | EXISTING | | TILED FLOOR |
| | DEMOLISHED | | TIMBER FLOOR |
| | METAL ROOFING | | BRICKWORK |
| | TILED ROOFING | | |
| | TIMBER STUD | | |

CLIENT
DAN & MEL MIEGEL

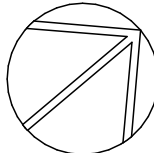
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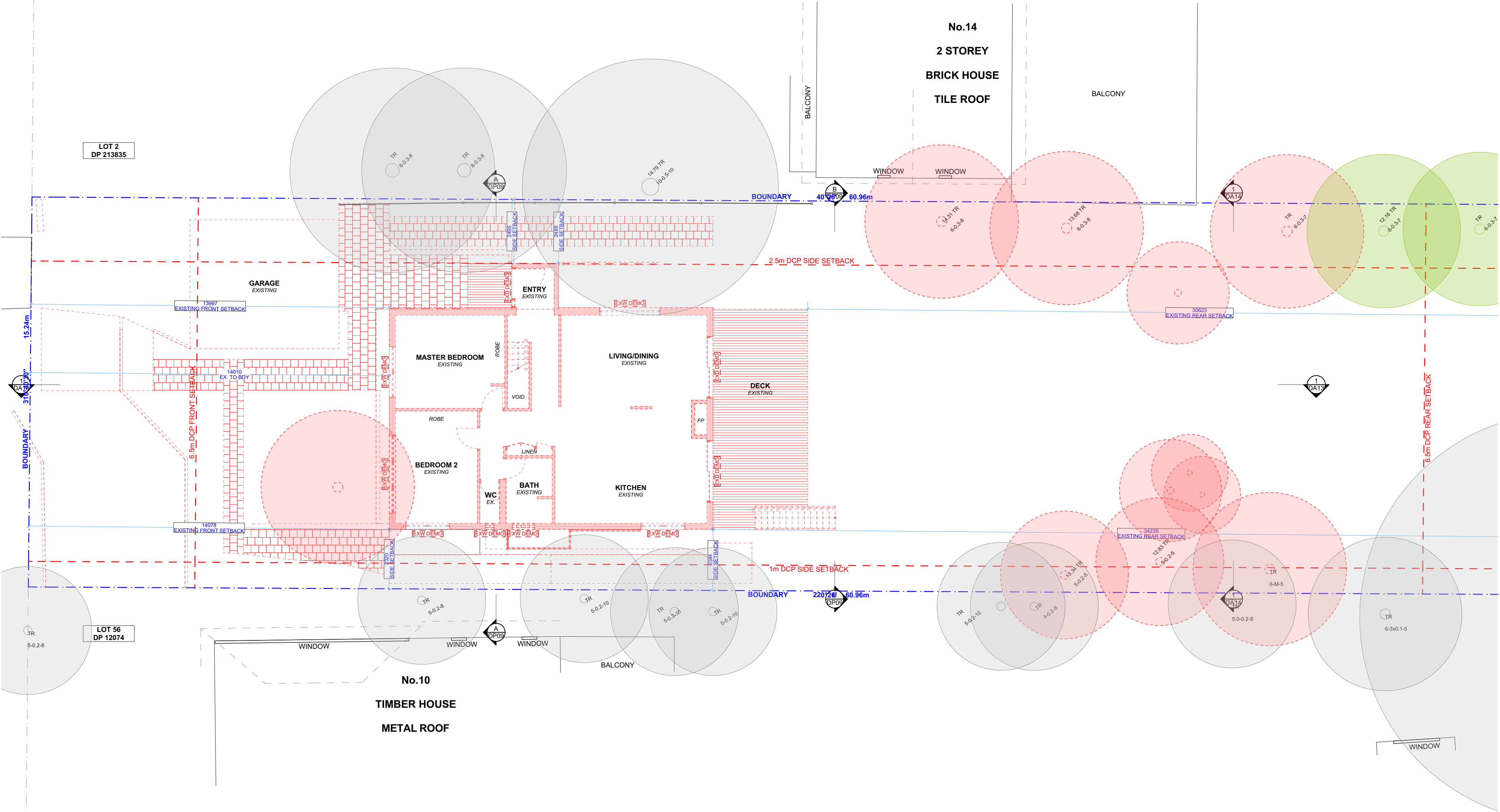
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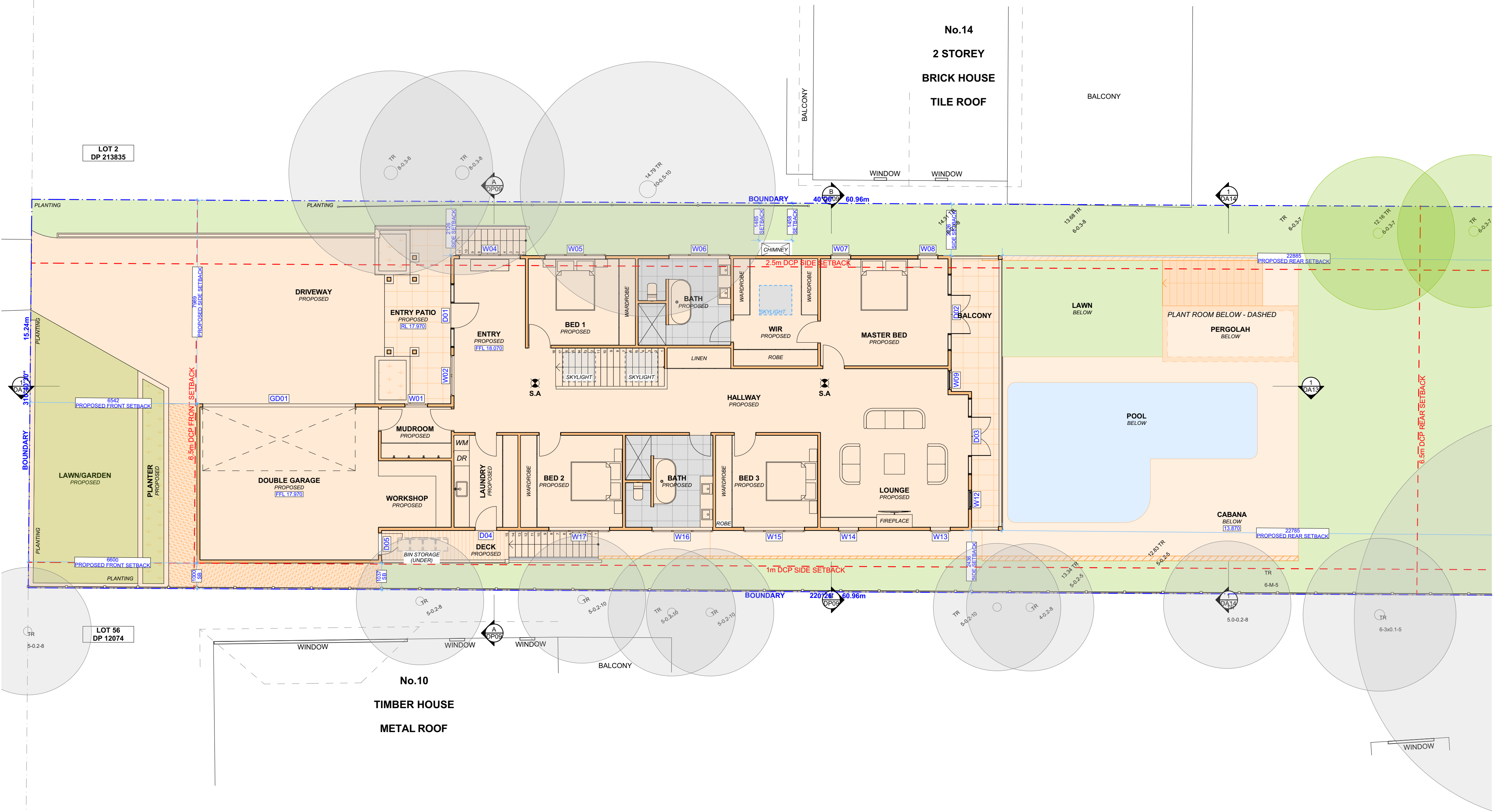
DATE
Wednesday, 5 April 2023

DRAWING NAME
EXISTING LOWER GROUND FLOOR
PLAN - DEMOLITION

SCALE
1:100 @A2







1 PROPOSED GROUND FLOOR PLAN 1:100



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LEGEND

- EXISTING
- DEMOLISHED
- METAL ROOFING
- TILED ROOFING
- TIMBER STUD
- TILED FLOOR
- TIMBER FLOOR
- BRICKWORK

CLIENT
DAN & MEL MIEGEL

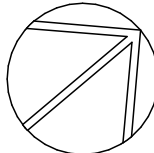
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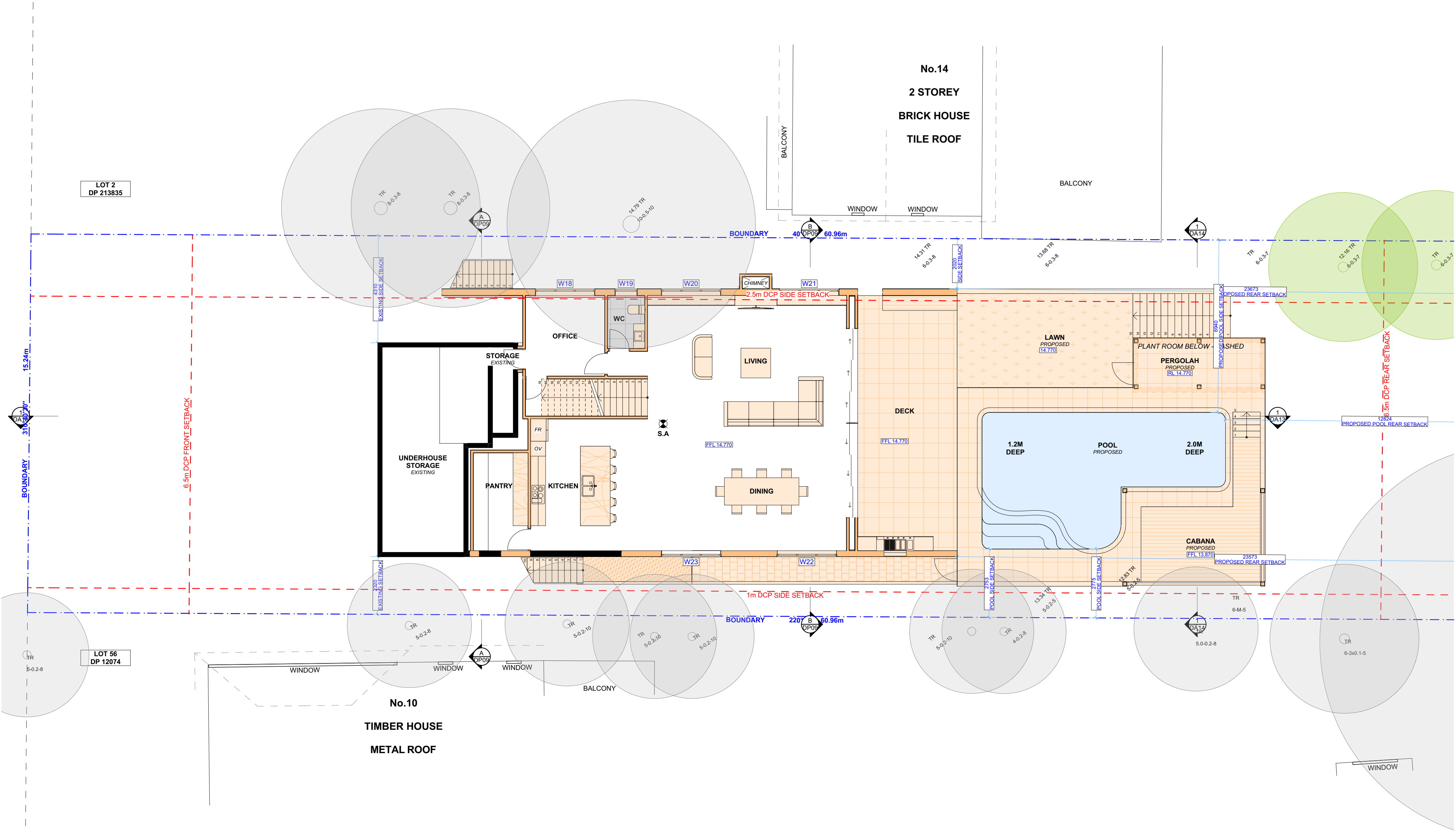
DRAWING NO.
DA07

DATE
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DRAWING NAME
PROPOSED GROUND FLOOR PLAN

SCALE
1:100 @A2





1

PROPOSED LOWER GROUND FLOOR PLAN

1:100



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LEGEND

- EXISTING
- DEMOLISHED
- METAL ROOFING
- TILED ROOFING
- TILED FLOOR
- TIMBER FLOOR
- BRICKWORK
- TIMBER STUD

CLIENT

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DA08

DATE

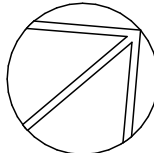
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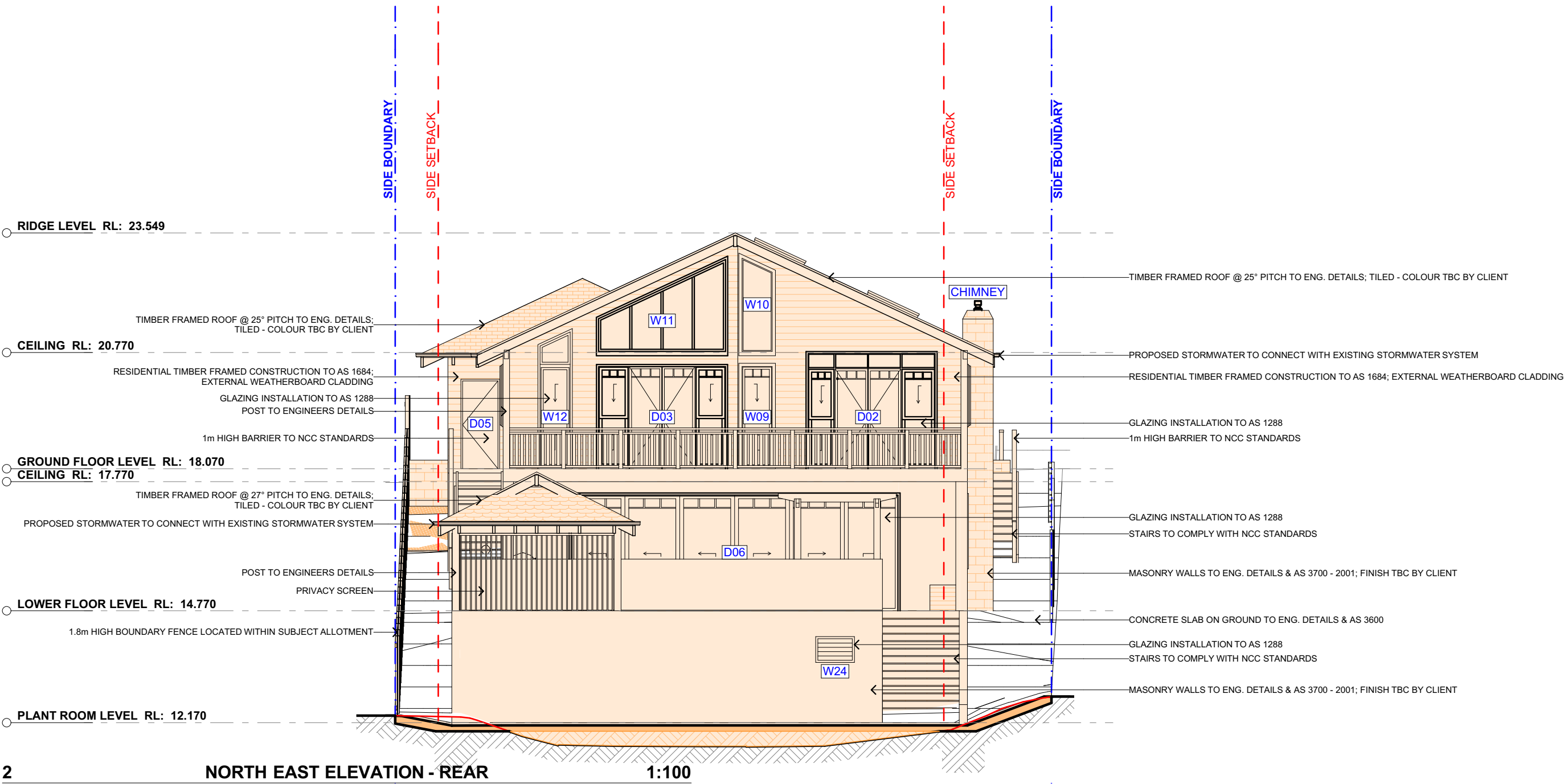
DRAWING NAME

PROPOSED LOWER GROUND FLOOR
PLAN

SCALE

1:100 @A2

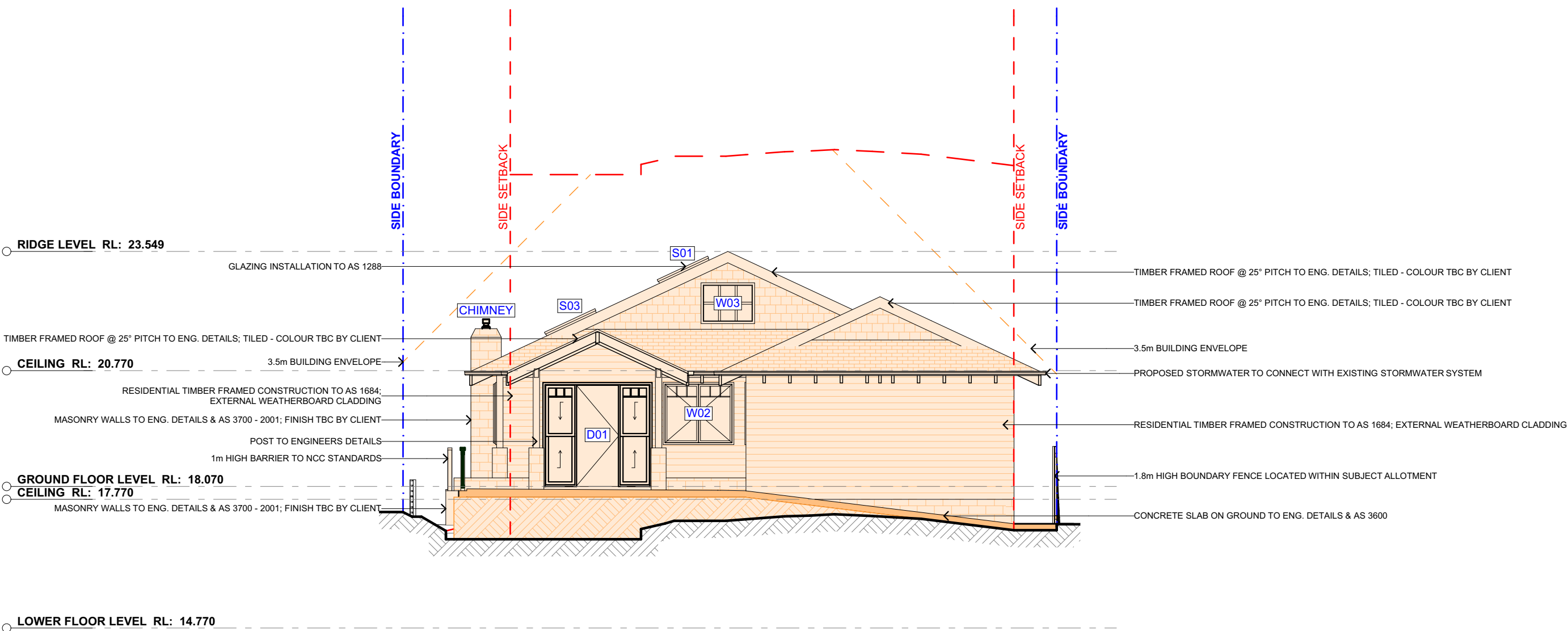




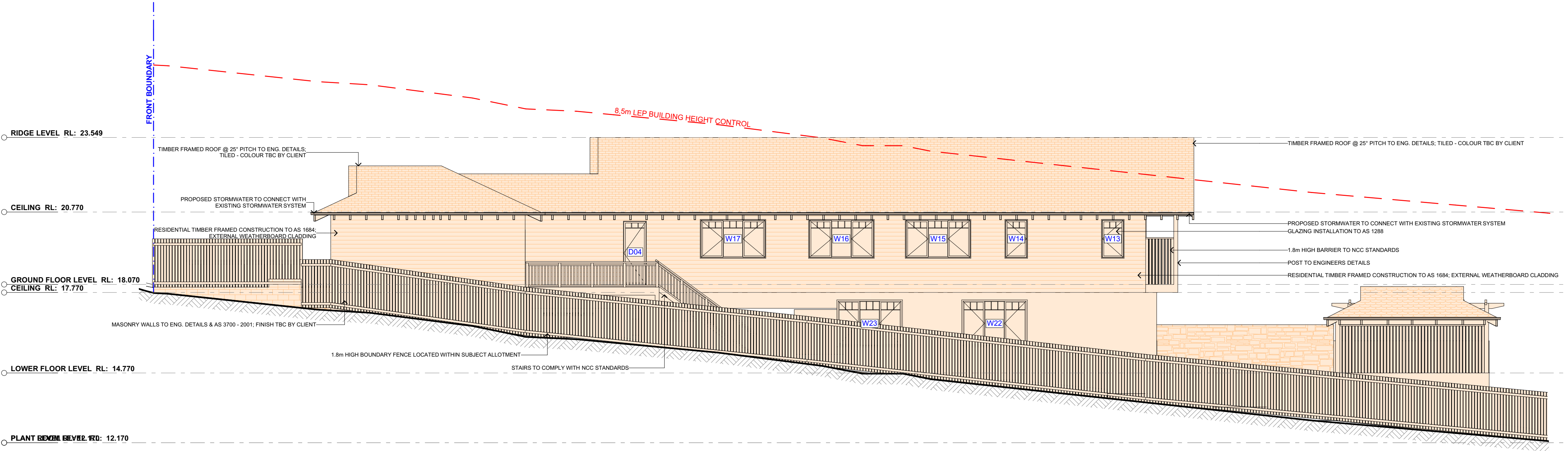
2 NORTH EAST ELEVATION - REAR 1:100




1 NORTH WEST ELEVATION - SIDE 1:100



2 SOUTH WEST ELEVATION - PRIMARY ROAD 1:100




1 SOUTH EAST ELEVATION - SIDE 1:100





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
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| B | 05/04/2023 | DRIVEWAY LONG SECTION | AL | |
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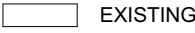
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 TILED ROOFING

 TIMBER CLAD

 BRICKWORK

 CONCRETE

 EXISTING

CLIENT
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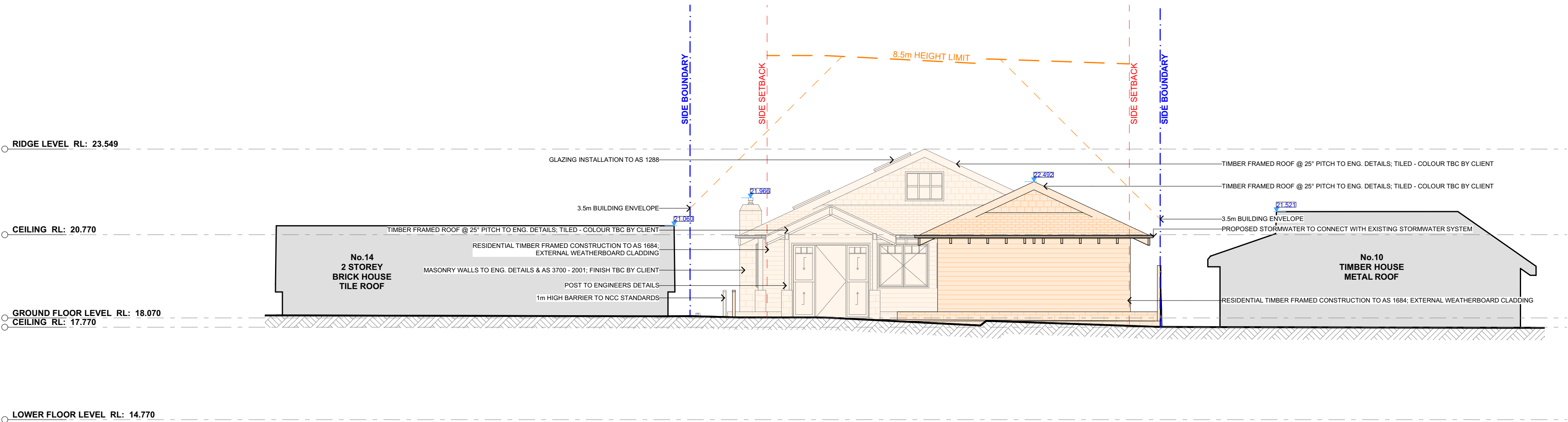
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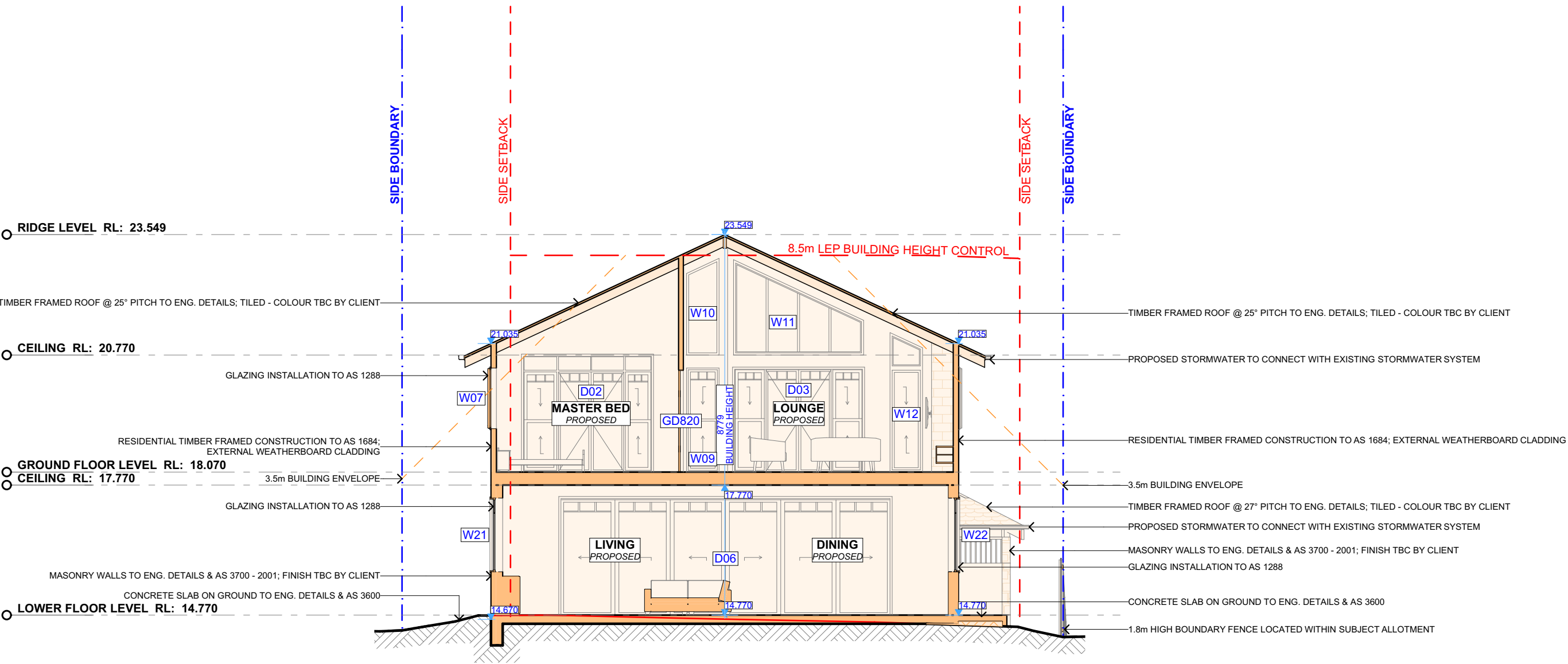
DATE
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DRAWING NAME
SOUTH / WEST ELEVATION

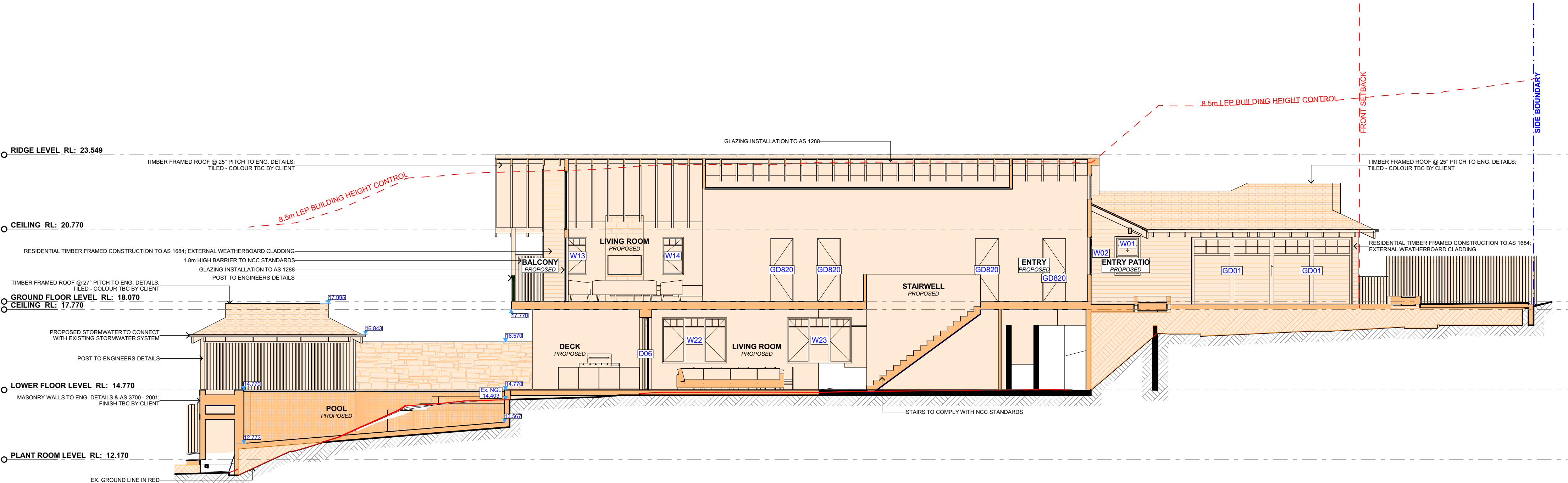
SCALE
1:100 @A2




1 SOUTH WEST ELEVATION - FRONT BOUNDARY 1:100



2 CROSS SECTION BB 1:100



1 PROPOSED LONG SECTION AA 1:100




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| | | | | |

LEGEND

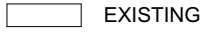
 METAL ROOFING

 TILED ROOFING

 TIMBER CLAD

 BRICKWORK

 CONCRETE

 EXISTING

CLIENT
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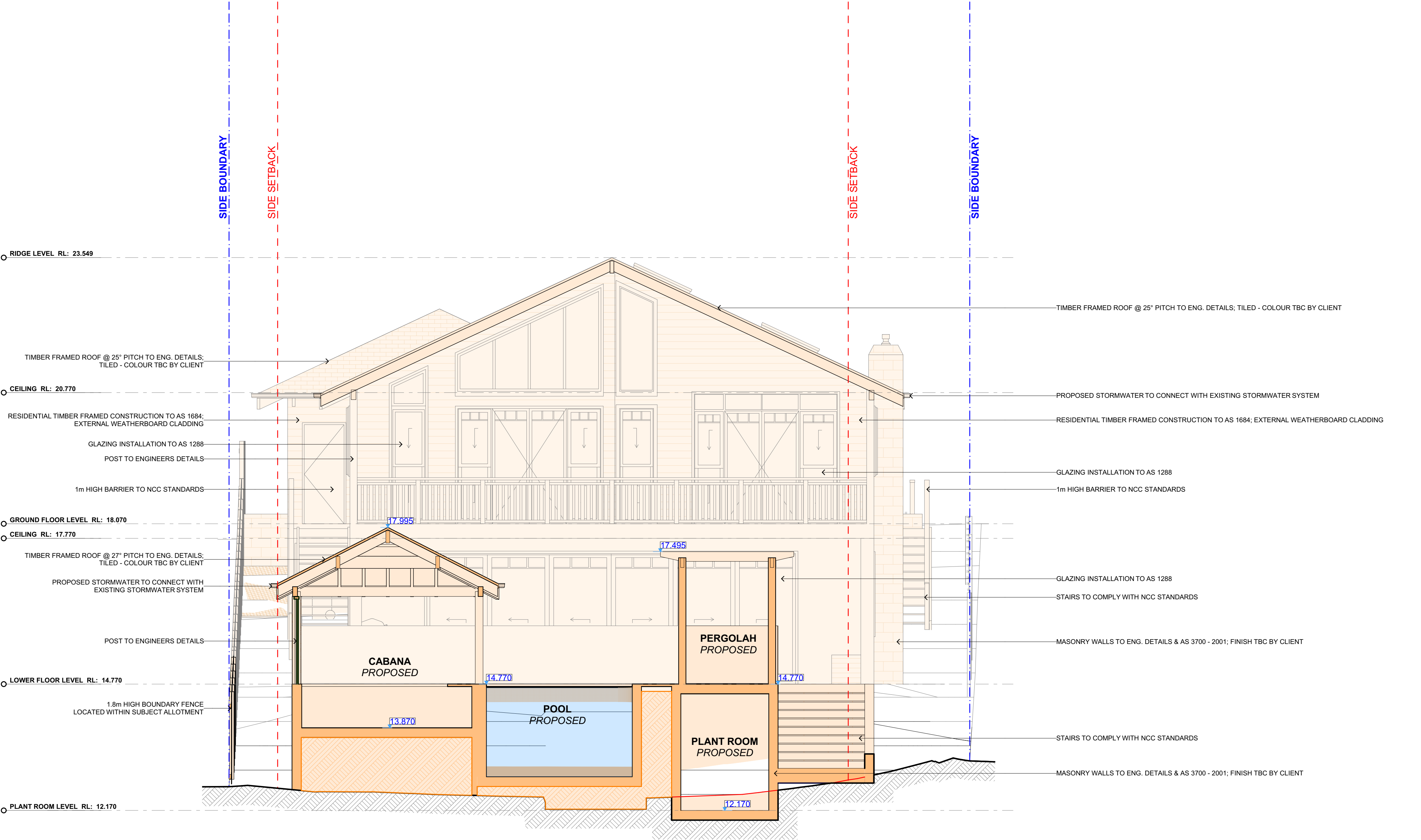
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DRAWING NO.
DA13

DATE
Wednesday, 5 April 2023

DRAWING NAME
LONG / CROSS SECTION

SCALE
1:100 @A2

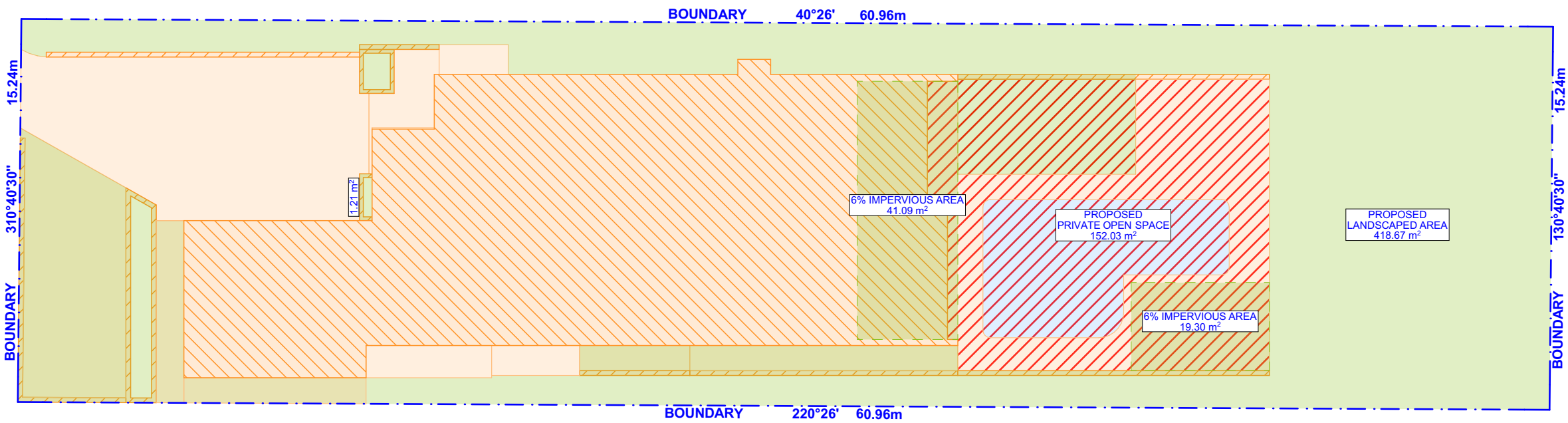


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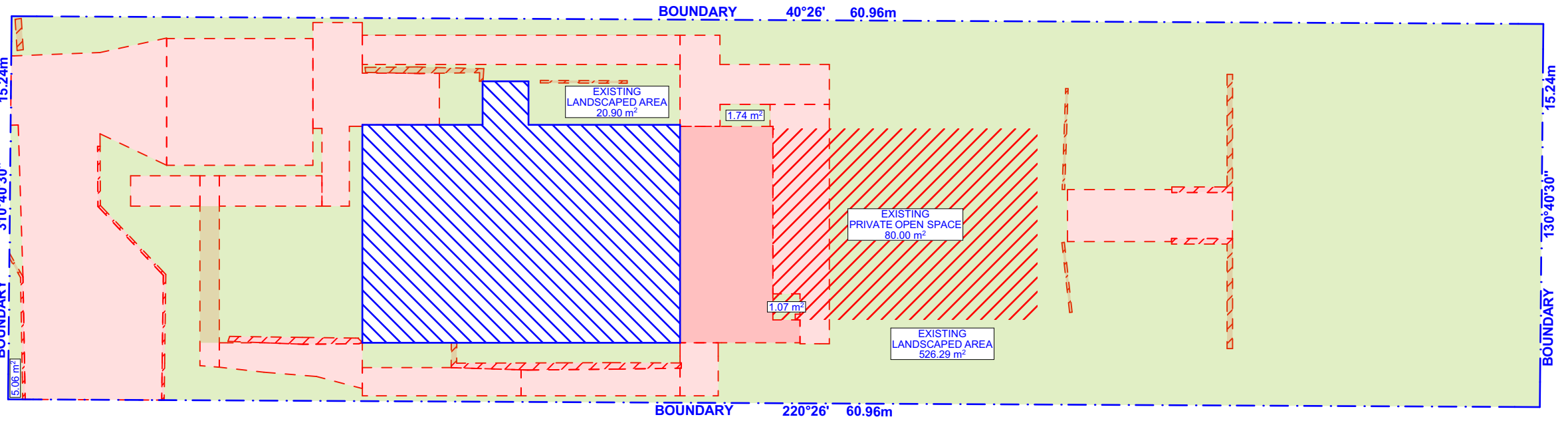
PROPOSED POOL CROSS SECTION

1:50

2 PROPOSED AREA CALCULATION PLAN 1:200



1 EXISTING AREA CALCULATION PLAN 1:200



| CONTROL TABLE | | | |
|--|----------------------------|--------------------------------|-----------------------------|
| SITE AREA 929m ² | | | |
| | REQUIRED | EXISTING | PROPOSED |
| LANDSCAPED AREA | 50% (464.5m ²) | 59.74% (555.06m ²) | 45% (419.88m ²) |
| LANDSCAPED AREA 6% IMPERVIOUS VARIATION | 6% (55.74m ²) | - | 6% (55.74m ²) |
| LANDSCAPED AREA TOTAL | 50% (464.5m ²) | 59.74% (555.06m ²) | 48% (475.62m ²) |
| PRIVATE OPEN SPACE | 80m ² | 80m ² | 152.03m ² |

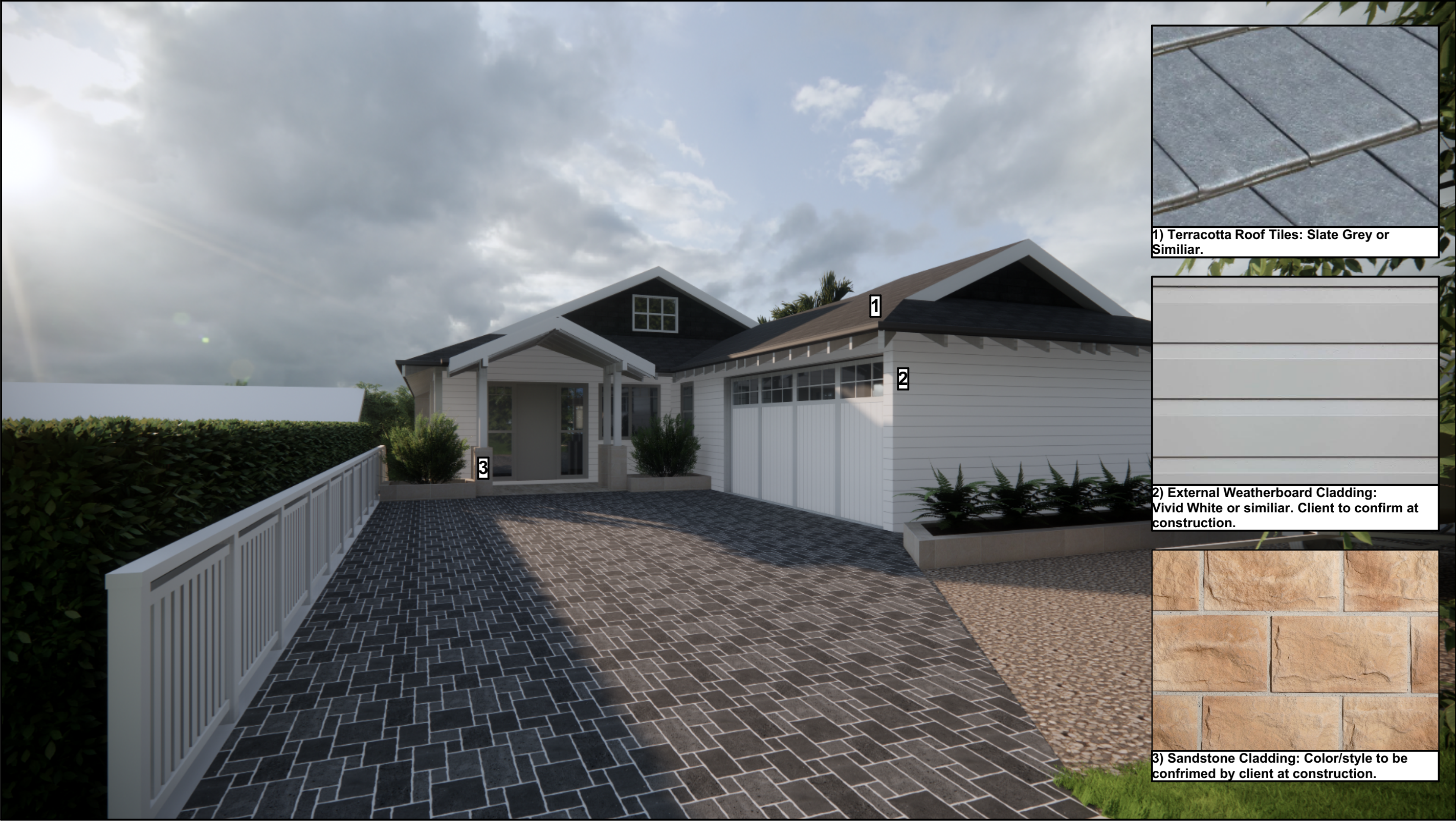
LANDSCAPED AREA

LANDSCAPED AREA (6% IMPERVIOUS VARIATION)

PRIVATE OPEN SPACE

EXISTING FOOTPRINT

PROPOSED FOOTPRINT











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| LEGEND | |
|---|---------------|
|  | EXISTING |
|  | DEMOLISHED |
|  | METAL ROOFING |
|  | TILED ROOFING |
|  | TIMBER STUD |
|  | TILED FLOOR |
|  | TIMBER FLOOR |
|  | BRICKWORK |

CLIENT
DAN & MEL MIEGEL

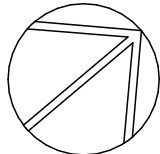
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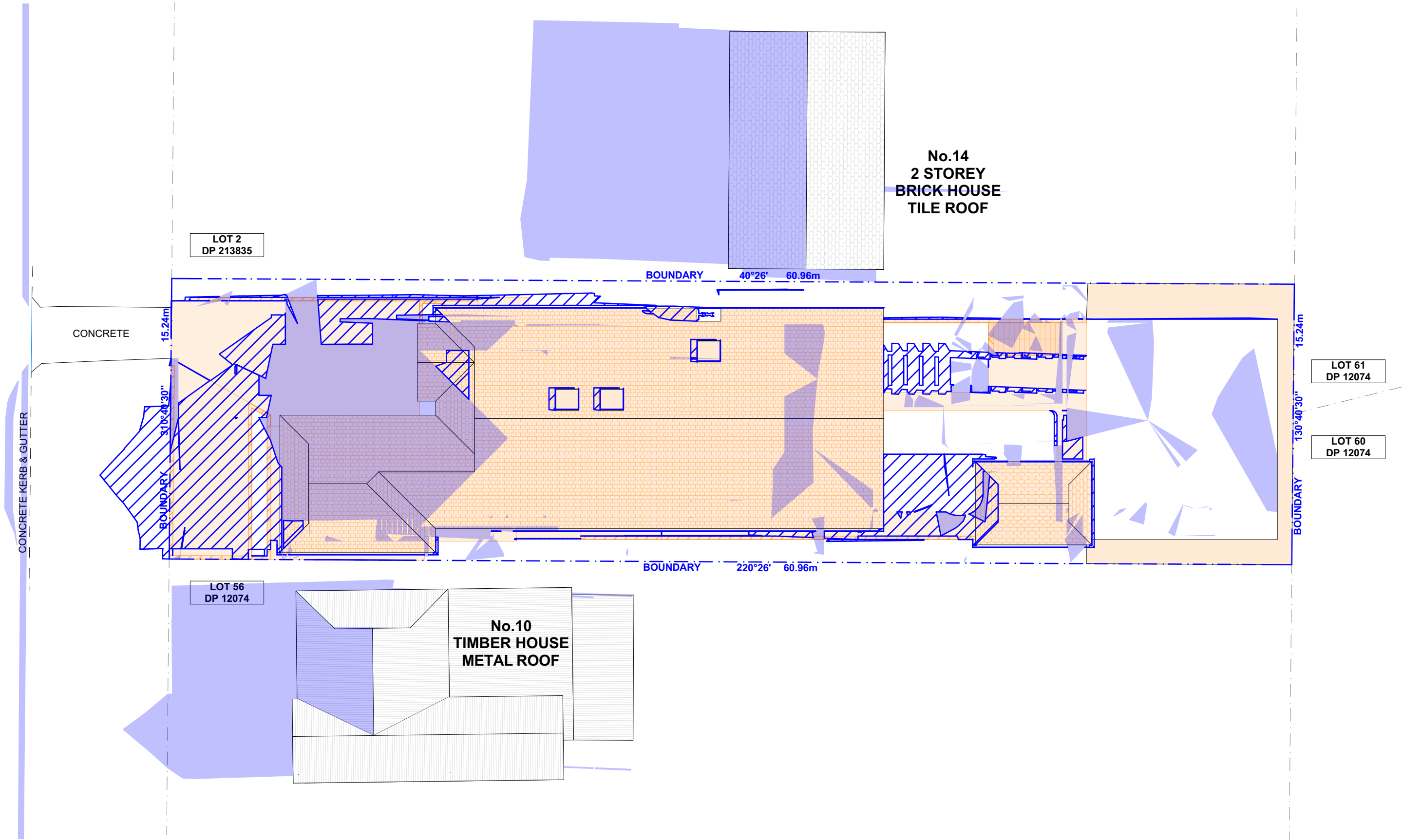
DATE
Wednesday, 5 April
2023

DRAWING NAME
SAMPLE BOARD

SCALE
@A3



KEVIN AVENUE



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| B | 05/04/2023 | DRIVEWAY LONG SECTION | AL | |
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| LEGEND | |
|--------|------------------|
| | EXISTING SHADOWS |
| | PROPOSED SHADOWS |

CLIENT
DAN & MEL MIEGEL

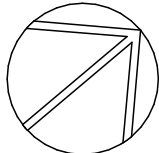
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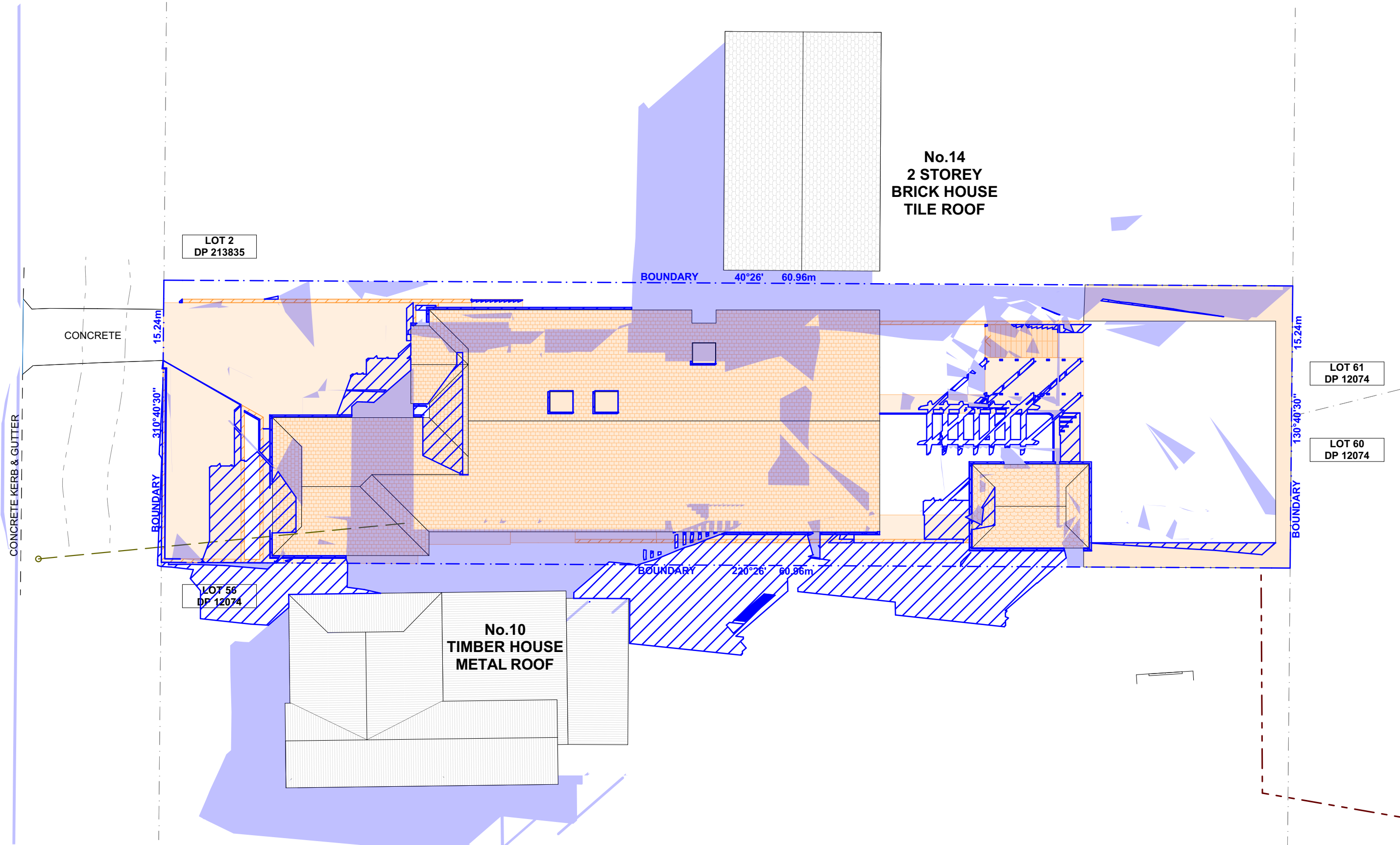
DATE
Wednesday, 5 April
2023

DRAWING NAME
WINTER SOLSTICE 9 AM

SCALE
1:200 @A2



KEVIN AVENUE



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| B | 05/04/2023 | DRIVEWAY LONG SECTION | AL | |
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| | | | | |

LEGEND

- EXISTING SHADOWS
- PROPOSED SHADOWS

CLIENT
DAN & MEL MIEGEL

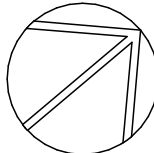
PROJECT ADDRESS
12 KEVIN AVENUE,
AVALON BEACH NSW
2107

DRAWING NO.
DA19

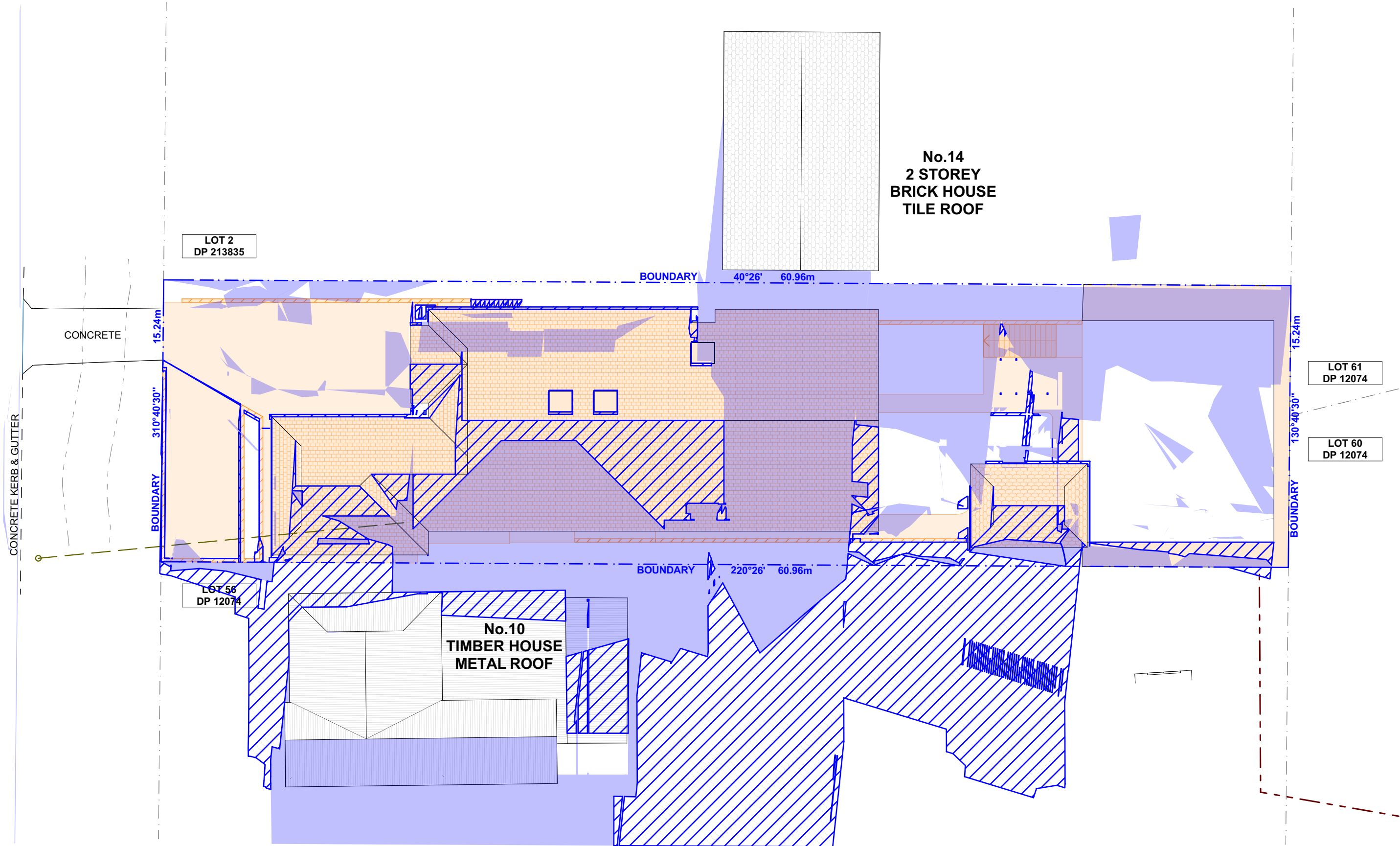
DATE
Wednesday, 5 April
2023

DRAWING NAME
WINTER SOLSTICE 12 PM

SCALE
1:200 @A2



K E V I N A V E N U E



ACTION PLANS

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e:operations@actionplans.com.au
w: www.actionplans.com.au

| REV. | DATE | COMMENTS | DRWN | NOTES |
|------|------------|-----------------------|------|---|
| A | 02/11/2022 | DA ISSUE | DLR | <small>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/owner is to ensure that the approved boundary setbacks and approved levels are confirmed and set out by a registered Surveyor prior to construction, the boundary setbacks take precedence over all other dimensions. The Builder/Contractor shall check and verify ALL 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/client and referred to the designer prior to the commencement of works.</small> |
| B | 05/04/2023 | DRIVEWAY LONG SECTION | AL | |
| | | | | |
| | | | | |

LEGEND

- EXISTING SHADOWS
- PROPOSED SHADOWS

CLIENT
DAN & MEL MIEGEL

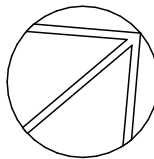
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2107

DRAWING NO.
DA20

DATE
Wednesday, 5 April
2023

DRAWING NAME
WINTER SOLSTICE 3 PM

SCALE
1:200 @A2



Single Dwelling

Certificate number: 1355653S

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

Secretary
Date of issue: Monday, 14 November 2022
To be valid, this certificate must be lodged within 3 months of the date of issue.



| Project address | |
|------------------------------------|-----------------------------------|
| Project name | 12 Kevin Ave Avalon Beach |
| Street address | 12 Kevin Avenue Avalon Beach 2107 |
| Local Government Area | Northern Beaches Council |
| Plan type and plan number | Deposited Plan 12074 |
| Lot no. | 55 |
| Section no. | - |
| Project type | |
| Project type | separate dwelling house |
| No. of bedrooms | 4 |
| Site details | |
| Site area (m²) | 929 |
| Roof area (m²) | 283 |
| Conditioned floor area (m2) | 312.0 |
| Unconditioned floor area (m2) | 63.0 |
| Total area of garden and lawn (m2) | 464 |

Schedule of BASIX commitments

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

| Water Commitments | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|---|------------------|------------------------------|-----------------|
| Fixtures | | | |
| The applicant must install showerheads with a minimum rating of 3 star (> 7.5 but <= 9 L/min) in all showers in the development. | | ✓ | ✓ |
| The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development. | | ✓ | ✓ |
| The applicant must install taps with a minimum rating of 4 star in the kitchen in the development. | | ✓ | |
| The applicant must install basin taps with a minimum rating of 4 star in each bathroom in the development. | | ✓ | |
| Alternative water | | | |
| Rainwater tank | | | |
| The applicant must install a rainwater tank of at least 4500 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities. | ✓ | ✓ | ✓ |
| The applicant must configure the rainwater tank to collect rain runoff from at least 283 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam). | | ✓ | ✓ |
| The applicant must connect the rainwater tank to: <ul style="list-style-type: none">all toilets in the developmentthe cold water tap that supplies each clothes washer in the developmentat least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply.) | | ✓ ✓ ✓ | ✓ ✓ ✓ |
| Swimming pool | | | |
| The swimming pool must not have a volume greater than 40 kilolitres. | ✓ | ✓ | |
| The swimming pool must be outdoors. | ✓ | ✓ | |

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

| Floor and wall construction | Area |
|--------------------------------------|---|
| floor - concrete slab on ground | All or part of floor area square metres |
| floor - suspended floor above garage | All or part of floor area |

| Energy Commitments | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|--|------------------|------------------------------|-----------------|
| Hot water | | | |
| The applicant must install the following hot water system in the development, or a system with a higher energy rating: gas instantaneous with a performance of 6 stars. | ✓ | ✓ | ✓ |
| Cooling system | | | |
| The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: 3-phase airconditioning; Energy rating: EER 3.0 - 3.5 | | ✓ | ✓ |
| The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 3-phase airconditioning; Energy rating: EER 3.0 - 3.5 | | ✓ | ✓ |
| The cooling system must provide for day/night zoning between living areas and bedrooms. | | ✓ | ✓ |
| Heating system | | | |
| The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: 3-phase airconditioning; Energy rating: EER 3.5 - 4.0 | | ✓ | ✓ |
| The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: 3-phase airconditioning; Energy rating: EER 3.5 - 4.0 | | ✓ | ✓ |
| The heating system must provide for day/night zoning between living areas and bedrooms. | | ✓ | ✓ |

| Ventilation | | | |
|--|--|---|---|
| The applicant must install the following exhaust systems in the development: At least 1 Bathroom: individual fan, not ducted; Operation control: manual switch on/off | | | |
| Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off | | ✓ | ✓ |
| Laundry: natural ventilation only, or no laundry; Operation control: n/a | | ✓ | ✓ |

| Artificial lighting | | | |
|---|--|--|--|
| The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent or light emitting diode (LED) lamps: <ul style="list-style-type: none">at least 5 of the bedrooms / study; | | | |

| Energy Commitments | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|--|------------------|------------------------------|-----------------|
| at least 3 of the living / dining rooms; | | | |
| the kitchen; | | ✓ | ✓ |
| all bathrooms/toilets; | | ✓ | ✓ |
| the laundry; | | ✓ | ✓ |
| all hallways; | | ✓ | ✓ |

| Natural lighting | | | |
|---|--|---|---|
| The applicant must install a window and/or skylight in 3 bathroom(s)/toilet(s) in the development for natural lighting. | | ✓ | ✓ |

| Swimming pool | | | |
|---|--|---|--|
| The development must not incorporate any heating system for the swimming pool. | | ✓ | |
| The applicant must install a timer for the swimming pool pump in the development. | | ✓ | |

| Alternative energy | | | |
|--|--|---|---|
| The applicant must install a photovoltaic system with the capacity to generate at least 1.5 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system. | | ✓ | ✓ |
| Other | | | |
| The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling. | | ✓ | |
| The applicant must install a fixed outdoor clothes drying line as part of the development. | | ✓ | |

BASIX & THERMAL COMMITMENTS



Date 14 November 2022 - 4:19pm

| Lot Number | House Number | Street | Suburb | Post Code | State |
|------------|--------------|-----------|--------------|-----------|-------|
| 55 | 12 | Kevin Ave | Avalon Beach | 2107 | NSW |

FLOORS

| | |
|----------------|-----------|
| Ground | 1st Floor |
| Slab on ground | Timber |

WALLS

| | |
|--------------------------------|---|
| Ground | 1st Floor |
| Brick Veneer | Fibre Cement Cladding |
| Insulation External Walls R2.5 | Internal Walls to be Insulated Garage internal walls, Bathroom, Laundry, WC, storage |
| | Insulation Internal Walls R2.0 |

External Colours
Light

CEILINGNS

| | |
|-----------------------------------|---|
| Ceilings with cavity to roof R4.0 | Ceiling between Ground and 1st Floor R2.0 |
|-----------------------------------|---|

Areas requiring insulation between levels
Cantilevered floors to outside air

ROOF AREA

| | | |
|-----------------|-------------------|-----------------------|
| Colours Dark | Material Tiles | Insulation Sarking |
|-----------------|-------------------|-----------------------|

WINDOWS (Refer to NatHERS Certificate for more detail)

Additional Notes
Timber Frame, Low-e excluding Wet areas as per NatHERS Certificate as per U and SHGC values.

Upgraded windows, refer to NatHERS Certificate

WATER

| | | | |
|---|--|--------------------------------|----------------------------------|
| Landscape Area 464m² | Rainwater Tank Garden, WC, Laundry | Rainwater Tank Size 4,500 L | Roof Area to Tank 80% of Roof |
| Showerheads 3 Star > 7.5 but less < or = 9.0 litres per minute | Toilets 4 Star | Basin Taps 4 Star | Kitchen Taps 4 Star |
| Swimming Pool Yes | Swimming Pool Inclusions No Heating | Swimming Pool Capacity 40 | |

ENERGY

| | | |
|---------------------------------------|-----------------------------|--|
| Hot Water Gas Instantaneous 6 Star | Air Conditioning 3 Phase | Air Conditioner EER Cooling 3.0 - 3.5 - Heating 3.5 - 4.0 |
|---------------------------------------|-----------------------------|--|

VENTILATION

| | | |
|-------------------|--------------------|-------------------|
| Laundry Ducted | Bathroom Ducted | Kitchen Ducted |
|-------------------|--------------------|-------------------|

OTHER

| | | |
|----------------------------------|----------------------------|---|
| Solar Photovoltaic System Yes | Size (kw) 1.5kw | Cooking Gas Cooktop/Electric Oven |
| Living Room Ceiling Fans No | Bedroom Ceiling Fans No | Other Outdoor Clothes Line, Air Conditioning Zoned |

ADDITIONAL NOTES

The project has been assessed under the simulation method of the BASIX Protocol. Downlights fitted after the assessment must be IC Rated and non-ventilated. All new residential buildings must be constructed in accordance with Building BCA Part 3. 12. 1, Build Sealing BCA Part 3. 12. 3. Insulation must be installed in accordance with AS3995.

Frys Building Consultancy Pty Ltd Trading as Frys Energywise are Accredited Thermal Energy Assessors ABSA 20856, BDAV 12/1441, COLA 2011291



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m: 0426 957 518
e:operations@actionplans.com.au
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| REV. | DATE | COMMENTS | DRWN |
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| A | 02/11/2022 | DA ISSUE | DLR |
| B | 05/04/2023 | DRIVEWAY LONG SECTION | AL |
| | | | |
| | | | |

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The Builder/Contractor shall check and verify ALL 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/client 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, Q5 meet the ecified U value and SHGC value.

CLIENT

DAN & MEL MIEGEL

DRAWING NO.

DA21

DRAWING NAME

NATHERS / BASIX
COMMITMENTS

PROJECT ADDRESS

12 KEVIN AVENUE,
AVALON BEACH NSW
2107

DATE

Wednesday, 5 April
2023