



Statement of Environmental Effects

Client: Tom Williams Site Address: 47 Buchanan Street Kandos, NSW 2848

10 May 2023

Our Reference: 41091-PR01_A

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DISCLAIMER

This report has been prepared solely for Tom Williams (the client) in accordance with the scope provided by the client and for the purpose(s) as outlined throughout this report.

Barnson Pty Ltd accepts no liability or responsibility for or in respect of any use or reliance upon this report and its supporting material by anyone other than the client.

Report Title:	Statement of Enviro	Statement of Environmental Effects		
Project Name:	Dwelling and Associated Shed Development Application			
Project Location:	47 Buchanan Street	, Kandos 2848		
Client:	Tom Williams			
Project Number:	41091			
Report Reference:	41091-PR01_A			
Date:	9/05/2023			
Prepared by:		Reviewed by:		
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B. Human Geog UOW Plan U/G Town Planner	, U/G Urb. Reg.	B. Arts, Grad. Dip. Urb. Reg. Plan, Dip. EH&B Surveying, MAIBS MEHA RPIA Director		

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1.0 INTRODUCTION

1.1 Background

Barnson Pty Ltd has been engaged by Tom Williams to prepare information in support of a Development Application (DA) for the demolition of an existing dwelling, and the construction of a single storey dwelling and associated shed at Lot 13 Section 6 DP 8161, commonly known as 47 Buchanan Street, Kandos, NSW, 2848.

The subject site is located on the northern side of Buchanan Street and has an approximate area of 1,012m². The site currently consists of an existing dwelling and associated structures. It is bounded by residential land uses.

The site is Zoned RU5: Village under the *Mid-Western Regional Local Environmental Plan 2012*. The proposed development is defined as a dwelling and associated shed, which is permitted with consent in the RU5 Zone.

This application consists of:

One (1) PDF of this written statement, including plans.

1.2 Proponent

The proponent for the DA is Tom Williams.

1.3 Consultant

Barnson Pty Ltd
Jim Sarantzouklis
Riverview Business Park
Unit 1, 36 Darling Street
Dubbo NSW 2830

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2.0 EXISTING ENVIROMENT

2.1 Location and Title

The subject site of this application is Lot 13 Section 6 DP 8161, known as 47 Buchanan Street, Kandos. The site is located on the northern side of Buchanan Street and is approximately 60m from the Buchanan/McDonald Street intersection. Please refer to Figure 1 below.



Source: (NSW Government Spatial Services, 2021)

Figure 1 – Site Location

The site has an overall area of 1,012m² (Please refer to Survey in Appendix A). The site consists of an existing dwelling and associated structures and has direct frontage to Buchanan Street. One (1) existing layback is provided. The site is approximately 300m east of the Kandos CBD.

Please refer to Figure 2 and Plates 1-3 for photos of the site and the locality.

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Source: (NSW Government Spatial Services, 2021)

Figure 2 – Site Aerial



Plate 1 – View of the existing dwelling to be demolished.

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Plate 2 – View of the rear of the site.



Plate 3 – View of the existing layback to Buchanan Street.



2.2 Land Use

The subject site currently contains an existing dwelling and ancillary structures. There is managed gardens and grass, which is not uncommon for a residential setting. The site is surrounded by single storey dwellings and located near the CBD of the Kandos Township.

2.3 Topography

The subject site is slightly sloping.

2.4 Flora and Fauna

The subject site consists of some grasslands, however there are no significant trees or other vegetation in the rear of the site.

Given the lack of significant vegetation and neighbouring land uses, it is unlikely the vegetation on site would provide suitable habitat for protected, vulnerable, or endangered native species.

2.5 Natural Hazards

The subject site is not considered bushfire prone land or within a Flood Planning Area pursuant to the *Mid-Western Regional Local Environmental Plan 2012* (the LEP) and the ePlanning Spatial Viewer.

2.6 Visual Amenity

The character of the Buchanan Street and surrounding locality is defined by single storey dwellings/residential land uses.

2.7 Services

Services including electricity, water, sewer, and telecommunications infrastructure are available to the site.

2.8 Access and Traffic

Access will be gained via Buchanan Street, which bitumen sealed improved with Kerb and gutter.

2.9 Heritage

The subject site has not been listed as containing a heritage item under Schedule 5 of the Mid-Western Regional Local Environmental Plan 2012 (the LEP).

Following an online search on the Aboriginal Heritage Information Management System (AHIMS), it was concluded that there are no Aboriginal items nor places known within a 50m radius of the subject site.

Please refer to Appendix B for the AHIMS Report.

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3.0 PROPOSED DEVELOPMENT

The proposed development is for the demolition of an existing dwelling and associated structures, and the construction of a single storey dwelling, and associated shed on Lot 13 Section 6 DP 8161, commonly known as 47 Buchanan Street, Kandos NSW.

The proposed works shall consist of:

Demolition:

- The safe removal of an existing fibro dwelling;
- An existing car port and water tank structure;
- An existing shed;

Dwelling:

- Construction of a single storey dwelling consisting of two (2) bedrooms, ensuite, kitchen/living area, bathroom/laundry, clerestory deck, and single car carport;
- Roofing: BONDOR EPS-FR VJ panels;
- External Cladding: BGC Duragroove wall panelling (natural woodgrain);
- Polished concrete floors (living/kitchen);
- Tiled floors (bathroom and ensuite);
- Carpet (Bedrooms);

Shed:

- Proposed 11m x 9m shed;
- A retaining wall connected to the northern end of the shed (1.8 x 0.6 x 0.6 Solid concrete masonry);
- Toilet and basin;
- Two (2) roller doors $-2.4m(h) \times 3.0m(w)$;
- Two (2) PA doors;
- 14,000l rainwater tank;

Other:

- Rainwater tank overflow discharges to infiltration trench (proposed 2m x 1m);
- Stormwater to be charged to rainwater tank;
- Proposed vehicular crossing proposed to gain access to a new single car garage;
- Existing crossover to be retained to gain access to the rear via permeable paving;
- Existing low water use tree to be pruned down to cover 50m²;
- Permeable turning and manoeuvrable areas (Turfcell); and
- Erosion and sediment control measures are to be implemented during construction to ensure that all sediment is constrained.

Refer to Development Plans in Appendix C, and Civil Plans in Appendix D of this report.

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4.0 LAND ZONING

The subject site is zoned RU5: Village pursuant to the provisions under the *Mid-Western Regional Local Environmental Plan 2012* (the LEP). The proposed development is for a 'dwelling house' which is permissible with consent in the RU5 Zone.

The LEP definition is provided below:

"...means a building containing only one dwelling.

Note – Dwelling houses are a type of Residential Accommodation – see the definition of that term in this dictionary".

The permissibility of the proposed development is assessed in terms of the heads of consideration in Section 4.15 of the Environmental Planning and Assessment Act 1979, which incorporates consideration of the LEP, and the objectives and permissible uses outlined in the RU5 Zone, as outlined in Section 5 of this report.

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5.0 PLANNING CONSIDERATION

5.1 Environmental Planning & Assessment Act 1979

5.1.1 Evaluation

Section 4.15 of the EP&A Act (as amended) requires the Council to consider various matters in regard to the determination of the Development Application.

In determining a development application, a consent authority is to take into consideration such of the following matters as are of relevance to the development the subject of the development application:

- a) The provisions of:
 - any environmental planning instrument, and
 - any proposed instrument that is or has been the subject of public consultation under this Act and that has been notified to the consent authority (unless the Secretary has notified the consent authority that the making of the proposed instrument has been deferred indefinitely or has not been approved), and
 - iii. any development control plan, and
 - any planning agreement that has been entered into under section 7.4, or any draft planning agreement that a developer has offered to enter into under section 7.4, and
 - the regulations (to the extent that they prescribe matters for the purposes of this paragraph), and
 - any coastal zone management plan (within the meaning of the Coastal Protection vi. Act 1979), that apply to the land to which the development application relates,
- b) The likely impacts of that development, including environmental impacts on both the natural and built environments, and social and economic impacts in the locality;
- c) The suitability of the site for the development,
- d) Any submissions made in accordance with this act or the regulations,
- e) The public interest.

The proposed development has been designed with consideration to the following matters, as outlined below.

5.2 **Environmental Planning Instruments**

State Environmental Planning Policies (SEPP)

While a number of SEPPs apply to the subject land and development thereon, there is unlikely to be any significant implications in terms of the requirements of the SEPPs on the proposed development. The following SEPPs are considered:

State Environmental Planning Policy - Building Sustainability 5.2.1.2 Index: BASIX 2004

The proposed development comprises BASIX affected development. BASIX certificates have been prepared and the relevant energy and water saving commitments shown on the DA Plans. Refer to BASIX Details in Appendix E.

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5.3 SEPP (Resilience and Hazards) 2021

Clause 4.6(1) of SEPP (Resilience and Hazards) 2021 requires Council to consider the following before granting consent to a DA:

- (a) It has considered whether the land is contaminated, and
- (b) If the land is contaminated, it is satisfied that the land is suitable in its contaminated state (or will be suitable, after remediation) for the purpose for which the development is proposed to be carried out, and
- (c) If the land requires remediation to be made suitable for the purpose for which the development is proposed to be carried out, it is satisfied that the land will be remediated before the land is sued for that purpose.

Comment: The subject site does not appear to have been subject to any of the materials listed in Appendix A of the Managing Land Contamination: Planning Guidelines SEPP 55 – Remediation of Land (NSW Department of Urban Affairs and Planning and Environment Protection Authority, 1998). A large portion of the site is vacant with only minimal vegetation and structures present. There does not appear to have been any contaminating uses carried out on site and is considered that a Preliminary Site Investigation (PSI) is not required at this given time. The proposed demolition works are understood to include asbestos containing material, as such, all demolition is required to adhere to Council's required guidelines and all work must cease if Council are not satisfied the required remediation has been undertaken correctly.

5.4 Mid-Western Regional Local Environmental Plan 2012

5.4.1 Land Use Table

The subject site is zoned RU5 Village pursuant to the *Mid-Western Regional Local Environmental Plan 2012* (the LEP). The objectives of the RU5 Zone are as follows:

- To provide for a range of land uses, services and facilities that are associated with a rural village.
- To promote development that is sustainable in terms of the capacity of infrastructure within villages.

Comment: The proposal constitutes a single storey residential dwelling and associated shed which is permissible with consent in the RU5 Zone. The development is providing an upgraded living option in a growing residential area of the Kandos Township. In this manner, the development can be considered consistent with the objectives of the RU5 Zone.

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5.4 Draft Environmental Planning Instruments

No draft Environmental Planning Instruments are applicable to the subject site or development.

5.5 Development Control Plans

The Mid-Western Regional Council Development Control Plan 2013 (DCP) applies to the subject application. Relevant provisions of the DCP have been addressed in Table 1 below.



	Table 1: Development Control Plan Requiren	nents	
Provision	Requirements	Comment	
Section 3.1 Reside	ntial Development in Urban Areas (Single Dwellings and Dual-Occupancies)		
Building Setbacks	 (a) Setbacks must be compatible with the existing and/or future desired streetscape. (b) Side or rear building setbacks are to demonstrate no unreasonable adverse impact on the privacy or solar access of adjoining properties. (c) Garages are to be setback a minimum of 5.5 metres from the front boundary. (d) Side and rear walls within 900mm and eaves within 450mm of boundaries are to comply with the BCA requirements for fire rating 	The proposed development looks to demolish an existing dwelling and provide a replacement dwelling and shed in the rear. The proposed dwelling is to utilise a similar front setback as the existing dwelling. The approximate setback is measured at 4.62m from the Buchanan Street boundary. Further, the front setback is in context with the Buchanan Street locality and does not negatively impact on neighbouring properties. Similarly, the proposed car port is adjacent the dwelling and is 4.62m from the front boundary, however, is not out of context for the site and its surrounds. It allows for a vehicle to safely enter and exit the site while being fully contained in the site's boundaries. Both the side and rear setbacks are considered	
Building Height	Deemed to Satisfy: Single storey building with an FFL of less than 1 metre above Natural Ground Level.	The proposed development is proposed to be a single storey dwelling that will have an FFL less than 1 metre above the natural ground level.	
Site Coverage	Deemed to Satisfy: Development is not to exceed 35% site coverage	The proposed dwelling has an approximate floor area of 121m², and the shed has an approximate floor area of 99m2. The approximate area of the	



		subject is 1,012m² (according to the Survey in Appendix A). The following is considered: - Dwelling: 121/1,012 x 100 = 11.956% - Shed: 99/1,012 x 100 = 9.782% Thus, the development has a site coverage of approximately 21.738%, well below the required maximum site coverage.
Solar Access	Deemed to Satisfy: Living areas and private open space areas to be located with a northerly aspect (i.e., on the north or eastern side of the building)	The floor plan of the development depicts that the dining/living area, kitchen, and deck are to have a northerly aspect.
Privacy	(a) Development must ensure that reasonable privacy is achieved for new dwellings and existing adjoining residences and private open space.	The proposed development ensures that the dwelling and existing dwellings in proximity will continue to have adequate privacy in private open spaces. Neighbouring dwellings will not be further impacted to what is already occurring with the existing dwelling.
Parking	Deemed to Satisfy: Two (2) spaces per dwelling.	On the Buchanan Street frontage, the development includes a proposed car port accessed via a concrete driveway. The development is improved with additional car parking areas in the proposed shed, which also includes an area for possible stacked parking, if required. In this manner, the site has more than two (2) parking opportunities.
Landscaping	 (a) Landscaping must enhance the quality of the built environment. (b) Species selection and location should improve energy efficiency through reducing heat gain through windows and deflecting winter winds. 	The proposed development shall utilise existing landscaping afforded to the site, including an existing low water use tree in the central portion of the site to be pruned down to 50m² cover.



	(c) Plants with low maintenance and water requirements should be selected.	
Open Space	Deemed to Satisfy: Private Open Space is to be on the northern or eastern side of dwelling with direct access to living areas. Area is to be 80m² with a minimum dimension of 5 metres.	As depicted in Appendix C, the proposed development has provided sufficient Private Open Space with dimensions exceeding 5m and 80m².
Fencing	(a) Fencing facing the street or forward of the building line must avoid extensive lengths of 'Colorbond' as it presents a barrier to the street.(b) Solid fencing of a length greater than 30% may be permitted where landscaping is provided to soften the visual impact on the streetscape.	The proposed development shall utilise existing fencing, and where required shall be remediated. Colourbond fencing will not be used on the street frontage.
Infrastructure	(a) Surface infrastructure (e.g. tanks, clotheslines) must not be located within front setback.(b) Surface infrastructure must not be visible from the street.(c) Garbage storage locations must be included in landscape plan and show how they will be screened.	According to the plans, the proposed development includes an outdoor clothesline located behind the proposed dwelling. In the rear of the site, a 14,000 Litre water tank is proposed. All surface infrastructure shall not be visible from Buchanan Street, as they are behind the building line.
Garages	Outbuildings must not negatively affect the amenity of the streetscape or adjoining properties. The following standards apply for urban areas. Lot size (m²)/shed size (m²): • <750/50 • 751-1000/80 • 1001-2000/100 • 2001-3000/120 • 3001 or greater/150	The proposed development site is approximately 1,012m² (Please refer to Survey in Appendix A). Based on the lot size, a shed size of 100m² is the relevant standard. The proposed shed has an approximate floor area of 99m², and thus is compliant with the relevant standard.



Development Near Ridgelines	N/A	N/A
Slopes	 (a) Development maximises retention of natural ground levels and contours. (b) Drainage is to avoid erosion of gullies, slopes and drainage lines in the locality (c) Cut and fill, earthworks, retaining walls, unprotected embankments and terraces etc are setback from boundaries such that there is no impact on the privacy or visual amenity of adjoining dwellings and their private open space. (d) Cut and fill, earthworks, retaining walls, unprotected embankments and terraces etc are setback from boundaries such that they do not redirect the flow of surface water onto adjoining properties. 	The development proposes to only use minimal cut and fill where required and maximises retention of the natural ground levels. The proposed earthworks and retaining wall for the northern side of the shed are adequately set back from the boundaries to ensure that the privacy and visual amenity of both neighbouring properties and the development site. Surface water will not be directed onto adjoining properties.
Access	All weather vehicle access is required to ensure that emergency services (fire, ambulance, police) are able to access the dwelling at all times.	The subject site fronts Buchanan Street which is sealed.
Design Principals	 (a) Design should maximise surveillance with clear sightlines between public and private places, effective lighting of public places and landscaping. (b) Physical and symbolic barriers should be used to attract, channel, or restrict the movement of people to minimise opportunities for crime and increase the effort required to commit crime. (c) Must be sympathetic with existing adjoining and surrounding developments in relation to bulk and height. (d) Well-proportioned building form that contributes to the streetscape and amenity. (e) Density appropriate to the regional context, availability of infrastructure, public transport, community facilities, and environmental quality. 	The design allows for a clear understanding of what areas of the site are public and private sections. The site has adequate existing fencing proposed. Clear sightlines are offered throughout the site. The design is in context with other developments in proximity. It will utilise duragroove wall panelling finish with selected colourbond roofing that are both considered non-reflective materials. The floor plan in Appendix C depicts the dwelling has proportionate rooms and are in suitable areas. The shed in the rear of the site shall utilise non-reflective materials and is similar to the others in the surrounding locality. It will be finished with a slate grey and smooth cream paint schedule.



- (f) Design must demonstrate efficient use of natural resources, energy and water throughout its full life cycle, including construction.
- (g) Landscape design should optimise useability, privacy and social opportunity, equitable access and respect for neighbours amenity, and provide for practical establishment and long term management.
- (h) Optimise amenity (e.g. appropriate room dimensions and shapes, access to sunlight, natural ventilation, visual and acoustic privacy, storage, indoor and outdoor space, efficient layouts and service areas, outlook and ease of access for all age groups and degrees of mobility.
- (i) Optimise safety and security, both internal to the development and for the public domain.
- (j) Design must demonstrate response to the social context and needs of the local community in terms of lifestyles, affordability, and access to social facilities.
- (k) N/A

The development shall retain existing landscaping which is suitable for a residential setting.

The layout of the proposed dwelling allows adequate access to sunlight and offers natural ventilation.

The proposal has an adequate BASIX certificate (please refer to Appendix E.

Table 2 - DCP Requirements



5.6 Any Planning Agreement entered into

No Planning Agreements entered into are known to exist in relation to the development or site.

5.7 Any Matters Prescribed by the Regulations

For the purposes of Section 4.15(1)(a)(iv) of the EP&A Act, Clause 61 of the *Environmental Planning and Assessment Regulations 2021* (EP&A Regulations) specifies the additional matters a consent authority must take into consideration when determining a DA. The following matter is relevant to the site and the development.

5.7.1 Demolition works

Demolition works are likely to be involved, the provisions of AS2601 need to be considered. In this regard, all proposed demolition will be carried out in accordance with Australian Standard AS2601: the Demolition of Structures.

5.8 Any Likely Impacts of the Development

5.8.1 Context & Setting

The subject site is located in an environment which is characterised by existing and emerging single storey residential dwellings. The proposed development is considered to be consistent with the existing streetscape and would not impact on the context or setting in the locality.

5.8.2 Access, Transport & Traffic

Access shall be gained via the northern side of Buchanan Street. The crossover and driveway shall be provided in accordance with Council's requirements and relevant Australian standards.

Traffic manoeuvrability and the proposed parking arrangements are considered suitable for the proposed development and will not impact on existing traffic conditions in the locality.

5.8.3 Utilities

All services including reticulated water supply, sewerage, electricity, stormwater management and telecommunication infrastructure are connected to the site. A 14,000L rainwater tank is also proposed for further onsite stormwater management. The existing and proposed connections can support the proposed use of the site.

5.8.4 Noise

The proposed construction works shall generate some noise impact. The likelihood of noise becoming offensive can be minimised by adopting good work practices and adhering to normal construction hours.

5.8.5 Social & Economic Impacts in the Locality

The proposal supports a well-designed residential development on an accessible infill site able to utilise Council's services, including water, sewerage and stormwater management. In this manner, it can be considered a positive social and economic impact.



5.8.6 Other

There are no other issues such as flooding, flora/fauna, bushfire, or heritage that would significantly impact upon the development.

5.9 Suitability of the Site for the Proposed Development

The suitability of the site for the proposed development has been addressed in the above sections of this report. There are no prohibitive constraints posed by adjacent developments. There does not appear to be any zoning, planning, or environmental matters that should hinder the proposed development of the site. In this regard, it can be concluded that the proposal fits into the locality and the site attributes are conducive for the development.

5.10 The Public Interest

The proposal is unlikely to create any negative impacts on the amenity of the area and is therefore deemed to be positive in terms of the public interest.



6 CONCLUSION

It is recommended that the proposed dwelling and associated shed on Lot 13 Section 6 DP 8161, commonly known as 47 Buchanan Street, be supported on the following grounds:

- The proposal is considered acceptable in terms of provisions of Section 4.15 of the Environmental Planning and Assessment Act 1979;
- The proposal is permissible with consent and consistent with the relevant development standards and provisions of the Mid-Western Regional Local Environmental Plan 2012;
- The proposal complies with the relevant provisions of the Mid-Western Regional Council Development Control Plan 2013;
- The proposed development is not anticipated to generate any adverse impacts in the locality; and
- The proposed development is considered suitable for its site and its surrounds.



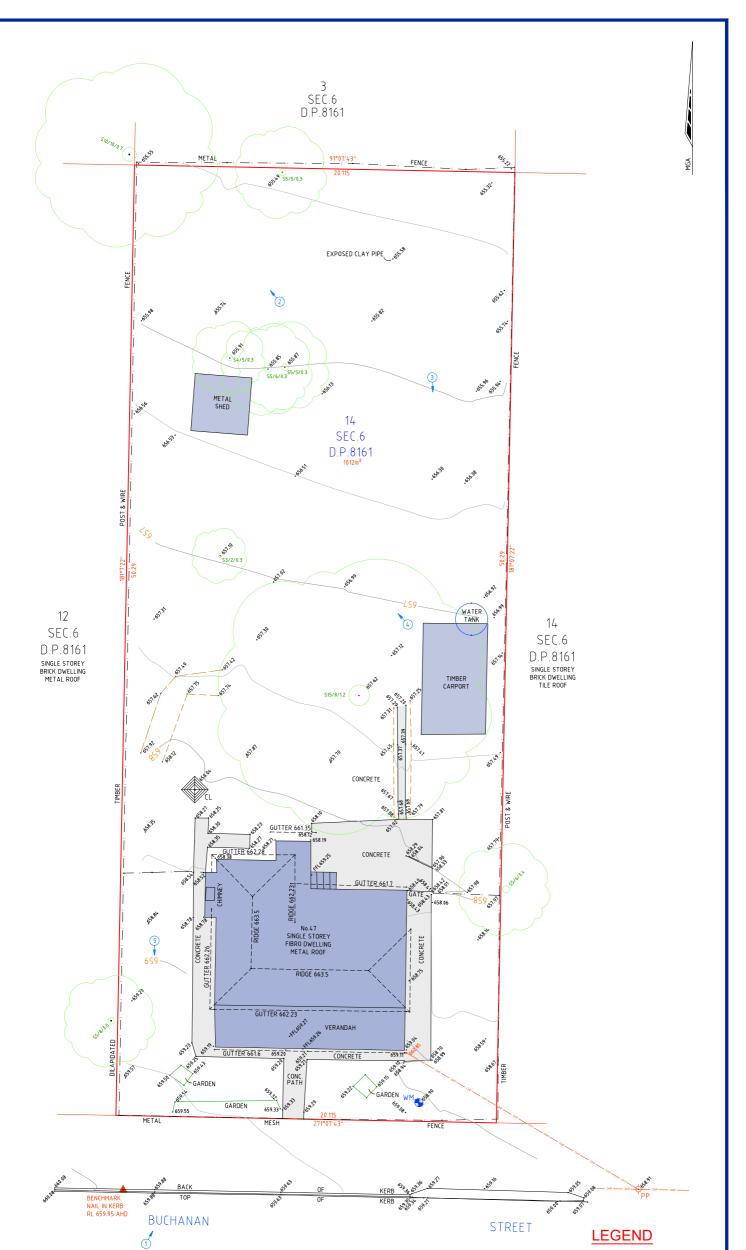
7 REFERENCES

The following key references were utilised as part of this assessment:

- AHIMS
- Mid-Western Regional Development Control Plan 2013
- Mid-Western Regional Local Environmental Plan 2012
- NSW Government Spatial Services 2021

barnson.

APPENDIX A Survey



barnson.

APPENDIX B
AHIMS

Your Ref/PO Number : 16

Date: 20 February 2023

Client Service ID: 754781

Barnson

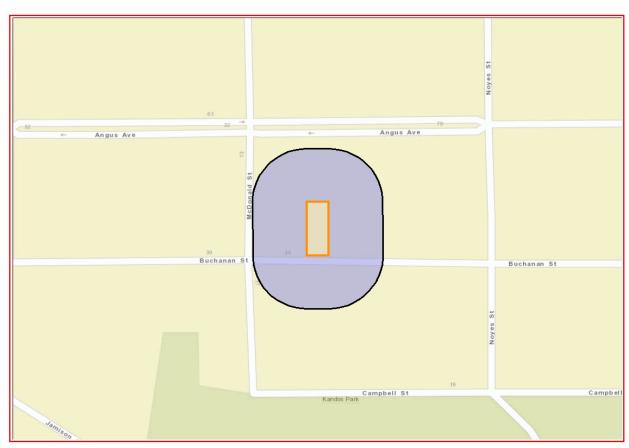
Unit 1/36 Darling Street Dubbo New South Wales 2830 Attention: Sebastian Minehan

Email: sminehan@barnson.com.au

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lot: 13, DP:DP8161, Section: 6 with a Buffer of 50 meters, conducted by Sebastian Minehan on 20 February 2023.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

0	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

If your search shows Aboriginal sites or places what should you do?

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it.
 Aboriginal places gazetted after 2001 are available on the NSW Government Gazette
 (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

Important information about your AHIMS search

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.

ABN 34 945 244 274

Email: ahims@environment.nsw.gov.au

Web: www.heritage.nsw.gov.au

• This search can form part of your due diligence and remains valid for 12 months.

barnson.

APPENDIX C
Development Plans

PROPOSED DWELLING AND SHED 47 BUCHANAN STREET, KANDOS NSW DA DRAWING SET

ISSUE H

CONTENTS

W 01 SITE PLAN

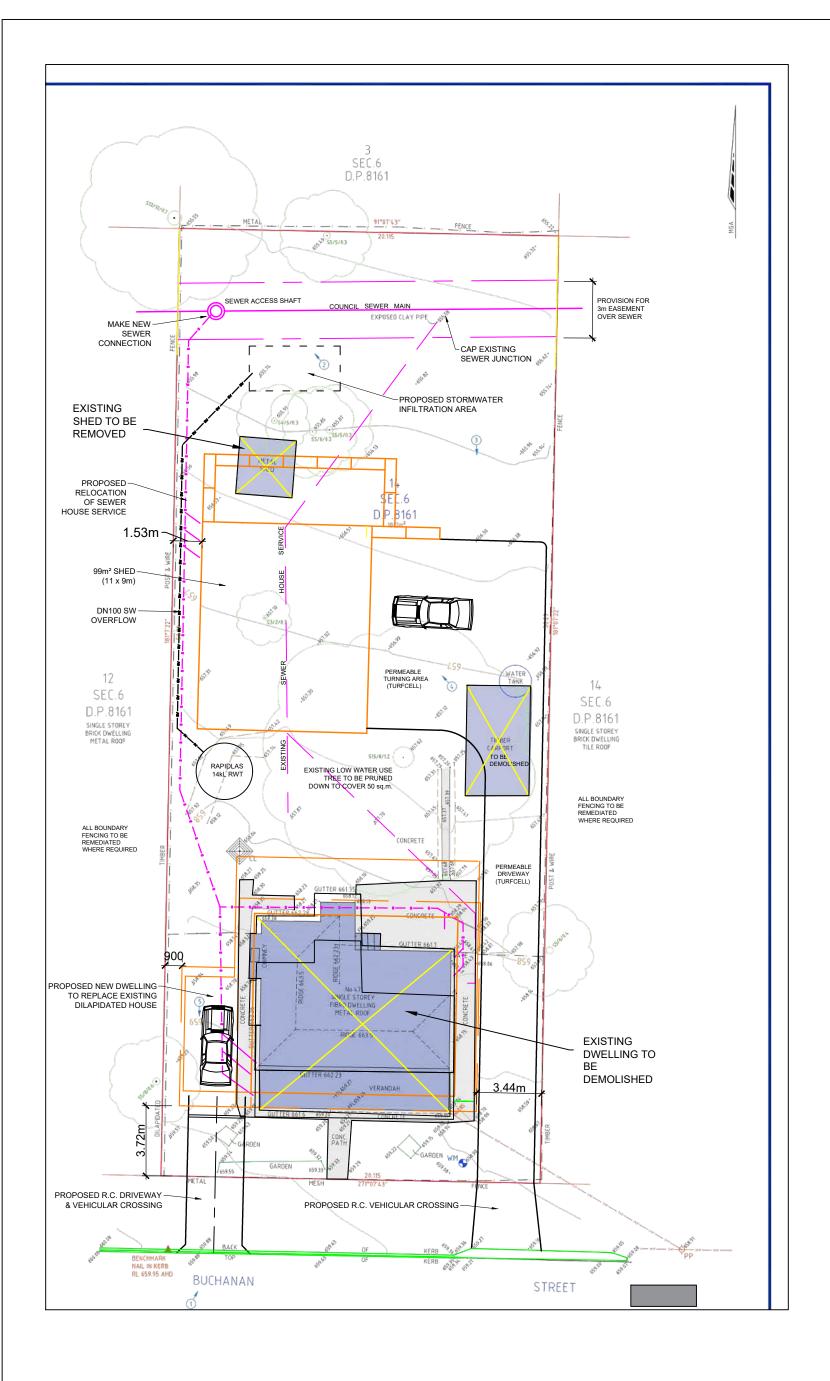
W 02 DWELLING FLOOR & ROOF PLANS

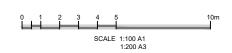
W 03 DWELLING ELEVATIONS

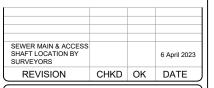
W 04 DWELLING CROSS SECTION & WINDOW SCHEDULE

W 05 PROPOSED SHED FLOOR PLAN & CROSS SECTIONS

W 06 PROPOSED SHED ELEVATIONS & TRENCH DETAIL







SITE PLAN

PROJECT: PROPOSED DWELLING & SHED

47 BUCHANAN ST., KANDOS NSW

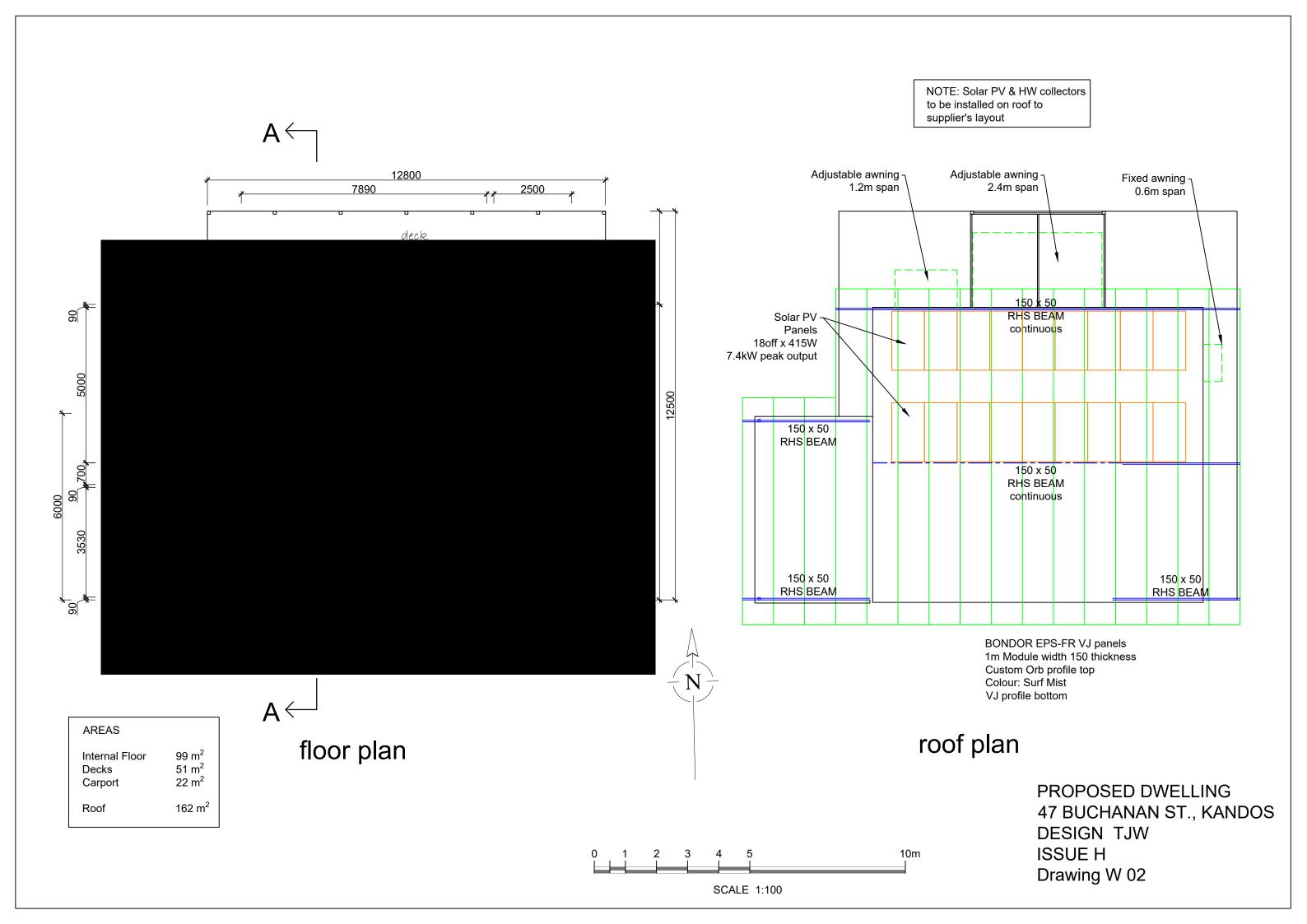
CLIENT: T. J. WILLIAMS

DATE: June 2022	DRAWN: RA
SCALE: As noted	APPD:
DWG No: W 01	Paper Size A1
Н	

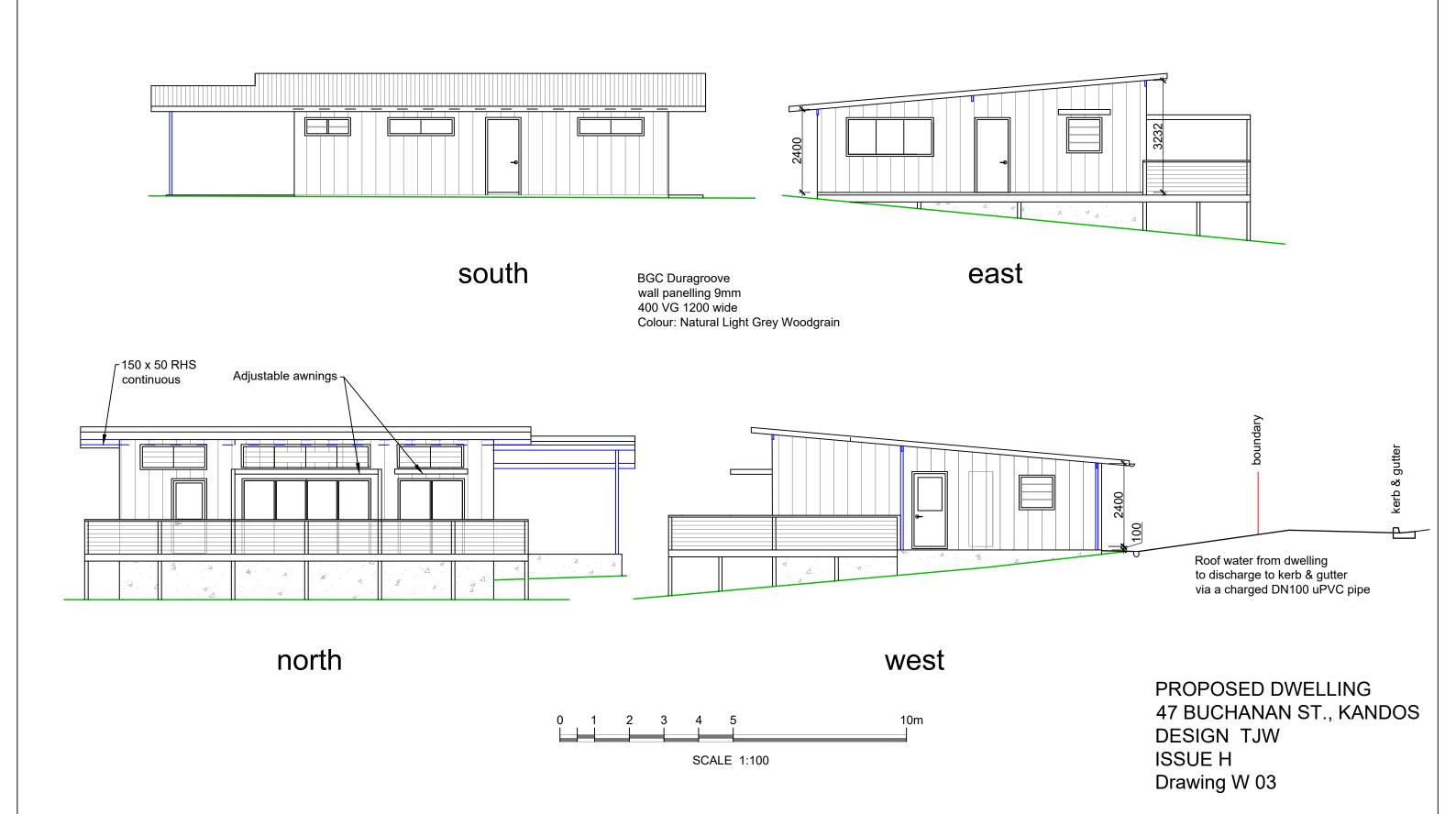
ROB AUNGLE & ASSOCIATES

CONSULTING ENGINEERS
CIVIL & STRUCTURAL

74 BALEMO DRIVE, OCEAN SHORES NSW 2483 0417 858 245 racon@live.com.au



Roof Colour: Surf mist



Roofing:
BONDOR EPS-FR VJ panels
R4 Insulation rating
1m Module width 150 thickness
Custom Orb profile top
VJ profile bottom

Wall framing 90mm wide Install R2.2 Insulation in external walls

External cladding BGC Duragroove wall panelling 9mm 400 VG 1200 wide Colour: Natural Light Grey Woodgrain

Internal Linings Plasterboard

Polished concrete floors

throughout living & kitchen areas
Tiled floors to bathroom & ensuite
Carpet to bedrooms
Composite deck floorboards

Note: All glazing single clear



cross section AA

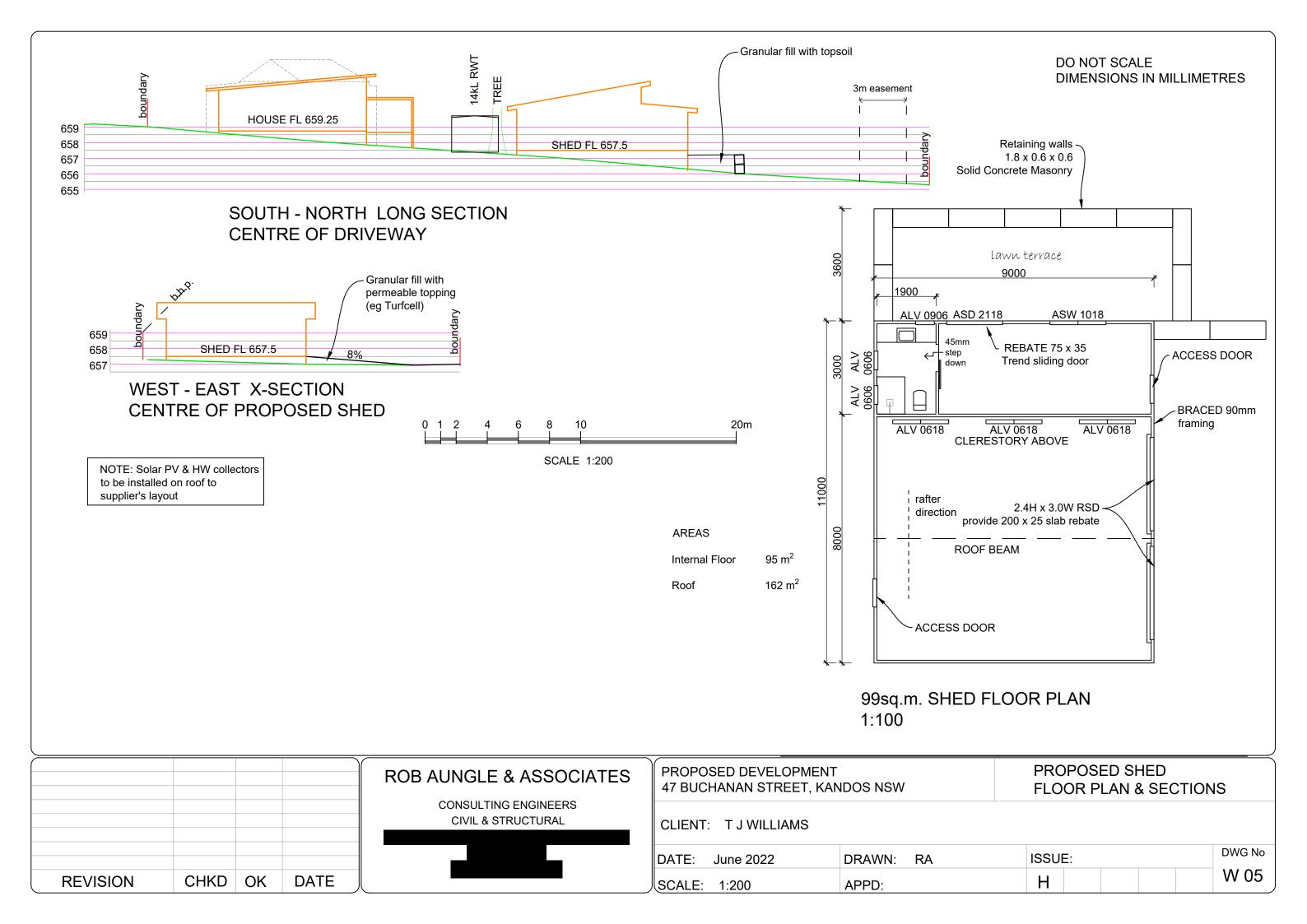
1:50

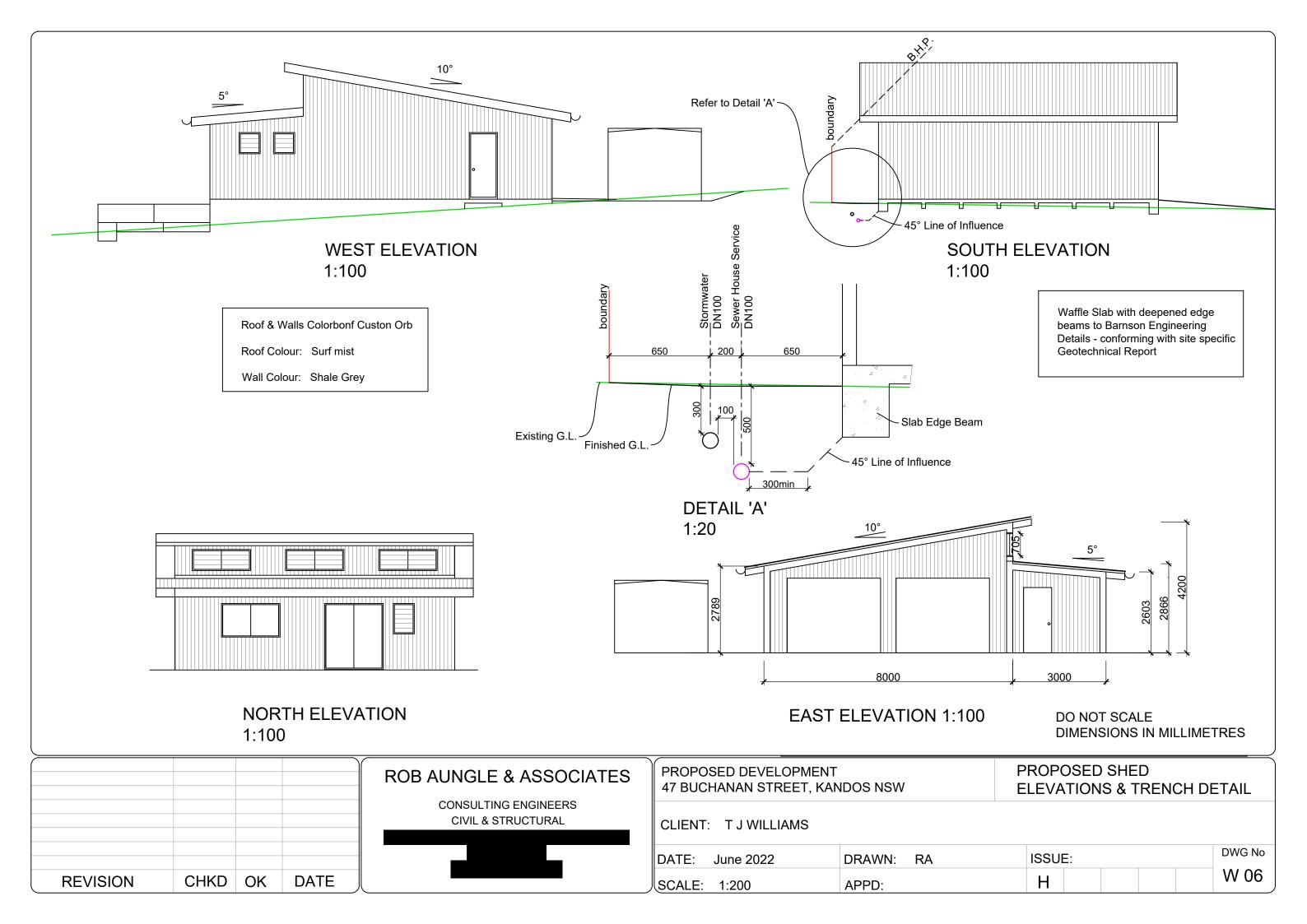
Waffle Slab with deepened edge beams to Barnson Engineering Details - conforming with site specific Geotechnical Report

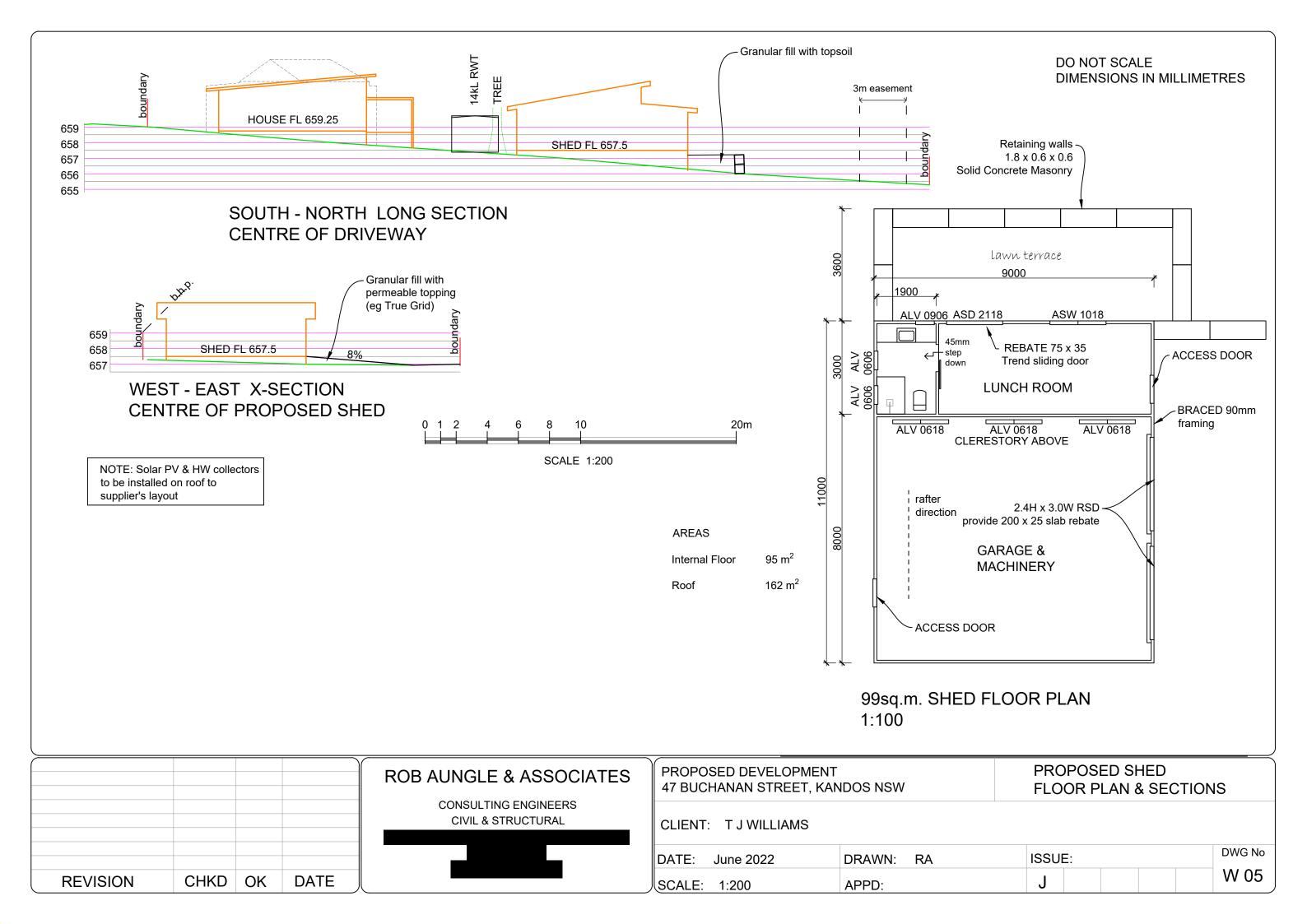
window & door schedule

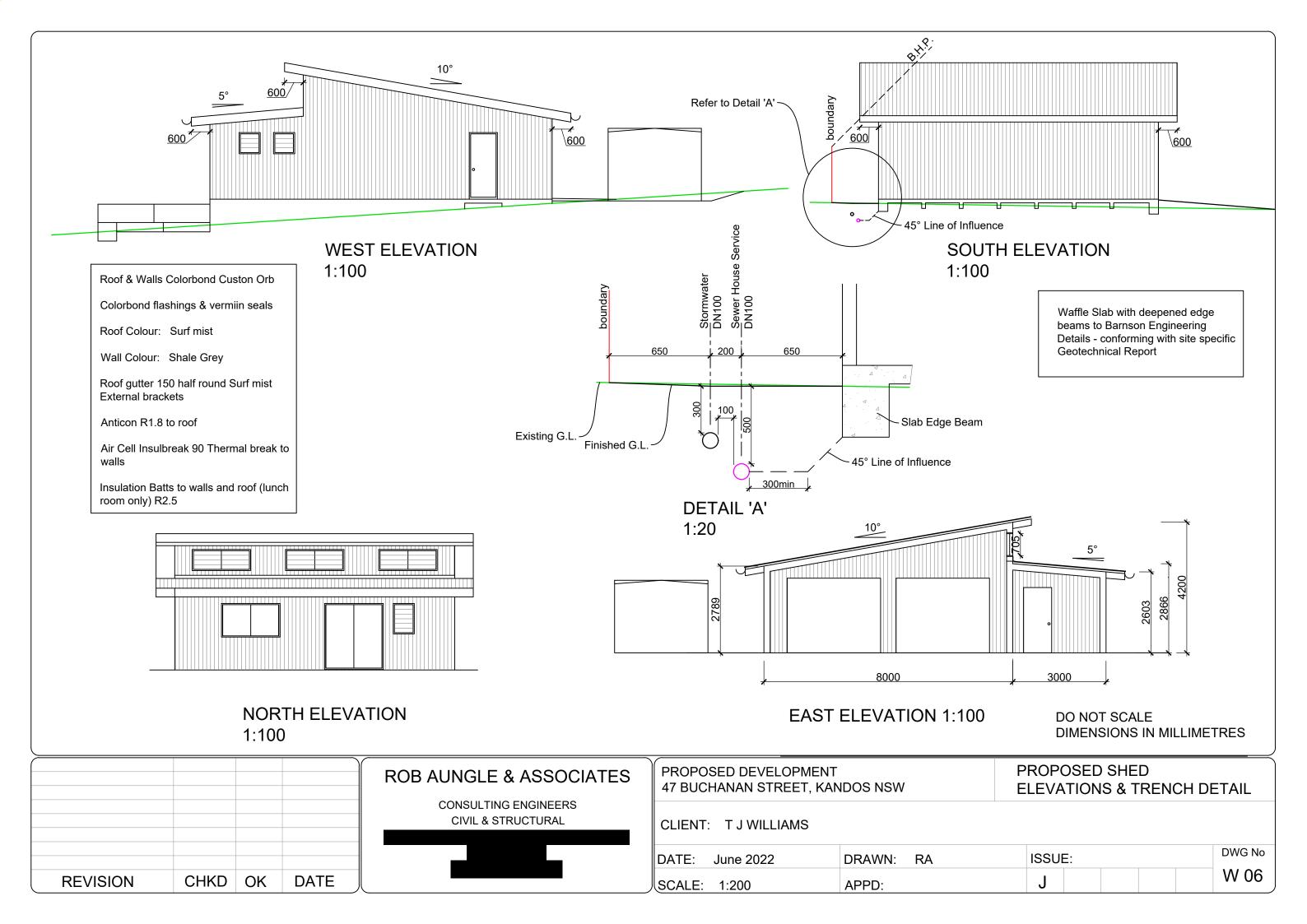
North			East		
W01	2118 ASD	Adjustable awning 1.2m wide	W07	0909 ALV	Al. Louvre fixed awning span 0.6m wide
W02	2136 ASD	Adjustable awning 2.4m wide	W08	1024 ASW	1
W03	2109 EXD	Half glazed Aluminium	South	l	
W04	0618 ALV	Aluminium Louvre	W09	0418 ASW	1
W05	0636 ALV	Aluminium Louvre	W10	0418 ASW	1
W06	0618 ALV	Aluminium Louvre	W11	0418 ALV	
			West		
			W12	0909 ALV	
			W13	2109	Solid core timber decorative glaze

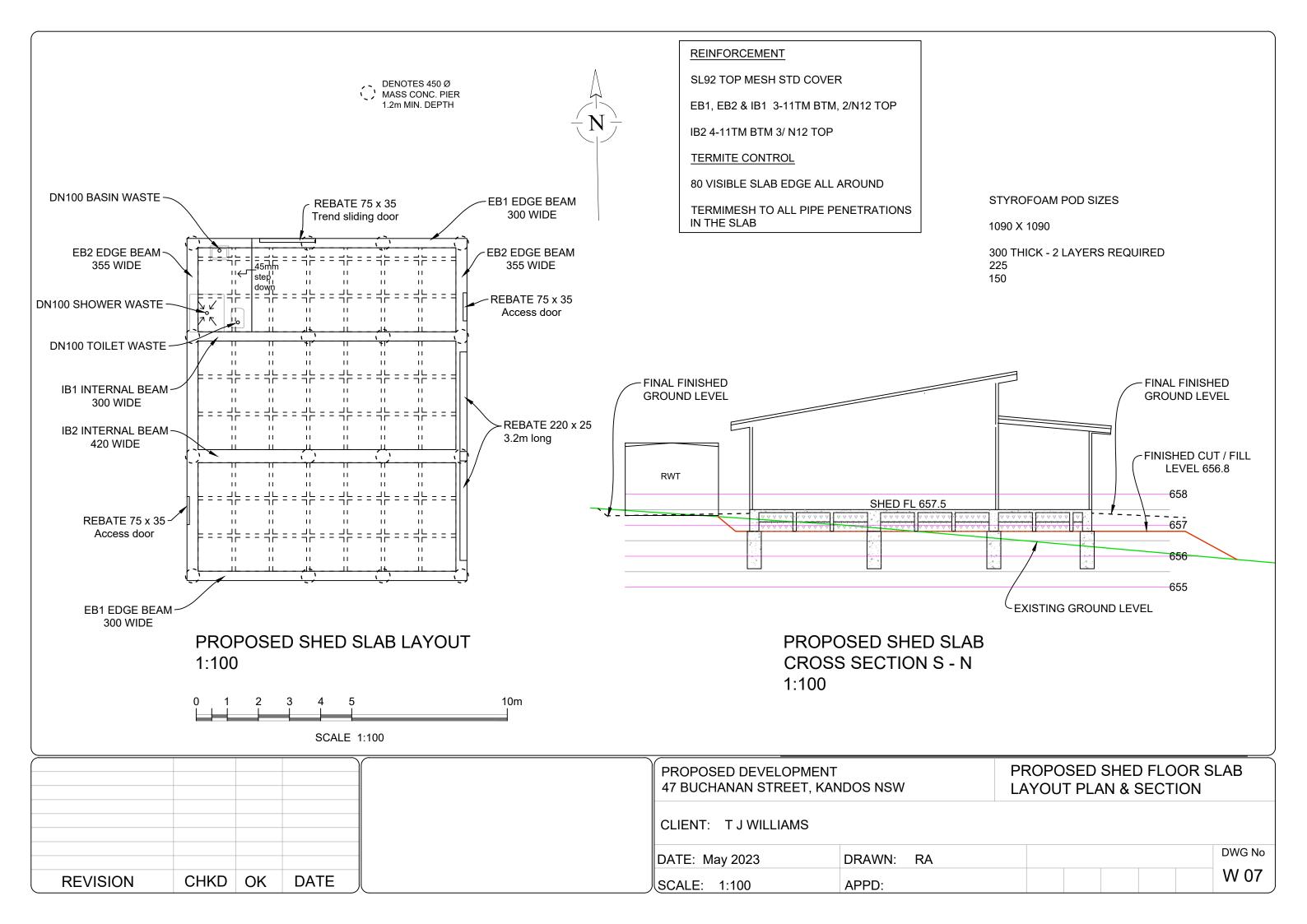
PROPOSED DWELLING 47 BUCHANAN ST., KANDOS DESIGN TJW ISSUE H Drawing W 04











barnson.

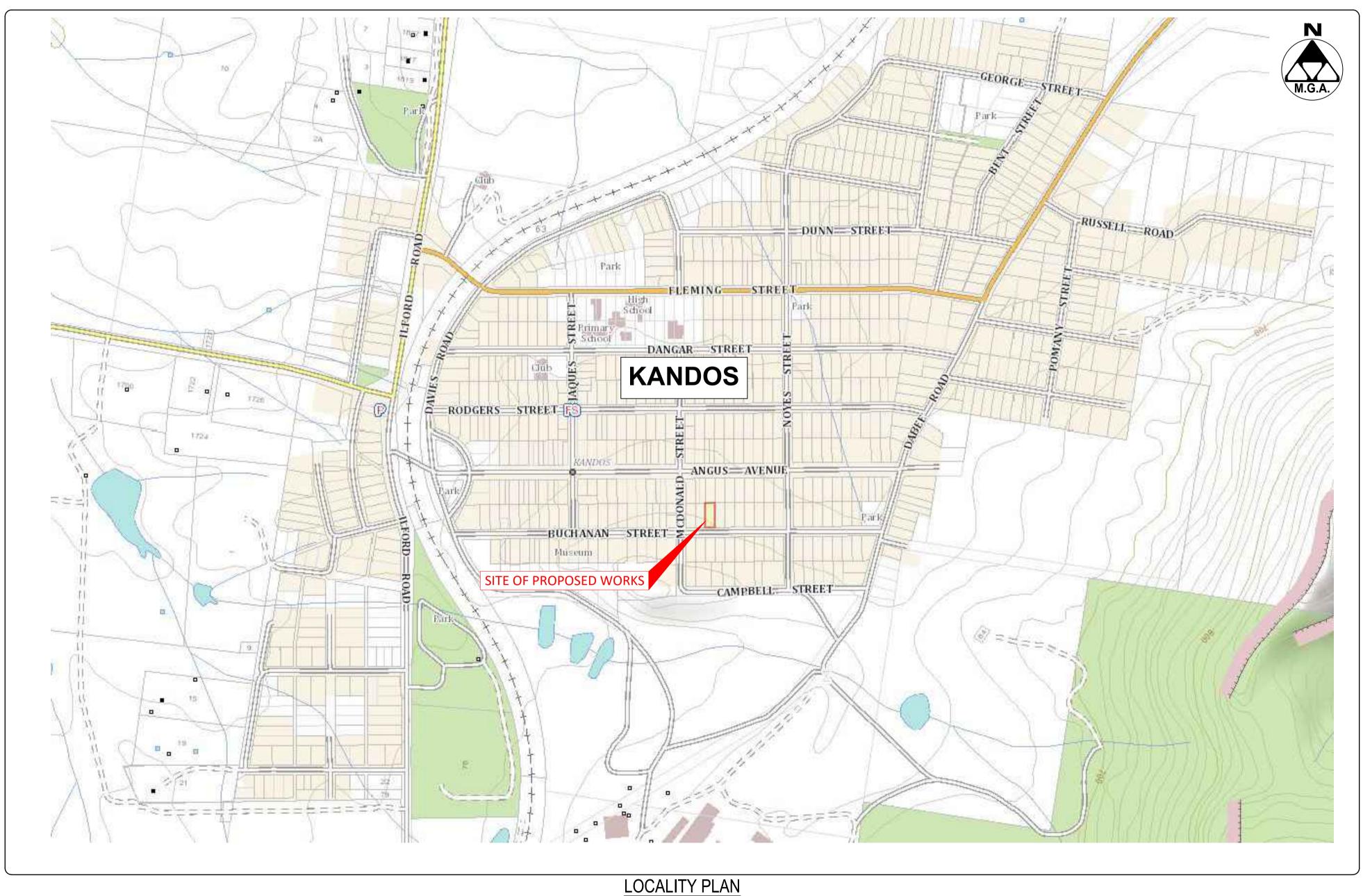
APPENDIX D
Civil Plans



Civil Design Documentation PROPOSED DWELLING & SHED

Lot 13 Section 6 in DP 8161 KANDOS NSW 2848

	DRAWING SCHEDULE				
DWG NUMBER	DWG NUMBER DESCRIPTION				
41091-C00	41091-C00 COVER SHEET AND DRAWING SCHEDULE				
41091–C01	EXISTING SITE PLAN				
41091-C02	STORMWATER MANAGEMENT PLAN				
41091–C03	STORMWATER SPECIFICATIONS				



REDUCTION RATIO 1:12500 @ A1

SUBMISSION FOR DA



BARNSON PTY LTD

phone 1300 BARNSON (1300 227 676) generalenquiry@barnson.com.au

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Date Description 0 04.05.2023 SUBMISSION FOR D.A.

CIVIL DESIGN DOCUMENTATION **PROPOSED DWELLING & SHED**

47 BUCHANAN STREET KANDOS NSW 2848 TOM WILLIAMS

COVER SHEET & DRAWING SCHEDULE

Original Sheet Size

Revision

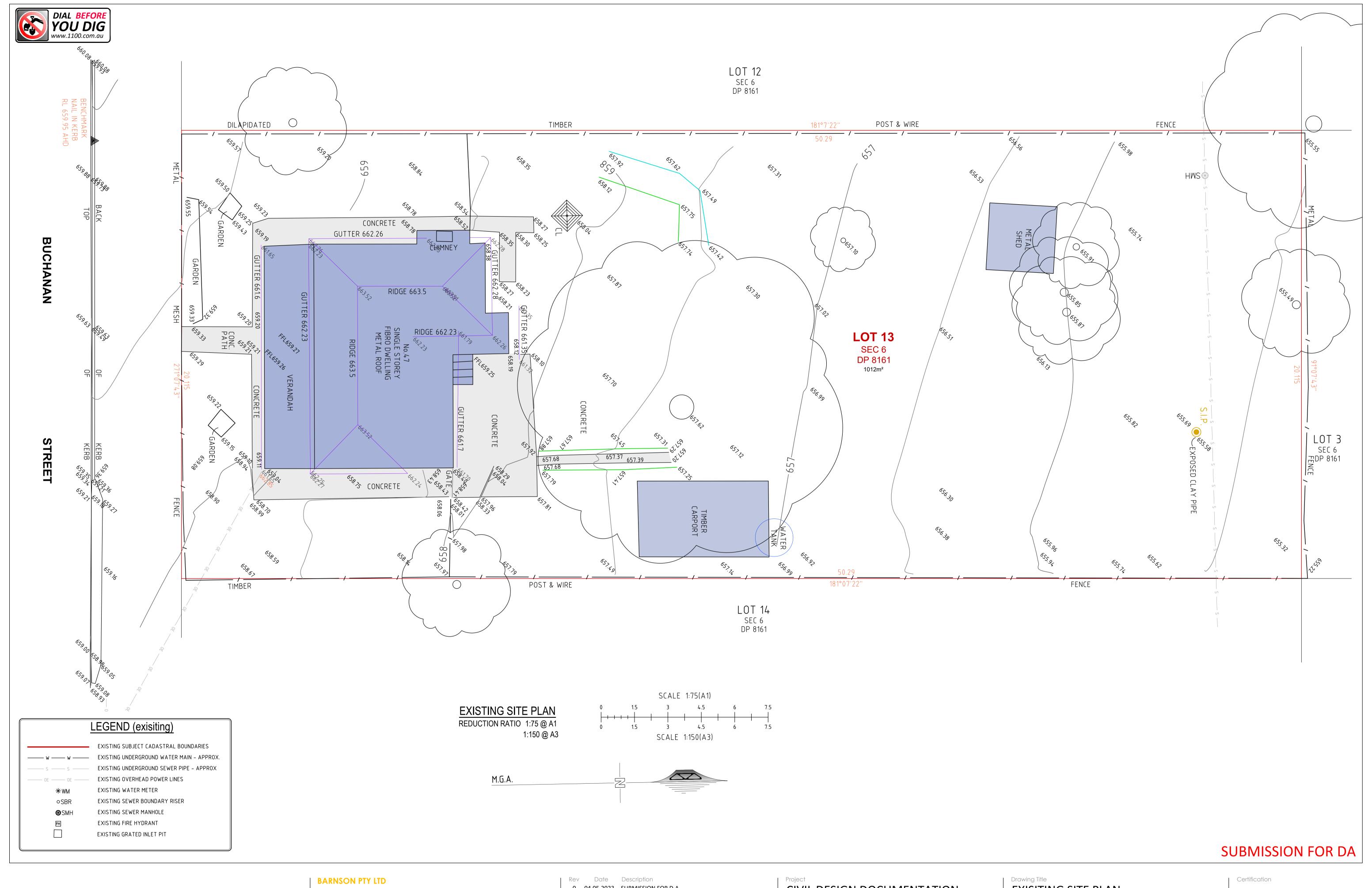
Design

Drawn

Check

Α1 Project No

41091





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CIVIL DESIGN DOCUMENTATION PROPOSED DWELLING & SHED

47 BUCHANAN STREET KANDOS NSW 2848 TOM WILLIAMS

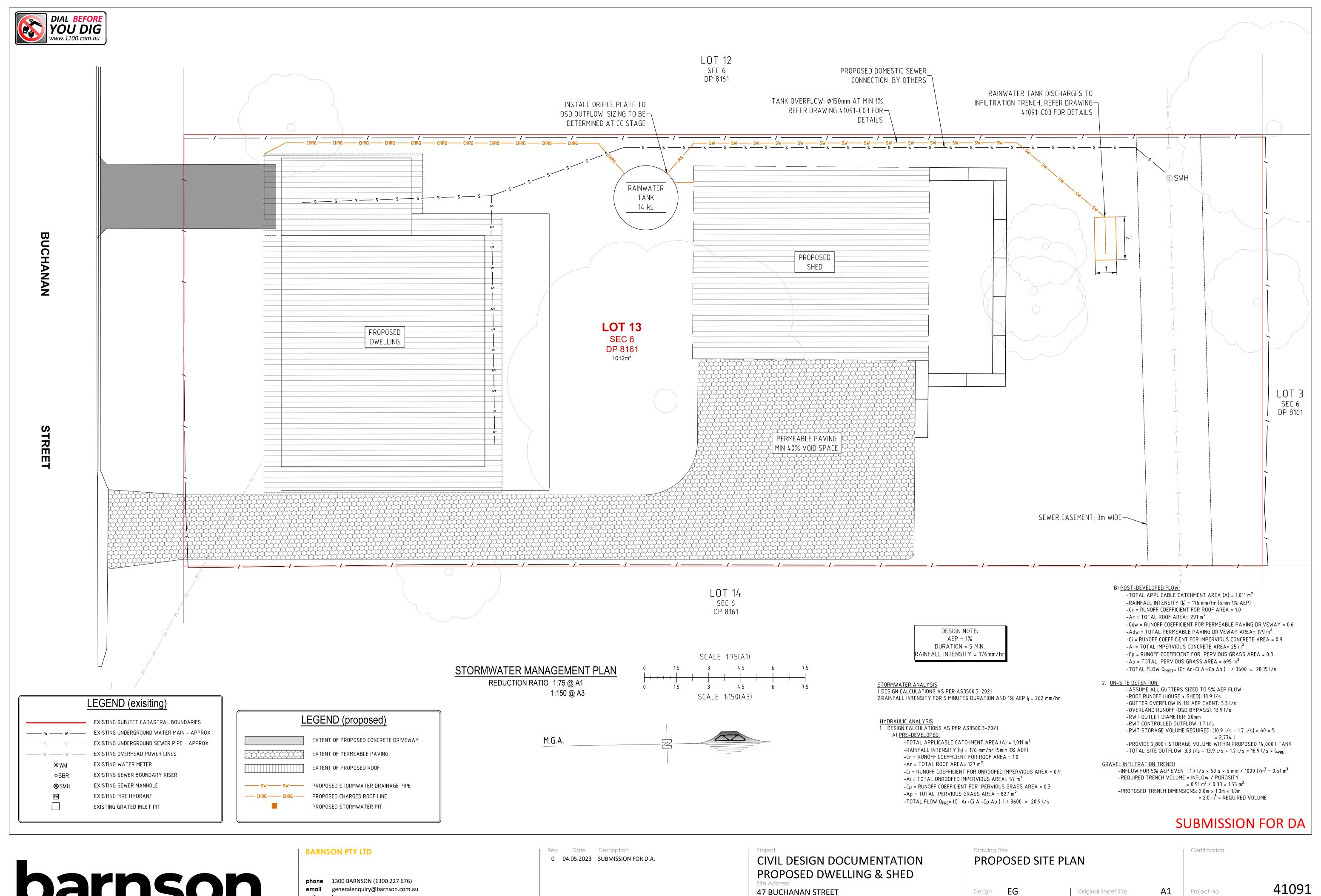
EXISITING SITE PLAN Α1 Original Sheet Size Project No Design Drawn

Revision

Check

41091

C01





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KANDOS NSW 2848

TOM WILLIAMS

Drawn

Revision

Check

SITEWORKS NOTES

1. ORIGIN OF LEVELS :- AHD

 CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
 ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND

THE DIRECTIONS OF THE SUPERINTENDENT

- 4.EXISTING SERVICES HAVE BEEN OBTAINED FROM SURFACE INSPECTION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- 5. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- 6. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A QUALIFIED SURVEYOR.
- 7. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOM OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- 8. ON COMPLETION OF CONSTRUCTION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
- 9. MAKE SMOOTH TRANSITION TO EXISTING AREAS.
 10. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY
 DIVERSION DRAINS AND MOUNDS TO ENSURE THAT AT ALL
 TIMES EXPOSED SURFACES ARE FREE DRAINING AND WHERE
 NECESSARY EXCAVATE SUMPS AND PROVIDE PUMPING
 EQUIPMENT TO DRAIN EXPOSED AREAS. ALL WORK TO BE
 UNDERTAKEN WITH ADHERENCE TO THE REQUIREMENTS OF
 THE SOIL AND WATER MANAGEMENT PLAN.
- 11. THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS.

STORMWATER NOTES

- 1. ALL DOWNPIPE LINES SHALL BE SEWER GRADE uPVC WITH SOLVENT WELD JOINTS (U.N.O)
- 2. EQUIVALENT STRENGTH VCP OR FCP PIPES MAY BE USED.
 3. MINIMUM GRADE TO STORMWATER LINES TO BE 0.5% MINIMUM (U.N.O)
- 4. CONTRACTORS TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- 5. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
- 6. APPROVED PRECAST PITS MAY BE USED.
- 7. WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50mm CONCRETE BED (75mm THICK BED OF 12mm BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR THE ROCK. IN OTHER THAN ROCK, PIPES SHALL BE LAID ON A 75mm THICK SAND BED. IN ALL CASES, BACKFILL THE TRENCH WITH THE SAND TO 200mm ABOVE THE PIPE .WHERE THE PIPE IS UNDER PAVEMENTS, BACKFILL REMAINDER OF TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL COMPACTED IN 150mm LAYERS TO 98% MAX. DRY DENSITY.
- 8. WHERE STORMWATER LINES PASS UNDER FLOOR SLABS, SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
- 9. ALL PIPES IN THE ROADWAY AND FOOTPATH AREAS, WHERE THE DEPTH OF PIPE IS LESS THAN 500mm FROM THE FINISHED SURFACE LEVEL ARE TO BE CONCRETE ENCASED.

PIPE TRENCH - FILL NOTES:

1. BEDDING SAND

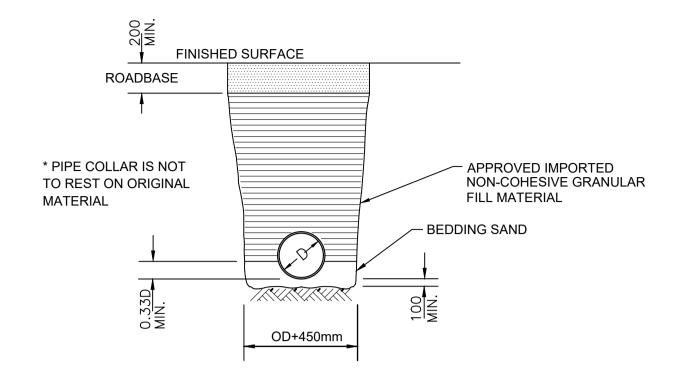
BEDDING SAND SHALL BE GRANULAR MATERIAL HAVING A LOW PERMEABILITY AND HIGH STABILITY WHEN SATURATED, CONFORMING TO THE GRADING LIMITS FOR BEDDING SAND AS INDICATED IN THE CONTRACT DOCUMENTS. BEDDING SAND SHALL BE COMPACTED TO A DENSITY INDEX OF 95% AS DETERMINED IN ACCORDANCE WITH AS1289.

2. APPROVED IMPORTED GRANULAR FILL

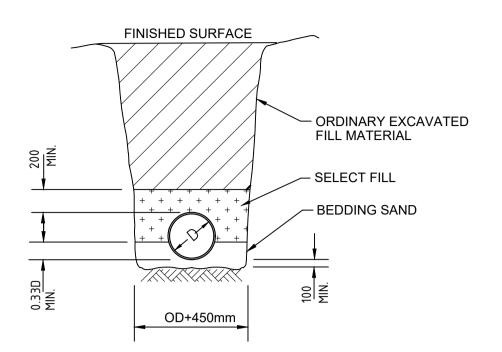
ONLY IMPORTED GRANULAR FILL
ONLY IMPORTED GRANULAR FILL MATERIAL APPROVED BY
THE SUPERINTENDENT SHALL BE USED. THIS FILL MATERIAL
SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 300mm
THICK TO A DRY DENSITY OF 100% OF THE STANDARD
MAXIMUM DRY DENSITY OF THE MATERIAL AND WITH A
MOISTURE CONTENT NO MORE THAN 1% ABOVE OPTIMUM
MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH
AS1289.

3. ORDINARY EXCAVATED FILL MATERIAL

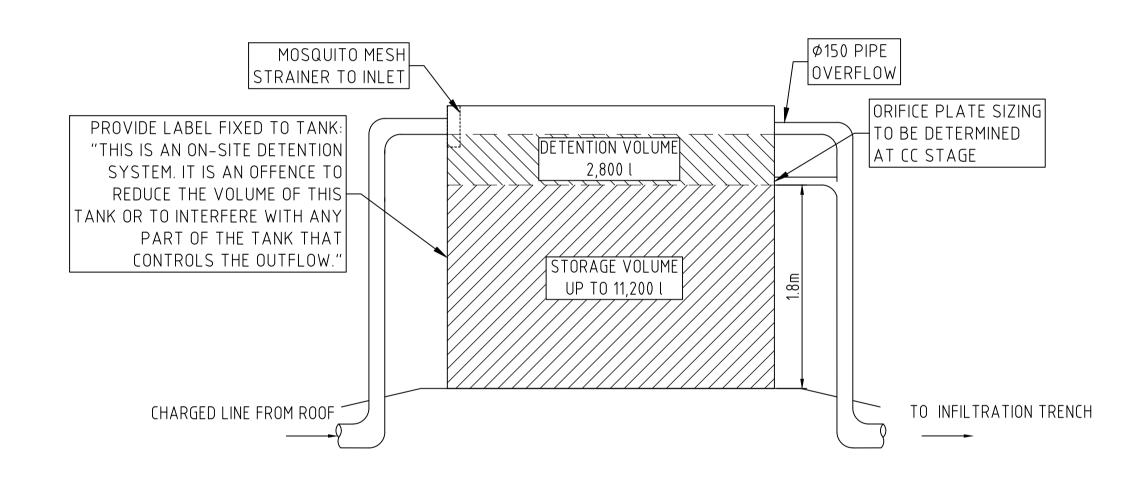
ORDINARY EXCAVATED FILL MATERIAL IS EXCAVATED TRENCH MATERIAL THAT IS FREE OF VEGETABLE MATTER, HUMUS, LARGE CLAY LUMPS AND ROCK BOULDERS. THIS FILL MATERIAL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 300mm THICK, TO A DENSITY OF 95% OF THE STANDARD MAXIMUM DRY DENSITY OF THE MATERIAL WITH A MOISTURE CONTENT OF NOT MORE THAN 1% ABOVE THE OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH AS1289.



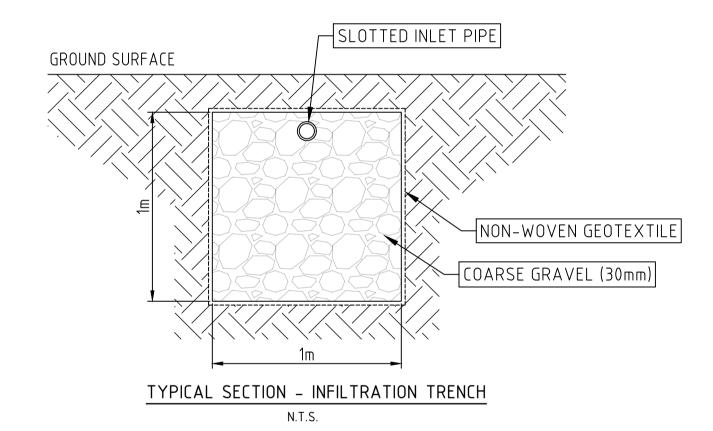
TYPICAL SECTION - TRENCH IN ROADWAY



TYPICAL SECTION - EARTH FOUNDATION TRENCH



TYPICAL SECTION - RAINWATER TANK N.T.S.



SUBMISSION FOR DA



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Rev Date Description
0 04.05.2023 SUBMISSION FOR D.A.

CIVIL DESIGN DOCUMENTATION PROPOSED DWELLING & SHED

47 BUCHANAN STREET
KANDOS NSW 2848
Client

TOM WILLIAMS

S

Drawn

Check

STORMWATER SPECIFICATIONS

Design EG Original Sheet Size

Revision

Certification
Project No

Drawing No

Α1

41091 **CO3**

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APPENDIX E BASIX



Building Sustainability Index www.basix.nsw.gov.au

Single Dwelling

Certificate number: 1372123S

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

BASIX

Date of issue: Tuesday, 14 February 2023

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



Project summary				
Project name Tom Williams house and shed Kandos				
Street address	47 Buchanan Street Kandos 2848			
Local Government Area	Mid-Western Regional Council			
Plan type and plan number deposited DP8161				
Lot no.	13			
Section no.	6			
Project type	separate dwelling house			
No. of bedrooms	2			
Project score				
Water	✓ 40 Target 40			
Thermal Comfort	✓ Pass Target Pass			
Energy	✓ 100 Target 40			

Name / Company Name: Anthony Rose Architect

ABN (if applicable): 11925099811

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1372123S Tuesday, 14 February 2023 page 1/9

Description of project

BASIX

Project address		
Project name	Tom Williams house and shed Kandos	
Street address	47 Buchanan Street Kandos 2848	
Local Government Area	Mid-Western Regional Council	
Plan type and plan number	Deposited Plan DP8161	
Lot no.	13	
Section no.	6	
Project type		
Project type	separate dwelling house	
No. of bedrooms	2	
Site details		
Site area (m²)	1012	
Roof area (m²)	166	
Conditioned floor area (m2)	92.75	
Unconditioned floor area (m2)	9.25	
Total area of garden and lawn (m2)	100	

Assessor details and thermal loads							
Assessor number	n/a						
Certificate number	n/a						
Climate zone	n/a						
Area adjusted cooling load (MJ/m².year)	n/a						
Area adjusted heating load (MJ/m².year)	n/a						
Ceiling fan in at least one bedroom	n/a						
Ceiling fan in at least one living room or other conditioned area	n/a						
Project score							
Water	✓ 40 Target 40						
Thermal Comfort	✓ Pass Target Pass						
Energy	✓ 100 Target 40						

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Schedule of BASIX commitments

BASIX

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

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Landscape			
The applicant must plant indigenous or low water use species of vegetation throughout 40 square metres of the site.	~	~	
Fixtures			
The applicant must install showerheads with a minimum rating of 4 star (> 6 but <= 7.5 L/min plus spray force and/or coverage tests) in all showers in the development.		~	•
The applicant must install a toilet flushing system with a minimum rating of 5 star in each toilet in the development.		V	V
The applicant must install taps with a minimum rating of 5 star in the kitchen in the development.		~	
The applicant must install basin taps with a minimum rating of 5 star in each bathroom in the development.		~	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 12000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	V	~	V
The applicant must configure the rainwater tank to collect rain runoff from at least 265 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		~	V
The applicant must connect the rainwater tank to:			
 at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply.) 		~	V

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1372123S Tuesday, 14 February 2023 page 3/9

Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
General features			
The dwelling must not have more than 2 storeys.	V	~	v
The conditioned floor area of the dwelling must not exceed 300 square metres.	V	~	•
The dwelling must not contain open mezzanine area exceeding 25 square metres.	V	~	-
The dwelling must not contain third level habitable attic room.	-	V	v
Floor, walls and ceiling/roof			
The applicant must construct the floor(s), walls, and ceiling/roof of the dwelling in accordance with the specifications listed in the table below.	~	~	~

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground	nil	
external wall - framed (weatherboard, fibre cement, metal clad)	2.20 (or 2.60 including construction)	
ceiling and roof - flat ceiling / flat roof, framed	ceiling: 4 (up), roof: none	framed; light (solar absorptance < 0.475)

Note	• Insulation specified in this Certificate must be installed in accordance with Part 3.12.1.1 of the Building Code of Australia.			
Note	In some climate zones, insulation should be installed with due consideration of condensation and associated interaction with adjoining building materials.			

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Thermal Comfort Commitments	Show on CC/CDC plans & specs		Certifier check
Windows, glazed doors and skylights			
The applicant must install the windows, glazed doors and shading devices described in the table below, in accordance with the specifications listed in the table. Relevant overshadowing specifications must be satisfied for each window and glazed door.	V	-	-
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	V	~	-
The following requirements must also be satisfied in relation to each window and glazed door:	U		U
For the following glass and frame types, the certifier check can be performed by visual inspection.	•	,	
- Aluminium single clear			
- Aluminium double (air) clear			
- Timber/uPVC/fibreglass single clear			
- Timber/uPVC/fibreglass double (air) clear			
 Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35. 		V	-
 Unless they have adjustable shading, pergolas must have fixed 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 exceed the height of the battens. 		·	•
 Overshadowing buildings/vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column. 	-	-	-

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing		
North facing	North facing						
W01	2100	1800	aluminium, single, clear	awning (adjustable) 1200 mm, 2100 mm above base of window or glazed door	>4 m high, 5-8 m away		
W02	2100	3600	aluminium, single, clear	awning (adjustable) 2400 mm, 2100 mm above base of window or glazed door	>4 m high, 5-8 m away		
W03	2100	900	aluminium, single, clear	none	>4 m high, 5-8 m away		

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W04	600	1800	aluminium, single, clear	eave 600 mm, 250 mm above head of window or glazed door	>4 m high, 5-8 m away
W05	600	3600	aluminium, single, clear	eave 600 mm, 250 mm above head of window or glazed door	>4 m high, 5-8 m away
W06	600	1800	aluminium, single, clear	eave 600 mm, 250 mm above head of window or glazed door	>4 m high, 5-8 m away
East facing					
W07	900	900	aluminium, single, clear	pergola (fixed battens) 600 mm, 100 mm above head of window or glazed door	>4 m high, 8-12 m away
W08	1000	2400	aluminium, single, clear	eave 1000 mm, 500 mm above head of window or glazed door	not overshadowed
South facing					
W09	400	1800	aluminium, single, clear	eave 1000 mm, 300 mm above head of window or glazed door	not overshadowed
W10	400	1800	aluminium, single, clear	eave 1000 mm, 300 mm above head of window or glazed door	not overshadowed
W11	400	1200	aluminium, single, clear	eave 1000 mm, 300 mm above head of window or glazed door	not overshadowed
West facing					
W12	900	900	aluminium, single, clear	solid overhang 3600 mm, 500 mm above head of window or glazed door	not overshadowed
W13	900	900	timber/UPVC/fibreglass, single, clear	solid overhang 3600 mm, 500 mm above head of window or glazed door	not overshadowed

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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: electric storage.	V	~	-
Cooling system			
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: ceiling fans + 1-phase airconditioning; Energy rating: 4 Star (old label)		~	-
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: 4 Star (old label)		~	~
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: 1-phase airconditioning; Energy rating: 4 Star (old label)		~	-
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: 4 Star (old label)		•	•
The heating system must provide for day/night zoning between living areas and bedrooms.		V	V
Ventilation			
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: no mechanical ventilation (ie. natural); Operation control: n/a			
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		V	•
Laundry: natural ventilation only, or no laundry; Operation control: n/a		v	
Artificial lighting			
The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent or light emitting diode (LED) lamps:			
at least 2 of the bedrooms / study; dedicated		-	

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
at least 1 of the living / dining rooms; dedicated			U
the kitchen; dedicated			
all bathrooms/toilets; dedicated		Ü	
the laundry; dedicated			
all hallways; dedicated		Ü	Ü
Natural lighting	Ċ		
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	-	·	-
The applicant must install a window and/or skylight in 2 bathroom(s)/toilet(s) in the development for natural lighting.	v	¥	¥
Alternative energy			
The applicant must install a photovoltaic system with the capacity to generate at least 7 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	-	~	-
Other			
The applicant must install an induction cooktop & electric oven in the kitchen of the dwelling.		·	
The applicant must construct each refrigerator space in the development so that it is "well ventilated", as defined in the BASIX definitions.			

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Legend

BASIX

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

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

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

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

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1372123S Tuesday, 14 February 2023 page 9/9