DA Form 2 – Building work details

Approved form (version 1.2 effective 7 February 2020) made under Section 282 of the Planning Act 2016.

This form must be used to make a development application involving building work.

For a development application involving **building work only**, use this form (*DA Form 2*) only. The DA Forms Guide provides advice about how to complete this form.

For a development application involving **building work associated and any other type of assessable development** (i.e. material change of use, operational work or reconfiguring a lot), use *DA Form 1 – Development application details* **and** parts 4 to 6 of this form (*DA Form 2*).

Unless stated otherwise, all parts of this form **must** be completed in full and all required supporting information **must** accompany the development application.

One or more additional pages may be attached as a schedule to this development application if there is insufficient space on the form to include all the necessary information.

This form and any other form relevant to the development application must be used to make a development application relating to strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994*, and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008*. For the purpose of assessing a development application relating to strategic port land and Brisbane core port land, any reference to a planning scheme is taken to mean a land use plan for the strategic port land, Brisbane port land use plan for Brisbane core port land, or a land use plan for airport land.

Note: All terms used in this form have the meaning given under the Planning Act 2016, the Planning Regulation 2017, or the Development Assessment Rules (DA Rules).

PART 1 – APPLICANT DETAILS

1) Applicant details	
Applicant name(s) (individual or company full name)	GJ Building Group
Contact name (only applicable for companies)	Gavin Jenkin
Postal address (PO Box or street address)	PO Box 646
Suburb	Mossman
State	Qld
Postcode	4873
Country	Australia
Contact number	0414409815
Email address (non-mandatory)	Gavin.jenkin1@bigpond.com
Mobile number (non-mandatory)	
Fax number (non-mandatory)	
Applicant's reference number(s) (if applicable)	

PART 2 – LOCATION DETAILS

2) Location of the premises (complete 2.1 and 2.2 if applicable)
Note : Provide details below and attach a site plan for any or all premises part of the development application. For further information, see <u>DA</u> <u>Forms Guide: Relevant plans.</u>
2.1) Street address and lot on plan
Street address AND lot on plan (all lots must be listed), or
Street address AND lot on plan for an adjoining or adjacent property of the premises (appropriate for development in water but adjoining or adjacent to land e.g. jetty, pontoon. All lots must be listed).



Unit No.	Street No.	Street Name and Type	Suburb	
		Cape Tribulation Road	Lower Daintre	ee
Postcode	Lot No.	Plan Type and Number (e.g. RP,	SP) Local Govern	ment Area(s)
4873	1	Rp804943	Douglas Shire	e Council
2.2) Additiona	al premises			
		evant to this development applicati	on and the details of the	ese premises have been
Not require ■		2.2.2.21		
Note: Easement	uses vary throughou	ments over the premises? t Queensland and are to be identified corre	ctly and accurately. For furthe	er information on easements and
		relopment, see the <u>DA Forms Guide</u>	dad in plans submitted	with this development
application		ns, types and dimensions are inclu	ded in plans submitted	with this development
⊠ No				
PART 3 – F	FURTHER D	DETAILS		
4) Is the appli	ication only for bu	uilding work assessable against the	building assessment p	rovisions?
⊠ Yes – prod	ceed to 8)	- J	·	
☐ No	,			
5) Identify the	assessment ma	nager(s) who will be assessing this	development application	on
6) Has the loc	cal government a	greed to apply a superseded planr	ning scheme for this dev	relopment application?
		n notice is attached to this develop		
The local eattached	government is tal	ken to have agreed to the supersec	ded planning scheme re	equest – relevant documents
⊠ No				
7) Information	n request under F	Part 3 of the DA Rules		
□ I agree to	receive an inform	nation request if determined necess	sary for this developme	nt application
☐ I do not ao	gree to accept an	information request for this develo	pment application	
		formation request I, the applicant, acknowle	-	
		n will be assessed and decided based on th manager and any referral agencies relevant		
Rules to acc parties.	cept any additional in	formation provided by the applicant for the o	development application unle	ss agreed to by the relevant
•	e DA Rules will still ap	oply if the application is an application listed	under section 11.3 of the DA	Rules.
Further advice a	bout information requ	ests is contained in the <u>DA Forms Guide</u> .		
		evelopment applications or current		
☐ Yes – prov ☐ No	vide details belov	v or include details in a schedule to	this development appli	cation
List of approvapplication	al/development	Reference	Date	Assessment manager
☐ Approval ☐ Developm	ent application			
Approval	.,			
	ent application			

9) Has the portable long servi	ice leave levy been paid?	?			
			velopment application	on	
 Yes – a copy of the receipted QLeave form is attached to this development application No − I, the applicant will provide evidence that the portable long service leave levy has been paid before the 					
assessment manager decides the development application. I acknowledge that the assessment manager may give a development approval only if I provide evidence that the portable long service leave levy has been paid					
Not applicable (e.g. building		is less than \$	1	•	
Amount paid	Date paid (dd/mm/yy)		QLeave levy numb	oer (A, B or E)	
\$					
10) Is this development applic notice?	cation in response to a sh	now cause no	tice or required as a	result of an enforcement	
Yes – show cause or enfor	rcement notice is attache	ed			
No No		· -			
11) Identify any of the followir	ng further legislative requ	irements that	apply to any aspect	of this development	
application					
☐ The proposed developmer					
government's Local Herita requirements in relation to				gov.au about the	
•	the development of a de		lace ID:		
Name of the heritage place:		F	lace ID.		
PART 4 – REFERRAL	DETAILS				
12) Does this development ap	oplication include any bui	lding work as	naata that have any	referral requirements?	
Yes – the Referral checklist for building work is attached to this development application					
	st for building work is atta				
☐ Yes – the <i>Referral checklis</i> ☐ No – proceed to Part 5	st for building work is atta				
☐ No – proceed to Part 5	•	ached to this o	development applica	tion	
No – proceed to Part 5 13) Has any referral agency p	provided a referral respor	ached to this o	development applica	on?	
No – proceed to Part 513) Has any referral agency p☐ Yes – referral response(s)	provided a referral respor	ached to this o	development applica	on?	
 No – proceed to Part 5 13) Has any referral agency p Yes – referral response(s) No 	provided a referral respor	ached to this ones of this de ware attache	development application velopment application d to this development	on? nt application	
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Postcode					
Country					
Contact number					
Email address (non-mandatory)					
Mobile number (non-mandatory)					
Fax number (non-mandatory)					
Tax Hambor (non-manageory)					
15) Builder's details					
☐ Tick if a builder has not yet be following information.	een engaged to un	ndertake the work	and proceed to 16). Other	erwise provide the	
Name(s) (individual or company full na	ame) GJ B	Building Group			
Contact name (applicable for compar	nies) Gavi	n			
QBCC licence or owner – builder	r number 1537	1367			
Postal address (P.O. Box or street ad	ddress) PO E	Box 646			
Suburb	Moss	sman			
State	Qld				
Postcode	4873	3			
Contact number					
Email address (non-mandatory)	Gavi	n.jenkin1@bigpor	nd.com		
Mobile number (non-mandatory)	0414	1409815			
Fax number (non-mandatory)					
Tax Tallioo (normalisatory)					
16) Provide details about the pro	·	ork			
What type of approval is being se	·	ork			
•	·	ork			
What type of approval is being so ☑ Development permit	ought?	ork			
What type of approval is being so ☐ Development permit ☐ Preliminary approval b) What is the level of assessme ☐ Code assessment	ought?	ork			
What type of approval is being so ☐ Development permit ☐ Preliminary approval b) What is the level of assessme ☐ Code assessment ☐ Impact assessment (requires permit)	ought? ent? ublic notification)				
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g) New building use/classification? (if applicable)					
h) Relevant plans Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see DA Forms Guide: Relevant plans .					
Relevant plans of the propo	osed works are attached to the developm	ent application			
	e of the proposed building work?				
\$123,492.00					
18) Has Queensland Home W	arranty Scheme Insurance been paid?				
☐ Yes – provide details below ☐ No					
Amount paid	Date paid (dd/mm/yy)	Reference num	ber		
\$					
PART 6 – CHECKLIST 19) Development application c	AND APPLICANT DECLAR	ATION			
		ted	⊠ Yes		
This development application i	This development application includes a material change of use, reconfiguring a lot or operational work and is accompanied by a completed Form 1 – Development				
•	ment are attached to this development appears of this development apple submitted for all aspects of this development applevant plans.	•	⊠Yes		
The portable long service leave a development permit is issued	e levy for QLeave has been paid, or will l d (see 9)	be paid before	☐ Yes ☑ Not applicable		
20) Applicant declaration					
By making this developmen correct	nt application, I declare that all information	n in this develop	ment application is true and		
Where an email address is from the assessment mana information is required or posterior to intentionally pro-		lopment applicat of the <i>Electronic</i>	ion where written Transactions Act 2001		
Privacy – Personal information collected in this form will be used by the assessment manager and/or chosen assessment manager, any referral agency and/or building certifier (including any professional advisers which may be engaged by those entities) while processing, assessing and deciding the development application. All information relating to this development application may be available for inspection and purchase, and/or published on the assessment manager's and/or referral agency's website. Personal information will not be disclosed for a purpose unrelated to the <i>Planning Act 2016</i> , Planning Regulation 2017 and the DA Rules except where:					
 such disclosure is in accord Act 2016 and the Planning Planning Regulation 2017; 	dance with the provisions about public ac Regulation 2017, and the access rules n or	nade under the <i>I</i>			
_	n (including the Right to Information Act 2	2 <i>009</i>); or			
• otherwise required by law. This information may be stored in relevant databases. The information collected will be retained as required by the Public Records Act 2002.					

PART 7 – FOR COMPLETION BY THE ASSESSMENT MANAGER – FOR OFFICE USE ONLY

Date received:	Reference i	numbers	:	
For completion by the building	g certifier			
Classification(s) of approved				
Name		QBCC numbe	Certification Licence r	QBCC Insurance receipt number
Notification of engagement of	alternative assessm	ent mana	ager	
Prescribed assessment mana			5	
Name of chosen assessment				
Date chosen assessment ma	nager engaged			
Contact number of chosen as	sessment manager			
Relevant licence number(s) o manager	f chosen assessmen	t		
Additional information require	d by the local govern	ment		
Confirm proposed construction	n materials:			
External walls	☐ Double brick ☐ Brick veneer ☐ Stone/concret	te	Steel Timber Fibre cement	☐ Curtain glass ☐ Aluminium ☐ Other
Frame	☐ Timber ☐ Other		Steel	Aluminium
Floor	☐ Concrete		Timber	Other
Roof covering	Slate/concrete	Э	☐ Tiles ☐ Steel	☐ Fibre cement ☐ Other
QLeave notification and paym Note: For completion by assessment				
Description of the work				
QLeave project number			Data said (dd/sass/ss)	
Amount paid (\$) Date receipted form sighted by assessment manager		nor	Date paid (dd/mm/yy)	
Name of officer who sighted to		y e i		
I value of officer who signled to	HE IOIIII			
Additional building details req	uired for the Australia	an Burea	u of Statistics	
Existing building use/classification	ation? (if applicable)			
New building use/classificatio	n?			
Site area (m²)			Floor area (m²)	

Applicant response



m: 0448 377 172 a: Po Box 1083, Tolga 4882

14th April 2025

Douglas Shire Regional Council PO Box 359 CAIRNS Q 4870

Attention: Planning Section

Dear Sir/Madam,

Re: Proposed new deck extension and water tank/slab at Lot 1 / RP 804943 - 362 Cape Tribulation Road LOWER DAINTREE

Acceptable outcomes

Baker Building Certification has been engaged to assess an application for the proposed dwelling additions and tank slab on the abovementioned allotment. A preliminary assessment of the proposal has indicated that the proposed additions trigger assessment against the rural/rural res and flood and storm tide hazard overlay as outlined in the Douglas Shire Planning Scheme 2018.

Applicant: GJ Building Group/ Baker Building Certification.

6.2.10.3 Rural zone code

Performance outcomes

For self-assessable and assessable development				
Setbacks				
PO1	A01	Proposed		
Buildings are setback to maintain the rural character of the area and achieve separation from buildings on adjoining properties.	Buildings are setback not less than: a) 40m from a state controlled road b) 25m from property boundary adjoining cape tribulation road c) 20m from the boundary of any other road d) 6m from a side and rear boundary	The deck and stairs are located 5.7m from the side boundary and 10m from the front boundary, the minor side encroachment will have no impact as it's a minor 300mm and adjoining is vacant land. The front boundary at 10m from the front boundary will have no impact as the deck extension is in line with the existing dwelling/structure on site. In effect the setbacks can be considered to maintain the rural character of the area and achieve separation from buildings on		



m: 0448 377 172 a: Po Box 1083, Tolga 4882

Performance outcomes	Acceptable outcomes	Applicant response
		adjoining properties. The new tank location 15m from the side and rear again will maintain the rural character of the area.

Flood overlay code: The flood hazard overlay in other councils planning schemes does not capture class 10a non habitable structures such as a patio, deck and tank/slab, the QDC prevails which does not trigger assessment against to flood hazard overlay for non-habitable patios. Additionally, the open deck is 2.8m above the external ground level which is in keeping with existing dwelling floor level.



Recommendation

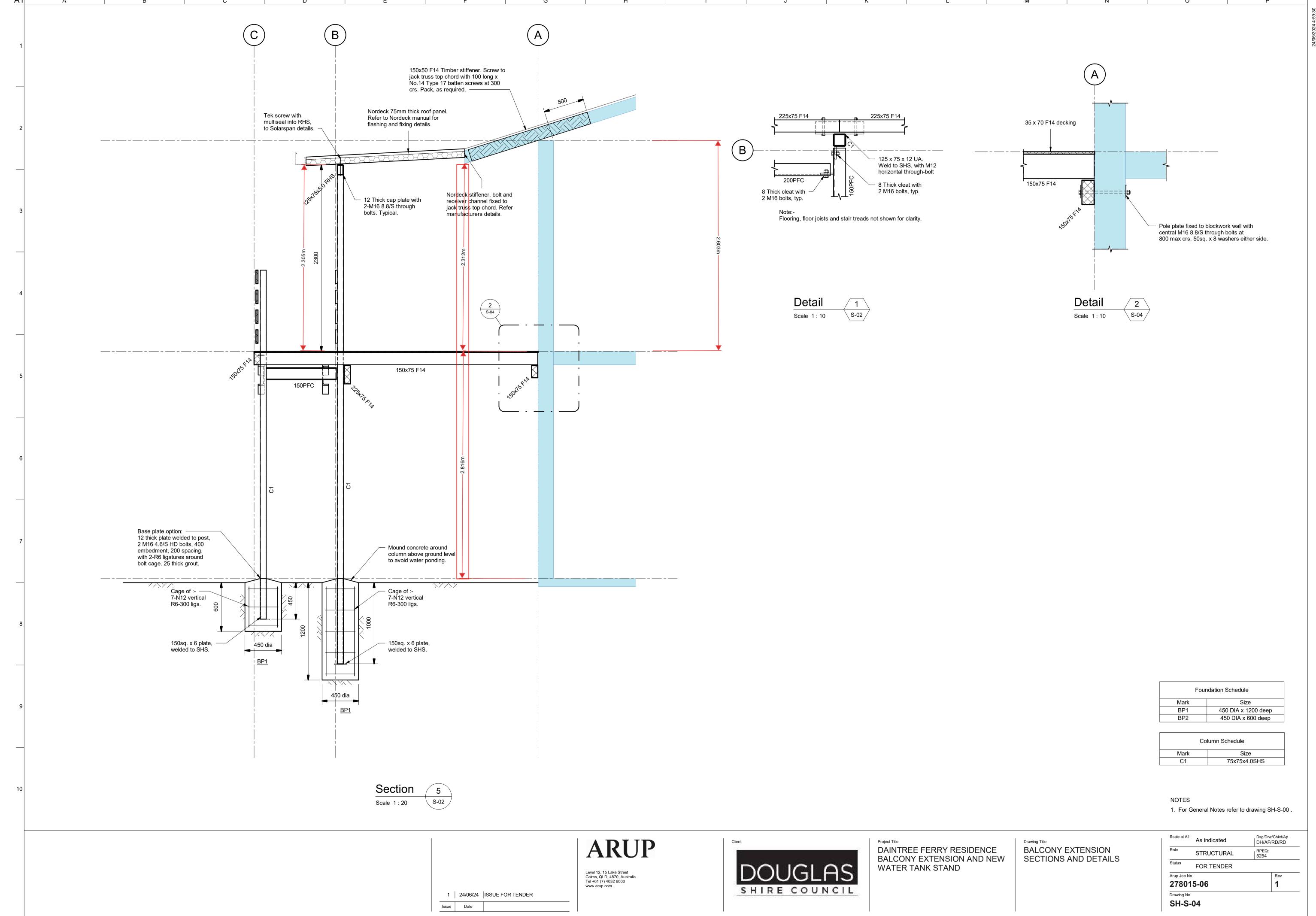
The proposed siting layout request generally appears to satisfy the performance criteria sought from Douglas Shire Planning Scheme; it could be considered acceptable to approve the siting layout request for the proposed additions at 362 Cape Tribulation Road.

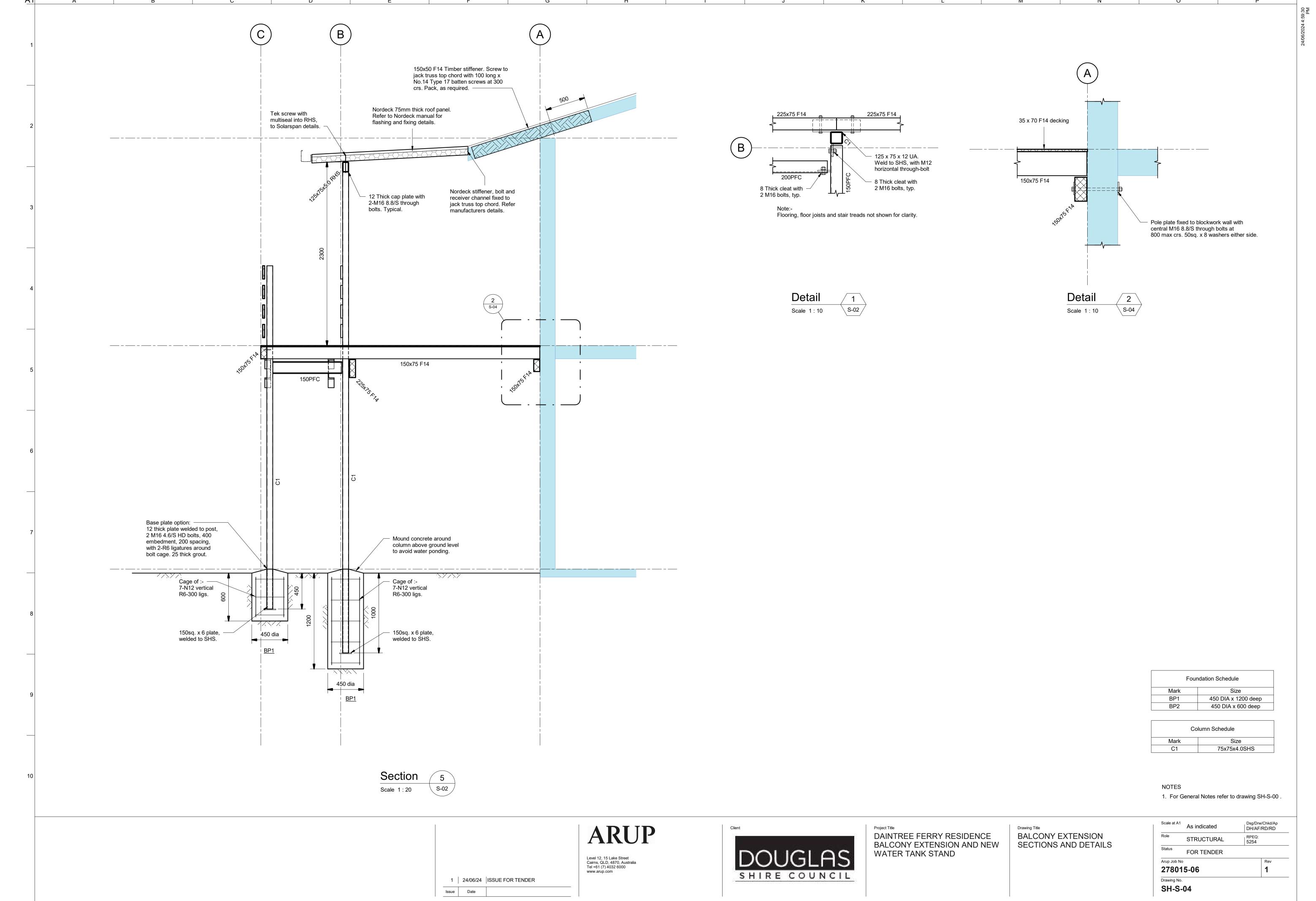
Should you have any further queries please do not hesitate to contact the Officer involved Aaron Sweeney on 0437127724 or aaron@bakerbuildingcert.com.au

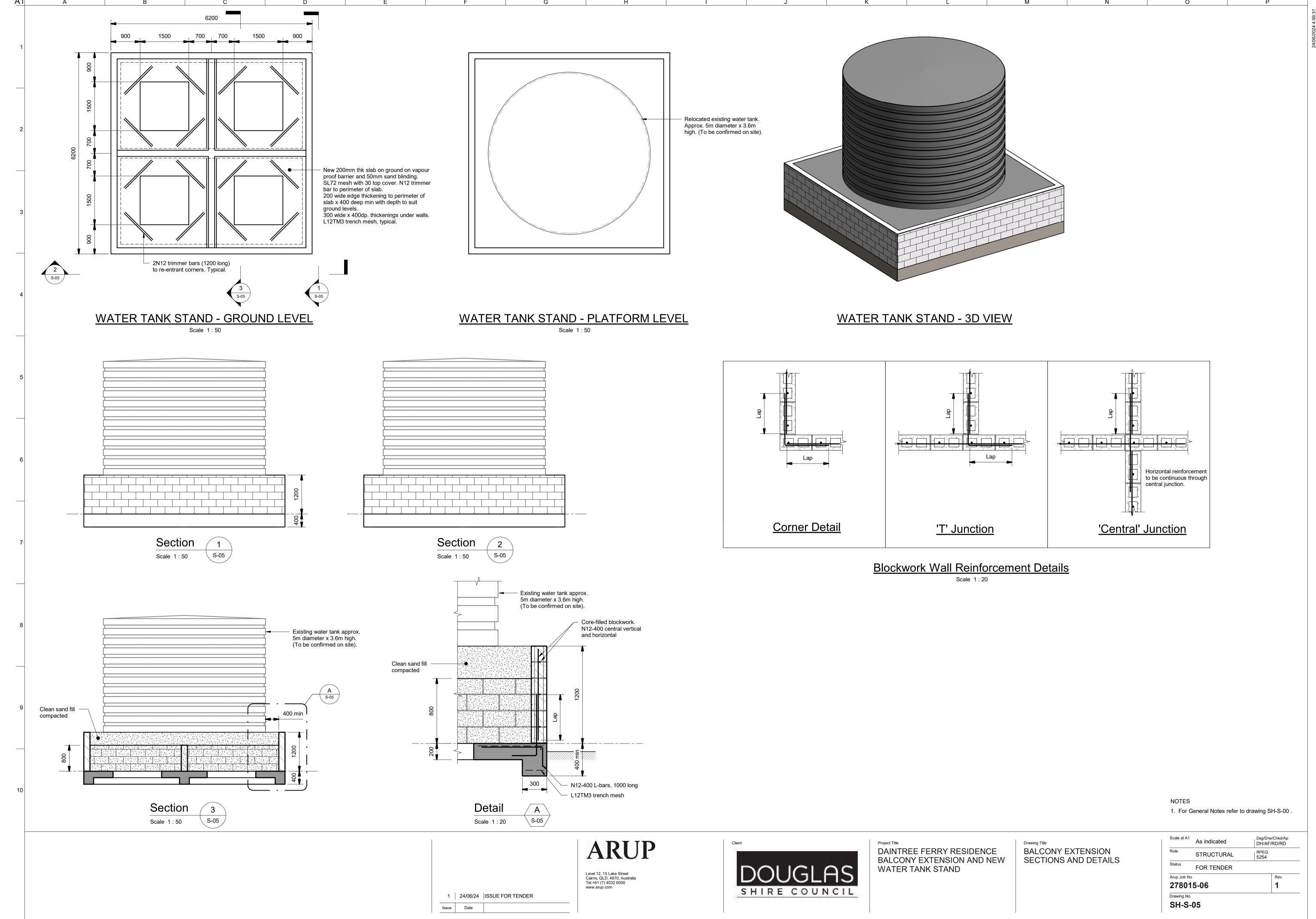
Yours faithfully.

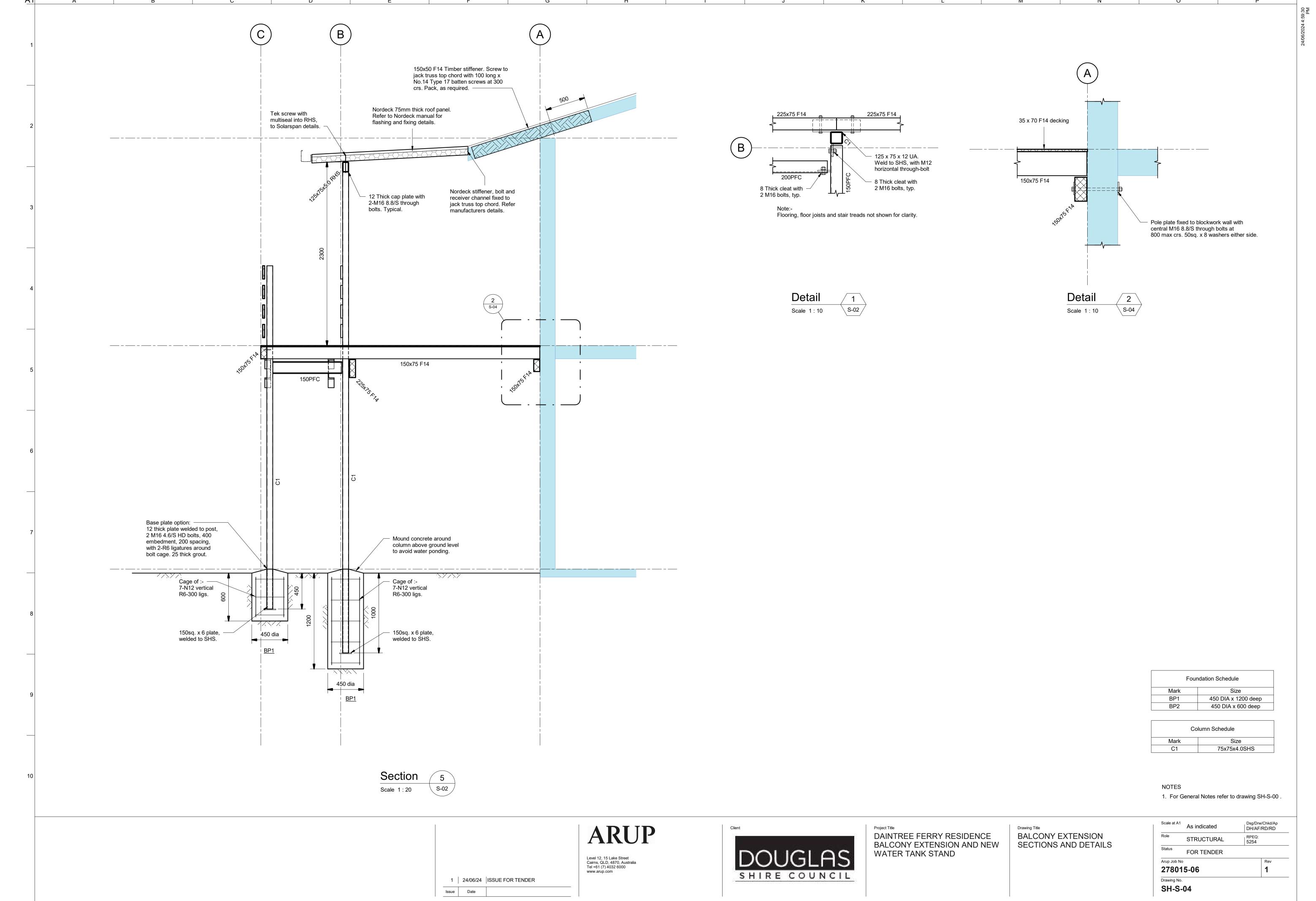
Prepared by Aaron Sweeney A1215391

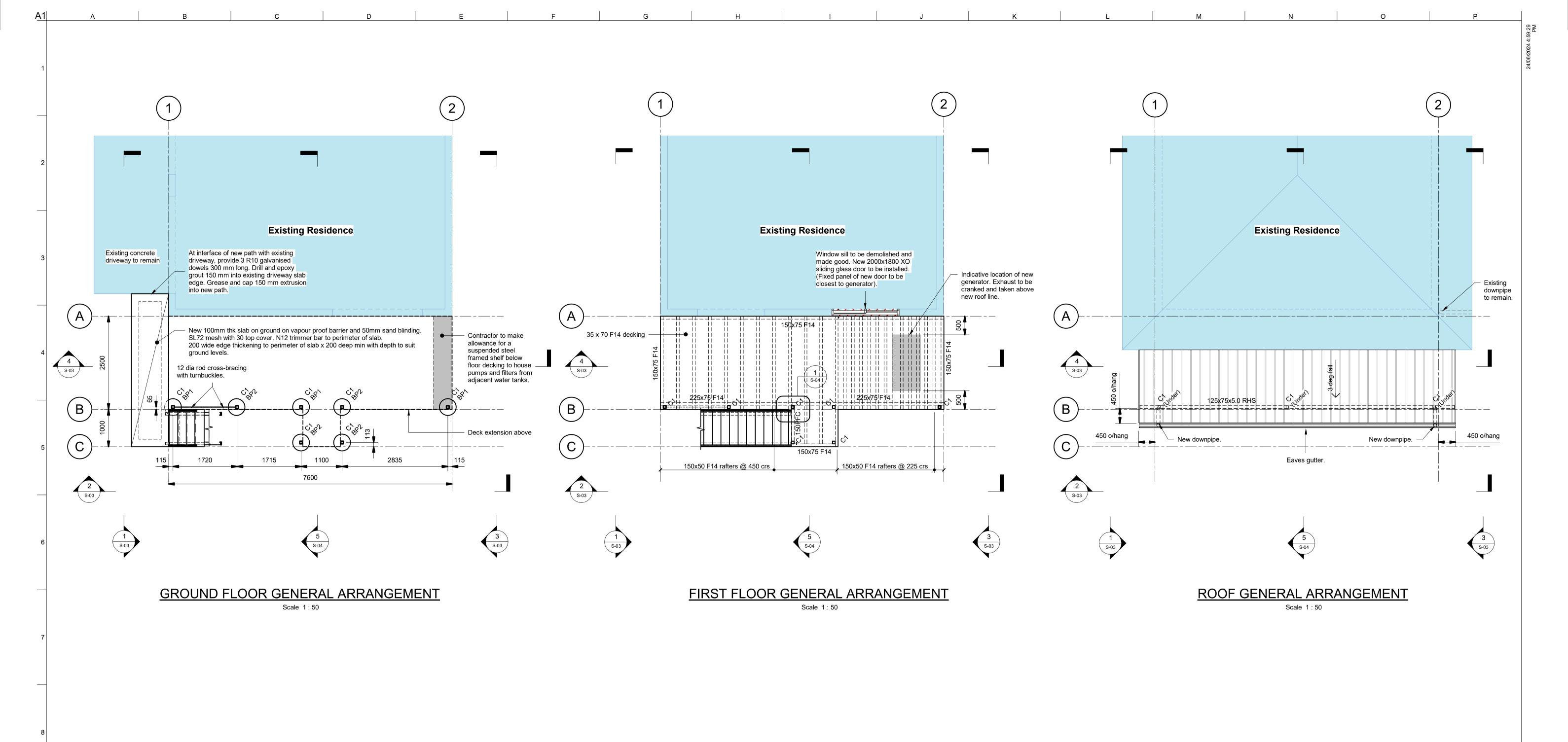
Baker Building Certification.











Foundation Schedule			
Mark	Size		
BP1 450 DIA x 1200 deep			
BP2 450 DIA x 600 deep			

Column Schedule			
Mark Size			
C1 75x75x4.0SHS			

NOTES

- Sawn timber to be H3 pressure treated OR durability Class 2 (minimum) UNO, Stress grade F14 minimum UNO, Unseasoned, Joint Group JD4 UNO.
- 2. Framing members exposed to moisture (joists, bearers, etc) are to be malthoid capped and penetrating nails should be constructed to limit moisture penetration along nail shank.
- constructed to limit moisture penetration along nail shank.

 3. Refer to General Notes drawing SH-S-00 for more details





DAINTREE FERRY RESIDENCE BALCONY EXTENSION AND NEW WATER TANK STAND BALCONY EXTENSION
GENERAL ARRANGEMENT
PLANS

specification for architectural and services

- G3. Unless noted otherwise, all levels are in metres and all dimensions in millimetres.
- G4. The Contractor shall be responsible for maintaining the stability of the structure until its completion and shall ensure that no part of the structure is overstressed by excessive loading.
- G5. All materials and workmanship shall be in accordance with the current version of the following codes of practice and current version of all referenced codes within these codes, except where varied by the specification and/or drawings:
- AS 1163 Structural steel hollow sections. AS 1289 Methods of testing soils for engineering
- AS 1302 Steel reinforcing bars for concrete.
- AS 1554.1 Welding of steel structures. AS 1720 Timber structures code.
- AS 2327 Composite construction code.
- AS 3600 Concrete structures. AS 3610 Formwork for concrete
- AS 3700 Masonry code. AS 3798 Guidelines on earthworks for commercial and residential developments.
- AS 3850 Tilt-up concrete code. AS 4100 Steel structures. AS/NZS4671 Steel reinforcing materials.
- G6. Any discrepancy shall be referred to the Superintendent for a decision before proceeding with
- G7. Refer to Architect's drawings for details of all grooves, fillets, hobs, drip grooves and the like.
- G8. Give at least 24 hours notice of an inspection being
- G9. All rooftop plant tiedown to be provided by the
- G10. Abbreviations:

contractor

the work.

- NTS Not to scale UNO Unless noted otherwise NSOP Not shown on plan
- (U) Member shown under Member shown over
- (H) Hanger framing member Member behind

Design Criteria

DC1. The structural elements have been designed for the following superimposed live loadsin accordance with AS 1170, part 1: live load reductions are not applicable.

Element	UDL (kPa)	Concentrated Load (kN)	
Balcony General Floor Ar	ea 2.0 kPa	1.8 kN	
Balcony Roof Area	0.25 kPa	1.1 kN	
- Balcony designed for the generator weight noted in the			

- Balcony designed for the generator weight noted in the drawings - Tank stand designed for the tank size noted in the drawings.

DC2. Wind loading has been determined in accordance with AS/NZS 1170.2:2011 and the BCA, based on :

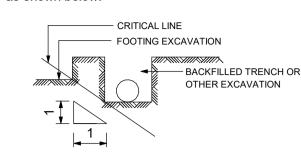
Structure Importance level	= 2
Region	= C
Terrain category	= 2.5
Shielding multiplier (Ms)	= 1.0
Topographic multiplier (Mt)	= 1.0
Design ultimate wind velocity (V DES, ULS)	= 66 m/s
Design serviceability wind velocity (VDES, SLS)	= 47 m/s

<u>Demolition</u>

Do not scale

- D1. Demolition to be carried out in accordance with AS 2601
- D2. Levels and dimensions of existing structure shown on drawings are to be confirmed by the Contractor by survey prior to any demolition. Report all discrepancies to the Superintendent and await direction before proceeding.
- Concrete elements, except in areas where existing reinforcement is to be preserved for connection of new elements, neatly cut back or trim to new alignment with a clean true face using a diamond saw. Where reinforcement is exposed by saw cutting, patch and protect reinforcement and cut surface using an approved priming agent and patching compound.
- Contractor is to demonstrate that all demolition works will not crack or otherwise damage building fabric that is being kept. Method statements for demolition are to be provided to the Superintendent prior to starting demolition.

- F1. Foundation material shall be approved by the Contractors Geotechnical Engineer for allowable bearing capacity before construction of footings.
- F2 Foundation material shall have a minimum safe bearing capacity (working loads) of 100 kPa or as noted on the drawings. Minimum Class M assumed, Contractor to confirm.
- F3. Unless approved otherwise by the Superintendent, the limitations of excavations near footings shall be as shown below.

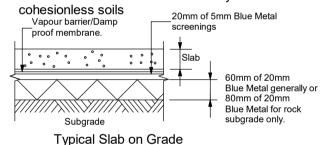


- F4. Excavate to firm, dry ground and maintain the excavation in a dry condition. Remove any soft ground as directed by the Geotechnical Engineer
- F5. Compact the subgrade below slabs and footings to 98% dry density ratio (standard laboratory compaction). Refer AS 3798.
- F6. Filling to be general fill material (minimum CBR 15%), spread in maximum 200mm layers (loose) and compacted to 98% STD (AS 1289 5.1.1). Refer specification for general fill requirements.
- F7. All walls and columns shall be concentric with supporting foundations unless noted otherwise.
- F8. All free draining granular fill material behind retaining walls shall be of strong durable particles conforming to the following gradings:

A.S. Sleeve Size	% Passing
26.5mm	100
9.5mm	45 - 100
2.36mm	20 - 75
600 microns	10 - 15
75 microns	0 - 15

- F6.1 Natural subgrades shall be proof-rolled with a roller of 70kN minimum static weight, unless otherwise stated in the geotechnical investigation report, to detect soft or loose areas. Such areas should be treated in accordance with the Geotechnical Engineer's recommendations.
- F6.2 Unless otherwise specified the subgrade below base courses for slabs shall be suitable material compacted to 100% std as determined by test AS 1289.5.1.1. or 70% minimum density index for cohesionless soils.

F7. Base shall be approved well graded natural gravel or crushed rock (max. size 40mm) spread and compacted to 98% mod as determined by test AS 1289.5.2.1. or 80% minimum density index for cohesionless soils



Typical Slab on Grade

Cohesive (loamy and clayey) Soils

- F8.1 Underside of footings in loamy and clayey soils to be
- a minimum of 600mm below natural ground level. F8.2 Excavate to firm, dry ground and maintain the excavation in a dry condition. Remove any soft ground as directed by the Geotechnical Engineer.
- F8.3 Where over-excavation in soft ground is required, filling to the correct level shall be with concrete of f'c
- F8.4 Blinding of 50mm concrete (f'c = 15 MPa) to be placed as soon as the footings have been inspected by the Geotechnical Engineer.

Non Cohesive (sandy) Soils

- F9.1 Compaction under footings and slabs to be measured using a Penetrometer in accordance with AS 1289-F3.2 or AS 1289-F3.3. Compaction required under footings and slabs: 10 blows per 300mm measured from 150mm to 750mm deep.Results to be submitted to the Engineer.
- F9.2 Penetrometer testing to be carried out as follows:-

Under pad footings: one/10 sqm. Under strip footings: one/5 m length Under slabs: one/20 sqm.

- C1. All concrete work to be in accordance with AS 3600 and formwork to be in accordance with AS 3610.
- C2. Concrete mixes: for full details refer to the specification

ement: Type A					
Grade MPa)	Slump (mm)	Maximum Agg. Size (mm)	Maximum Water/Cement Ratio		
32	80	20	0.5		

C3. Unless noted otherwise, the characteristic concrete strength and clear cover to the reinforcement (including fitments) shall be as follows

	Exposed to Weather		Not Exposed to Weather	
Element	Concrete Grade (MPa)	Reinf't Cover (mm)	Concrete Grade (MPa)	Reint Cove (mm
Footing Ground Slab Columns Suspended Slab	32 32 32 32 32	50 40 40 40	32 32 32 32 32	50 40 25 25

- C4. Sizes of concrete elements do not include thickness of applied finishes. Beam depths are noted first and include thickness of slab if any.
- C5. Construction joints where not shown on drawings shall be located to the approval of the superintendent. Tenders shall allow for all such construction joints.
- C6. No penetrations, chases or embedments of pipes other than those shown on the structural drawings shall be made in concrete members without the prior approval of the Superintendent
- C7. If plastic shrinkage of the concrete is observed due to rapid drying or other conditions, apply a single spray coat of 'confilm' evaporation retardant or equivalent, immediately after screeding.
- C8. The minimum clear spacing between conduits, cables, pipes and bars to be as required by AS 3600 but not less than three diameters. Conduits in slabs to be placed above bottom reinforcement and below top reinforcement.
- C9. UNO all re-entrant corners and service holes are to have trimmer bars placed diagonally at corners using two bars (1600 long), one tied to the underside of top reinforcement and the other tied to the top of the bottom reinforcement. Trimmer bars to be N12 for slabs not thicker than 120, N16 for slabs not thicker than 180, N20 otherwise.
- C10. For size and location of plinths refer to mechanical Engineers drawings.
- C11. Formwork for all external corners of exposed concrete shall incorporate a 20 x 20 fillet UNO.

Load Bearing Masonry

LM1. Concrete masonry blocks shall have a compressive strength of

LM2. Mortar shall have the following proportions: Comont Lime Co

Cement		Lime		Sand	
1	:	1	:	6	Generally
1	:	0.25	:	3	Retaining Walls

Compressive strength of mortar shall be f'c = 12MPa.

LM3. Grouting of hollow masonry.

(a) Grout shall have the following proportions: Cement Sand Aggregate 1 : 1 : 6

And a slump of 230mm and a compressive strength f'c = 20 MPa unless noted otherwise.

- (b) Cleanout openings shall be provided at the bottom course in all
- (c) Cores are to be cleaned of all mortar fins and droppings through cleanout openings before placing vertical reinforcement.

Vertical reinforcement is to be placed and tied prior to grouting

- and cleanout openings are not to be closed prior to inspection by the Superintendent.
- Grout is to be rodded to ensure proper filling of cores and the (e) maximum continuous pour height is to be 2600mm.
- LM4. Chasing of load bearing masonry shall only be permitted where approved by the Superintendent.

LM5. Only load bearing masonry is indicated on drawings. Refer to

Architect's drawings for non load bearing blockwall locations. LM6. Provide vertical control joints at maximum spacing of 6 metres.

Reinforcement

R1. All reinforcement to be as follows:

Tempcore bars.

(a) General condition:

Interior surfaces

Exterior surfaces

same plan:

diameter in millimetres.

Surfaces in contact with ground

Bottom reinforcement is shown thus ———

N12 at 300mm centres UNO.

in accordance with Note C9 UNO.

TT Top layer top bars (laid forth)

Notes applicable to all tables below:

bars larger than 40mm dia.

accordance with Note C3.

EW Each way

EF Each face

NF Near face

CP Centrally placed

than 32mm dia.

lengths shall be as follows:

R6. Abbreviations used for reinforcement location:

BB Bottom layer bottom bars (laid first)

Top layer bottom bars (laid second)

R7. Unless shown otherwise in the drawings, minimum lap

3. Lapped compression splices not permissible for

5. Cover to deformed bars have been determined in

6. Lap splice for welded wire mesh shall be made so that

the two outermost transverse wires of one sheet of mesh

The two outermost transverse wires of the sheet being

7. Where two bars of different diameters lap, the minimum

Slab and Pad Footing Reinforcement Lap Schedule

Bar | Clear distance between | Clear distance between

dia. bars less than 150mm bars equal to or greater

If there is more than 300mm of concrete cast below

Wall Reinforcement Lap Schedule

Bar | Clear distance between | Clear distance between

dia. bars less than 150mm bars equal to or greater

Beam Reinforcement Lap Schedule

1350

R10 - 150 ties are present over lap.

Laps shown for beams are applicable where at least

horizontal deformed bars in slabs, reinforcements laps

than 150mm

than 150mm

600

lap for the smaller bar diameter shall be used.

1900

should be increased by a factor of 1.25.

750

1050

1350

N20

N24

N24

N28

N32

4. Laps shown do not apply to bundled bars.

1. Laps shown are applicable for f'c = 40 MPa or greater.

2. Lapped tension splices not permissable for bars larger

Bottom layer top bars (laid third)

W Steel wire, plain and deformed to AS 1303 (450 MPa).

Exposure class

RL/SL Welded wire fabric to AS/NZS 4671 (500MPa).

Deformed bars to AS/NZS 4671 (500 MPa).

Note: The number following R, Y, N and T is the bar

R2. The general conditions used to determine the concrete

cover to reinforcement (Note C3) are as follows:

R3. Where top and bottom reinforcement are shown on the

R4. Distribution bars to main reinforcement in slabs shall be

R5. Bars shall be cut or displaced around pipes and openings

and all such openings shall have trimmer bars positioned

Top reinforcement is shown thus —————

Deformed bars to AS 1302 (400 MPa).

- A1. Chemical Anchors shall be installed in accordance with manufacturers printed instructions. R Structural grade plain bars to AS 1302 (250MPa).
 - A2. Chemical anchors shall be Hilti HAS-E-F grade 5.8 rods with Hilti HIT-RE 500 chemical adhesive when fixing to concrete or Hilti-HY 150 when fixing to blockwork, or approved equivalent. See drawings for size and embedment.
 - A3. U.N.O. minimum embedment shall be 110mm for M12, 125mm for M16 and 170mm for M20 studs.
 - A4. U.N.O. minimum edge distance in concrete shall be 55mm for M12, 65mm for M16 and 85mm for M20 studs. When fixing into the face of blockwork the minimum edge distance shall be 130mm for all anchors and when fixing into the top or end of blockwork the anchor shall be positioned centrally and avoid reinforcement.

<u>Timber</u>

Material & Execution

Chemical Anchors

- T1. All structural timber materials and workmanship to be in accordance with AS 1720 and/or AS 1684 as applicable.
- T2. All structural sawn timber shall be a) Minimum H2 treated to AS1604, OR class 2 natural durability to AS5604. Additional requirements apply
- for exposed framing below. b) Stress graded. MGP12 OR F7 minimum UNO.
- c) Unseasoned d) Joint Group JD4 UNO.
- T3. Except as approved below, all timber used for structural purposes shall be branded and the brand shall contain the following information:
- a) The grade i.e. "F" or "MGP" rating b) The method of grading if other than visual stress grading (e.g. Machine stress grading "MSG" or
- machine proof grading "Proof" or "PG" or "MGP") c) If seasoned, the word "Seasoned" or the letter "S" d) A name, initials, logo or number which indicates the
- source of grading e) The certification trademark of the relevant assurance
- program T4. Exposed framing shall meet the following: (exposed framing refers to all timber framing that may be subject to periodic wetting):
- a) Sawn timber to be H3 pressure treated OR durability class 2 (minimum) UNO
- b) Manufactured timber products, if specified, are to be minimum H3 treated and protected in accordance with Manufacturer's specification (e.g. Hyne Tech Data sheets 6 and 8).
- c) Framing members exposed to moisture (joists, bearers, etc) are to be malthoid capped and penetrating nails should be constructed to limit moisture penetration along nail shank
- T5. All timber shall be protected from the elements during fabrication, transportation and construction. If protection is to include the application of an approved waterproof timber preservative, proposals to be submitted to
- T6. Termite protection: All construction work should be in
- T7. All Timber elements shall be free from active and past attack by insects and fungi. All stud framing to be constructed in accordance with AS1684 and P.A.A
- Fastenings/Blocking
- T8. All nails, bolts, nuts, screws, washers and plate fasteners to be hot dip galvanised. All timber washers to
- long minimum. T10. Fixings shall be installed to the dimensions shown in the
- (typically 4d and 5d respectively). corrosion protection zinc coating of 350 g/m². Post
- 316 UNO. T12. Bolts to be installed into pre-drilled holes. a) Pre-drilled holes for the shank shall not be less than
- b) Pre-drilled holes for screws and for the threaded
- T14. Blocking rules: applies to bearers/joists with D/B ≥4. a) Provide blocking over supports at 1800 max centres per AS1684 b) For joists with bottom unrestrained by ceiling
- i. Span <3000mm: blocking not required ii. Span 3000-4200mm: provide 1 row of blocking at
- Fastenings / Blocking T15. Framing anchors to have a minimum of 4 no. 2.8mm dia. x 30mm long nails each leg.
- T16. In all timber to timber bolted joints each bolt shall be provided with a square washer at each end of a size no less than 8mm thick
- be staggered to avoid potential splitting of framing members.

Structural Steelwork

minimum.

- S1. Unless specified otherwise steel grades shall be as follows:
 - Rolled sections Grade 300 RHS sections Grade 350 SHS sections Grade 350 CHS sections Grade 350 Grade 350 Rod Grade 250

S2. All cold formed sections shall be roll-formed from zinc coated high strength steel strip, zinc-hi-ten, minimum yield stress 450MPa 200 g/m² minimum coating mass unless noted

Drawing Symbols

Section mark

Drawing

reference

S00.00

Detail mark

Drawing

reference

Α

S00.00 /

Slab thickness

200

- S3. Connections between structural members shall have 6mm continuous fillet welds from E48xx electrodes UNO. All welding to be in accordance with AS 1554 category Structural Purpose (SP), using electrode typesE48 or W50
- S4. At least three weeks prior to the commencement of fabrication submit three copies of shop detail drawings for examination by the Engineer. No steelwork shall be fabricated until final approval of the shop detail drawings has
- been given. S5. The ends of all hollow sections shall be sealed, with minimum 3mm plate and a vent hole provided for galvanised
- S6. Unless specified otherwise, where fin plate is welded to RHS, provide 6mm plate stiffener of width 15mm less than

face of RHS. 6mm continuous fillet weld all round.

- S7. Bolt types (and designations, where used) shall be as
- 4.6/S Commercial bolts to AS 1111, snug tightened. 8.8/S - High strength structural bolts, nuts and hardened washers to AS 1252, snug tightened only.
- 8.8/TB High strength structural bolts as above, fully tensioned to AS 4100 in a bearing type joint. - High strength structural bolts as above, fullytensioned to AS 4100 in a friction type joint
- S8. All bolts shall be M20 high strength (8.8/S) UNO.
- S9. All holding down bolts shall be either commercial bolts or be made from bars with minimum FSY 230MPa UNO.

and UNO, with facing surfaces left uncoated.

- S10. M12 and smaller bolts to be commercial grade (4.6/S), unless shown otherwise
- S11. M16 and larger bolts to be high strength snug tightened (8.8/S), unless shown otherwise. S12. Ceiling systems, ductwork etc. to be suspended from purlins
- flanges of the purlins or girts shall not be holed. S13 All butt welds shall be subject to 100 % testing by ultrasonic

or other appropriate methods at the Contractor's cost.

should be fixed with hook bolts through purlin web. The

S14. UNO, all fasteners to be galvanised to AS 1214.

S15. Refer to specification for corrosion and fire protection

- requirements. S16. All cases of damage to the protective coating of steelwork shall be brought to the attention of the Superintendent. With the Superintendent's approval, minor damage may be
- dry film thickness as per specification requirements. S17. All masonry to be tied to abutting steel columns. Ties generally to consist of R10 rod crimped and welded 50mm to columns every 400mm and tied to masonry with 3mm

Mechanically grind surface to achieve smooth and bright

metal comparable to class 2.5. Apply zinc rich primer to a

- galvanised ties at 400mm CRS maximum. S18. Exposed RHS columns to be tied to adjacent masonry with 38 x 1.6mm frame straps power fastened to columns at 400mm CRS maximum.
- S19. In addition to the finish specified, steelwork in contact with the ground is to be coated with a 2 pack epoxy compatible with other finishes. To a minimum thickness of 0.4mm.
- S20. Provide 50x50x3.0 galvanised angle trimmers to carry sheeting as required at purlin and girt ends. Fix with one no. 14 TEK screw per purlin/girt. This will generally require two angles on hips and valleys, one angle on gables and one vertical angle at all corners.
- S21. Abbreviations.

galvanised.

repaired as follows

- CFW Continuous fillet weld CPBW Complete penetration butt weld IPBW Incomplete penetration butt weld
- S22. UNO, minimum connection between steel members shall be 2-M16 8.8/S bolts with 8 plate cleat.

S23. Unless shown otherwise, members shall be detailed to

intersect on the centroid lines of the sections used. S24. Where braces require a means of length adjustment either for erection or structural pretensioning, a turnbuckle is to be provided within each brace. All turnbuckles shall have a capacity greater than the tensile capacity of the connected brace. Proprietary turnbuckles shall be 'NATA' certified to

carry a load greater than the tensile capacity of the rod

tapped hex bar tunbuckles to suit threaded rod braces),

details demonstrating the adequate capacity shall be

connected. For purpose fabricated turnbuckles (for example

submitted to the Engineer for approval. S25. All steel columns and framing members to be hot dipped

Scale at A1 1:1 DH/AF/RD/RD RPEQ: 5254 STRUCTURAL Status FOR TENDER Arup Job No 278015-06 SH-S-00

Level 12, 15 Lake Street Cairns, QLD, 4870, Australia



DAINTREE FERRY RESIDENCE WATER TANK STAND

GENERAL NOTES

Date

1 24/06/24 ISSUE FOR TENDER

Structural Engineer and Architect.

accordance with AS 3660.1 Protection of Buildings from Subterranean Termites, Part 1: New Buildings.

Plywood Wall Bracing Design Manual.

be oversized as per AS1720.1. T9. Unless noted otherwise, nails to be 3.75 mm x 75 mm

details. In any case, all fixings shall be installed within minimum edge distances and spacing as per AS1720.1 T11. All steel bolts, straps, rods, framing anchors, connector plates etc. noted as galvanised shall have a minimum

anchor brackets and associated bolts shall be hot dipped galvanised with a minimum coating of 600 g/sq.m. Fitments noted as stainless steel shall be grade

the shank diameter and shall not exceed it by more portion of bolts shall not exceed the root diameter of

T13. All proprietary fixings shall be installed in accordance with the manufacturer's written instructions. All metal fixings shall be compatible with timber glues and preservative treatments.

iii. Span >4200mm: provide 2 rows of blocking

T17. All bolted connections into timber rafters and bearers to

Baileys Creek Road

