

NOTICE OF PROPOSED DEVELOPMENT

Notice is hereby given that an application has been made for the following development:-

NO:	DA 69/2024
LOCATION:	276 Reservoir Drive WYNYARD
APPLICANT:	B Perry & L Perry
SCHEME:	Tasmanian Planning Scheme – Waratah-Wynyard
ZONING:	Rural Living
USE CLASS:	Residential
PROPOSAL:	Shed Extension & Dwelling
DISCRETIONARY MATTER:	Site coverage 11.4.1 (P1)

The application and associated plans and documents are available for inspection on Council website <https://www.warwyn.tas.gov.au/planning-and-development/advertised-permits/> and at Council offices, located at 21 Saunders Street Wynyard during normal office hours for a period of 14 days from the date of this notice.

Any person who wishes to make representations in accordance with the *Land Use Planning and Approvals Act 1993*, must do so during the 14-day period.

Representations in writing will be received by the General Manager, PO Box 168, Wynyard, 7325, or email council@warwyn.tas.gov.au by **Wednesday 24 April 2024**.

Dated Wednesday 10 April 2024.



Shane Crawford
GENERAL MANAGER

SECTION 51 LAND USE PLANNING & APPROVALS ACT 1993

PERMITTED APPLICATION - Assessment and determination of permit application under S58 Land Use Planning and Approvals Act 1993	\$280.00 plus \$1.35 per \$1,000 of value for use or development
DISCRETIONARY APPLICATION -- Assessment and determination of a permit application under S57 Land Use Planning and Approvals Act 1993	\$450.00 plus \$1.75 per \$1,000 of value for use or development plus advertising fee
SUBDIVISION APPLICATION – Assessment and determination of a subdivision application for 1 to 5 lots under s57 or s58 Land Use Planning & Approvals Act 1993	\$450.00 plus \$1.75 per \$1,000 of value for use or development plus advertising fee
SUBDIVISION APPLICATION – Assessment and determination of a subdivision application for more than 5 lots under s57 or s58 Land Use Planning & Approvals Act 1993	\$815.00 plus \$175 per lot plus advertising fee
ADVERTISING FEE	\$280.00
Level 2 Environmental Activity – Additional charge to permit application	\$530.00 + advertising fee by quote
Please refer to www.warwyn.tas.gov.au (Council Services – Planning Services – Planning Fees) for all other fees	

Is a hard copy of planning permit and endorsed documents required? Yes No

1. Value of work (inc GST) \$ 450,000 Contract Price Estimate \$450,000
2. Development Address 276 RESERVOIR DRIVE
3. Full Name of Applicant(s) BRETT ANTHONY PERRY LYNDA MARY PERRY
- Contact Details: Address: P.O. BOX 394
- Email Address lynda.perry394@gmail.com Telephone 0459 516 444

For requests in hardcopy format all correspondence in relation to this application, will be sent to the contact address, otherwise all correspondence will be forwarded to the email address

4. Would you like the contact address recorded above to be applied for all future Council correspondence? (including rates/animal control etc)? Yes.....No.....
- 5.

Where the Applicant is not the Owner

In accordance with Section 52 of the Land Use Planning and Approvals Act 1993 if the applicant for the permit is not the owner of the land in respect of which the permit is required, the applicant must include in the application for the permit, a declaration that the applicant has notified the owner of the intention to make the application.

In the event that the property is owned or managed by the Crown or Council, this application is to be signed by the relevant Crown Minister responsible, or General Manager of the Council, and accompanied by written permission of the Minister/General Manager to the making of this application.

Owners Full Name

Address Telephone Work/Business

Crown Minister/General Manager Signature.....

Applicant's Notification to Owner

I
Full Name of Applicant(s)

of
Applicant's Address

Declare that I/we have notified the owner(s) of the property(ies) of the intention to make this application.
I/We understand that in accordance with Section 52(2) of the Land Use Planning and Approvals Act 1993 a person must not obtain or attempt to obtain a permit by wilfully making, or causing to be made, any false representation or declaration either orally or in writing.

Applicant's Signature(s)

6. Proposed Development (Fully describe intended use of land or premises)

TINY HOME AND SHED EXTENSION

7. Supporting Information if necessary to explain special features of the proposal. (Attach separate sheet if required)

To include –

a. One Copy (electronic copy if available) of any plan(s) and/or specification(s) for the proposed development, showing where applicable:

- i. Sufficient information to demonstrate compliance with all applicable standards, purpose statements in applicable zones and codes, any relevant local area objectives or desired future character statements;
- ii. a full description of the proposed use or development;
- iii. a full description of the manner in which the use or development will operate;
- iv. a site analysis and site plan at an acceptable scale;
- v. a detailed layout plan of the proposed buildings with dimensions at a scale of 1:100 or 1:200;
- vi. a plan of the proposed landscaping;
- vii. car parking facilities and capacity;
- viii. area of clearing of trees and bushland;
- ix. size, position, colour, illumination, fixing or support and other design details of advertising sign(s).

b. A full copy of your title shall also accompany the application.

Title Certificate

Title Plan

Schedule of Easements

c. Relevant engineering pre-lodgement approvals

Access

Stormwater

8. Present use of site and/or buildings – full description

9.

Car Parking

Floor Area

Existing on site

Existing

Total no. proposed

Proposed

Site Area.....m² Totalm²

Questions 10 to 13 relate to Commercial and industrial Uses and Development ONLY

10.	What days and hours of operation are proposed?		
	Monday to Friday:	From	a.m. to p.m.
	Saturday	From	a.m. to p.m.
	Sunday	From	a.m. to p.m.
11.	Number of Employees?		
	Existing.....		
Proposed.....			
12.	Vehicles visiting or delivering to or from the site?		Trips per day
	Type	No.	
13.	What type of machinery is to be installed or used		
	Type	No.	

Declaration By Applicant (Mandatory)

I declare that the information given is a true and accurate representation of the proposed development. I understand that the information and materials provided with the development application may be made available to the public. I understand that the Council may make such copies of the information and materials as in its opinion are necessary to facilitate a thorough consideration of the Permit Application. I have obtained the relevant permission of the copyright owner for the communication and reproduction of the plans accompanying the development application for the purposes of assessment of that application. I indemnify the Waratah-Wynyard Council for any claim or action taken against it in respect of breach of copyright in respect of any of the information or material provided.

I/We hereby acknowledge that Section 20(a) of the *Local Government Act 1993* provides the power for persons authorised by the General Manager to enter land without notice in relation to an application by the owner or occupier for a licence, permit or other approval given by the council.

Signature(s)
(all applicants to sign)

Brett
.....
WWS
.....

Date *21.3.2024*.....



SEARCH OF TORRENS TITLE

VOLUME 175267	FOLIO 4
EDITION 3	DATE OF ISSUE 26-Aug-2021

SEARCH DATE : 17-Jan-2023

SEARCH TIME : 09.53 AM

DESCRIPTION OF LAND

Parish of QUIGGIN Land District of WELLINGTON
 Lot 4 on Sealed Plan 175267
 Derivation : Part of Lot 66, 500 Acres, James Reid PUR.
 Prior CT 171848/5

SCHEDULE 1

M780675 & M910520 TRANSFER to MATHEW THOMAS WINSKILL
 Registered 26-Aug-2021 at 12.01 PM


SCHEDULE 2

Reservations and conditions in the Crown Grant if any
 SP175267 EASEMENTS in Schedule of Easements
 SP175267 FENCING PROVISION in Schedule of Easements
 SP171848 FENCING PROVISION in Schedule of Easements
 E270965 MORTGAGE to Commonwealth Bank of Australia
 Registered 26-Aug-2021 at 12.02 PM

UNREGISTERED DEALINGS AND NOTATIONS

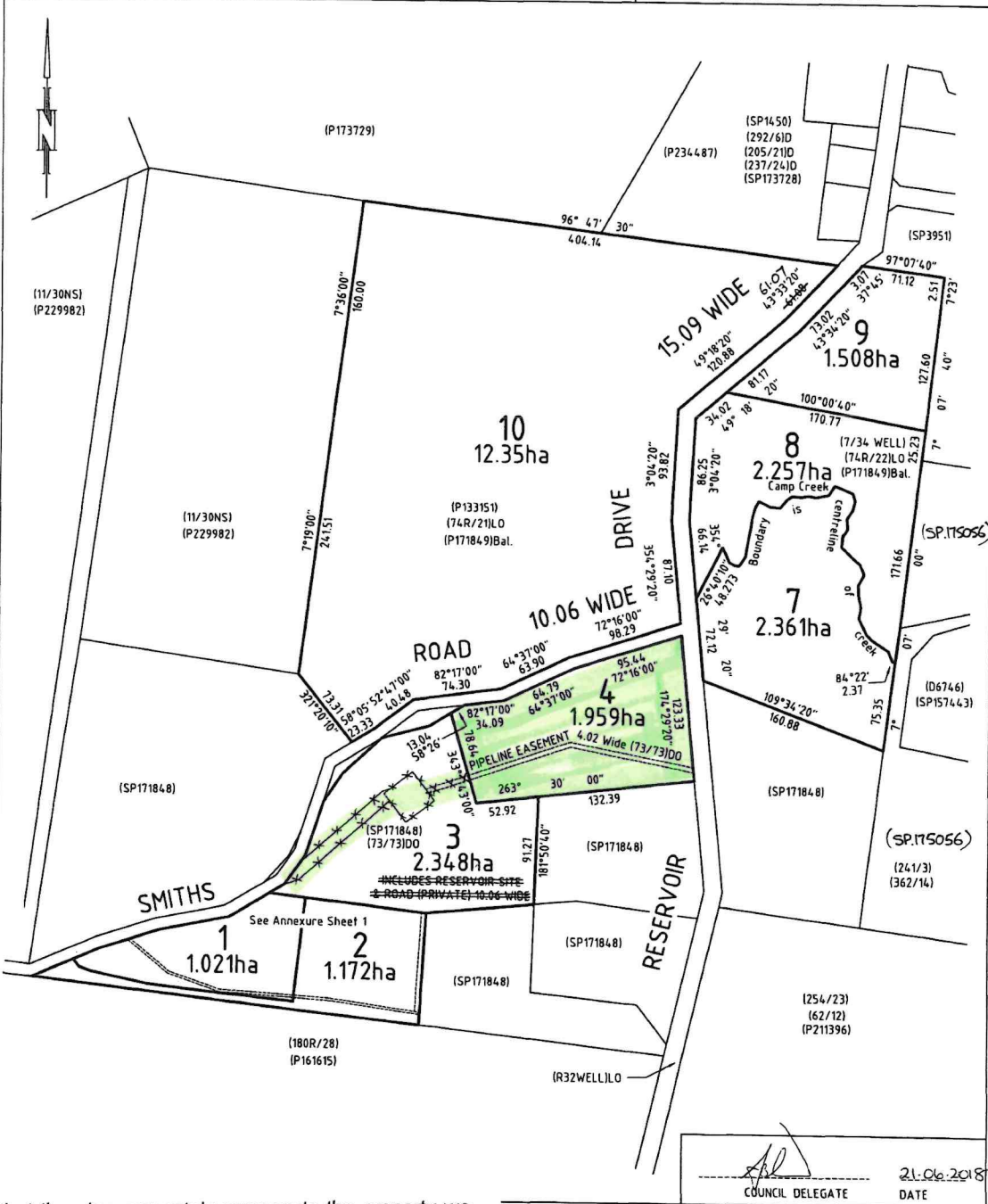
No unregistered dealings or other notations

We are satisfied that the plan accurately represents the property we agreed to purchase, and that all the measurements and location are correct, and that all improvements erected are within the boundaries, and we do not require a check survey

Signed: 

Signed: 

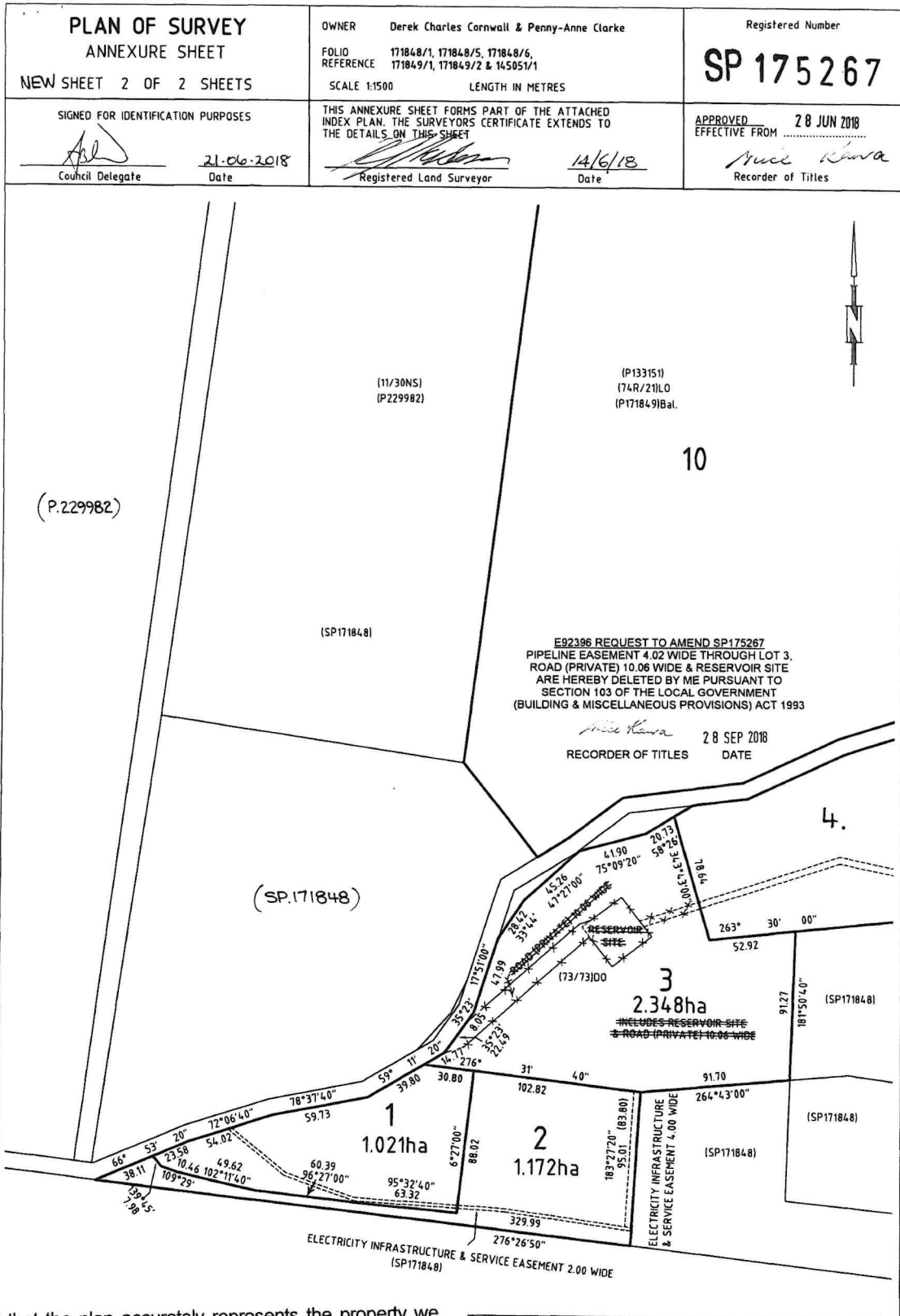
OWNER Derek Charles Cornwall & Penny-Anne Clarke	NEW PLAN OF SURVEY		Registered Number SP 175267
FOLIO REFERENCE 171848/5, 171848/6, 171849/1, 171849/2 & 145051/1	BY SURVEYOR A. J. HUDSON of PDA Surveyors 6 QUEEN STREET, BURNIE	LOCATION Land District of WELLINGTON Parish of QUIGGIN	APPROVED 28 JUN 2018
GRANTEE Part of Lot 66 500A-OR-0P James Reid PUR.	SCALE: 1:3000	LENGTHS IN METRES	SURVEYORS REF: B17184
MAPSHEET MUNICIPAL CODE No. (3845) 127	LAST UPI No	LAST PLAN P145051, No. SP171848, SP171849	ALL EXISTING SURVEY NUMBERS TO BE CROSS REFERENCED ON THIS PLAN



We are satisfied that the plan accurately represents the property we agreed to purchase, and that all the measurements and location are correct, and that all improvements erected are within the boundaries, and we do not require a check survey

Signed: *[Signature]*
Signed: *[Signature]*

Area according to Plan is 1.9590 ha
Area according to Council is 1.959 ha.



We are satisfied that the plan accurately represents the property we agreed to purchase, and that all the measurements and location are correct, and that all improvements erected are within the boundaries, and we do not require a check survey

Signed: *[Red X]*

Signed: *[Red X]*

SCHEDULE OF EASEMENTS	Registered Number
NOTE: THE SCHEDULE MUST BE SIGNED BY THE OWNERS & MORTGAGEES OF THE LAND AFFECTED. SIGNATURES MUST BE ATTESTED.	SP 175267

PAGE 1 OF 4 PAGES

EASEMENTS AND PROFITS

Each lot on the plan is together with:-

- (1) such rights of drainage over the drainage easements shown on the plan (if any) as may be necessary to drain the stormwater and other surplus water from such lot; and
- (2) any easements or profits a prendre described hereunder.

Each lot on the plan is subject to:-

- (1) such rights of drainage over the drainage easements shown on the plan (if any) as passing through such lot as may be necessary to drain the stormwater and other surplus water from any other lot on the plan; and
- (2) any easements or profits a prendre described hereunder.

The direction of the flow of water through the drainage easements shown on the plan is indicated by arrows.

EASEMENTS

Electricity Infrastructure and Service Easement


Lots 1 and 2 on the Plan are each subject to an Electricity Infrastructure and Service Easement (as defined herein) (appurtenant to Lot 7 on SP171848) as shown on the plan marked "Electricity Infrastructure and Service Easement 2.00 Wide".

Lot 1 on the Plan is together with an Electricity Infrastructure and Service Easement (as defined herein) as shown passing through Lot 2 on the plan marked "Electricity Infrastructure and Service Easement 2.00 Wide".

Lot 3 on the Plan is together with an Electricity Infrastructure and Service Easement (as defined herein) as shown passing through Lot 2 on the plan marked "Electricity Infrastructure and Service Easement 4.00 Wide".

Lot 2 on the Plan is subject to an Electricity Infrastructure and Service Easement (as defined herein) (appurtenant to Lot 1 on the Plan) as shown on the plan marked "Electricity Infrastructure and Service Easement 2.00 Wide".

(USE ANNEXURE PAGES FOR CONTINUATION)

SUBDIVIDER: DEREK CHARLES CORNWALL & PENNY-ANNE CLARKE FOLIO REF: CT 171848/6, CT 171848/5, 171849/1 & 2 and 145051/1 SOLICITOR: Greg Smith & Co REF: GS/pc18116	PLAN SEALED BY: WARATAH-WYNYARD COUNCIL DATE: 21-06-2018 SD 2047 REF NO.  Council Delegate
NOTE: The Council Delegate must sign the Certificate for the purposes of identification.	

We are satisfied that the plan accurately represents the property we agreed to purchase, and that all the measurements and location are correct, and that all improvements erected are within the boundaries, and we do not require a check survey

Signed: 

Signed: 

ANNEXURE TO SCHEDULE OF EASEMENTS PAGE 2 OF 4 PAGES	Registered Number SP 175267
SUBDIVIDER: DEREK CHARLES CORNWALL AND PENNY-ANNE CLARKE FOLIO REFERENCE: CT 171848/6, CT 171848/5, 171849/1 & 2 and 145051/1	

PAGE 2 OF 4 PAGES

Lot 2 on the Plan is subject to an Electricity Infrastructure and Service Easement (as defined herein) (appurtenant to Lot 3 on the Plan) as shown on the plan marked "Electricity Infrastructure and Service Easement 4.00 Wide".

Pipeline Easement

Lots ~~3~~ and 4 on the Plan ^{is} are subject to a right to lay waterpipes and to convey water and to pass and repass (for the Wynyard Council) over the Pipeline Easement 4.02 wide on the plan and as created by and more fully set forth in 34/2499.

Lots ~~3~~ and 4 on the Plan ^{is} are subject to a Pipeline right (for the Wynyard Council) over the Pipeline Easement 4.02 wide on the plan and as created by and more fully set forth in 34/2499.

Right of Carriageway

~~Lot 10 on the Plan is together with a Right of Carriageway over the Road (Private) 10.06 Wide and the Reservoir Site as shown on Lot 3 on the Plan and more fully set forth in P145051 (73/73 DO).~~

~~Lot 3 on the Plan is subject to a Right of Carriageway (appurtenant to Lot 10 on the Plan) over the Road (Private) 10.06 Wide and the Reservoir site as show on Lot 3 on the Plan and more fully set forth in P145051 (73/73 DO).~~

Definition:

Electricity Infrastructure and Service Easement means:

FIRSTLY the full and free right and liberty for Tasmanian Networks Pty Ltd ABN 24 167 357 299 ("TasNetworks) and its successors and its and their servants agents and contractors at all times hereafter to:

- a) clear the lands marked "Electricity Infrastructure and Service Easement 2.00 Wide" (hereinafter called "servient land") and to lay, erect, construct, install and operate, in, upon, over, along and under the servient land towers, poles, wires, cables, apparatus, appliances and other ancillary and other ancillary work (hereinafter collectively called "electricity infrastructure") for the transmission of electrical energy and for purposes incidental thereto.
- b) inspect, maintain, repair, modify, add to, replace and remove the electricity infrastructure.

Signed by Derek Charles Cornwall)
 and Penny-Anne Clarke the registered)
 proprietor of the land in CT 171848/6,)
 CT 171848/5, CT 171849/1, CT 171849/2)
 and CT 145051/1 in the)
 presence of:)

)
 Derek Charles Cornwall)

)
 Penny-Anne Clarke)

NOTE: Every annexed page must be signed by the parties to the dealing or where the party is a corporate body be signed by the persons who have attested the affixing of the seal of that body to the dealing.

Road (private) 10.06 wide and Reservoir Site and portion of Pipeline Easement 4.02 wide over Lot 3 hereon deleted by me pursuant to Request to Amend No. E92396 made under Section 103 of the Local Government (Building & Miscellaneous Provisions) Act 1993

Alice Kawa
Recorder of Titles

28 / 9 / 2018

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Signed:
 Signed:

ANNEXURE TO SCHEDULE OF EASEMENTS PAGE 3 OF 4 PAGES	Registered Number SP 175267
SUBDIVIDER: DEREK CHARLES CORNWALL AND PENNY-ANNE CLARKE FOLIO REFERENCE: CT 171848/6, CT 171848/5, 171849/1 & 2 and 145051/1	

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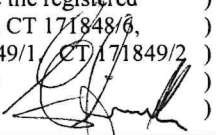
- c) cause or permit electrical energy to flow or be transmitted or distributed through the electricity infrastructure.
- d) cut away, remove and keep clear of the electricity infrastructure all trees and other obstructions or erections of any nature whatsoever which may at any time overhand, encroach upon or be in or on the servient land and which may in the opinion of TasNetworks or its successors endanger or interfere with the proper operation of the electricity infrastructure.
- e) enter into and upon the servient land for all or any of the above purposes with or without all necessary plant equipment and machinery and other mean of transporting the same and if necessary to cross the remainder of the land in consultation with the registered proprietors for the purposes of access and regress to and from the servient land.

SECONDLY the benefit of a covenant for TasNetworks and its successors with the registered proprietors for themselves and their successors in title not to erect any buildings or place any structures or objects within the servient land without the prior written consent of TasNetworks or its successors to the intent that the burden of the covenant may run with and bind the servient land and every part thereof and that the benefit thereof may be annexed to the easement hereinbefore described.

THIRDLY the full and free right of the registered proprietor of Lot 7 and their servants agents and contractors at all times hereafter to:

- a) break the surface of, dig, open up and use the servient land;
- b) construct, lay under the surface of the servient land and use ducts, pipes, conductors, cables wires and other works;
- c) construct, lay on or above the surface of the servient land and use incidental or ancillary works for the transmission of an electronic communications service, including manholes and cable markers; and
- d) inspect, take up, maintain, repair, alter, remove, relay or replace works referred to in paragraphs a), b) or c)

Signed by Derek Charles Cornwall)
 and Penny-Anne Clarke the registered)
 proprietor of the land in CT 171848/6,)
 CT 171848/5, CT 171849/1, CT 171849/2)
 and CT 145051/1 in the)
 presence of:)



.....
 Derek Charles Cornwall

.....
 Penny-Anne Clarke

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We are satisfied that the plan accurately represents the property we agreed to purchase, and that all the measurements and location are correct, and that all improvements erected are within the boundaries, and we do not require a check survey

Signed:

Signed:

ANNEXURE TO SCHEDULE OF EASEMENTS PAGE 4 OF 4 PAGES	Registered Number SP 175267
SUBDIVIDER: DEREK CHARLES CORNWALL AND PENNY-ANNE CLARKE FOLIO REFERENCE: CT 171848/6, CT 171848/5, 171849/1 & 2 and 145051/1	

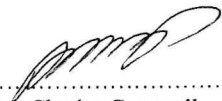
PAGE 4 OF 4 PAGES

for the purpose of supplying or conveying an electronic communications service and to enter on and pass along or over the servient land (with or without a vehicle or equipment) to do so.

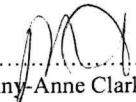
Fencing Provision

In respect to the Lots 1 to 4 and Lots 7 to 10 (inclusive) on the plan, the Vendor Derek Charles Cornwall and Penny-Anne Clarke shall not be required to fence.


Signed by Derek Charles Cornwall)
 and Penny-Anne Clarke the registered)
 proprietor of the land in CT 171848/6,)
 CT 171848/5, CT 171849/1, CT171849/2)
 and CT 145051/1 in the)
 presence of:)



 Derek Charles Cornwall



 Penny-Anne Clarke



 Gregory Stephen Smith
 124 Goldie Street, Wynyard
 Solicitor

NOTE: Every annexed page must be signed by the parties to the dealing or where the party is a corporate body be signed by the persons who have attested the affixing of the seal of that body to the dealing.

We are satisfied that the plan accurately represents the property we agreed to purchase, and that all the measurements and location are correct, and that all improvements erected are within the boundaries, and we do not require a check survey

Signed: *Y*.....

Signed: *Y*.....

15 March 2024

Reference No. GL24029Ab

Mr Brett and Mrs Lyndal Perry
PO Box 394
WYNYARD TAS 7325

Dear Sir and Madam

**RE: Site Classification & On-site Wastewater Disposal Assessment and Design
276 Reservoir Drive, Wynyard**

We have pleasure in submitting herein our report detailing the results of the geotechnical investigation conducted at the above site.

Should you require clarification of any aspect of this report, please contact Michael Goss on 03 6326 5001.

For and on behalf of

Geoton Pty Ltd



Tony Barriera

Director – Principal Geotechnical Engineer

Rev No.	Date	Written By	Reviewed By	Description
Ab	15/03/2024	Michael Goss	M. Banks	Original

1 INTRODUCTION

A limited scope investigation has been conducted for Mr Brett and Mrs Lyndal Perry at the site of a proposed residential development at 276 Reservoir Drive, Wynyard.

The investigation has been conducted to assess the following:

- The general subsurface conditions at the site and consequently assign a Site Classification in accordance with AS 2870 – 2011 “Residential Slabs and Footings”;
- Review the topographical setting and provide a Wind Classification in accordance with AS 4055 – 2021 “Wind Loads for Housing”; and
- The suitability of the site for disposal of domestic wastewater and the design of an on-site wastewater disposal system in accordance with AS/NZS 1547:2012 “On-site Domestic Wastewater Management”.

Plans of the proposed development were provided, prepared by Rosene Cox Building Design & Drafting. Project No. 2324-19, page No. s A01 and A02, dated 07.02.24.

We understand that the proposed development will comprise an extension to the existing shed and the construction of a two-bedroom equivalent dwelling. Further we understand that the existing shed will be converted to a storage space and will no longer be habitable though it is noted that a lavatory will be maintained within the shed.

2 FIELD INVESTIGATION

The field investigation was conducted on 15 February 2024 and involved the drilling of 3 boreholes by hand auger to the refusal depths of 0.4m to 0.9m.

In situ vane shear strength tests were conducted in the clay layers encountered in the investigation, with samples of these soils being obtained for subsequent laboratory testing.

The results of the field and laboratory tests are shown on the borehole logs.

The logs of the boreholes are included in Appendix A and their locations are shown in Figure 1 attached.

3 SITE CONDITIONS

The development area is generally level and contains an existing shed and gravel driveway with a low patchy cover of grass. The wider site falls steeply away from the development area at approximately 22° to 24° towards the south, and 26° to 28° towards the north and east. Site vegetation comprises a dense cover of trees and scrub.

Site photographs are attached as Plates 1 & 2.

The MRT Digital Geological Atlas, 1: 25,000 Series, indicates that the site is mapped as Pennsylvanian period sedimentary rocks, with this being generally confirmed by our field investigation.

Examination of the LIST Landslide Planning Map – Landslide Hazard Bands Overlay indicates that portions of the site are within mapped low to medium risk landslide hazard bands.

The investigation indicated that the soil profile varies over the site. Boreholes BH1 and BH2 encountered fill comprising clayey silt/silty clay to the depths of 0.2m to 0.6m, underlain by sandy clay to the investigated/refusal depths of 0.8m to 0.9m. Borehole BH3 encountered sandy clay to the refusal depth of 0.4m.

Auger refusal in the boreholes was inferred to be on highly weathered rock.

The boreholes did not encounter any signs of groundwater seepage over the investigated depths.

Full details of soil conditions encountered are presented on the borehole logs.

4 SITE CLASSIFICATION

After allowing due consideration of the site geology, drainage and soil conditions, and the presence of fill to depths greater than 0.4m, the site has been classified as follows:

CLASS P (AS 2870)

However, if all footings are founded through the fill to found uniformly on the natural sandy clay, footings may be proportioned to a **CLASS M**.

Foundation designs in accordance with this classification are to be subject to the overriding conditions of the Foundations section below.

This classification is applicable only for ground conditions encountered at the time of this investigation. If cut or fill earthworks are carried out, then the site classification will need to be re-assessed, and possibly changed.

5 FOUNDATIONS

Particular attention should be paid to the design of footings as required by AS 2870 – 2011.

In addition to normal founding requirements arising from the above classification, particular conditions at this site dictate that the founding medium for all footings would be as follows:

Sandy CLAY (CI) – medium plasticity, brown

encountered beneath the fill and topsoil below 0.2m (BH1) and 0.6m (BH2) from the existing ground surface

An allowable bearing pressure of **100kPa** is available for edge beams, strips, pads and bored piers founded as above.

No structure should be founded on fill without the footings extending through the fill to the natural soils.

The site classification presented assumes that the current natural drainage and infiltration conditions at the site will not be markedly affected by the proposed site

development work. Care should therefore be taken to ensure that surface water is not permitted to collect adjacent to the structure and that significant changes to seasonal soil moisture equilibria do not develop as a result of service trench construction or tree root action.

Attention is drawn to Appendix B of AS 2870 and CSIRO Building Technical File BTF18 “Foundation Maintenance and Footing Performance: A Homeowner’s Guide” as a guide to maintenance requirements for the proposed structure.

Although the borehole data provides an indication of subsurface conditions at the site, variations in soil conditions may occur in areas of the site not specifically covered by the field investigation. The base of all footing or beam excavations should therefore be inspected to ensure that the founding medium meets the requirements referenced herein with respect to type and strength of founding material.

The boreholes were backfilled shortly after being drilled, not allowing time for groundwater seepage flows to develop. Groundwater seepages or higher groundwater levels can occur during and/or after a prolonged period of wet weather or a heavy rainfall event.

6 PLUMBING

Classification for foundations was **Class P** due to the presence of uncontrolled fill. However, the encountered fill was stiff and provided there is no loading around the plumbing pipework, the plumbing can be installed proportioned to **Class M**.

If during plumbing trench excavations, soft or loose ground is encountered, it is recommended the plumbing trenches be excavated to natural ground and backfilled with granular material to the invert level of the pipework.

7 WIND CLASSIFICATION

After allowing due consideration of the region, terrain, shielding and topography, the site has been classified as follows:

WIND CLASSIFICATION N3 (AS 4055)

REGION	TERRAIN CATEGORY	SHIELDING	TOPOGRAPHY
A	TC2	NS	T1

8 EFFLUENT DISPOSAL

The AS/NZS 1547:2012 and *Building Act 2016: Director's Guidelines for On-site Wastewater Management Systems* provide guidelines for typical wastewater flow allowances under a range of circumstances. The documents recommend a typical wastewater flow of 120L/person/day for households on tank water. As the proposed development is to be a two-bedroom equivalent dwelling (with one-bedroom and an office), a population equivalent of 4 persons has been adopted and a wastewater design flow rate of **480L/day** has been adopted.

8.1 Permeability of Soil and Soil Category

The soil has been classified as follows:

- Texture – Medium to Heavy Clay (Table E1 from AS/NZS 1547);
- Structure – Moderately Structured (Table E4 from AS/NZS 1547); and
- Category – 6 (Table E1 from AS/NZS 1547).

For moderately structured Category 6 soils the indicative K_{sat} from AS/NZS1547 Table 5.1 is $<0.06\text{m/day}$.

- Adopted Permeability – 0.02m/day .

8.2 Disposal and Treatment Method

The soils within the proposed effluent disposal area are assessed as having sufficient depth and clay content to provide an adequate attenuation period for the breakdown of pathogens within the treated effluent.

Due to the soils being assessed as Category 6 soils that have a very low permeability, the site is not suitable for a conventional trench or bed system. Also, the site has limited available area for the disposal of on-site wastewater due to the steep slopes and required setbacks.

As such, the site assessment indicates that the site is suitable for the disposal of domestic effluent by way of an Aerated Wastewater Treatment System (AWTS) and a conventional distribution bed raised above the natural ground surface to allow the aerobic process and attenuation period to further treat the effluent in a sand and gravel filter bed and reduce the size of the disposal system.

8.3 Tank Installation

Should the site be subject to high groundwater levels, care **must** be taken when installing the AWTS unit. 'AS/NZS 1546:2008 3.2.2 Anchorage' and the specific AWTS unit manufacturer's installation instructions should be adhered to.

8.4 Design Loading Rate

According to AS/NZS 1547 Table L1 and based on the importation of 350mm depth of clean sand and 100mm aggregate to raise the distribution bed above the natural surface, the adopted DLR has been modified and set at **10mm/day**.

8.5 Absorption Bed System

Guidelines for the design of the conventional bed systems are outlined in AS/NZS 1547:2012 Appendix L. The method of determining the dimensions for the bed is outlined in AS/NZS 1547:2012 Section L4 and is as follows:

$$L = \frac{Q}{\text{DLR} \times W}$$

Where L = Length in metres

Q = Design daily flow in L/day

DLR = Design Loading Rate in mm/day

W = Bed width in metres

As the DLR has been set at 10mm/day and the daily flow (Q) has been set at 480L/day, when the parameters are inserted in the above equation the bed dimensions required are as follows:

- Bed length = 9.6m
- Bed width = 5.0m
- Bed depth = 0.6m

This would give a disposal area of approximately 48m².

There is adequate secondary (back-up) area of 48m².

The raised bed is to be located in the area shown on the site plan (Figure 2).

The bed is to be constructed as per the layout and cross section provided on Figure 3 attached.

The raised bed is to be constructed by persons suitably qualified or experienced in the construction of timber retaining walls.

All topsoil and organic matter are to be removed from the footprint of the raised bed prior to backfilling.

Guidelines for the design of sub-surface irrigation are outlined in AS/NZS 1547 Appendix M.

The area of the disposal field shall be vegetated with grasses or other suitable vegetation. A list of Tasmanian plants suitable for treated wastewater from AWTS units is attached as Appendix B.

The risk management process is an inherent part of the on-site wastewater disposal design. The on-site wastewater disposal system has been designed by considering the site characteristics and with risk identification in accordance with AS1547:2012. The risk reduction measures are detailed in the report and form the basis of the system selection and design.

As part of the Building Act, the client must specify the AWTS model and provide the Certificate of Accreditation for that particular model before the proposed

development gets approval. A list of accredited AWTS models can be found on the Tasmanian Consumer, Building and Occupational Services website.

<https://www.cbos.tas.gov.au/topics/technical-regulation/plumbing-standards/wastewater/aerated-wastewater-treatment-systems>

8.6 Setbacks

The minimum separation distances between the disposal area and downslope features are based on Appendix R from AS/NZS 1547 “Recommended Setback Distances for Land Application Systems” and Section 3.1 from the *Building Act 2016: Director’s Guidelines for On-site Wastewater Management Systems*. The following minimum setbacks are required:

- 15m from downslope sensitive features such as watercourses;
- 1.5m from property boundaries;
- 3.0m from buildings; and
- 3.0m from downslope cut and fill batters.

8.7 Wastewater Recommendations

It is recommended that the following actions are undertaken in looking after your system:

- Minimise domestic water use;
- Minimise the use of non-biodegradable detergents;
- Minimise the use of detergents containing phosphorous (e.g. Calgon or similar);
- Avoid discharging polluting chemicals into wastewater systems; and
- Monitor quality of groundwater.

9 REFERENCES

Department of Justice. (2017). *Building Act 2016 Director’s Guidelines for On-site Wastewater Management Systems v2.0*. Consumer, Building and Occupational Services.

Standards Australia Limited. (2011). *AS 2870: Residential Slabs and Footings Construction*. Sydney: SAI Global Limited.

Standards Australia Limited. (2012). *AS/NZS 1547 On-site Domestic Wastewater Management*. Sydney: SAI Global Limited.

Standards Australia Limited. (2017). *AS 1726: Geotechnical Site Investigation*. Sydney: SAI Global Limited.

Standards Australia Limited. (2021). *AS 4055: Wind Loads for Housing*. Sydney: SAI Global Limited.

Attachments:

Limitations of report

Figure 1 – Locality Plan

Figure 2 – Site Plan

Figure 3 – Conventional Bed Plan and Section

Site Photographs

Appendix A: Borehole Logs & Explanation Sheets

Appendix B: List of AWTS Example Plants

Appendix C: Certificate Forms

Geotechnical Consultants - Limitations of report

These notes have been prepared to assist in the interpretation and understanding of the limitations of this report.

Project specific criteria

The report has been developed on the basis of unique project specific requirements as understood by Geoton and applies only to the site investigated. Project criteria are typically identified in the Client brief and the associated proposal prepared by Geoton and may include risk factors arising from limitations on scope imposed by the Client. The report should not be used without further consultation if significant changes to the project occur. No responsibility for problems that might occur due to changed factors will be accepted without consultation.

Subsurface variations with time

Because a report is based on conditions which existed at the time of subsurface exploration, decisions should not be based on a report whose adequacy may have been affected by time. For example, water levels can vary with time, fill may be placed on a site and pollutants may migrate with time. In the event of significant delays in the commencement of a project, further advice should be sought.

Interpretation of factual data

Site assessment identifies actual subsurface conditions only at those points where samples are taken and at the time they are taken. All available data is interpreted by professionals to provide an opinion about overall site conditions, their likely impact on the proposed development and recommended actions. Actual conditions may differ from those inferred to exist, as it is virtually impossible to provide a definitive subsurface profile which includes all the possible variabilities inherent in soil and rock masses.

Report Recommendations

The report is based on the assumption that the site conditions as revealed through selective point sampling are indicative of actual conditions throughout an area. This assumption cannot be substantiated until earthworks and/or foundation construction is almost complete and therefore the report recommendations can only be regarded as preliminary. Where variations in conditions are encountered, further advice should be sought.

Specific purposes

This report should not be applied to any project other than that originally specified at the time the report was issued.

Interpretation by others

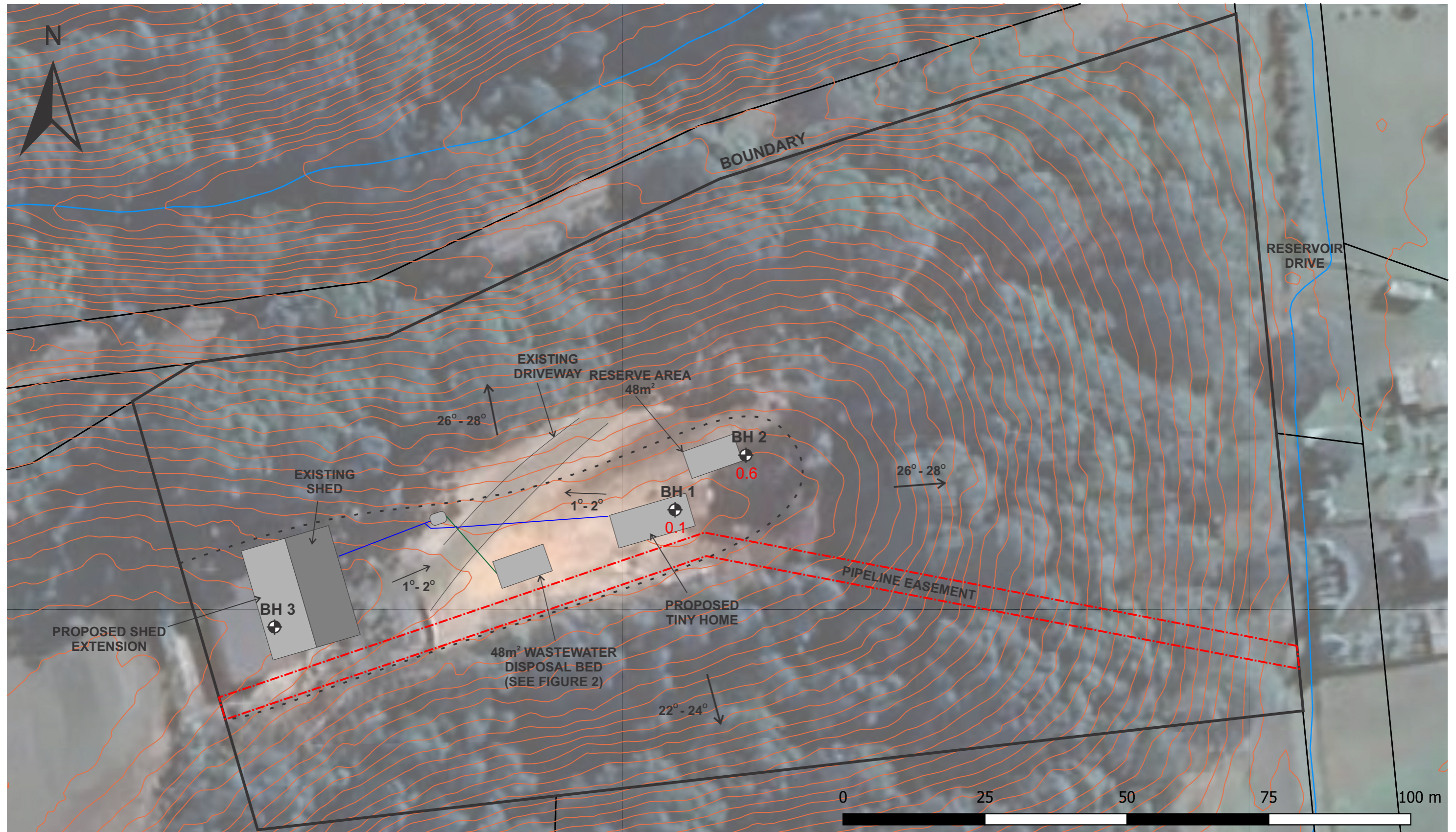
Geoton will not be responsible for interpretations of site data or the report findings by others involved in the design and construction process. Where any confusion exists, clarification should be sought from Geoton.

Report integrity

The report as a whole presents the findings of the site assessment and the report should not be copied in part or altered in any way.

Geoenvironmental issues

This report does not cover issues of site contamination unless specifically required to do so by the client. In the absence of such a request, Geoton take no responsibility for such issues.



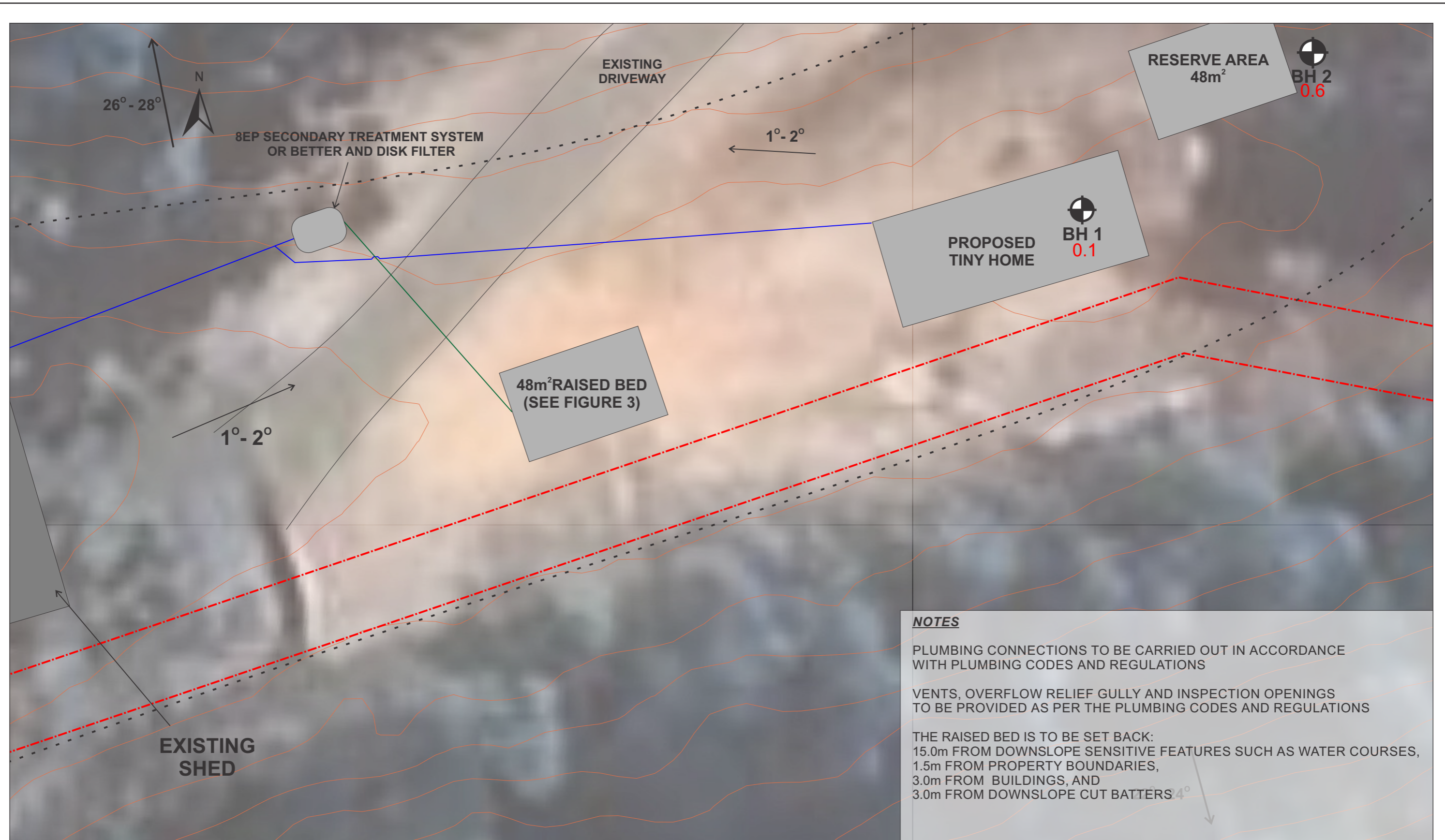
Legend

- BH 1 Approximate Borehole Location
- 0.8 Approximate Depth of FILL (m)
- 5° Approximate Slope angle in Degrees
- Approximate Change In Slope
- Contour in Metres (LiDAR Derived)
- Cadastral Parcels
- Hydrographic Lines

GEOTON Pty Ltd

Date	15/03/2024	Drawn	MG
Scale	As Shown	Approved	TB
Original size	A3	Rev	

Client:	MR BRETT AND MRS LYNDAL PERRY		
Project:	276 RESERVOIR DRIVE WYNYARD		
Title:	LOCALITY PLAN		
Project no:	GL24029A	Figure no.	1



NOTES

PLUMBING CONNECTIONS TO BE CARRIED OUT IN ACCORDANCE WITH PLUMBING CODES AND REGULATIONS

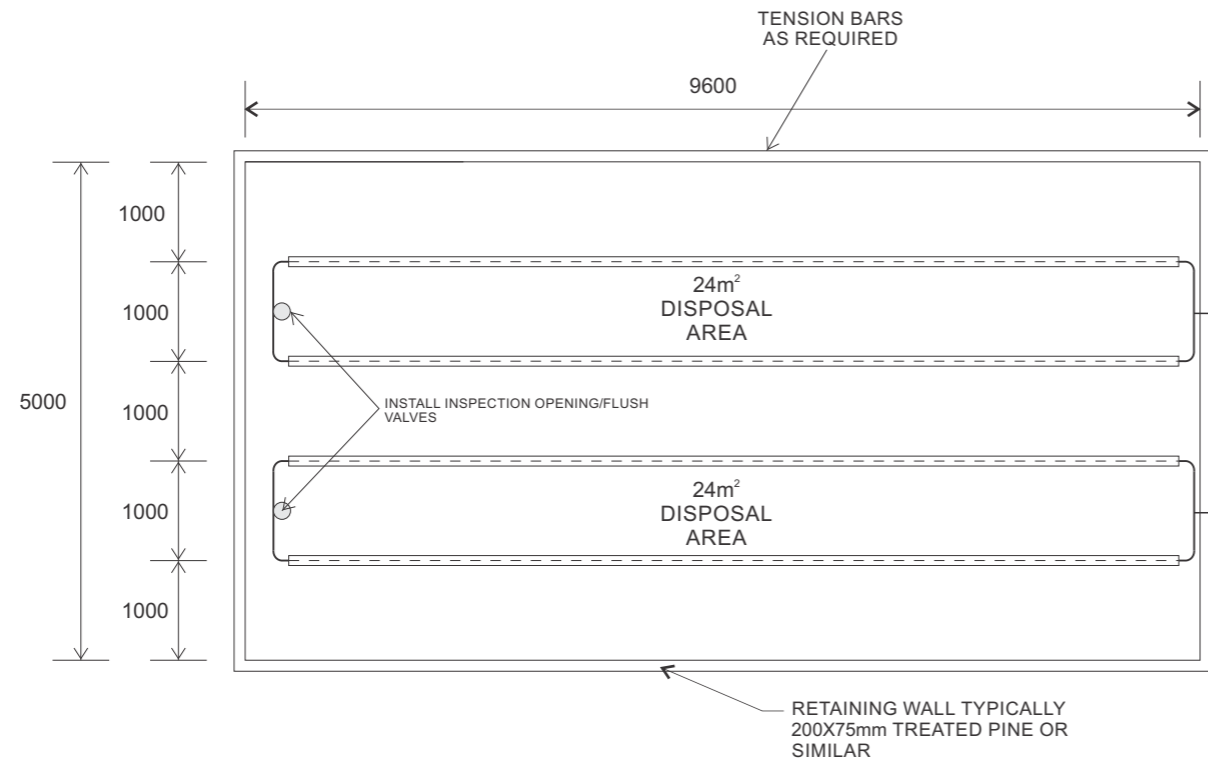
VENTS, OVERFLOW RELIEF GULLY AND INSPECTION OPENINGS TO BE PROVIDED AS PER THE PLUMBING CODES AND REGULATIONS

THE RAISED BED IS TO BE SET BACK:
 15.0m FROM DOWNSLOPE SENSITIVE FEATURES SUCH AS WATER COURSES,
 1.5m FROM PROPERTY BOUNDARIES,
 3.0m FROM BUILDINGS, AND
 3.0m FROM DOWNSLOPE CUT BATTERS 4°

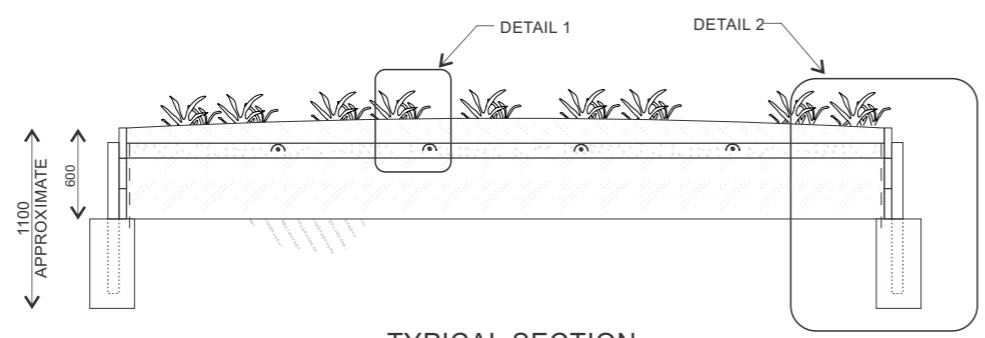
Legend

- BH 1 Approximate Borehole Location
- Contour in Metres (LiDAR Derived)
- 0.8 Approximate Depth of FILL (m)
- 5° Approximate Slope angle in Degrees
- - - Approximate Change In Slope

GEOTON Pty Ltd				Client: MR BRETT AND MRS LYNDAL PERRY	
				Project: 276 RESERVOIR DRIVE WYNYARD	
Date	15/03/2024	Drawn	MG	Title: SITE PLAN	
Scale	1:200	Approved	TB	Project no: GL24029A	
Original size	A3	Rev		Figure no.	2



PLAN
SCALE 1:75 @ A3

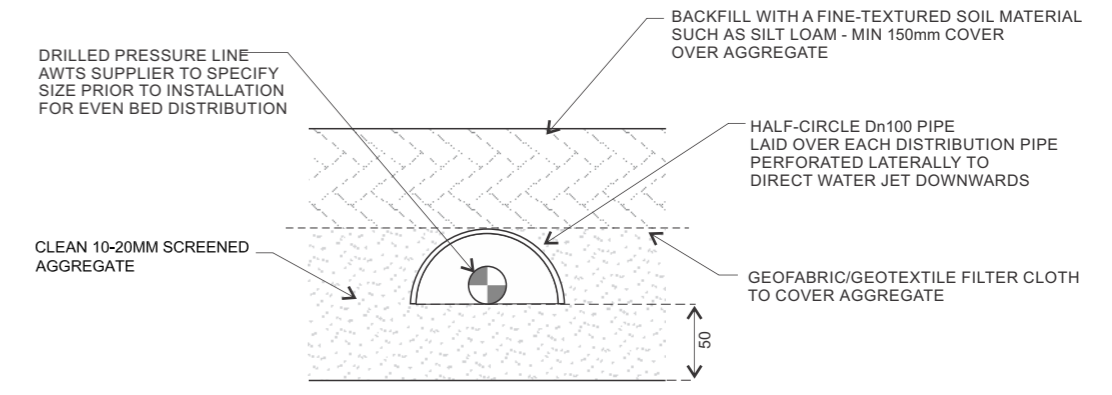


TYPICAL SECTION
SCALE 1:50 @ A3

CONSTRUCTION NOTES:

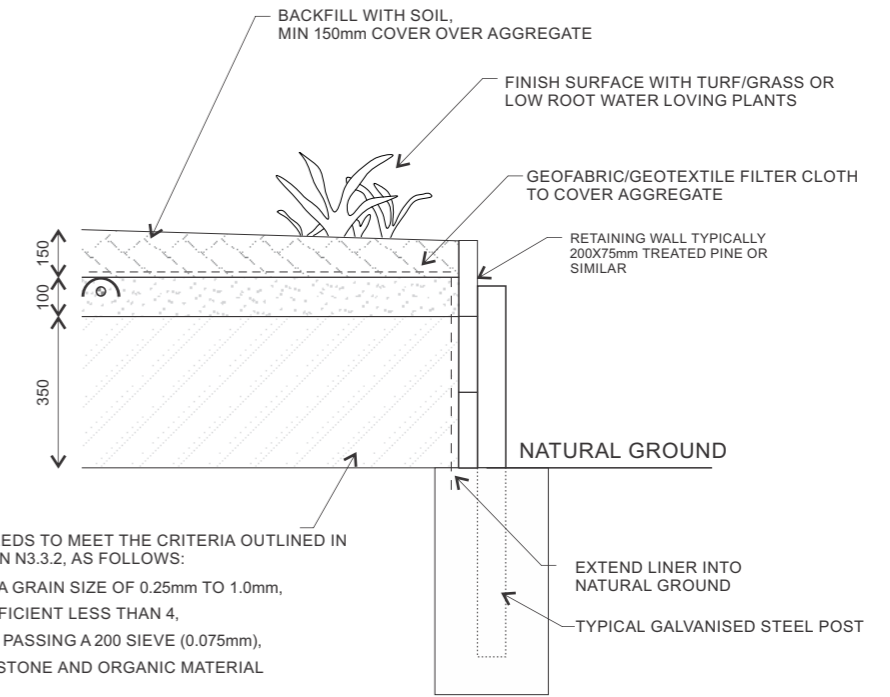
- a) Pine sleepers to be a minimum 75mm and a minimum rating of H4.
- b) Posts are recommended to be anchored a minimum ratio of 1:1 height to depth cemented into natural ground.
- c) Maximum height of timber retaining wall should not exceed 1m.
- d) Posts are recommended to be of steel construction or 75mm treated pine sleeper.
- e) Posts are to be installed on the outside of bed.
- f) Maximum post spacing is to be no more than 2400mm.
- g) Polyethylene Lining LDPE 200um.
- h) Polyethylene liner to be extended into natural ground by a minimum 200mm prior to backfilling.
- i) Timber sleepers to be treated with a bitumen waterproofing on the exterior if backfilled around.
- j) Bed distribution lines MUST enter the beds from the top (pipe work to be attached to the exterior of bed).
- k) Organic matter MUST be removed from base of bed prior to backfilling.
- l) Base of the bed is to be scarified and had gypsum applied at a rate of 1kg/m².

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DETAIL 1
SCALE 1:5 @ A3

DISPOSAL AREAS TO BE DOSE LOADED VIA K-RAIN DISTRIBUTION ROTOR VALVE OR SIMILAR. TO BE CONFIRMED BY INSTALLER



DETAIL 2
SCALE 1:20 @ A3

THE SAND-FILL MEDIA NEEDS TO MEET THE CRITERIA OUTLINED IN AS/NZS 1547:2012 SECTION N3.3.2, AS FOLLOWS:

- a) MEDIUM SAND WITH A GRAIN SIZE OF 0.25mm TO 1.0mm,
- b) A UNIFORMITY COEFFICIENT LESS THAN 4,
- c) LESS THAN 3% FINES PASSING A 200 SIEVE (0.075mm),
- d) FREE OF CLAY, LIMESTONE AND ORGANIC MATERIAL

GEOTON Pty Ltd				client:	MR BRETT AND MRS LYNDAL PERRY	
				project:	276 RESERVOIR DRIVE WYNYARD	
date	15/03/2023	drawn	MG	title:	RAISED BED PLAN AND SECTION	
scale	As Shown	approved	TB	project no:	GL24029A	figure no. 3
original size	A3	rev				



PLATE 1 - View of the existing shed looking to the west



PLATE 2 - View of the proposed tiny house footprint looking to the east

GEOTON Pty Ltd				client: MR BRETT AND MRS LYNDAL PERRY		
				project: 276 RESERVOIR DRIVE WYNYARD		
title: PHOTOGRAPH						
date:	15/02/2024	original size	A4	project no:	GL24029A	figure no. PLATES 1 & 2

Appendix A

Borehole Logs

Geotechnical Consultants

PO Box 522 Prospect TAS 7250
Unit 24, 16-18 Goodman Court, Invermay TAS
Tel (03) 6326 5001

Borehole no. BH1
Sheet no. 1 of 1
Job no. GL24029A

Client : Mr Brett and Mrs Lyndal Perry Date : 15/02/2024
Project : Site Classification and On-site Wastewater Disposal Assessment Logged By : MG
Location : 276 Reservoir Drive, Wynyard

Drill model : Hand Auger Easting: Slope: 90° RL Surface :
Hole diameter : 55mm Northing: Bearing: - Datum :

Method	Support	Penetration	Water	Notes Samples Tests	Depth (m)	Graphic log Classification Symbol	Material Description	Moisture condition	Consistency density, index	Structure, additional observations
HA	N			D	0.25	CI	FILL - Sandy CLAY, low plasticity, pale orange/pale brown	D	VSt/H	FILL/DISTURBED
					0.50		Sandy CLAY - medium plasticity, brown, trace fine sub-angular gravel	D/M	VSt/H	NATURAL
					0.75					V > 140 kPa / Refusal
					1.00		Borehole BH1 refusal @ 0.9m on inferred highly weathered rock			V > 140 kPa
					1.25					
					1.50					
					1.75					
					2.00					
					2.25					

Geotechnical Consultants

PO Box 522 Prospect TAS 7250

Unit 24, 16-18 Goodman Court, Invermay TAS

Tel (03) 6326 5001

Borehole no. BH2

Sheet no. 1 of 1

Job no. GL24029A

Client :		Mr Brett and Mrs Lyndal Perry				Date :		15/02/2024		
Project :		Site Classification and On-site Wastewater Disposal Assessment				Logged By :		MG		
Location :		276 Reservoir Drive, Wynyard								
Drill model :		Hand Auger		Easting:		Slope: 90°		RL Surface :		
Hole diameter :		55mm		Northing:		Bearing: -		Datum :		
Method	Support	Penetration	Water	Notes Samples Tests	Depth (m)	Graphic log Classification Symbol	Material Description	Moisture condition	Consistency density, index	Structure, additional observations
HA	N				0.25		FILL - Clayey SILT/Silty CLAY, low plasticity, dark brown/black mottled brown	M	F/St	FILL/DISTURBED
					0.50					
					0.75					
					1.00	CI	Sandy CLAY - medium plasticity, brown, trace fine sub-angular gravel	D/M	MD	NATURAL W < PL
					1.25		Borehole BH2 refusal @ 0.8m on inferred highly weathered rock			
					1.50					
					1.75					
					2.00					
					2.25					

Geotechnical Consultants

PO Box 522 Prospect TAS 7250

Unit 24, 16-18 Goodman Court, Invermay TAS

Tel (03) 6326 5001

Borehole no. BH3

Sheet no. 1 of 1

Job no. GL24029A

Client :		Mr Brett and Mrs Lyndal Perry				Date :		15/02/2024		
Project :		Site Classification and On-site Wastewater Disposal Assessment				Logged By :		MG		
Location :		276 Reservoir Drive, Wynyard								
Drill model :		Hand Auger		Easting:		Slope: 90°		RL Surface :		
Hole diameter :		55mm		Northing:		Bearing: -		Datum :		
Method	Support	Penetration	Water	Notes Samples Tests	Depth (m)	Graphic log Classification Symbol	Material Description	Moisture condition	Consistency density, index	Structure, additional observations
HA	N				0.25	CI	Sandy CLAY - medium plasticity, brown, trace fine sub-angular gravel	D/M	VSt	NATURAL W < PL
					0.50		Borehole BH3 refusal @ 0.4m on inferred highly weathered rock			V = refusal
					0.75					
					1.00					
					1.25					
					1.50					
					1.75					
					2.00					
					2.25					

Investigation Log Explanation Sheet

METHOD – BOREHOLE

TERM	Description
AS	Auger Screwing*
AD	Auger Drilling*
RR	Roller / Tricone
W	Washbore
CT	Cable Tool
HA	Hand Auger
DT	Diatube
B	Blank Bit
V	V Bit
T	TC Bit

* Bit shown by suffix e.g. ADT

METHOD – EXCAVATION

TERM	Description
N	Natural exposure
X	Existing excavation
H	Backhoe bucket
B	Bulldozer blade
R	Ripper
E	Excavator




SUPPORT

TERM	Description
M	Mud
N	Nil
C	Casing
S	Shoring

PENETRATION

1	2	3	4	
				No resistance ranging to Refusal

WATER

Symbol	Description
	Water inflow
	Water outflow
	17/3/08 water on date shown

NOTES, SAMPLES, TESTS

TERM	Description
U ₅₀	Undisturbed sample 50 mm diameter
U ₆₃	Undisturbed sample 63 mm diameter
D	Disturbed sample
N	Standard Penetration Test (SPT)
N*	SPT – sample recovered
N _c	SPT with solid cone
V	Vane Shear
PP	Pocket Penetrometer
P	Pressurimeter
B _s	Bulk sample
E	Environmental Sample
R	Refusal
DCP	Dynamic Cone Penetrometer (blows/100mm)
PL	Plastic Limit
LL	Liquid Limit
LS	Linear Shrinkage

CLASSIFICATION SYMBOLS AND SOIL DESCRIPTION

Based on AS 1726:2017

MOISTURE

TERM	Description
D	Dry
M	Moist
W	Wet

CONSISTENCY/DENSITY INDEX

TERM	Description
VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fr	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	Very dense

Soil Description Explanation Sheet (1 of 2)

DEFINITION

In engineering terms, soil includes every type of uncemented or partially cemented inorganic or organic material found in the ground. In practice, if the material can be remoulded or disintegrated by hand in its field condition or in water it is described as a soil. Other materials are described using rock description terms.

CLASSIFICATION SYMBOL AND SOIL NAME

Soils are described in accordance with the AS 1726: 2017 as shown in the table on Sheet 2.

PARTICLE SIZE DEFINITIONS

NAME	SUBDIVISION	SIZE (mm)
BOULDERS		>200
COBBLES		63 to 200
GRAVEL	Coarse	19 to 63
	Medium	6.7 to 19
	Fine	2.36 to 6.7
SAND	Coarse	0.6 to 2.36
	Medium	0.21 to 0.6
	Fine	0.075 to 0.21
SILT		0.002 to 0.075
CLAY		<0.002

MOISTURE CONDITION

Coarse Grained Soils

Dry Non-cohesive and free running.

Moist Soil feels cool, darkened in colour. Soil tends to stick together.

Wet As for moist but with free water forming when handling.

Fine Grained Soils

Moist, dry of Plastic Limited – $w < PL$

Hard and friable or powdery.

Moist, near Plastic Limit – $w \approx PL$

Soils can be moulded at a moisture content approximately equal to the plastic limit.

Moist, wet of Plastic Limit – $w > PL$

Soils usually weakened and free water forms on hands when handling.

Wet, near Liquid Limit - $w \approx LL$

Wet, wet of Liquid Limit - $w > LL$

CONSISTENCY TERMS FOR COHESIVE SOILS

TERM	UNDRAINED STRENGTH s_u (kPa)	FIELD GUIDE
Very Soft	≤ 12	Exudes between the fingers when squeezed in hand
Soft	12 to 25	Can be moulded by light finger pressure
Firm	25 to 50	Can be moulded by strong finger pressure
Stiff	50 to 100	Cannot be moulded by fingers
Very Stiff	100 to 200	Can be indented by thumb nail
Hard	>200	Can be indented with difficulty by thumb nail
Friable	–	Can be easily crumbled or broken into small pieces by hand

RELATIVE DENSITY OF NON-COHESIVE SOILS

TERM	DENSITY INDEX (%)
Very Loose	≤ 15
Loose	15 to 35
Medium Dense	35 to 65
Dense	65 to 85
Very Dense	> 85

DESCRIPTIVE TERMS FOR ACCESSORY SOIL COMPONENTS

DESIGNATION OF COMPONENT	IN COARSE GRAINED SOILS		IN FINE GRAINED SOILS	TERM
	% Fines	% Accessory coarse fraction	% Sand/ gravel	
Minor	≤ 5	≤ 15	≤ 15	Trace
	$>5, \leq 12$	$>15, \leq 30$	$>15, \leq 30$	With
Secondary	>12	>30	>30	Prefix

SOIL STRUCTURE

ZONING		CEMENTING	
Layer	Continuous across the exposure or sample.	Weakly cemented	Easily disaggregated by hand in air or water.
Lens	Discontinuous layer of different material, with lenticular shape.		
Pocket	An irregular inclusion of different material.	Moderately cemented	Effort is required to disaggregate the soil by hand in air or water.

GEOLOGICAL ORIGIN

WEATHERED IN PLACE SOILS

Extremely Weathered material	Material is weathered to such an extent that it has soil properties. Structure and/or fabric of parent rock material retained and visible.
Residual soil	Structure and/or fabric of parent rock material not retained and visible.

TRANSPORTED SOILS

Aeolian soil	Carried and deposited by wind.
Alluvial soil	Deposited by streams and rivers.
Colluvial soil	Soil and rock debris transported downslope by gravity.
Estuarine soil	Deposited in coastal estuaries, and including sediments carried by inflowing rivers and streams, and tidal currents.
Fill	Man-made deposit. Fill may be significantly more variable between tested locations than naturally occurring soils.
Lacustrine soil	Deposited in freshwater lakes.
Marine soil	Deposited in a marine environment.









Soil Description Explanation Sheet (2 of 2)

SOIL CLASSIFICATION INCLUDING IDENTIFICATION AND DESCRIPTION

FIELD IDENTIFICATION PROCEDURES (Excluding particles larger than 63 mm and basing fractions on estimated mass)				GROUP SYMBOL	PRIMARY NAME	
COARSE GRAINED SOIL More than 65% of soil excluding oversize fraction is larger than 0.075 mm	GRAVEL More than half of coarse fraction is larger than 2.36 mm	CLEAN GRAVEL (Little or no fines)	Wide range in grain size and substantial amounts of all intermediate particle sizes	GW	GRAVEL	
			Predominantly one size or a range of sizes with some intermediate sizes missing	GP	GRAVEL	
		GRAVEL WITH FINES (Appreciable amount of fines)	Non-plastic fines (for identification procedures see ML and MH below)	GM	Silty GRAVEL	
			Plastic fines (for identification procedures see CL, CI and CH below)	GC	Clayey GRAVEL	
	SAND More than half of coarse fraction is smaller than 2.36 mm	CLEAN SAND (Little or no fines)	Wide range in grain size and substantial amounts of all intermediate sizes	SW	SAND	
			Predominantly one size or a range of sizes with some intermediate sizes missing	SP	SAND	
		SAND WITH FINES (Appreciable amount of fines)	Non-plastic fines (for identification procedures see ML and MH below)	SM	Silty SAND	
			Plastic fines (for identification procedures see CL, CI and CH below)	SC	Clayey SAND	
FINE GRAINED SOIL More than 35% of soil excluding oversize fraction is smaller than 0.075 mm	IDENTIFICATION PROCEDURES ON FRACTIONS <0.075 mm					
		DRY STRENGTH	DILATANCY	TOUGHNESS		
	SILT & CLAY (low to medium plasticity, LL ≤ 50)	None to Low	Slow to Rapid	Low	ML	SILT
		Medium to High	None to Slow	Medium	CL, CI	CLAY
		Low to Medium	Slow	Low	OL	ORGANIC SILT
	SILT & CLAY (high plasticity, LL > 50)	Low to Medium	None to Slow	Low to Medium	MH	SILT
		High to Very High	None	High	CH	CLAY
		Medium to High	None to Very Slow	Low to Medium	OH	ORGANIC CLAY
	Highly Organic Soil	Readily identified by colour, odour, spongy feel and frequently by fibrous texture.			Pt	PEAT

• LL – Liquid Limit.

COMMON DEFECTS IN SOILS

TERM	DEFINITION	DIAGRAM	TERM	DEFINITION	DIAGRAM
PARTING	A surface or crack across which the soil has little or no tensile strength. Parallel or sub parallel to layering (e.g. bedding). May be open or closed.		SOFTENED ZONE	A zone in clayey soil, usually adjacent to a defect in which the soil has a higher moisture content than elsewhere.	
FISSURE	A surface or crack across which the soil has little or no tensile strength, but which is not parallel or sub parallel to layering. May be open or closed. May include desiccation cracks.		TUBE	Tubular cavity. May occur singly or as one of a large number of separate or inter-connected tubes. Walls often coated with clay or strengthened by denser packing of grains. May contain organic matter.	
SHEARED SEAM	Zone in clayey soil with roughly parallel near planar, curved or undulating boundaries containing closely spaced, smooth or slickensided, curved intersecting fissures which divide the mass into lenticular or wedge-shaped blocks.		TUBE CAST	An infilled tube. The infill may be uncemented or weakly cemented soil or have rock properties.	
SHEARED SURFACE	A near planar curved or undulating, smooth, polished or slickensided surface in clayey soil. The polished or slickensided surface indicates that movement (in many cases very little) has occurred along the defect.		INFILLED SEAM	Sheet or wall like body of soil substance or mass with roughly planar to irregular near parallel boundaries which cuts through a soil mass. Formed by infilling of open defects.	

Appendix B

Example Plants

Taz Wild Plants

Phone: (03) 6384 2165
Fax: (03) 6384 2165
Web site: www.tazwild.com

Wastewater Treatment Units

Tasmanian Plants suitable for Water from Wastewater Treatment Units

Water from septic tanks and aerated wastewater treatment units such as Biocycle, Envirocycle or other may contain salts, boron and disease bearing microbes. The major ingredients of most cleaning fluids are various salts, of which common kitchen salt (sodium chloride) is the least common. These salts may have large concentrations in wastewater, which can have a detrimental effect on plants. The survival of plants will depend on the concentrations of salts. Long-term build up of chemicals and salts in the soil will adversely affect any plantings.

We can't guarantee these plants will survive but they are tolerant to reasonable amounts of the main offenders and will tolerate wet conditions.

Below is a list of plants to help make an attractive garden bed for your wastewater treatment area.

PLANTS 1 – 6m

Acacia mucronata

Variable sallow wattle, Narrow leaf wattle

An upright or spreading, medium to tall shrub 3-4m X 2-3m. Quick growing. Profuse cream to yellow flowers in spring, showy. Attracts seed eating birds. Drought tolerant.

Acacia verticillata

Prickly Moses

Prickly shrub to 2m. Useful habitat plant and very attractive in flower.

Banksia marginata

Honeysuckle, Silver banksia

Evergreen shrub or small tree with attractive narrow, smooth edged leaves which are square or notched at the end and silvery beneath. Greenish yellow cones of flowers that last as cut flowers. Grows well in sandy soil. Strong upright growth.

Bauera rubioides

Dog Rose

Hardy small to medium dense shrub. 1-2m X 1-2m wide with masses of dainty pink flowers, flowering most of year, attracting butterflies. Grows well in wet or moist soils, prefers acid soils. Likes full or filtered sun. Good coastal plant. Frost tolerant. Prune regularly. Good erosion control.

Callistemon pallidus

Lemon Bottlebrush

Evergreen medium shrub, very upright with silky leaves that become smooth with age. Lovely lemon yellow bottlebrushes in spring and summer. Likes a dry or moist position. Tolerates full or filtered sunlight. Attracts nectar eating birds.

Callitris oblonga

Cypress pine, South esk pine

This is one of Australia's native conifers. It has an attractive shrubby shape and is suitable for use in the garden as a fast growing hedge, since it can be pruned to shape. It is also useful for gardens where the soil is rocky and sandy but will tolerate a range of soils, providing the drainage is good.

Correa backhousiana

Velvet correa

A dense, bushy, spreading shrub to 1.5m high by 2m wide. Leaves are glossy green on top, rusty coloured underneath. Greenish cream bell flowers in winter. Spring bird attracting. Tolerates lime and coastal plantings. Usually frost resistant.

Leptospermum lanigerum

Woolley tea-tree

Hardy medium to large shrub 2.5 to 5m high x 1.2-3m wide, massed with white flowers during spring. Soft grey foliage. Prefers moist to wet soils with good drainage and will grow well in full or filtered sun. Attracts butterflies and seed eating birds. Tolerates light snow, smog and frost.

Melaleuca ericifolia

A very hard, fast growing small evergreen tree suited to most soils and aspects. Suitable for poorly drained or saline soils and withstands coastal exposure. Needle-like leaves and 2-3cm long cream flower spikes, in spring and early summer. Ideal for planting as a screen.

Melaleuca gibbosa

Fine leafed paperbark, Slender honey-myrtle

Evergreen small shrub with mauve/purple ball shaped flowers in late spring and summer. Suitable for most soils, tolerating lime and salt soil. Frost resistant.

Melaleuca squarrosa

Tall, bushy shrub, good foliage. Scented, yellow brush flowers, in spring-summer. Suitable for most soils, tolerating very wet conditions, lime, saline and frost.

Micrantheum hexandrum

River box

Attractive foliage plant with new growth showing red stems. Cream flowers in spring. Grows up to 2m high. Prune to form a dense screen plant.

Notelaea ligustrina

Native Olive, Mock olive, Privet mock olive

Tall shrub with smooth, dark green leaves. Small yellow flowers and purple fruit. Prefers a moist, semi-shaded position but grows well in a wide range of conditions.

Pomaderris apetala

Dogwood

Medium to tall shrub 3 to 15 m. This shrub grows in a wide variety of sites from very dry to very wet but will grow larger with moisture. Looks good planted in copses.

SHRUBS TO 1m

Amperea xiphioclada

Upright or arching stems. Attractive foliage sculpturesque in appearance to 60cm. Useful for basket weaving. Dry to moist sites.

Blechnum penna-marina

Alpine Water Fern

Attractive, low growing, matted ground cover. Leathery dark green fronds to 15cm long, tinged pink when young. Ideal hanging baskets. Rockeries and moist positions in the open ground.

Blechnum wattsi

Hard Water Fern

Hardy and vigorous fern with dark green leathery fronds to 1m tall. Very easily grown in large pot or a moist, shady position in the ground.

Callistemon viridiflorus

Green Bottlebrush

Erect shrub with pale green bottlebrushes. Good in damp conditions. 1-2m X 1m. Frost resistant.

Carex appressa

Tall sedge, Tussock sedge

A tall perennial to 1.8m high. Stems acutely 3 angled and leaves 3-6mm broad. Occurs in winter wet depressions that can dry out completely in summer. Flowers in spring.

Carex inyx

Tassell Sedge

Evergreen clump forming sedge with green foliage and gorgeous golden brown pendulous tassels 1m x 1m.

Carex tasmanica

Curley Sedge

An upright sedge to 30cm. Attractive tight curls on tips of leaves. Wet sites but will tolerate long dry spells.

Dianella tasmanica

Flax Lily

An evergreen perennial plant with arching, strap-like leaves which can be up to 1.2m long. During spring and summer this plant bears clusters of nodding, star shaped, bright blue to purple flowers which are followed by glossy deep blue berries. Thrives in a sunny to partly shaded position in humus rich, well drained soil. Ideal for rockeries, poolside planting and containers.

Ficinea nodosa (syn isolepis nodosa)

Knobby club rush

Dense tufted native rush with stiff stems. Rounded brown flower knobs in summer. Suit damp or moist sandy soil. 60cm X 1m wide.

Ficinea nodosa (syn isolepis nodosa)

Knobby club rush (syn. Isolepis nodosa)

Ideal for planting around pond margins, this fast growing perennial plant forms clumps of upright, often arching, dark green stems. Brownish, globular flower heads are produced throughout the year. A tough hardy plant which thrives in full sun in a range of soils. Tolerates salt spray, waterlogged and saline soils. Adds texture and colour to seaside gardens and water features, useful for general garden planting.

Goodenia elongata

Lanky Goodenia

Suckering ground cover 10cm tall X 50cm. Glossy green leaves, rich yellow flowers on tall stems spring-summer, prefers moist soils in full sun or part shade.

Isolepis inundata

Knobby club rush, Swamp club rush

Handy aquatic for waters edge or general planting (eg. shrub beds, dry creek beds).

Lomandra longifolia

Long leaf mat bush, Sagg

A popular plant for use as accent in gardens, where the rush like foliage contrasts well with broad leaved plants. Use it next to ponds or as a boarder plant. Flowers in spring, bearing clusters of cream, strongly perfumed flowers - great for use in flora arrangements. A very adaptable plant that will grow well in a range of soils but does best in a moist position.

Mazus pumilio

Mauve carpet

Low growing creeping plant. Ideal ground cover, with mauve flowers, spring and summer. Semi shade or sun.

Melaleuca squamea

A bushy shrub to 1m with stunning mauve flowers in spring-summer. Grows well in a damp spot. Frost hardy.

Poa labillardieri

A popular native grass grown for its soft blue foliage. In the warmer months this clumping plant produces an attractive flower head with a purple tint. Thrives in a sunny to partly shaded position and grows in a range of soils. Suitable for planting under trees, embankments and mass plantings. Cut to just above ground level in late winter for fresh new spring growth.

Polystichum proliferum

Mother Shield Fern

An easy to grow fern with attractive green fronds. New fronds are covered with eye catching brownish scales. An ideal plant for ferneries and shaded garden positions but will perform equally well when planted in a container. Plant in humus rich, moist, well drained soil in part shade. Fertilise with a good organic fertilizer. When planting in containers use a premium potting mix.

Polystichum proliferum

Mother Shield Fern

Attractive native fern with arching fronds to 1m long forming plantlets near the tip. Very easily grown in a moist position in morning or filtered sun. Suitable for tubs.

Pratia pedunculata

Blue pratia, Common pratia, White pratia

This dainty, spreading plant forms a carpet of tiny green leaves which from spring to early summer is smothered in a mass of tiny, white flowers. This carpeting plant is ideal for filling in spaces near rocks and sleepers and makes an attractive groundcover. Thrives in a sunny to semi-shaded position in moist soil. Keep moist at all times.

Pratia pedunculata

Blue pratia, Common pratia, White pratia

This dainty, spreading plant forms a carpet of tiny, green leaves, which from spring to early summer is smothered in a mass of tiny blue flowers. This carpeting plant is ideal for filling in spaces near rocks and sleepers, and makes an attractive groundcover, thrives in a sunny to semi-shaded position in moist soil. Keep moist at all times.

Scaevola hookeri

Creeping fan flower, Mat fan flower

A very densely matting, evergreen groundcover with glossy, dark green leaves and small, white fan-shaped flowers in flushes, during spring, summer and autumn. An excellent soil binding plant for average to moist positions. Frost hardy.

Velleia paradoxa

Spur velleia

Wild flower 20cm X 20cm with large yellow flowers spring and summer. Prefers moist soils which are well drained and part shade to full sun.

Viola fuscoviolacea

A spreading, matting violet with attractive dense foliage and tiny deep purple-blue flowers in spring and summer. Prefers a moist position. Withstands frosts and snow.

Viola hederacea

Native violet

An attractive creeping evergreen perennial with fan shaped leaves. This plant produces beautiful mauve flowers over a long flowering period. An ideal ground cover for full sun to part shade in well drained soils.

TREES

Acacia dealbata

Silver Wattle

A tall tree with a smooth trunk, often decorated with silvery, mottled patches contrasting with the greyish-green leaves. In spring, clusters of golden-yellow, fluffy ball like flowers almost cover the whole tree.

Acacia melanoxylon

Blackwood

A beautiful formal tree that produces one of Australia's most sought after woods for cabinet making. Light yellow flowers occur in winter and early spring. A useful tree for a windbreak or screen as it grows densely. It is also tolerant of a wide range of positions, however its height and width will be greatest if the soil is moist and fertile.

Eucalyptus ovata

Black gum, Swamp gum

Evergreen medium to tall moisture loving tree, good for poorly drained soils. Smooth white trunk. Masses of white flowers in autumn which attract birds. Frost hardy. Good tree for cool districts. Water absorber. Drought tolerant. Excellent shade and windbreak tree.

Eucalyptus rodwayi

Swamp Peppermint

This tree is suitable for a wide range of conditions, from very dry sandy soils to river banks. Grows 15 to 20m.

Eucalyptus viminalis

White Gum

A magnificent tree with a lovely white trunk. This tree is suitable for very dry to very wet sites. Its height is 20 to 40m depending on availability of moisture.

Pomaderris apetala

Dogwood

Medium to tall shrub 3 to 15 m. This shrub grows in a wide variety of sites from very dry to very wet but will grow larger with moisture. Looks good planted in copses.

Prostanthera lasianthos

Christmas bush, Tasmanian Christmas bush

The Tasmanian Christmas bush comes into flower around Christmas with masses of mint scented foliage. A rapid growth in a range of soils but for best results grow in a well drained soil and mulch to retain moisture in the drier months. An attractive plant that will grow in a range of positions in the garden.

Tasmania lanceolata

Mountain pepper, Native pepper

Small leafed mountain form. Handsome foliage shrub with bright green leaves and red stems. Creamy-yellow flowers in spring. Slow growing to 1.5m, hardy in a cool moist well drained position in sun or shade.

Appendix C

Certificate Forms

CERTIFICATE OF QUALIFIED PERSON – ASSESSABLE ITEM

Section 321

To: Owner /Agent
 Address
 Suburb/postcode

Form **55**

Qualified person details:

Qualified person:
Address: Phone No:
Fax No:
Licence No: Email address:

Qualifications and Insurance details: (description from Column 3 of the Director's Determination - Certificates by Qualified Persons for Assessable Items)

Speciality area of expertise: (description from Column 4 of the Director's Determination - Certificates by Qualified Persons for Assessable Items)

Details of work:

Address: Lot No:
Certificate of title No:
The assessable item related to this certificate: (description of the assessable item being certified)
Assessable item includes –
- a material;
- a design
- a form of construction
- a document
- testing of a component, building system or plumbing system
- an inspection, or assessment, performed

Certificate details:

Certificate type: (description from Column 1 of Schedule 1 of the Director's Determination - Certificates by Qualified Persons for Assessable Items n)

This certificate is in relation to the above assessable item, at any stage, as part of - (tick one)

building work, plumbing work or plumbing installation or demolition work:

or

a building, temporary structure or plumbing installation:

In issuing this certificate the following matters are relevant –

Documents:

Geoton Pty Ltd, Report Reference No. GL24029Ab,
dated 15/03/2024

Relevant
calculations:

Refer to report

References:

AS 2870 – 2011 Residential Slabs and Footings Construction
AS 4055 – 2021 Wind Loads for Housing
CSIRO Building Technical File 18

Substance of Certificate: (what it is that is being certified)

Site Classification in accordance with AS2870 - 2011
Wind Loading in accordance with AS 4055 - 2021
Findings and recommendations of report

Scope and/or Limitations

The classification applies to the site as investigated at the time and does not account for any future alteration to foundation conditions resulting from earthworks, drainage condition changes or site maintenance variations.

I certify the matters described in this certificate.

Qualified person:

Signed:



Certificate No:

GL24029Ab

Date:

15/03/2024

CERTIFICATE OF THE RESPONSIBLE DESIGNER

Section 94
Section 106
Section 129
Section 155

Form **35**

To: *Owner name*
 Address
 Suburb/postcode

Designer details:

Name: *Category:*
 Business name: *Phone No:*
 Business address:
 Fax No:
 Licence No: *Email address:*

Details of the proposed work:

Owner/Applicant *Designer's project reference No.*
Address: *Lot No:*

Type of work: Building work Plumbing work *(X all applicable)*

Description of work:

(new building / alteration / addition / repair / removal / re-erection / water / sewerage / stormwater / on-site wastewater management system / backflow prevention / other)

Description of the Design Work (Scope, limitations or exclusions): *(X all applicable certificates)*

Certificate Type:	Certificate	Responsible Practitioner
	<input type="checkbox"/> Building design	Architect or Building Designer
	<input type="checkbox"/> Structural design	Engineer or Civil Designer
	<input type="checkbox"/> Fire Safety design	Fire Engineer
	<input checked="" type="checkbox"/> Civil design	Civil Engineer or Civil Designer
	<input type="checkbox"/> Hydraulic design	Building Services Designer
	<input type="checkbox"/> Fire service design	Building Services Designer
	<input type="checkbox"/> Electrical design	Building Services Designer
	<input type="checkbox"/> Mechanical design	Building Service Designer
	<input type="checkbox"/> Plumbing design	Plumber-Certifier; Architect, Building Designer or Engineer
	<input type="checkbox"/> Other (specify)	

Deemed-to-Satisfy: Performance Solution: *(X the appropriate box)*

Other details:
All design documents provided in Report GL24029Ab, dated 15/03/2024

Design documents provided:

The following documents are provided with this Certificate –

Document description:

Drawing numbers:	Prepared by:	Date:
Schedules:	Prepared by:	Date:
Specifications:	Prepared by:	Date:
Computations:	Prepared by:	Date:
Performance solution proposals:	Prepared by:	Date:
Test reports:	Prepared by:	Date:

Standards, codes or guidelines relied on in design process:

All design documents are contained within report
AS/NZS1547:2012 On-site domestic-wastewater management

Any other relevant documentation:**Attribution as designer:**

I Tony Barriera of Geoton Pty Ltd am responsible for the design of that part of the work as described in this certificate;

The documentation relating to the design includes sufficient information for the assessment of the work in accordance with the *Building Act 2016* and sufficient detail for the builder or plumber to carry out the work in accordance with the documents and the Act;

This certificate confirms compliance and is evidence of suitability of this design with the requirements of the National Construction Code.

Name: (print)

Signed

Date

Designer:

Tony Barriera

15/03/2024

Licence No:

CC6220P

Assessment of Certifiable Works: (TasWater)

Note: single residential dwellings and outbuildings on a lot with an existing sewer connection are not considered to increase demand and are not certifiable.

If you cannot check ALL of these boxes, LEAVE THIS SECTION BLANK.

TasWater must then be contacted to determine if the proposed works are Certifiable Works.


I confirm that the proposed works are not Certifiable Works, in accordance with the Guidelines for TasWater CCW Assessments, by virtue that all of the following are satisfied:

- The works will not increase the demand for water supplied by TasWater
- The works will not increase or decrease the amount of sewage or toxins that is to be removed by, or discharged into, TasWater's sewerage infrastructure
- The works will not require a new connection, or a modification to an existing connection, to be made to TasWater's infrastructure
- The works will not damage or interfere with TasWater's works
- The works will not adversely affect TasWater's operations
- The work are not within 2m of TasWater's infrastructure and are outside any TasWater easement
- I have checked the LISTMap to confirm the location of TasWater infrastructure
- If the property is connected to TasWater's water system, a water meter is in place, or has been applied for to TasWater.

Certification:

I Tony Barriera of Geoton Pty Ltd being responsible for the proposed work, am satisfied that the works described above are not Certifiable Works, as defined within the *Water and Sewerage Industry Act 2008*, that I have answered the above questions with all due diligence and have read and understood the Guidelines for TasWater CCW Assessments.

Note: the Guidelines for TasWater Certification of Certifiable Works Assessments are available at: www.taswater.com.au

	<i>Name: (print)</i>	<i>Signed</i>	<i>Date</i>
Designer:	Tony Barriera		15/03/2024

LOADING CERTIFICATE

To:	Mr Brett and Mrs Lyndal Perry	Owner /Agent	Certificate Ref: AS/NZS 1547:2012 Section 7.4.2
	PO Box 394	Address	
	Wynyard Tas	Suburb/postcode	
			7325

Details of work:

Address:	276 Reservoir Drive	Lot No:	1
	Wynyard Tas	Certificate of title No:	175267/4
	7325		
The work related to this certificate:	On-site domestic-wastewater management	<i>(description of the work or part work being certified)</i>	

Certificate details:

In issuing this certificate the following matters are relevant –

Documents:	Report GL24029Ab dated 15/03/2024 Figure 1 – Locality Plan Figure 2 – Site Plan Figure 3 – Raised Conventional Bed Plan and Section
Relevant calculations:	Contained in the above
References:	AS/NZS1547:2012 On-site domestic-wastewater management

Substance of Certificate:

This certificate sets out the design criteria and the limitations associated with use of the system.

Wastewater Characteristics

<i>Population equivalent used for this assessment</i>	= 4 (2 bedroom equivalent)
<i>Wastewater volume (L/day) used for this assessment</i>	= 480 (120 Litres per person)
<i>Approximate blackwater volume (L/day)</i>	= 192
<i>Approximate greywater volume (L/day)</i>	= 288

Soil Characteristics/Design Criteria

<i>Texture (Table E1 from AS/NZS 1547)</i>	= Medium to Heavy clay
<i>Soil category (Table E1 from AS/NZS 1547)</i>	= 6
<i>Soil structure (Table E4 from AS/NZS 1547)</i>	= Moderately
<i>Indicative permeability (Table 5.1 from AS/NZS 1547)</i>	= <0.06m/day
<i>Adopted permeability</i>	= 0.02m/day
<i>Adopted Design Loading Rate</i>	= 10mm/day
<i>Soil thickness for disposal</i>	= >0.4m
<i>Minimum depth (m) to water</i>	= >2m

Dimensions for On-Site Treatment System

Disposal and treatment methods = Aerated Wastewater Treatment System (AWTS) and Raised Conventional Bed

Site modification and specific design = Not required

Primary disposal area required = 48.0m²

Reserve disposal area required = 48.0m²

Location and use of Reserve area = Reserve area located to the northeast of the proposed dwelling.

Is there sufficient area available on site for disposal (including reserve) = Yes

Notes

The purpose of the reserve area is to allow for future extension of the land application system to allow a factor of safety against unforeseen malfunction or failure, perhaps following increased household occupancy or inadvertent misuse of the system.

The land application area may be reduced to account for flow reductions by water-saving devices, provided the organic loading rate is not higher than it would have been without the flow reduction.

Allowable Variation from Design Flow

Based on an approved AWTS 8 EP system (8 equivalent persons) rated at 1200 litres per day and a wastewater design volume of 480L/day the allowable variation from design flow (peak loading events) would be an additional 720L/day.

System Limitations

Consequences of overloading the system:

- (A) Adverse effects on soil properties and plant growth through excess salt accumulation in the root zone during extended dry periods
- (B) Harmful long-term environmental effects to the soil of land application system or the adjacent surface water and groundwater; or
- (C) Increased risk to public health from surface ponding in the land application area or channelling or seepage beyond the land application area.

Consequences of underloading the system:

Not applicable to this type of system.

Operation Requirements

Refer to operation manual of preferred aerated wastewater treatment system.

Adverse effects of not operating the system correctly may include:

- (A) Odour; and
- (B) Disease.

Maintenance Requirements

Refer to operation manual of preferred aerated wastewater treatment system.


Adverse effects of not maintaining and monitoring the system correctly may include:

- (A) Odour;
- (B) Pump failure;
- (C) Air blower failure or filter blockage;
- (D) Alarm failure;
- (E) Irrigation field failure; and
- (F) Poor water quality, lack of disinfection.

I certify the matters described in this certificate.

Certifier:

Signed:



Date:

15/03/2024

Certificate No.

GL24029Ab



environmental service & design

Environmental Service and Design Pty Ltd

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BUSHFIRE HAZARD REPORT- Version 1
Brett Perry

Proposed dwelling and shed extension

276 Reservoir Drive

Wynyard TAS

Author – Bruce Harpley

BFP- 140

22 February 2024

Scope of Assessors Accreditation

Bruce Harpley (BFP-140) is accredited by the Chief Officer of the Tasmania Fire Service under Section 60B of the *Fire Service Act 1979* for scope of works:

1. *Certify a Bushfire Hazard Management Plan for the purposes of the Building Act 2016*
2. *Certify an Exemption from a Bushfire Hazard Management Plan for the purposes of the Building Act 2016 or the Land Use Planning and Approvals Act 1993*
- 3A. *Certify a Bushfire Hazard Management Plan meets the Acceptable Solutions for Vulnerable Uses and Hazardous Uses for the purposes of the Land Use Planning and Approvals Act 1993.*
- 3B. *Certify a Bushfire Hazard Management Plan meets the Acceptable Solutions for small subdivisions for the purposes of the Land Use Planning and Approvals Act 1993.*

Works performed by **Bruce Harpley (BFP-140)** that require Tasmania Fire Service endorsement:

4. *Certify an Emergency Management Strategy or Bushfire Emergency Plan*

Disclaimer

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Bushfires in Tasmania are an unpredictable natural phenomenon and preparing a Bushfire Hazard Management Plan increases your chances of defending your property and assists in the protection the people whom frequent it. This Fire Hazard Management Plan in no way guarantees immunity from a bushfire in or around your property or the effects thereof.

Any measures implemented based on the advice from *Environmental Services and Design Pty Ltd*, is offered as potential methods of reducing your properties risk of fire damage only and is not to be relied upon as a total solution. It in no way guarantees that any or all buildings on site will survive the effects of a bushfire nor does it guarantee the safety and security of any individuals whom frequent the property.

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Re-Certification – Ability to Re-Evaluate

If in the event that the land owner requests a re-assessment of this plan due to a reduced or eliminated bushfire risk in the future; an Accredited Bushfire Assessor can over-ride any or all of the requirements or provisions of this plan. This provision serves to formally expunge any Part 5 Agreement with a Council Planning Authority (if placed on a Title as a condition of Permit) or to reduce the construction standards required under *AS3959 Construction of Buildings in Bushfire Prone Areas* (as amended) if the bushfire risk is reduced to **BAL – LOW** or a threat no longer exists.

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Appendix A – Proposal Site Plan and Drainage Plan

Appendix B – Bushfire Hazard Management Plan

Appendix C – Requirements for Property Access and Water Supply

Form 55

1. Introduction

Environmental Services and Design Pty Ltd has been engaged to complete a bushfire hazard management assessment for proposed shed extension and new dwelling.

The proposed dwelling (Tiny house) is greater than 40m from the existing shed and extension. The shed is not required to be included in the assessment.

The purpose of this report is to document the assessment, bushfire attack level and associated hazard management areas under the Tasmanian Building Regulations 2016, Directors Determination – Bushfire Hazard Areas v1.1 and AS3959 2018.

2. Site Description

2.1 Property Details

Property Address	276 Reservoir Drive Wynyard
Certificate of Title	175267/4 PID 3595185
Type of Application	Proposed shed extension and new dwelling (tiny house)
Area	1.9ha
Zoning	Rural living - Zone 11
Surrounding Zoning	Rural living
Planning Scheme	Tasmanian Planning Scheme – Waratah Wynyard
Existing land Use	Residential
Proposed land use	Residential



Aerial View

2.2 Surrounding Land Use

Surrounding land use within 200m consists of developed and vacant rural living lots.

3. Proposed Development

The proposal includes a new dwelling (tiny house) and extension to the existing shed. The dwelling is proposed to be greater than 40m from the existing shed and extension.

Site plan prepared by Rosene Cox project number 2324-19 dated 07/02/2024 is at appendix A.

4. Bushfire Hazard Assessment

A site assessment was carried out on 11 January 2024. Desktop assessment was conducted on 21 February 2024.

4.1. Vegetation & Effective Slope

Vegetation and relevant effective slopes within 100m of the proposed building work has been inspected and classified in accordance with AS 3959-2018.

Vegetation

Based on the site assessment the vegetation external and internal to the lot is assessed as:

- North – low threat 38m then forest,
- South – low threat cleared land 42m then forest,
- East – low threat cleared flat land 75m then forest,
- West – low threat residential, hardstand and adjacent residential for 100m.

Vegetation within the lot to the north, south and east has previously been cleared to the distances shown above and is assessed as low threat residential gardens and hardstand areas in accordance with AS3959-2018 clause 2.2.3.2. Refer images 4.1.1 to 4.1.4 below.

Topography

Surrounding effective slopes of land under classified vegetation are as follows:

- North – 15° downslope,
- South – 14° downslope,
- East – 14° downslope,
- West – across/up slope.



Image 4.1.1 - View northwest - forest



Image 4.1.2 - View northeast - forest



Image 4.1.3 - View southwest to adjacent property



Image 4.1.4 – View southeast - forest



Image 4.1.5 – Site Analysis

4.2. Bushfire Attack Level

A Bushfire Attack Level assessment has been completed using Method 1 of AS 3959-2018.

Step 1: Relevant fire danger index (clause 2.2.2): FDI 50

Step 2: Assess the vegetation within 100m in all directions

Vegetation Classification	N	S	E	W
Group A - Forest	X	X	X	
Group B – Woodland				
Group C – Shrubland				
Group D – Scrub				
Group E – Mallee/Mulga				
Group F – Rainforest				
Group G – Grassland				
Low threat (cl. 2.2.3.2)	X (38m)	X (42m)	X (75m)	X (100m)

Step 3: Distance from classified vegetation (clause 2.2.4)

	N	S	E	W
Existing distance	0-38m low threat 38-100m forest	0-42m low threat 42-100m forest	0-75m low threat 75-100m forest	0-100m Low threat
Proposed HMA distance	41m	41m	41m	10m

Step 4: Effective slope under classified vegetation

	N		S		E		W	
	Upslope/0		Upslope/0		Upslope/0		Upslope/0	X
	>0-5°		>0-5°		>0-5°		>0-5°	
	>5-10°		>5-10°		>5-10°		>5-10°	
	>10-15°	X	>10-15°	X	>10-15°	X	>10-15°	
	>15-20°		>15-20°		>15-20°		>15-20°	

Step 5: Determination of Bushfire Attack Level (BAL)

	N	S	E	W
BAL value for each quadrant	19	19	19	19

The applicable Bushfire Attack Level is: **BAL - 19**

5. Bushfire Protection Measures

The Bushfire Attack Level assessment at section 4.2 assesses the Bushfire Attack Level as **BAL 19** and the following measures must be implemented:

Hazard management

- Hazard management areas must be established and maintained as shown on the Hazard management plan drawing at attachment B.
- Hazard Management Areas must be implemented prior to occupancy to the building surveyor's satisfaction and maintained by the owner thereafter.

**N – 41m,
S– 41m,
E– 41m,
W– 10m.**

Construction

- Dwelling construction must comply with the requirements of AS3959-2018 for **BAL 19**.

Water Supply

- Property is connected to a reticulated main supply however there are no hydrants in the area within 120m of the furthest part of the dwelling to be protected.
- A static water supply for firefighting purposes must be installed.
- The static water supply tank must be of noncombustible construction with a minimum capacity of 10,000ltr fitted with a 65mm storz fitting.
- The proposed static water supply firefighting water point is located 30m northeast of the proposed dwelling and will be within 90m of the furthest part of the proposed building to be protected measured as a hose lay.
- Proposed location of the static water is shown on the hazard management plan.
- Static water supply must meet the requirements of Table 3B of the Directors Determination – Bushfire Hazard Areas.
- Static water supply requirements are included in Appendix C.
- Static water supply must be implemented prior to occupancy to the building surveyor's satisfaction and maintained by the owner thereafter.



Image 5.1 – Proposed Water supply location east of dwelling

Access

- Access to the property is required to access a firefighting water point.
- The existing all weather gravel access from the Reservoir Drive crossover to the proposed water point is greater than 30m and less than 200m with a width varying between 3.1m and 3.6m.
- Existing access must be upgraded to a minimum of 4m in width as shown on the bushfire hazard management plan at appendix B.
- The existing access must be extended to the static water supply point to create a compliant hardstand turning area.
- The hardstand turning area is shown on the hazard management plan.
- Vegetation along the access must be trimmed back to allow for 500mm horizontal clearance either side of the carriageway with a vertical clearance of 4m.
- Property access requirements are included in Appendix C.
- Access upgrade and hardstand area must be implemented prior to occupancy to the building surveyor's satisfaction and maintained by the owner thereafter.



Image 5.2 – Existing access from Reservoir Drive

6. Statutory Compliance

The applicable bushfire requirements are specified in the *Director's Determination – Bushfire Hazard Areas (v1.1)*.

Table 1 – Compliance Schedule

Deemed-to-Satisfy requirement	Compliance
2.3.1 Construction	Subject to design and construction to BAL - 19 standard, the proposal will comply with clause 2.3.1.
2.3.2 Property access	Subject to upgrading of the existing access as prescribed in section 5 Access, the proposal will comply with clause 2.3.2.
2.3.3 Water supply for firefighting	Subject to installation of the static water supply for firefighting as prescribed in section 5, the proposal will comply with clause 2.3.3.
2.3.4 Hazard management areas	Subject to implementing the hazard management area prescribed on the Bushfire Hazard Management Plan, the proposal will comply with clause 2.3.4.
2.3.5 Emergency plan	N/A

7. Conclusion

Design and construction must conform to **BAL – 19** minimum specifications under AS3959:2018.

Static water supply for firefighting must be installed, access must be upgraded to a minimum of 4m in width, static water supply hardstand must be constructed and any overhanging vegetation along the access must be trimmed back to create 500mm horizontal clearance either side of carriageway. Requirements are included in Appendix C.

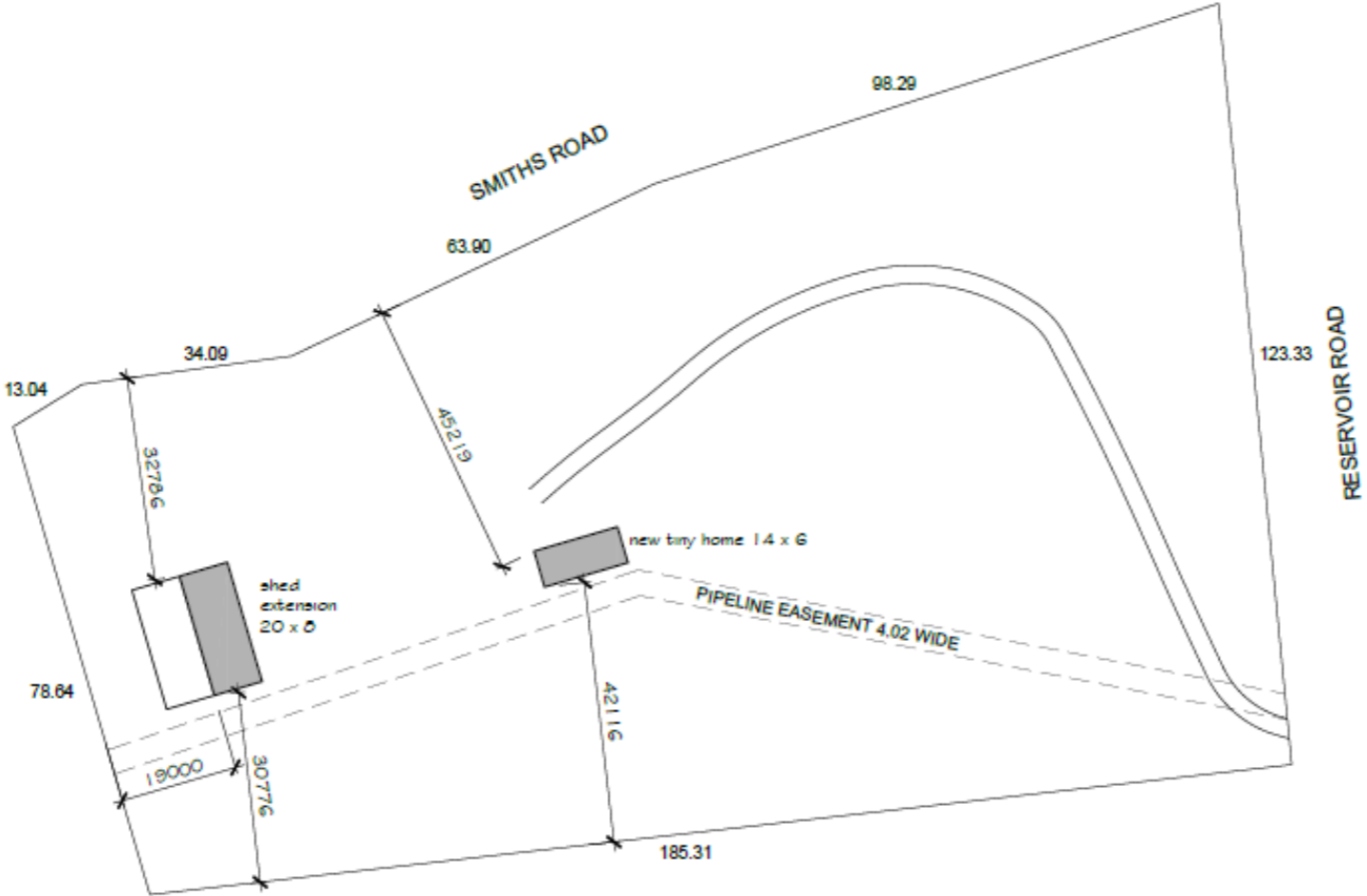
The Hazard Management area must be created and maintained as shown on the Bushfire Hazard Management Plan at appendix B.

A bushfire hazard management plan is required and is at Appendix B. This Bushfire Hazard report must be read in conjunction with the bushfire hazard management plan.

The requirements of the Bushfire Hazard Management Plan must be fully implemented prior to the issue of the certificate of occupancy.

Appendix A Site Plan

- GENERAL NOTES:
1. Check all dimensions, boundaries, easements and service locations on site
 2. All work shall comply with the current Tasmanian Building Regulations and relevant current Australian Standards, particularly AS2870 (residential slabs and footings) AS3700 (unified masonry code) AS3600 (concrete structures)



SITE PLAN
Scale 1:1000

Brett Perry
276 Reservoir Drive
Shed Extension and New Tiny Home

Project Number: 2324-19

Date: 07.02.24

Project Status: BA

Designed/Drawn: RC


SITE PLAN
Scale: as noted at A3

Page
A02
of 2

Rosene Cox
BUILDING DESIGN & DRAFTING
e. rosene.cox@gmail.com Mob. 0418 171 074
12 Jackson St ABN 84 634 774 986
Wynyard TAS 7325 TOC No. CCS197 G

General Notes

Appendix B Bushfire Hazard Management Plan

Design and Construction

- Design and construction must conform to **BAL-29** minimum specifications under AS3959:2018

Hazard Management (HMA)

- It is the responsibility of the landowner to maintain the landscaping in accordance with the Bushfire Hazard Management Plan
- Establish hazard management area as shown on the Bushfire Hazard Management Plan.
- Ensure fuels are reduced sufficiently & other hazards are removed such that the fuel & other hazards do not significantly contribute to the bushfire attack
- The hazard management area is to be regularly maintained and managed and in particular between the months of September and March in each calendar year
- Landscaping in the HMA is to be minimised with grass maintained to a maximum height of 100mm
- Pathways and landscaping material surrounding any habitable structures must be of non-combustible elements for a minimum of 1m from any external walls or decks
- To be established prior to occupancy

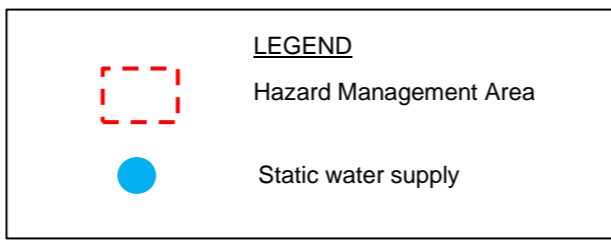
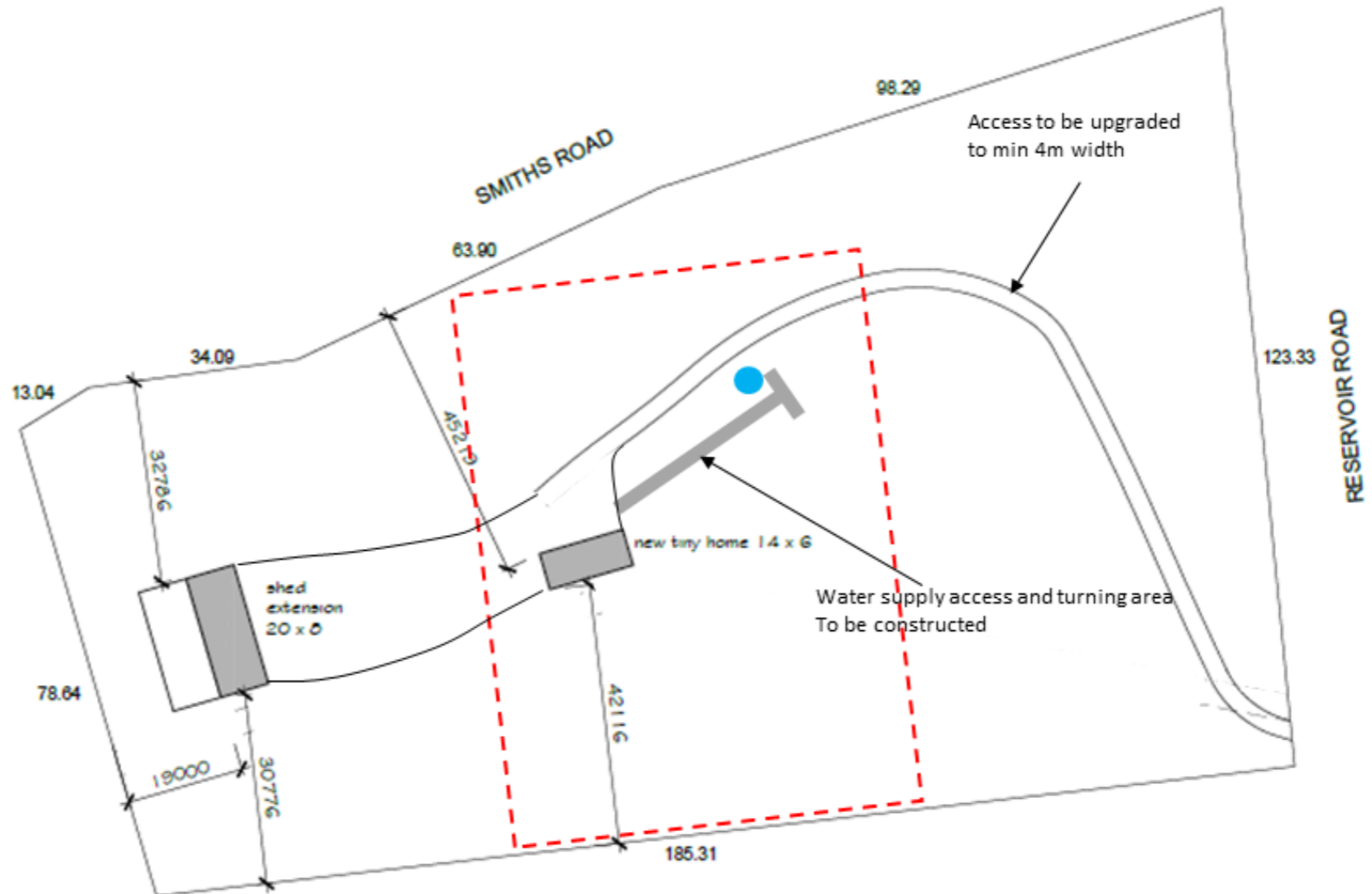
Access and Water Supply

- Access and water supply must be designed in accordance with section 5 of this report and must comply with the requirements in Appendix C

Maintenance prior to the onset of each fire season

- Guttering on all habitable structures must be inspected and cleared of debris annually
- Ensure all hoses and brass connections are in good working order
- All valley and wall/roof junctions are inspected and debris removed
- Roof sheeting inspected for damages or dislodged roofing materials (replace if necessary)
- Painted surfaces are in good condition and decaying timbers given particular attention to repair
- Screens/shutters on windows and doors are in good working condition and fit well without breaks, holes or tears,
- Door mats to be of non-combustible materials

Woodpiles, garden sheds and other combustible materials to be kept well away from habitable structures.



BAL 19
 276 Reservoir Drive
 WYNYARD
 CT – 175267/4

General

- Plan to be read in conjunction with Bushfire Hazard Assessment Report v1.0
- Ensure that all relevant consultants and contractors are provided with a full copy of this plan and supporting report

Appendix C

Table 2 - Requirements for Property Access

Column 1		Column 2
Element		Requirement
A.	Property access length is less than 30 metres, or access is not required for a fire appliance to access a firefighting water point.	There are no specified design and construction requirements.
B.	Property access length is 30 metres or greater, or access is required for a fire appliance to access a firefighting water point.	<p>The following design and construction requirements apply to property access:</p> <ul style="list-style-type: none"> (a) all-weather construction; (b) load capacity of at least 20 tonnes, including for bridges and culverts; (c) minimum carriageway width of 4 metres; (d) minimum vertical clearance of 4 metres; (e) minimum horizontal clearance of 0.5 metres from the edge of the carriageway; (f) cross falls of less than 3 degrees (1:20 or 5%); (g) dips less than 7 degrees (1:8 or 12.5%) entry and exit angle; (h) curves with a minimum inner radius of 10 metres; (i) maximum gradient of 15 degrees (1:3.5 or 28%) for sealed roads, and 10 degrees (1:5.5 or 18%) for unsealed roads; and (j) terminate with a turning area for fire appliances provided by one of the following: <ul style="list-style-type: none"> (i) a turning circle with a minimum outer radius of 10 metres; (ii) a property access encircling the building; or (iii) a hammerhead “T” or “Y” turning head 4 metres wide and 8 metres long.

C.	Property access length is 200 metres or greater.	The following design and construction requirements apply to property access: (a) complies with requirements for B above; and (b) passing bays of 2 metres additional carriageway width and 20 metres length provided every 200 metres.
Column 1		Column 2
D.	Property access length is greater than 30 metres, and access is provided to 3 or more properties.	The following design and construction requirements apply to property access: (a) complies with requirements for B above; and (b) passing bays of 2 metres additional carriageway width and 20 metres length must be provided every 100 metres.

Table 3B - Requirements for Static Water Supply for Firefighting

Column 1		Column 2
Element		Requirement
A.	Distance between building area to be protected and water supply	<p>The following requirements apply:</p> <ul style="list-style-type: none"> (a) the building area to be protected must be located within 90 metres of the firefighting water point of a static water supply; and (b) the distance must be measured as a hose lay, between the firefighting water point and the furthest part of the building area.
B.	Static water supplies	<p>A static water supply:</p> <ul style="list-style-type: none"> (a) may have a remotely located offtake connected to the static water supply; (b) may be a supply for combined use (firefighting and other uses) but the specified minimum quantity of firefighting water must be available at all times; (c) must be a minimum of 10,000 litres per building area to be protected. This volume of water must not be used for any other purpose including firefighting sprinkler or spray systems; (d) must be metal, concrete or lagged by non-combustible materials if above ground; and (e) if a tank can be located so it is shielded in all directions in compliance with Section 3.5 of AS 3959, the tank may be constructed of any material provided that the lowest 400 mm of the tank exterior is protected by: <ul style="list-style-type: none"> (i) metal; (ii) non-combustible material; or (iii) fibre-cement a minimum of 6 mm thickness.
C.	Fittings, pipework and accessories (including stands and tank supports)	<p>Fittings and pipework associated with a firefighting water point for a static water supply must:</p> <ul style="list-style-type: none"> (a) have a minimum nominal internal diameter of 50mm; (b) be fitted with a valve with a minimum nominal internal diameter of 50mm; (c) be metal or lagged by non-combustible materials if above ground; (d) if buried, have a minimum depth of 300mm;

Column 1		Column 2
Element		Requirement
		<ul style="list-style-type: none"> (e) provide a DIN or NEN standard forged Storz 65 mm coupling fitted with a suction washer for connection to firefighting equipment; (f) ensure the coupling is accessible and available for connection at all times; (g) ensure the coupling is fitted with a blank cap and securing chain (minimum 220mm length); and (h) ensure underground tanks have either an opening at the top of not less than 250mm diameter or a coupling compliant with this Table; and (i) where a remote offtake is installed, ensure the offtake is in a position that is: <ul style="list-style-type: none"> (i) visible; (ii) accessible to allow connection by firefighting equipment; (iii) at a working height of 450mm – 600mm above ground level; and (iv) protected from possible damage, including damage by vehicles.
D.	Signage for static water connections	<p>The firefighting water point for a static water supply must be identified by a sign permanently fixed to the exterior of the assembly in a visible location. The sign must:</p> <ul style="list-style-type: none"> (a) comply with water tank signage requirements within AS 2304; or (b) comply with the TFS Water Supply Signage Guideline.
E.	Hardstand	<p>A hardstand area for fire appliances must be provided:</p> <ul style="list-style-type: none"> (a) no more than three metres from the firefighting water point, measured as a hose lay (including the minimum water level in dams, swimming pools and the like); (b) no closer than six metres from the building area to be protected; (c) a minimum width of three metres constructed to the same standard as the carriageway; and (d) connected to the property access by a carriageway equivalent to the standard of the property access.

CERTIFICATE OF QUALIFIED PERSON – ASSESSABLE ITEM

Section 321

Form **55**

To: Owner /Agent
 Address
 Suburb/postcode^a

Qualified person details:

Qualified person:
Address: Phone No:
 Fax No:
Licence No: Email address:

Qualifications and Insurance details: (description from Column 3 of the Director's Determination - Certificates by Qualified Persons for Assessable Items)

Speciality area of expertise: (description from Column 4 of the Director's Determination - Certificates by Qualified Persons for Assessable Items)

Details of work:

Address: Lot No:
 Certificate of title No:

The assessable item related to this certificate: (description of the assessable item being certified)
Assessable item includes –
- a material;
- a design
- a form of construction
- a document
- testing of a component, building system or plumbing system
- an inspection, or assessment, performed

Certificate details:

Certificate type: (description from Column 1 of Schedule 1 of the Director's Determination - Certificates by Qualified Persons for Assessable Items n)

This certificate is in relation to the above assessable item, at any stage, as part of - (tick one)

building work, plumbing work or plumbing installation or demolition work:

or

a building, temporary structure or plumbing installation:

In issuing this certificate the following matters are relevant –

Documents:	Bushfire Hazard Report dated 22 February 2022 and Bushfire Hazard Management Plan dated 22 February 2024
Relevant calculations:	Contained in above report
References:	Directors Determination – Bushfire Hazard Areas, AS3959:2018 and Site Plan Rosene Cox dated 07/02/2024.

Substance of Certificate: (what it is that is being certified)

Analysis and reporting of bushfire hazard assessment and determination of bushfire attack level.

Proposal is assessed as: **BAL 19**

Scope and/or Limitations

Scope

This report and certification was commissioned to identify the Bushfire Attack Level for the existing property and new dwelling. All comment, advice and fire suppression measures are in relation to compliance with Directors Determination – Bushfire Hazard Areas, the *Building Act & Regulations, Building Code of Australia* and *Australian Standard 3959, Construction of buildings in bushfire-prone areas.*

Limitations

The assessment has been undertaken and report provided on the understanding that;-
The report only deals with the potential bushfire risk all other statutory assessments are outside the scope of this certificate.
The report only identifies the size, volume and status of vegetation at the time the site inspection was undertaken and cannot be relied upon for any future development.
Impacts of future development and vegetation growth have not been considered.
No assurance is given or inferred for the health, safety or amenity of the general public, individuals or occupants in the event of a Bushfire.
No warranty is offered or inferred for any buildings constructed on the property in the event of a bushfire.
No action or reliance is to be placed on this certificate or report; other than for which it was commissioned.

I certify the matters described in this certificate.

Qualified person:	<i>Signed:</i> 	<i>Certificate No:</i> 9198-1	<i>Date:</i> 22 Feb 2024
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CERTIFICATE OF THE RESPONSIBLE DESIGNER

Section 94
Section 106
Section 129
Section 155

To: *Owner name*
 Address
 Suburb/postcode

Form **35**

Designer details:

Name: Category:

Business name: Phone No:

Business address:
 Fax No:

Licence No: C/O Email address:

Details of the proposed work:

Owner/Applicant: Designer's project reference No.:

Address: Lot No:

Type of work: Building work Plumbing work (X all applicable)

Description of work:

Building Class: 10a
New Steel Framed Portal Frame Shed

(new building / alteration / addition / repair / removal / re-erection / water / sewerage / stormwater / on-site wastewater management system / backflow prevention / other)

Description of the Design Work (Scope, limitations or exclusions): (X all applicable certificates)

Certificate Type:	Certificate	Responsible Practitioner
	<input type="checkbox"/> Building design	Architect or Building Designer
	<input checked="" type="checkbox"/> Structural design	Engineer or Civil Designer
	<input type="checkbox"/> Fire Safety design	Fire Engineer
	<input type="checkbox"/> Civil design	Civil Engineer or Civil Designer
	<input type="checkbox"/> Hydraulic design	Building Services Designer
	<input type="checkbox"/> Fire service design	Building Services Designer
	<input type="checkbox"/> Electrical design	Building Services Designer
	<input type="checkbox"/> Mechanical design	Building Service Designer
	<input type="checkbox"/> Plumbing design	Plumber-Certifier; Architect, Building Designer or Engineer
	<input type="checkbox"/> Other (specify)	
Deemed-to-Satisfy: <input checked="" type="checkbox"/>		Performance Solution: <input type="checkbox"/> (X the appropriate box)

Flood Design Parameters (if required)

Inundation – The building requires a minimum of two (2) opposing door openings with a maximum flood height of 1.5m at a max flood velocity of 0.5 m/s

Flow – The building requires a minimum of four (4) door openings, min of 1 each side of the structure, with the absolute maximum flood height of 0.5 m at a max flood velocity of 1.0 m/s

Design documents provided:

The following documents are provided with this Certificate –

Document description:

Design Documents (Certificate Reference # 391707): Wind Load Certificate (1 Page), Building Elevations, Compliance Statement , Typical Details (2 Pages), Bracing Locations, Column and Mullion Locations, Pier and Slab Details, Fly Brace Locations, Purlin & Girt Layout, Slab & Foundation Details, General Notes (1 Page)

Additional Documents:

Schedules:	Prepared by:	Date:
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Specifications:	Prepared by:	Date:
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Computations:	Prepared by:	Date:
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Performance solution proposals:	Prepared by:	Date:
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Test reports:	Prepared by:	Date:
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Standards, codes or guidelines relied on in design process:

- AS 1170.0 General Principals (2002)
 - AS 1170.1 Permanent, Imposed & Other Actions (2002)
 - AS 1170.2 Wind Actions (2021)
 - AS 1170.3 Snow and Ice Actions (2003)
 - AS 1170.4 Earthquake Actions (2007)
 - AS 4100 Steel Structures Code (2020)
 - AS 4600 Cold Formed Steel Structure (2018)
 - AS 3600 Concrete Code (2018)
 - AS 4505 Garage Doors and Large Access Doors (2021)
 - AS 2870 Residential Slabs and Footings (2011)
 - AS 2312.2 Protection of Structural Steel Against Atmospheric Corrosion by the Use of Protective Coatings – Hot Dip Galvanizing
- Building Code of Australia Volume 1 & 2 (as applicable)
Current BCA 2022


Any other relevant documentation:

Attribution as designer:

I, Graeme C Moulston am responsible for the design of that part of the work as described in this certificate.

The documentation relating to the design includes sufficient information for the assessment of the work in accordance with the *Building Act 2016* and sufficient detail for the builder or plumber to carry out the work in accordance with the documents and the Act.

This certificate confirms compliance and is evidence of suitability of this design with the requirements of the National Construction Code.

	<i>Name: (print)</i>	<i>Signed</i>	<i>Date</i>
Designer:	Graeme C Moulston		31/01/2024
Licence No:	CC5814L		

Assessment of Certifiable Works: (TasWater)

Note: single residential dwellings and outbuildings on a lot with an existing sewer connection are not considered to increase demand and are not certifiable.

If you cannot check ALL of these boxes, LEAVE THIS SECTION BLANK.

TasWater must then be contacted to determine if the proposed works are Certifiable Works.

I confirm that the proposed works are not Certifiable Works, in accordance with the Guidelines for TasWater CCW Assessments, by virtue that all of the following are satisfied:

- The works will not increase the demand for water supplied by TasWater
- The works will not increase or decrease the amount of sewage or toxins that is to be removed by, or discharged into, TasWater's sewerage infrastructure
- The works will not require a new connection, or a modification to an existing connection, to be made to TasWater's infrastructure
- The works will not damage or interfere with TasWater's works
- The works will not adversely affect TasWater's operations
- The work are not within 2m of TasWater's infrastructure and are outside any TasWater easement
- I have checked the LISTMap to confirm the location of TasWater infrastructure
- If the property is connected to TasWater's water system, a water meter is in place, or has been applied for to TasWater.

Certification:

I being responsible for the proposed work, am satisfied that the works described above are not Certifiable Works, as defined within the *Water and Sewerage Industry Act 2008*, that I have answered the above questions with all due diligence and have read and understood the Guidelines for TasWater CCW Assessments.

Note: the Guidelines for TasWater Certification of Certifiable Works Assessments are available at: www.taswater.com.au

	<i>Name: (print)</i>	<i>Signed</i>	<i>Date</i>
Designer:			



Burnie Sheetmetal

ABN: 90 976 703 289 Phone: 0448 313 622
 Address: 10 PHILLIP ST
 WIVENHOE TAS 7320
 Email: workshop@burnieplumbing.com.au
 Web: www.burnieplumbing.com.au

Order

No: **391707**
 Date: 30/01/2024

Windload Certificate (AS/NZS 1170.2:2021)

ITEM	DESIGN VALUE & DETAILS
Compliance Details	
1	Shed Supplier Burnie Sheetmetal
2	Shed Engineer Graeme Moulston & Associates Engineering Pty Ltd
3	Compiled By Burnie Sheetmetal
Building Details	
4	Building Description Skillion Garage/Shed
5	BCA Classification 10a
6	Length 20.00m
7	Width 8.00m
8	Eave Height 4.05m
Site Details	
9	Site Address 276 Reservoir Drive Wynyard TAS, 7325
10	Wind Region A4
11	Importance Level 2
12	Annual Probability of Wind Exceedance 1:500
13	Climate Change Multiplier 1
14	Regional Wind Speed (m/s) 45.00
15	Wind Direction Multiplier 1.00
16	Terrain Category 2.50
17	Terrain/Height Multiplier 0.87
18	Shielding Multiplier 1.00
19	Topographic Multiplier 1.00
20	Design Wind Speed (m/s) 39.15
21	Design Wind Pressure (kPa) 0.92

This shed has been designed for internal pressure coefficients, $k_v \times C_{pi} = +0.69$ & -0.57 .
 Roller door strength is not critical to design

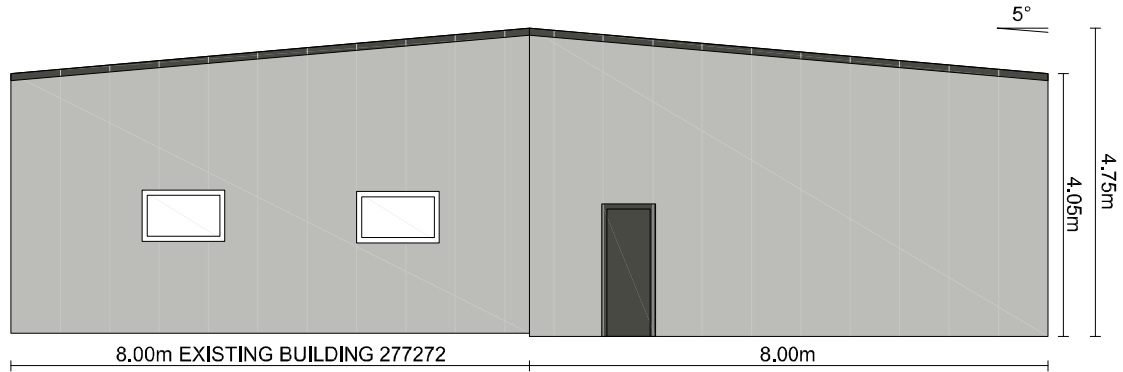


Burnie Sheetmetal

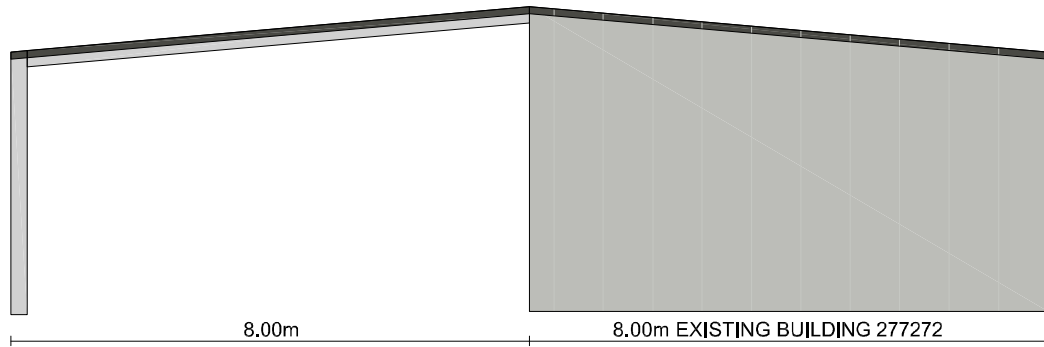
ABN: 90 976 703 289 Phone: 0448 313 622
Address: 10 PHILLIP ST WIVENHOE TAS 7320
Email: workshop@burnieplumbing.com.au
Web: www.burnieplumbing.com.au

Order

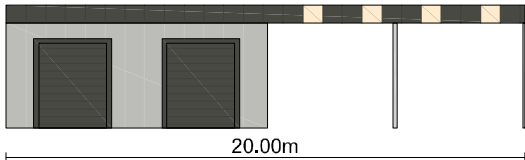
No: **391707**
Date: 30/01/2024



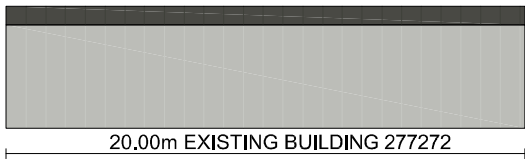
FRONT VIEW



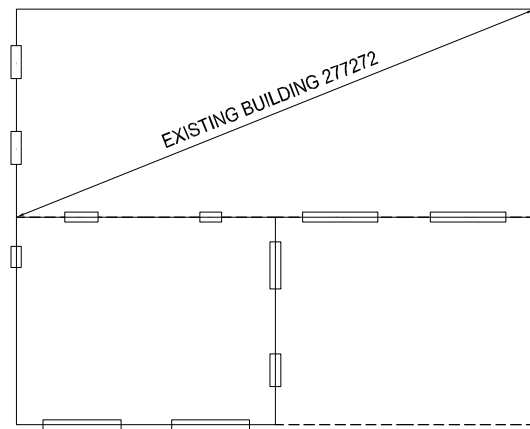
REAR VIEW



FRONT ELEVATION



REAR ELEVATION



PLAN VIEW



Shed Kit Compliance Statement

I certify that the shed kit components listed below are structurally adequate for their purpose. This document takes precedence over selections from tables in the standard drawings.

Signed:

Date: 31 January 2024

Skillion Portal Frame Shed Specifications	
Length	20.00 m
Width	8.00 m
Height	4.05 m
Roof Style	Skillion
Roof Pitch	5.0°
Bay Count	4
Bay Sizes	5.00m, 5.00m, 5.00m, 5.00m
Roof Cladding	Corrugated 0.42 BMT Woodland Grey
Roof Screws	12-14x42 SDM HEX SEAL
Wall Cladding	Steelclad 0.42 BMT Shale Grey
Wall Screws	10-16x16 Hex Neo
Roller-Doors	2 x Series "B" Roller-Door (3450 x 3000)
P/A Doors	1 x Personal Access Door (2040 x 820)
Glass Doors	1 x Glass Sliding Door (2110 x 1820)
Windows	1 x Window (790 x 1274)
Roller Door Compliance	This shed has been designed for internal pressure coefficients, $k_v \times C_{pi} = +0.69$ & -0.57 . Roller door strength is not critical to
Piers with Slab	Option 1: 300Φ×500mm Deep (4×N12)* Option 2: 450Φ×350mm Deep (No Reo)* (Refer to Pier & Slab Details)
Piers Only	Option 1: 300Φ×1250mm Deep (4×N12)* Option 2: 450Φ×1400mm Deep (4×N16)*

Job Details	
Order Number	391707
Customer Name	brett perry
Site Address	276 Reservoir Drive, Wynyard TAS 7325, Australia
Wind Design Code	AS/NZS 1170.2:2021

Kit Components	
Front End Frame	C25019
Internal Frame	B2B-C25019
Back End Frame	B2B-C25019
Knee Braces	C20019 (4 @ 1.585m)
Roof Purlin Type	TopHat 120mm 1.00 BMT Lapped
Roof Purlin Spacing	892 mm
Side Wall Girt Type	TopHat 120mm 1.00 BMT Lapped
Side Wall Girt Spacing	1200 mm
End Wall Girt Type	TopHat 120mm 1.00 BMT Lapped
End Wall Girt Spacing	1200 mm
Eave Purlins	C15012
Roof & Wall Bracing	Refer to Bracing Locations
Mullions	Refer to Slab Layout

* The pier design assumes Class M (AS2870-2011) Firm to Stiff Clay with a 100 kPa minimum safe bearing capacity. For other soil conditions, an engineer's advice should be sought.

1. Typical Details

<p>SIZE BRACKET BOLTS C250 3 mm M16/4,8</p> <p>2/6 G350 FOLDED BRACKETS 4 BOLTSETS TO RAFTER WEB 4 BOLTSETS TO RAFTER FLANGE 6 BOLTSETS TO COLUMN WEB</p>	<p>SIZE BOLTS C100 M12/4,8 C150 M12/4,8 C200 M16/4,8 C250 M16/4,8</p> <p>3 mm G350 FOLDED BRACKET 8 BOLTSETS TO AWNING RAFTER WEB 2 BOLTSETS TO COLUMN FLANGE</p>	<p>SIZE BRACKET BOLTS C250 3 mm M16/8,8</p> <p>G350 FOLDED BRACKET 4 BOLTSETS TO RAFTER WEB 2 BOLTSETS TO RAFTER FLANGE 6 BOLTSETS TO COLUMN WEB</p>	<p>SIZE BOLTS C100 M12/4,8 C150 M12/4,8 C200 M16/4,8 C250 M16/4,8</p> <p>2/3 mm G350 FOLDED BRACKET 2 BOLTSETS TO AWNING RAFTER WEB 4 BOLTSETS TO COLUMN FLANGE</p>
<p>K1 B2B KNEE PLATE CONNECTION (B2BC250)</p>	<p>A1 AWNING RAFTER CONNECTION (C100 to C250)</p>	<p>K2 SINGLE KNEE PLATE CONNECTION (C250)</p>	<p>A1 B2B AWNING RAFTER CONNECTION (C100 to C250)</p>
<p>4xM16/4,8 BOLTSETS TO COLUMN WEBS NOTE: SITE CUT KNEE BRACE FLANGES TO SUIT AND SITE DRILL AS REQUIRED.</p> <p>B2B KNEE BRACE B2B COLUMN</p> <p>NOTE: CONNECTION TO RAFTER SIMILAR</p>	<p>SIZE BRACKET BOLTS C100 2,4 mm* M12/4,8 C150 3 mm* M12/4,8 C200 5 mm* M16/8,8 C250 5 mm* M16/8,8</p> <p>* G300 * G350</p> <p>HINGE UP BRACKET 4 BOLTSETS PER COLUMN FLANGE 4-M16 x 190 CHEMICAL ANCHORS (TYP)</p>	<p>SIZE BRACKET BOLTS C100 2,4 mm* M12/4,8 C150 3 mm* M12/4,8 C200 5 mm* M16/8,8 C250 5 mm* M16/8,8</p> <p>* G300 * G350</p> <p>HINGE UP BRACKET 2 BOLTSETS PER COLUMN FLANGE 2-M16 x 190 CHEMICAL ANCHORS (TYP)</p>	<p>SIZE BRACKET BOLTS ANCHORS C100 2,4 mm* M12/4,8 M12 x 160 C150 3 mm* M12/4,8 M12 x 160 C200 3 mm* M16/8,8 M16 x 190 C250 4 mm* M16/8,8 M16 x 190</p> <p>* G300 * G350</p> <p>ANGLE BRACKET 2 BOLTSETS TO WEB 2 CHEMICAL ANCHORS</p>
<p>K5 B2B KNEE BRACE (B2BC20019 & B2BC25019) TO B2B FRAME</p>	<p>B1 B2B COLUMN WITH HINGE UP BASE BRACKET (B2BC100 to B2BC250)</p>	<p>B2 COLUMN WITH HINGE UP BASE BRACKET (C100 to C250)</p>	<p>B3 COLUMN / MULLION WITH FOOTING ANGLE BASE BRACKET (C100 to C250)</p>
<p>SIZE BRACKET C100 2,4 mm C150 3 mm C200 3 mm C350 3 mm C400</p> <p>G350 BRACKET 4-14g TEKs TO MULLION WEB 4-14g TEKs TO RAFTER WEB</p>	<p>2/3 mm G350 BRACKETS 2-M16/4,8 BOLTSETS TO RAFTER FLANGES 2-M16/4,8 BOLTSETS TO MULLION WEB</p>	<p>4-12g TEKs TO TOPHAT TO RAFTER / COLUMN FLANGE 2-12g TEKs TO TOPHAT LIPS EACH END</p> <p>DO NOT FIX ON OUTSIDE OF THIRD OF THE FLANGE</p> <p>NOTE: FOR B2B RAFTER / COLUMN SECTIONS, FIX 2 TEKs TO EACH SECTION</p>	<p>4-12g TEKs TO SIDEWALL GIRT TO COLUMN FLANGE 4-12g TEKs TO TOPHAT TO COLUMN LIPS</p>
<p>M1 SINGLE MULLION TO SINGLE RAFTER CONNECTION (UNDERNEATH)</p>	<p>M2 SINGLE MULLION TO B2B RAFTER CONNECTION (UNDERNEATH)</p>	<p>P1 TOPHAT PURLIN / GIRT TO RAFTER / COLUMN CONNECTION (61/64/96/120)</p>	<p>G1 TOPHAT WALL GIRT TO CORNER COLUMN (61/64/96/120)</p>
<p>3 mm BMT G350 FOLDED BRACKET 2-M12/4,8 FLAT HEAD BOLTSETS TO EAVE PURLIN WEB 1-M12/4,8 BOLTSET TO EAVE PURLIN FLANGE 2-M12/4,8 BOLTSETS TO COLUMN FLANGE (ONSITE DRILLING REQUIRED)</p> <p>NOTE: DETAIL SIMILAR FOR INTERNAL BACK TO BACK FRAME</p>	<p>3 mm BMT G350 FOLDED BRACKET 2-M12/4,8 FLAT HEAD BOLTSETS TO EAVE PURLIN WEB PER END 1-M12/4,8 BOLTSET TO EAVE PURLIN FLANGE PER END 2-M12/4,8 BOLTSETS TO COLUMN FLANGE (ONSITE DRILLING REQUIRED)</p>	<p>SIZE MAXIMUM BOLT SPACING BOLT SIZE C100/C150 800 mm M12/4,8 C200 1000 mm C250 1000 mm C300 1200 mm C350/C400 1350 mm</p> <p>2 BOLTSETS TO SECTION WEBS AT REPEATED SPACING ALONG MEMBER LENGTH</p> <p>BOLT SPACING NO LARGER THAN SPECIFIED MAXIMUM</p>	<p>REFER TO PURLIN / GIRT CONNECTIONS FOR THIS DETAIL</p> <p>0,75 mm G350 FLAT STRIP 2-12g TEKs TO MEMBER FLANGE 2-12g TEKs TO BATTEN LIPS EACH END</p> <p>SINGLE COLUMN, RAFTER OR MULLION</p>
<p>E1 STANDARD END EAVE PURLIN CONNECTION (C150 to C250)</p>	<p>E2 STANDARD INTERNAL EAVE PURLIN CONNECTION (C150 to C250)</p>	<p>O1 BACK TO BACK CEE SECTIONS (B2BC100 to B2B400)</p>	<p>F1 FLYBRACE TO SINGLE MEMBER AND TOPHAT BATTEN (C100 to C250)</p>

MEMBER & MATERIAL SCHEDULE	
1	Width End Column C25019
2	Width End Rafter C25019
3	Reverse Width End Column B2B-C25019
4	Reverse Width End Rafter B2B-C25019
5	Internal Column B2B-C25019
6	Internal Rafter B2B-C25019
7	Knee Braces C20019
8	Knee Brace Height Up Frame 1,2m
9	Eave Purlin C15012
10	Roof Purlin Size TopHat 120mm 1,00 BMT
11	Roof Purlin Spacing 892mm (Max. 997mm)
12	Roof Purlin Fasteners SDM HEX BARE C4 14-14x22 12G HEAD ON 14g Zinc
13	Side Wall Batten Size TopHat 120mm 1,00 BMT
14	Side Wall Batten Spacing 1200mm (Max. 1379mm)
15	Side Wall Batten Fasteners SDM HEX BARE C4 14-14x22 12G HEAD ON 14g Zinc
16	End Wall Batten Size TopHat 120mm 1,00 BMT
17	End Wall Batten Spacing 1200mm (Max. 1500mm)
18	End Wall Batten Fasteners SDM HEX BARE C4 14-14x22 12G HEAD ON 14g Zinc
19	Column Holddown Bracket Hinge Up Bracket Attached to Slab
20	Mullion Anchor Bolts Chemset Stud 16 x 190 with Nut-Washer
21	Frame Screw Fasteners 14-14x22 Hex
22	Frame Bolt Fasteners M16 x 40 Gr6,8 Std Purlin Assembly
23	Roof Sheeting Corrugated 0,42 BMT Woodland Grey
24	Roof Sheeting Fasteners 12-14x42 SDM HEX SEAL
25	Wall Sheeting Steelstud 0,42 BMT Hex Grey
26	Wall Sheeting Fasteners 10-16x16 Hex Neo
27	Roller Door Colour Woodland Grey
28	Glass Sliding Door Colour Woodland Grey
29	P.A. Door Colour Woodland Grey
30	Window Colour Woodland Grey
31	Gutter Square Gutter
32	Rain Goods Colour Woodland Grey
33	Down Pipe Downpipe 90mm Dia
34	Down Pipe Colour Shake Grey
35	Corner Flashing Colour Shake Grey
36	Ridge Capping Colour Woodland Grey
37	Barge Capping Colour Woodland Grey
38	Opening Flashing Colour Shake Grey
39	Beam Flashing Colour Woodland Grey
40	Eave Flashing Colour Shake Grey



Site Details
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Shed Sold By
Burnie Sheetmetal
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10 PHILLIP ST
WIVENHOE TAS 7320
P: 0448 313 622
W: www.burnieplumbing.com.au
E: workshop@burnieplumbing.com.au

Specifics
Shed Order Number: 391707
- The design and details shown on these drawings are applicable to this project only
- Details are not to scale

1. Typical Details

<p>REFER TO PURLIN / GIRT CONNECTIONS FOR THIS DETAIL</p> <p>0.75 mm G550 FLAT STRIP 4-12g TEKS TO MEMBER FLANGE 2-12g TEKS TO BATTEN LIPS EACH END</p> <p>DOUBLE COLUMN, RAFTER OR MULLION</p>	<p>REFER TO PURLIN / GIRT CONNECTIONS FOR THIS DETAIL</p> <p>0.75 mm G550 FLAT STRIP 2-12g TEKS TO MEMBER FLANGE 2-12g TEKS TO BATTEN LIPS EACH END</p> <p>COLUMN, RAFTER OR MULLION</p>	<p>30mm STRAP 2-14-14x22 TEKS TO EACH COLUMN FLANGE LIP</p> <p>30mm STRAP 2-14-14x22 TEKS TO COLUMN FLANGE FOLD STRAP AROUND COLUMN/MULLION 2-14-14x22 TEKS TO COLUMN WEB</p> <p>COLUMN OR MULLION</p> <p>D = 10mm MIN. DISTANCE TO EDGE OF LIP</p> <p>NOTE: TEKS SHALL BE POSITIONED 20mm MIN. TO STRAP END AND 10mm MIN. TO STRAP EDGE</p> <p>END WALL BRACING</p> <p>SIDE WALL BRACING</p>	<p>NOTE: TEKS SHALL BE POSITIONED 20mm MIN. TO STRAP END AND 10mm MIN. TO STRAP EDGE</p> <p>30mm STRAP 2-14-14x22 TEKS TO RAFTER FLANGE FOLD STRAP AROUND RAFTER 2-14-14x22 TEKS TO RAFTER WEB</p> <p>COLUMN</p> <p>30mm STRAP 2-14-14x22 TEKS TO RAFTER FLANGE</p>												
<p>F2 FLYBRACE TO B2B MEMBER AND TOPHAT BATTEN (B2BC100 TO B2BC250)</p>	<p>F3 FLYBRACE TO END MEMBER AND TOPHAT BATTEN (C100 TO C250 & B2BC100 TO B2BC250)</p>	<p>X1 WALL BRACING - 30mm STRAP</p>	<p>X2 ROOF BRACING - 30mm STRAP</p>												
<p>0.420/0.48mm BMT CORRUGATED SHEETING</p> <p>ROOF PURLIN</p> <p>FIXING: 5-41 2-14 x 35 TEKS PER SHEET</p>	<p>0.350/0.42/0.48mm BMT RIBBED SHEETING</p> <p>WALL GIRT</p> <p>FIXING: 4-#10-16 x 16 TEKS PER SHEET PER WALL GIRT</p>	<p>3mm G350 AC ANGLE BRACKET 2-M12 x 75 SLEEVE ANCHORS</p> <p>ROLLER DOOR POST</p>	<p>3mm G350 AC ANGLE BRACKET 2-M12 x 46 BOLT SETS TO ROLLER DOOR POST WEB</p> <p>ROLLER DOOR POST</p> <p>EAVES BEAM</p>												
<p>R1 CORRUGATED ROOF SHEETING FIXING</p>	<p>W1 RIBBED WALL SHEETING FIXING</p>	<p>D1 ROLLER DOOR POST ANGLE BASE CONNECTION (C150 TO C250)</p>	<p>D2 ROLLER DOOR POST TO EAVES BEAM CONNECTION</p>												
<table border="1"> <tr> <th>TOPHAT</th> <th>BRACKET</th> <th>TOPHAT TO CLEAT TEKS</th> </tr> <tr> <td>61#4</td> <td>1.2 mm</td> <td>2-12g</td> </tr> <tr> <td>96</td> <td>1.5 mm</td> <td>4-12g</td> </tr> <tr> <td>120</td> <td></td> <td></td> </tr> </table> <p>3550 FOLDED CLEAT 2-12g TEKS TO CLEAT TO POST FLANGE 2-12g OR 4-12g TEKS TO ENDWALL GIRT TO CLEAT</p> <p>GIRT</p> <p>ROLLER DOOR POST</p>	TOPHAT	BRACKET	TOPHAT TO CLEAT TEKS	61#4	1.2 mm	2-12g	96	1.5 mm	4-12g	120			<p>1.5mm G350 BRACKET 4-12g TEKS TO ROLLER DOOR POST WEB 4-12g TEKS TO RAFTER WEB</p> <p>ROLLER DOOR POST</p> <p>RAFTER</p>		
TOPHAT	BRACKET	TOPHAT TO CLEAT TEKS													
61#4	1.2 mm	2-12g													
96	1.5 mm	4-12g													
120															
<p>D3 ROLLER DOOR POST TO SIDEWALL TOPHAT GIRT CONNECTION</p>	<p>D4 ROLLER DOOR POST TO RAFTER CONNECTION (C150 TO C250)</p>														

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10	Roof Purlin Size TopHat 120mm 1.00 BMT
11	Roof Purlin Spacing 892mm (Max. 997mm)
12	Roof Purlin Fasteners SDM HEX BARE C4 14-14x22 12G HEAD ON 143 Zinc
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14	Side Wall Batten Spacing 1200mm (Max. 1379mm)
15	Side Wall Batten Fasteners SDM HEX BARE C4 14-14x22 12G HEAD ON 143 Zinc
16	End Wall Batten Size TopHat 120mm 1.00 BMT
17	End Wall Batten Spacing 1200mm (Max. 1500mm)
18	End Wall Batten Fasteners SDM HEX BARE C4 14-14x22 12G HEAD ON 143 Zinc
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38	Opening Flashing Colour Shale Grey
39	Beam Flashing Colour Woodland Grey
40	Eave Flashing Colour Shale Grey

7.03 / 7.03



Site Details

brett perry
276 Reservoir Drive
Wynyard
TAS 7325
M: 0459516444

Shed Sold By

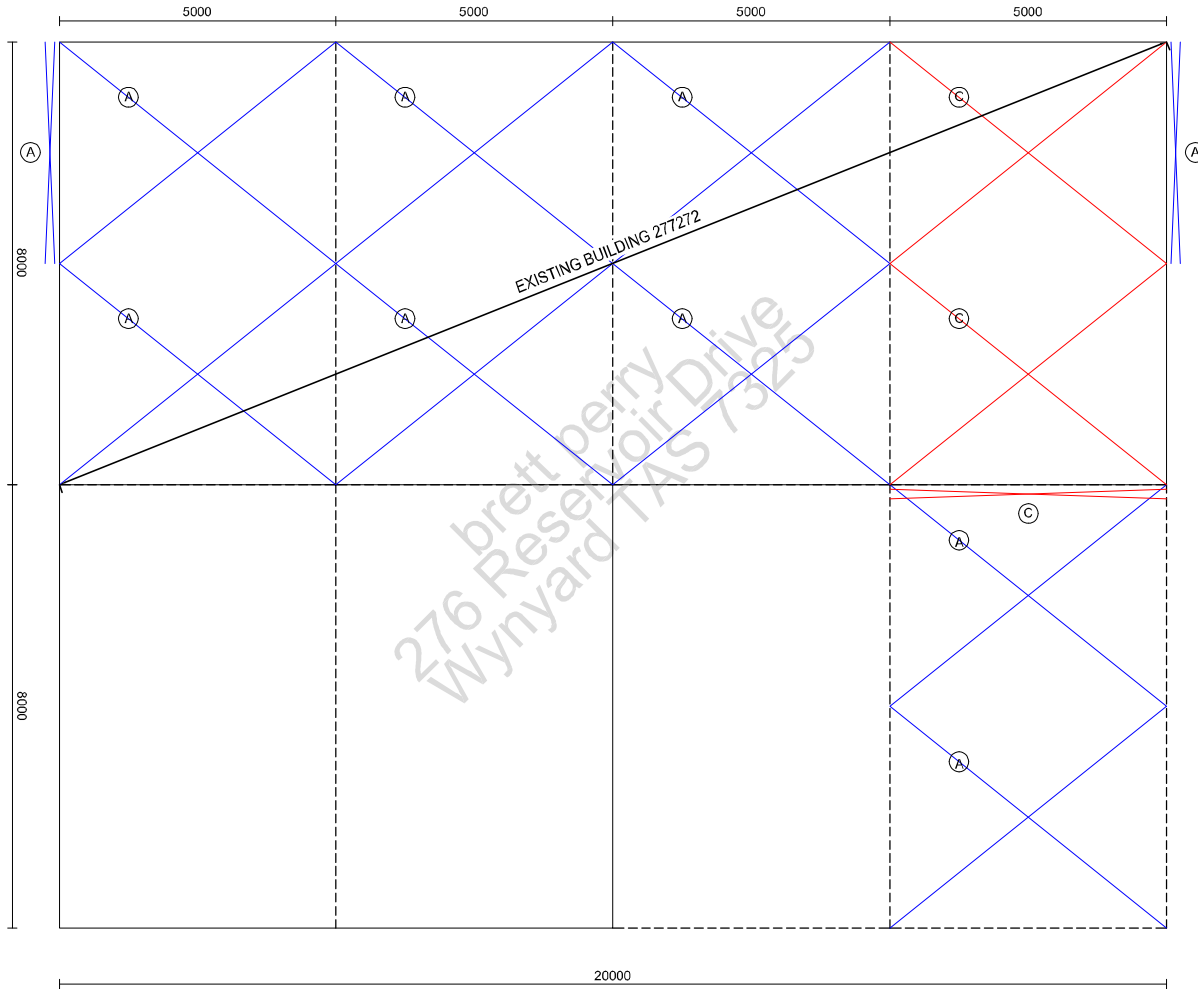
Burnie Sheetmetal
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10 PHILLIP ST
WIVENHOE TAS 7320
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W: www.burnieplumbing.com.au
E: workshop@burnieplumbing.com.au

Specifics

Shed Order Number: 391707

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- Details are not to scale

1. Bracing Locations



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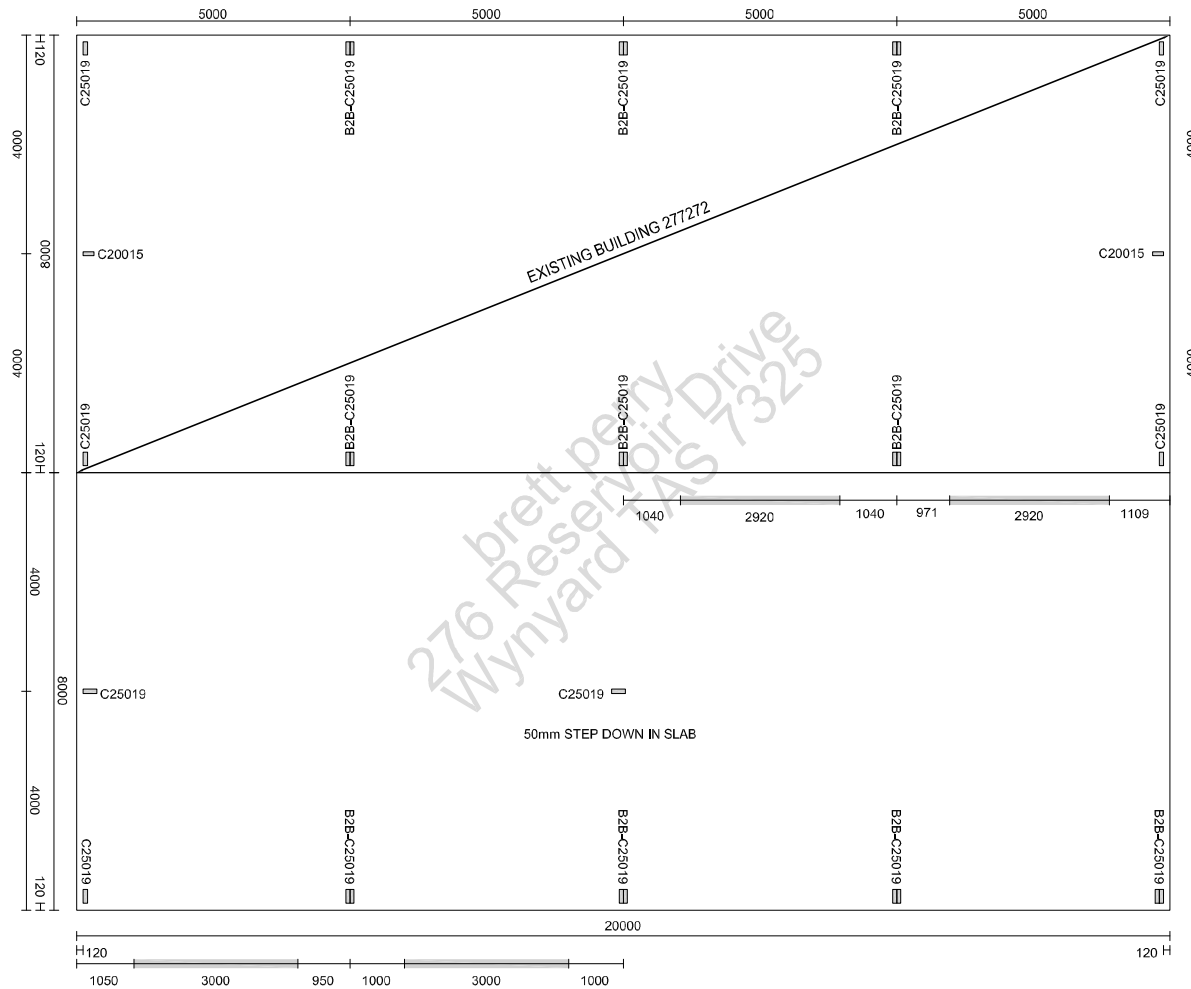
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Bracing Specifics

Shed Order Number: 391707

- (A) 30mm x 1.00mm G550 Strap (Minimum)
- (B) 50mm x 1.20mm G500 Strap (Minimum)
- (C) 12mm Rod
- (D) 16mm Rod

1. Column & Mullion Locations



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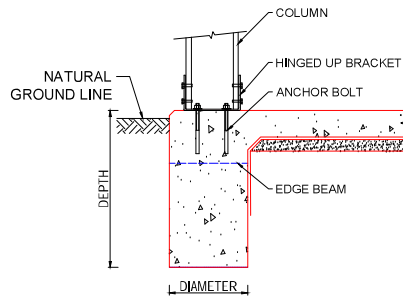
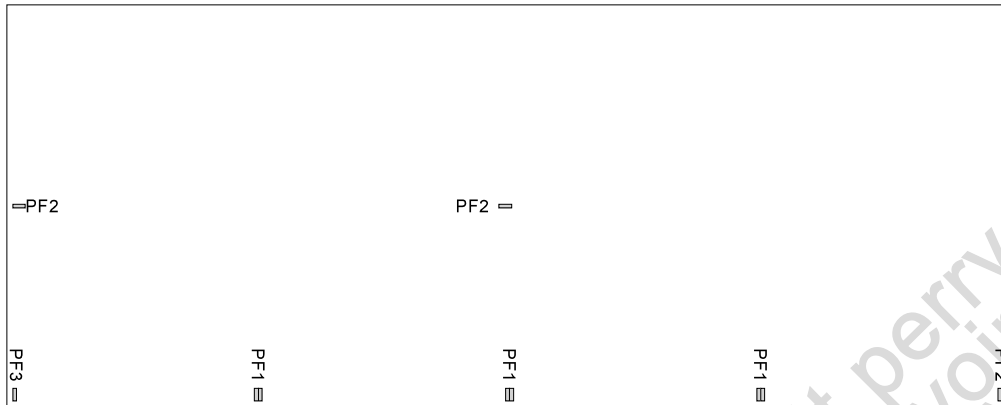
Specifics

Shed Order Number: 391707

Shed Type: Skillion Shed

1. This drawing is not to scale (NTS) and all dimensions are in millimetres unless noted.
2. This drawing should be used in conjunction with the relevant engineering diagrams and hold down brackets specified in the order.

1. Pier & Slab Details



LOCAL FOOTING WITH SLAB

This design assumes Class M (AS2870-2011) Firm to Stiff Clay with a 100 kPa minimum safe bearing capacity. For Class H Firm to Stiff Clay, pier embedments should be a minimum of 1500 mm with steel reinforcement extending to the depths specified in the tables. For other soils, an engineer's advice is to be sought. Refer to the 'Slab & Foundation Details' drawing for slab and edge beam details of domestic structures. Industrial structures should always be referred to an engineer for site-specific designs.

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Option 1: 300 Diameter Piers				
Pier Footing	Diameter (mm)	Depth (mm)	Reinforcement	Ties (mm)
PF1	300	350	-	-
PF2	300	500	4 × N12	R6 - 300
PF3	300	300	-	-

A 100 mm slab is assumed in this design.

Option 2: 450 Diameter Piers				
Pier Footing	Diameter (mm)	Depth (mm)	Reinforcement	Ties (mm)
PF1	450	300	-	-
PF2	450	350	-	-
PF3	450	300	-	-

A 100 mm slab is assumed in this design.



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Specifics

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2. This drawing should be used in conjunction with the relevant engineering diagrams and hold down brackets specified in the order.

1. Fly Brace Locations



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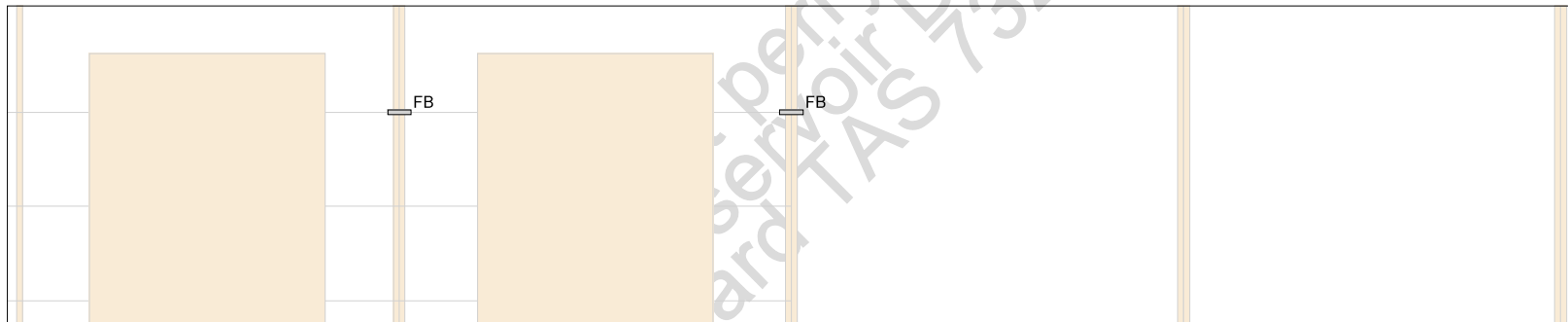
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Fly Brace Specifics

Shed Order Number: 391707
- Roof View

1. Fly Brace Locations



7.03 / 7.03



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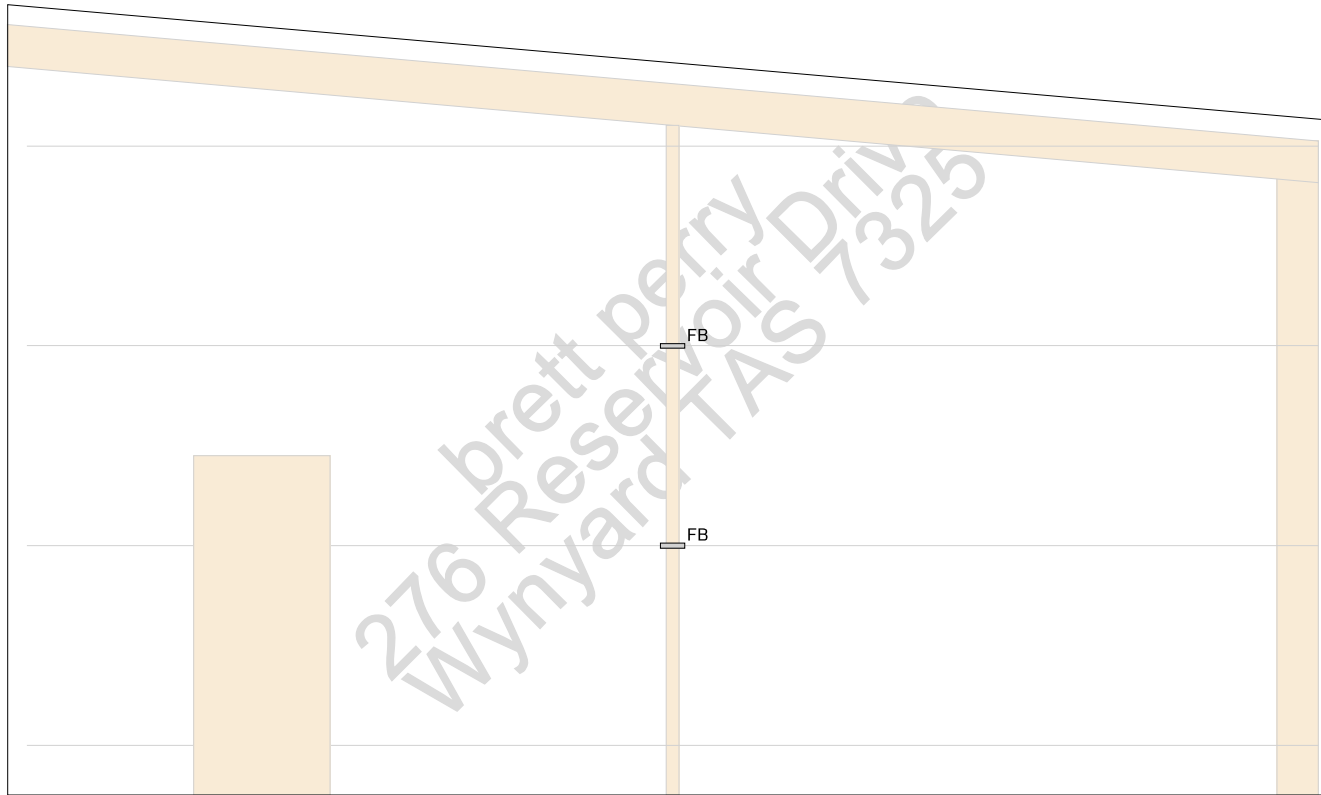
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Fly Brace Specifics

Shed Order Number: 391707
- Length Side View

1. Fly Brace Locations



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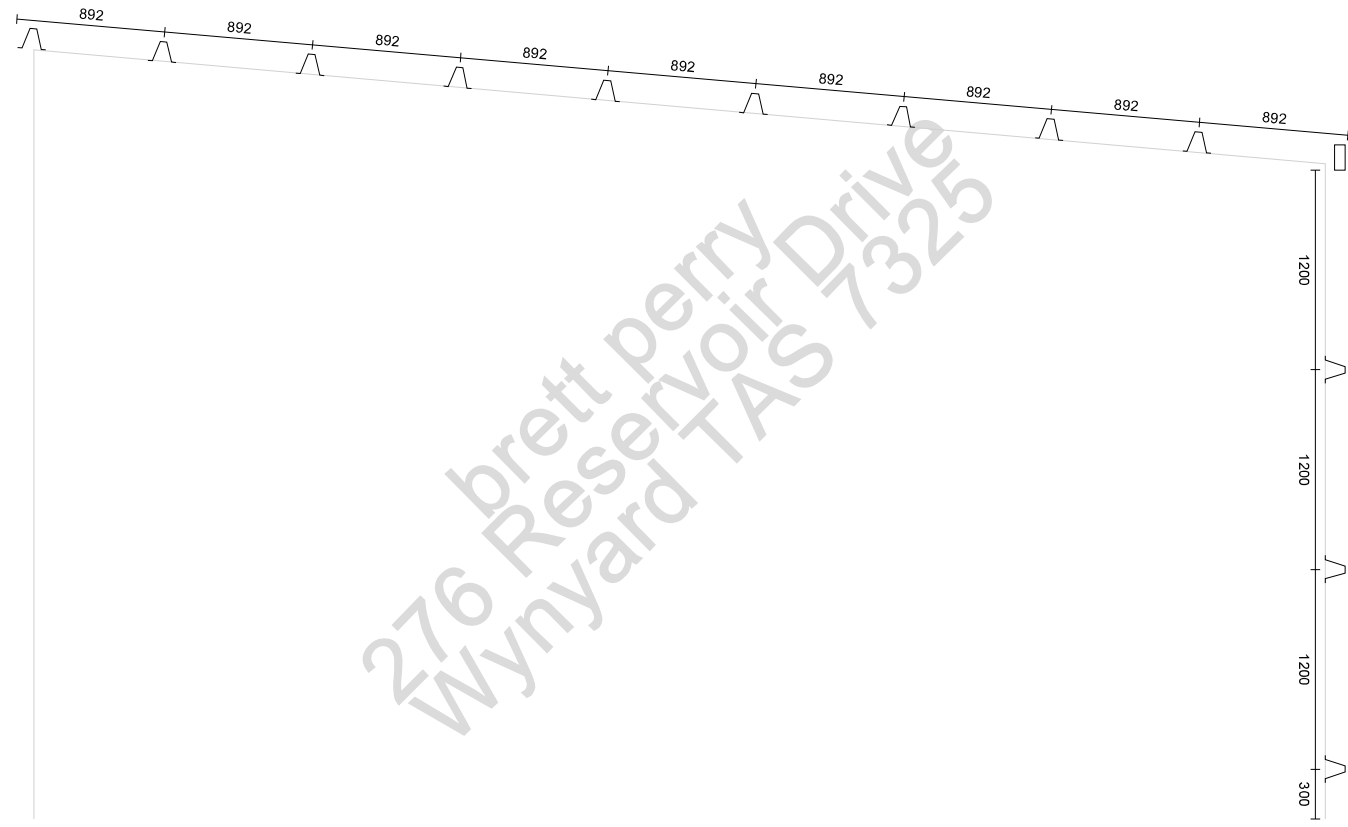
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Fly Brace Specifics

Shed Order Number: 391707
- Width View

1. Purlin & Girt Layout



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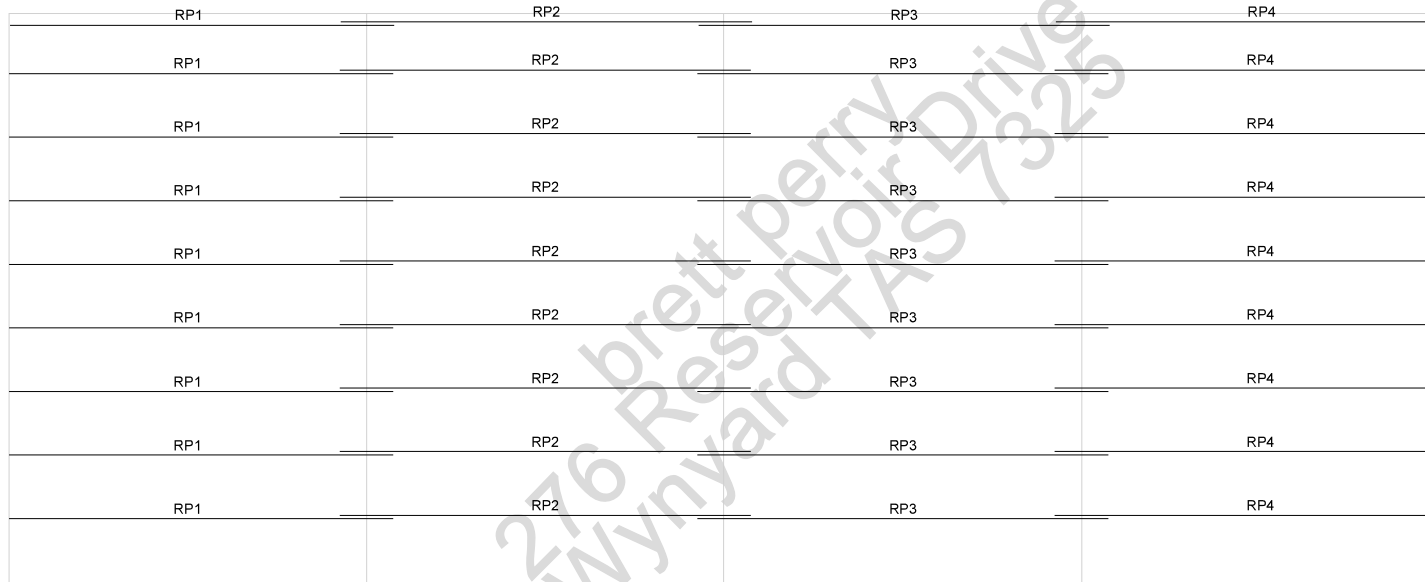


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Purlin & Girt Locations
Shed Order Number: 391707
- Purlin & Girt Spacings
- (*) Place member as close to knee as possible

1. Purlin & Girt Layout



Label	Length
RP1	5.375m
RP2	5.750m
RP3	5.750m
RP4	5.375m

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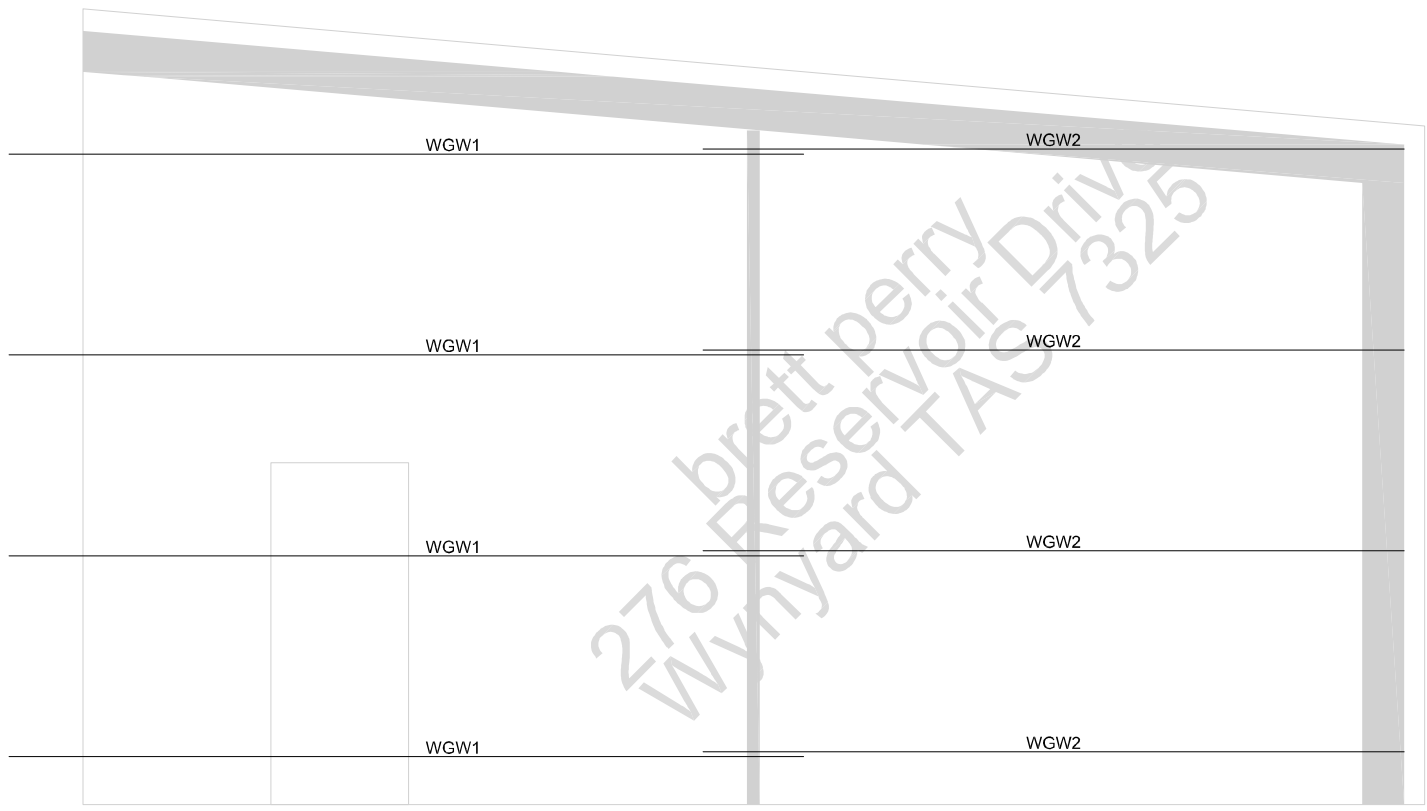
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Purlin & Girt Locations

Shed Order Number: 391707
 - Roof Purlins
 - (*) Place purlins as close to knee as possible

1. Purlin & Girt Layout



Label	Length
WGW1	4,700m
WGW2	4,180m

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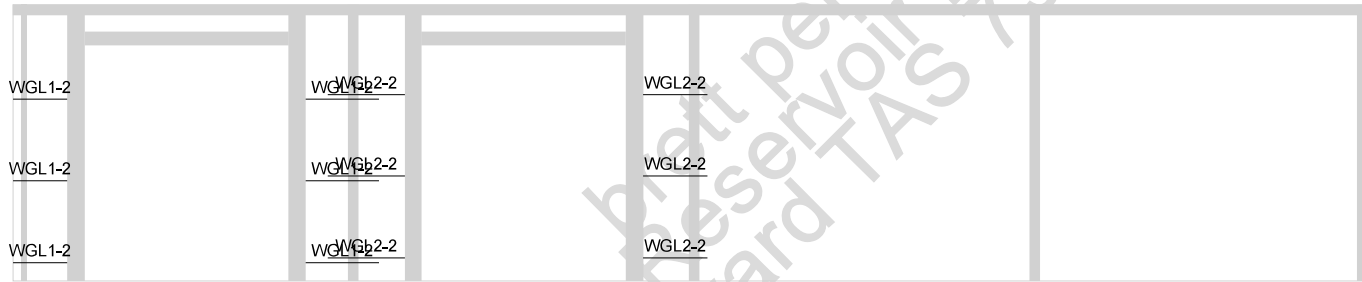


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Purlin & Girt Locations
 Shed Order Number: 391707
 - Width View

1. Purlin & Girt Layout



Label	Length
WGL1-2	1.875m
WGL2-2	2.075m

7.03 / 7.03



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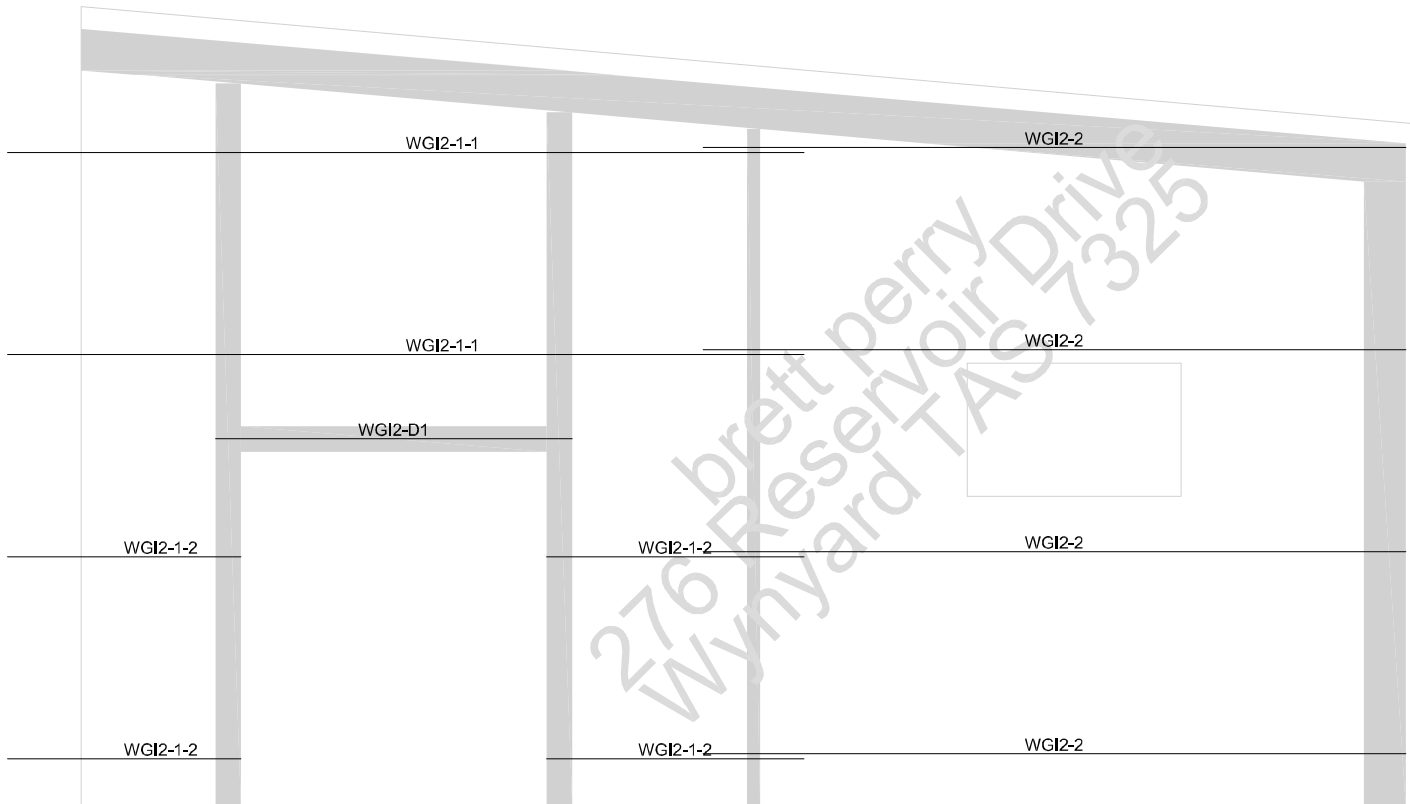
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Purlin & Girt Locations

Shed Order Number: 391707
 - Length View

1. Purlin & Girt Layout



Label	Length
WGI2-1-2	3.060m
WGI2-1-1	4.680m
WGI2-2	4.180m
WGI2-D1	1.820m

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Purlin & Girt Locations

Shed Order Number: 391707
 - Internal Wall View

1. Domestic Slab & Foundation Details

#1 PIER WITH SLAB DETAIL	#2 EDGE BEAM AND SLAB DETAIL	#3 TYPICAL DOMESTIC SLAB DESIGN - PLAN VIEW	#4 CONSTRUCTION JOINT DETAIL
#5 SLAB AND BEAM DESIGN FOR CUT/FILL SITES - PLAN VIEW	#6 SLAB AND BEAM DESIGN ON CUT/FILL SITES - TYPICAL DETAIL IN FILL ZONE		

A 100 mm slab is assumed in this Class M design. For Class H soils, ensure slab is 110 mm minimum. Domestic shed slabs shall be reinforced with SL72 mesh with 30 mm top cover. Slabs placed over spans wider than 15 m shall have SL92 slab mesh and be 150 mm thick as standard. All slabs placed longer than 24 m (one pour) shall have SL92 slab mesh as standard.

Industrial structures should be referred to an engineer for site-specific designs.

7.03 / 7.03



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Specifics

Shed Order Number: 391707
- The design and details shown on this drawing are applicable to domestic shed structures only
- Details are not to scale

5000 - GENERAL NOTES

GOVERNING CODES

BUILDING CODE	NATIONAL CONSTRUCTION CODE
LOADING CODE	AS 1170 (ALL PARTS)
COLD-FORMED STEEL	AS/NZS 4600:2018

DRAWINGS

THESE DRAWINGS AND THE DESIGNS THEY PORTRAY REMAIN THE INTELLECTUAL PROPERTY OF SHEDTECH HOLDINGS PTY LTD. THEIR VALIDITY IS CONDITIONAL TO THE BUILDING BEING SUPPLIED BY A DISTRIBUTOR OF SHED BUILDER.

THESE DRAWINGS MAY BE USED FOR OBTAINING BUILDING APPROVAL AND AIDING CONSTRUCTION. ANY OTHER USE OR REPRODUCTION IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM SHED BUILDER.

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH OTHER WRITTEN INSTRUCTIONS ISSUED BY SHED BUILDER. ALL DISCREPANCIES SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK.

ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE ORDERING. THESE DRAWINGS SHALL NOT BE SCALED.

DESIGN CRITERIA

GENERAL

NCC BUILDING CLASSIFICATION	10a
IMPORTANCE LEVEL	2

VERTICAL LOADING

DEAD LOAD	SELF WEIGHT
COLLATERAL LOAD	0 kPa
LIVE LOAD	0.25 kPa

WIND LOADING

WIND REGION	A4
TERRAIN CATEGORY	TC2.5
SHIELDING MULTIPLIER M_s	1.00
TOPOGRAPHIC MULTIPLIER M_t	1.00
DESIGN WIND SPEED V_{des}	39.2 m/s
INTERNAL PRESSURE COEFFICIENTS k_1, k_2, k_{ps}	-0.57 / +0.69

SNOW LOADING

SITE ALTITUDE	69.7 m
GROUND SNOW LOAD S_g	N/A
ROOF SNOW LOAD S_{roof}	N/A

SOIL PROPERTIES

ALLOWABLE BEARING CAPACITY q_u	100 kPa
UNDRAINED SHEAR STRENGTH S_u	50 kPa
ULTIMATE SHAFT ADHESION f_s	36.75 kPa

CONSTRUCTION

MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE LATEST RELEVANT AUSTRALIAN CODES (AS AMENDED) AND THE STATUTORY AUTHORITIES' REQUIREMENTS INCLUDING WHS REGULATIONS.

SHED BUILDER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN DRAWINGS AND EXISTING SITE CONDITIONS BEFORE CONSTRUCTION.

THE CONTRACTOR MUST NOT DEVIATE FROM THESE DRAWINGS OR MAKE ANY ALTERATIONS (INCLUDING SHEETING REMOVAL) WITHOUT OBTAINING WRITTEN APPROVAL FROM THE CERTIFYING ENGINEER. SHED BUILDER IS NOT RESPONSIBLE FOR CHANGES MADE WITHOUT APPROVAL.

DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART IS OVER-STRESSED. THE BUILDING IS NOT STRUCTURALLY ADEQUATE UNTIL THE INSTALLATION OF ALL COMPONENTS AND DETAILS IN ACCORDANCE WITH THESE DRAWINGS. FOR GUIDANCE ON CONSTRUCTION, THE CONTRACTOR SHOULD CONSULT THE RELEVANT SHED BUILDER CONSTRUCTION GUIDE.

SHED BUILDER AND THE ENGINEER ARE NOT THE PROJECT MANAGERS AND WILL NOT BE PRESENT DURING CONSTRUCTION. THE UNDERSIGNING ENGINEER HAS ONLY REVIEWED THIS BUILDING FOR CONFORMITY TO THE STRUCTURAL DESIGN COMPONENTS OF THE GOVERNING CODE.

THE GOVERNING CODE REQUIRES NO SPECIAL INSPECTIONS ON THIS JOB. ANY OTHER INSPECTIONS REQUESTED BY THE LOCAL AUTHORITIES SHALL BE CONDUCTED AT THE OWNER'S EXPENSE.

DOORS AND WINDOWS SHALL BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS AND DETAILS.

BEFORE WALKING ON ROOF, ENSURE THE ROOF IS TRAFFICABLE AND CONSULT CLADDING MANUFACTURER'S GUIDELINES ON HOW TO DO SO SAFELY AND WITHOUT DAMAGE TO THE PRODUCT.

CONCRETE

ALL CONCRETE DETAILS, MATERIALS AND WORKMANSHIP SHALL BE TO AS 2870 AND AS 3600.

CONCRETE SHALL HAVE A MINIMUM CHARACTERISTIC STRENGTH GRADE OF N25 (28-DAY STRENGTH OF 25MPa), SLUMP TO BE 100mm \pm 15mm WITH MAXIMUM AGGREGATE SIZE OF 20mm.

SLABS TO BE CURED FOR 7 DAYS AFTER PLACEMENT BY AN APPROVED METHOD. THESE INCLUDE:

- MAINTAINING A WET SURFACE
- COVERING THE SLAB WITH PLASTIC MEMBRANE
- SPRAYING WITH FOSROCC CONCURE A99 CURING COMPOUND

REINFORCEMENT SHALL CONFORM TO AS/NZS 4671 AND BE SECURED IN PLACE WHILE CONCRETING BY APPROVED PLASTIC TIPPED BAR CHAIRS, SPACERS OR SUPPORT BARS AT MAX. CENTRES OF 800mm FOR FABRIC, 600mm FOR BARS UP TO 12mm DIAMETER, 900mm FOR BARS 16mm OR GREATER.

ALL REINFORCEMENT SHALL HAVE 30mm MINIMUM TOP COVER AND A MINIMUM SIDE AND BOTTOM COVER OF 40mm IN SLABS AND 50mm IN FOOTINGS. FOR CONCRETE SUBJECT TO REPEATED WETTING/DRYING OR LOCATED 50km FROM COASTLINE, ALL COVER SHALL BE INCREASED BY 10mm.

REINFORCEMENT SYMBOLS & SPLICES (NOTE: REINFORCEMENT WELDING NOT PERMITTED)

'N'	DEFORMED BAR GRADE D500N TO AS/NZS 4671 (600mm LAP FOR N12 & 800mm LAP FOR N16)
'R'	PLAIN ROUND BAR GRADE R250N TO AS/NZS 4671
'SL'	RIBBED REINFORCING MESH GRADE D500L TO AS/NZS 4671 (ONE GRID PLUS 25mm LAP)

ENSURE THAT HOLD DOWN BOLTS ARE NOT OVER-TIGHTENED.

STRUCTURAL STEEL

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100 AND AS/NZS 4600 AND MANUFACTURERS INSTALLATION RECOMMENDATIONS.

ALL COLD-FORMED STRUCTURAL STEEL (INCLUDING SHEETING) SHALL BE MANUFACTURED FROM ZINC GALVANISED (Z350) HIGH STRENGTH STEEL STRIP CONFORMING TO AS/NZS 1397:

GAUGE \leq 1mm	G550 ($f_t = 550$ MPa)
1mm < GAUGE \leq 1.5mm	G500 ($f_t = 500$ MPa)
GAUGE \geq 1.5mm	G450 ($f_t = 450$ MPa)

ALL HOT-ROLLED PLATES SHALL BE MINIMUM GRADE 300 TO AS/NZS 3678.

ALL HOLLOW SECTIONS SHALL BE MINIMUM GRADE 350 TO AS/NZS 1163.

NO WELDING IS TO BE PERFORMED ON THIS BUILDING.

BOLTS SHALL BE IN CONFORMITY WITH AS 4100 AS FOLLOWS:

4.6/S	COMMERCIAL BOLTS TO AS/NZS 1111 & AS/NZS 1112, SNUG TIGHTENED
8.8/S	HIGH STRENGTH STRUCTURAL BOLTS, NUTS AND WASHERS TO AS/NZS 1252, SNUG TIGHTENED

KNEE AND APEX PLATE BOLTS ARE DESIGNED AS FRICTION TYPE TO AS/NZS 1252 AND SHALL BE INSTALLED AND TENSIONED TO AS 4100. AN APPROVED METHOD OF TENSIONING IS 1/3 A TURN PAST SNUG TIGHT (PODGER SPANNER TIGHT).

ROOF AND/OR WALL SHEETING TO AS/NZS 1562 SHALL BE FIXED TO PURLINS OR GIRTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

THE CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE TEMPORARY BRACING AS IS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.

ALL RAINWATER PRODUCTS SHALL COMPLY WITH AS/NZS 2179.1.

ALL BOLTS, NUTS AND WASHERS INCLUDING HOLDDOWNS SHALL BE HOT DIP GALVANISED. GALVANISED ITEMS CAST INTO CONCRETE MUST BE PASSIVATED.

STRUCTURAL SCREWS MUST COMPLY WITH AS/NZS 3566.

FOUNDATIONS

FOUNDATION DESIGN IS VALID FOR FIRM TO STIFF CLAY SOILS WITH AN AS 2870 SITE CLASSIFICATIONS OF M OR BETTER AND WITH AN ALLOWABLE BEARING CAPACITY GREATER THAN THE MINIMUM SPECIFIED IN THE DESIGN CRITERIA. FOR OTHER SOIL CONDITIONS, THE ENGINEER'S ADVICE SHOULD BE SOUGHT FOR A CUSTOMIZED FOUNDATION DESIGN.

REGARDLESS OF SPECIFIED DEPTHS, THE MINIMUM FOUNDATION DEPTH SHALL BE 100mm INTO NATURAL GROUND OR BELOW THE FROST DEPTH SPECIFIED BY THE LOCAL COUNCIL. EXCAVATIONS SHALL BE CLEARED OF LOOSE MATERIAL AND WATER AND THEIR SIDES SHALL BE FORMED WHEN UNSTABLE.

WHERE FOUNDATION MATERIAL DIFFERS FROM THAT DESCRIBED IN THE SITE INVESTIGATION REPORT OR SOFT SPOTS ARE FOUND, SHED BUILDER HEAD OFFICE SHALL BE NOTIFIED AND IF NECESSARY THE MATERIAL SHALL BE EXCAVATED AND BACKFILLED WITH APPROVED SELECT FILL MATERIAL.

SLAB

THE BUILDING AREA IS TO BE STRIPPED OF TOPSOIL AND VEGETATION. EDGE BEAMS SHALL BE FOUNDED ON NATURAL SOIL OR CONTROL COMPACTED FILL.

SLAB/BEAMS ON CUT/FILL SITES MAY USE MASS CONCRETE PIERS PLACED THROUGH FILL, 200mm INTO NATURAL SOIL AT 2.5m CENTRES AS PER DETAILS.

ALL FILL SHALL BE TREATED AS UNCOMPACTED FILL UNLESS IT IS LEVEL 1 CERTIFIED TO AS 3798.

A LAYER OF 200 MICRON PVC SHEETING SHALL BE PLACED UNDER THE SLAB. 50mm CRUSHER DUST IS RECOMMENDED FOR A LEVEL COMPACTED SURFACE.

SOIL CONDITIONS ARE ASSUMED TO BE CLASS M OR BETTER FOR STANDARD SLAB. SLAB AND EDGE BEAMS SHALL BE POURED IN A CONTINUOUS OPERATION.

DOMESTIC SHED SLABS SHALL BE REINFORCED WITH SL72 MESH WITH 30mm TOP COVER. SLABS PLACED OVER SPANS WIDER THAN 15m SHALL HAVE SL92 SLAB MESH AND BE 150mm THICK AS STANDARD. ALL SLABS PLACED LONGER THAN 24m (ONE POUR) SHALL HAVE SL92 SLAB MESH AS STANDARD.

MAXIMUM LENGTH BETWEEN CONSTRUCTION JOINTS OF SLAB SHALL BE:

100mm THICK	18 metres
125mm THICK	24 metres
150mm THICK	30 metres

CONCRETE IS TO BE COMPACTED BY VIBRATION OR OTHER MECHANICAL MEANS. ANY SAW CUTTING OF CRACK CONTROL JOINTS SHALL BE CARRIED OUT WITHIN 24hrs OF THE PLACING OPERATION.

ALL INDUSTRIAL SLAB DESIGNS SHOULD BE REFERRED TO AN ENGINEER FOR A SITE-SPECIFIC DESIGN.

7.03 / 7.03



Site Details

brett perry
276 Reservoir Drive
Wynyard
TAS 7325
M: 0459516444

Shed Sold By

Burnie Sheetmetal
ABN: 90 976 703 289
10 PHILLIP ST
WIVENHOE TAS 7320
P: 0448 313 622
W: www.burnieplumbing.com.au
E: workshop@burnieplumbing.com.au

General Notes

Shed Order Number: 391707

From: [Lyndal Perry](#)
To: [Town Planning](#)
Subject: Re: DA 69/2024 - Invalid Application Letter (Planning)
Date: Friday, 5 April 2024 11:37:48 AM
Attachments: [image001.png](#)
[image002.png](#)

Hi Mario,

Yes, you are correct I missed off the timber decking of the dwelling, which makes up the difference from 376 to 404.

Regards
Lyndal

On Fri, Apr 5, 2024 at 11:13 AM Town Planning <townplanner@warwyn.tas.gov.au> wrote:

Good morning Lyndal,

Could you please clarify the total site coverage, including the proposed development, of the site? Does it exceed the cap 400m²?

If not, it will need revision to the proposal plan submitted with the application since it shows 404m² of total floor area.

If yes, I will use your justification on your email below addressing the Performance Criteria P1 for Clause 11.4.1 of the Planning Scheme.

This to avoid misunderstanding to public as the application will be advertised.

Thanks.

Regards,
Mario Ang

Town Planner

Waratah-Wynyard Council,
21 Saunders Street (PO Box 168)
Wynyard, TAS, 7325
P: 03 6443 8308

E: townplanner@warwyn.tas.gov.au

Working Days

M: 7:30 - 5 | TU: 7:30 - 5 | W: 7:30 - 5 | TH: NWD | F: 7:30 - 5



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From: Lyndal Perry <lyndalperry394@gmail.com>
Sent: Friday, 5 April 2024 10:30 AM
To: Town Planning <townplanner@warwyn.tas.gov.au>
Subject: Re: DA 69/2024 - Invalid Application Letter (Planning)

Morning Mario.

- Shed and extension does not exceed 400m³ actual 376m³ as per site plan

a) both Shed and dwelling are at the highest area of the 5 acre plot and does not impact the topography of the site

b) Storm water will be caught in tanks and the overflow will be absorbed within the 40m of bushland decline to property boundary on the southern side and upto 100m of declined bush on the N/e side

down to Smiths Rd and Reservoir Drive through driveway culverts already in place.

c) Size and shape as Site Plan shows

d) The Original Shed is situated on the rear boundary and the proposed extension and dwelling will not impose on new development

e) all vegetation for building site was removed and cleared prior to purchase

f) Dwellings in the area are all skillion roofed and Iron clad and our development will be the same although not seen from surrounding properties

I hope this meets your requirements.

Regards

Brett and Lyndal Perry

On Wed, Apr 3, 2024 at 9:14 AM Town Planning <townplanner@warwyn.tas.gov.au> wrote:

Good morning Lyndal,

Thank you for the submission of the Certificate of Title 276 Reservoir Drive, Wynyard.

Please also address the RFI as per previous attached correspondence for Clause 11.4.1 of the Rural Living Zone provisions (copy of the zone provision is also attached in my previous email).

Please note that the written address can be done via email and/or in dot point format.

Thanks.

**Regards,
Mario Ang**

Town Planner

Waratah-Wynyard Council,
21 Saunders Street (PO Box 168)
Wynyard, TAS, 7325
P: 03 6443 8308

E: townplanner@warwyn.tas.gov.au

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From: Lyndal Perry <lyndalperry394@gmail.com>
Sent: Wednesday, 3 April 2024 9:02 AM
To: Town Planning <townplanner@warwyn.tas.gov.au>
Subject: Re: DA 69/2024 - Invalid Application Letter (Planning)

Hi, please find attached the required Title showing that we are the current owners of the property.

If you require anything further please let me know.

Regards

Lyndal Perry

On Wed, Apr 3, 2024 at 8:40 AM Town Planning <townplanner@warwyn.tas.gov.au> wrote:

Good morning Lyndal,

Please find attached correspondence regarding planning application DA 69/2024 for a new Dwelling & Shed extension at 276 Reservoir Drive, Wynyard (PID 3595185).

Should you have any further queries, please contact me as per the details below.

Thanks.

**Regards,
Mario Ang**

Town Planner

Waratah-Wynyard Council,

21 Saunders Street (PO Box 168)
Wynyard, TAS, 7325
P: 03 6443 8308

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Brett Perry

276 Reservoir Drive
Shed Extension and New Tiny Home

A01 Cover
A02 Site Plan

Project details:

Land Title Reference Number: 175267
4

Design Wind Speed: N2
Climate Zone: 7
Soil Classification: N/A
BAL Level: N/A
Alpine Area: N/A
Corrosion Environment: N/A

Other Hazards:
(Flooding, Landslip, Dispersive Soils,
Sand Dunes, Mine Subsidence,
Landfill) N/A

Area:
Land: 1.959ha
Existing Floor Area: 160m²
New Floor Area: 244m²
Total Floor Area: 404m²

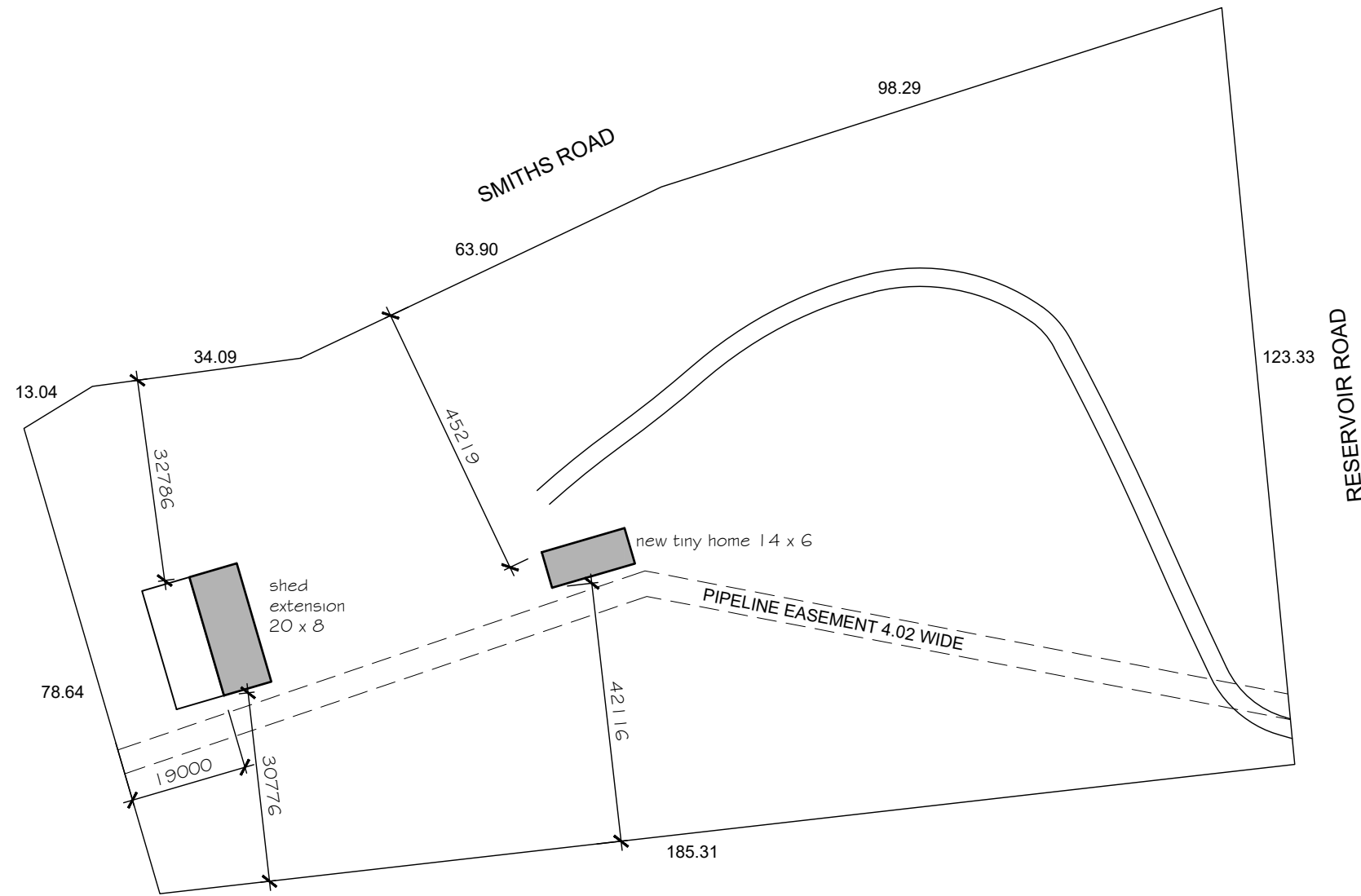
Project Number: 2324-19
Date: 07.02.24

Page
A01
of 2

Rosene Cox

BUILDING DESIGN & DRAFTING
e. rosene.cox@gmail.com m. 0418 171 074
12 Jackson St ABN 84 634 774 986
Wynyard TAS 7325 CC No. CC5197 G

- GENERAL NOTES:
1. Check all dimensions, boundaries, easements and service locations on site
 2. All work shall comply with the current Tasmanian Building Regulations and relevant current Australian Standards, particularly AS2870 (residential slabs and footings) AS3700 (unified masonry code) AS3600 (concrete structures)



SITE PLAN
Scale 1:1000

