

# Approved Building Consent Documents

**Please Note: A copy of the stamped approved documents must be available on site for all inspections.**

## Inspection booking timeframes

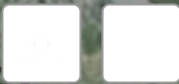
Call received	before 3pm inspection will be done	after 3pm inspection will be done
Monday	Wednesday	Thursday
Tuesday	Thursday	Friday
Wednesday	Friday	Monday
Thursday	Monday	Tuesday
Friday	Tuesday	Wednesday

Building inspections and enquiries phone: 03 347 2839

**Please ensure all work for inspection is ready the day before. Incomplete work requiring re-inspection will incur an additional inspection fee.**



▼ 3A Hart Pl, Lake Coleridge, X Q



SDC - Approved Building Consent Document - BC221292 - Pg 2 of 14 - 5/10/2022 - abelaa



6m

1,481,127.016389 5,197,304.360853 Meters



**Planning Approved**

**23/09/2022**

**ogilva**

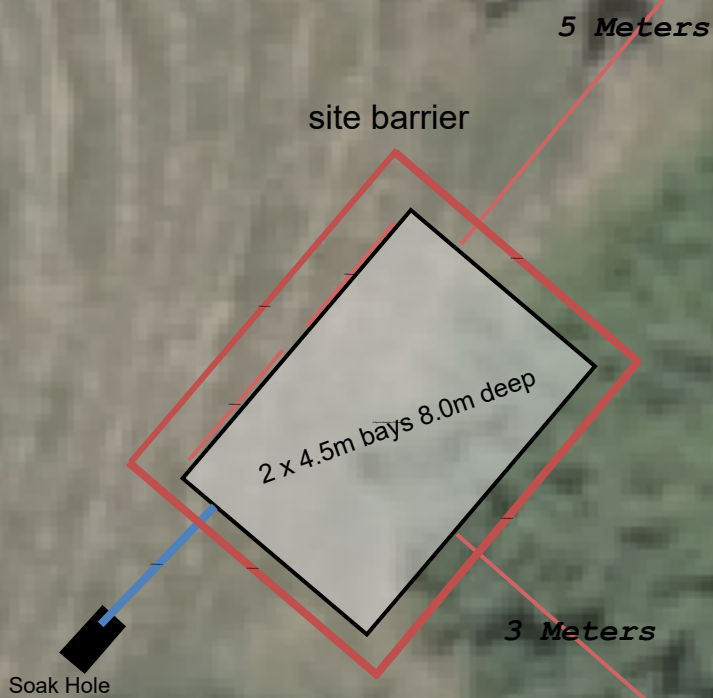


3 Hart Place, Lake Coleridg X Q

Show search results for 3 Hart ...



SDC -- Approved Building Consent Document -- BC221292 -- Pg 3 of 14 -- 5/10/2022 -- abelaa



Environmen



1,481,141.138782 5,197,301.009471 Meters



**CHRISTCHURCH**

Ph: (03) 348 8691  
Fax: (03) 348 0314

farmbuildings.mitek.nz.co.nz

**MiTek New Zealand Limited****AUCKLAND**

Ph: (09) 274 7109  
Fax: (09) 274 7100

email: fbbuildings.mitek.nz@mii.com

**Producer Statement - PS1 - Design****ISSUED BY:**MiTek New Zealand Limited**TO BE SUPPLIED TO:**Selwyn District Council**IN RESPECT OF:**Proposed Lean-To Farm Building - FB72531B**AT:**Lake Coleridge

We have been engaged to provide engineering design services in respect of the requirements of Clause B1 of the New Zealand Building Code for

☐ All☒ Part only as specified: Purlins, Rafters, Girts, Poles, Columns, Trusses if applicable (including fixings as specified) and Pole embedment

of the proposed building work.

The design carried out by us has been prepared in accordance with Compliance Documents issued by MBIE and Verification Method 1/VM1. The proposed building work covered by this producer statement is described on MiTek New Zealand Limited drawings numbered FB72531B

on behalf of the Design Firm, and subject to:

1. Site verification of the following design assumptions:

- i) Building Importance Level 1 with a 50 year working life (refer to AS/NZS 1170.0:2002)
- ii) Light roof and no ceiling
- iii) Modified Extra High Wind Zone
- iv) Snow Load  $S_g = 2.184$  kPa
- v) Foundations - Refer to MiTek interpretation of Geotechnical report (Design Information Sheet)
- vi) Refer attached Design Information for other assumptions

2. All proprietary products meeting their performance specification requirements.

I believe on reasonable grounds that:

- a) The building, if constructed in accordance with the drawings, specifications, and other documents provided, will comply with the relevant provisions of the Building Code.
- b) The persons who have undertaken the design have the necessary competency to do so.

I, In Ling Ng, am a Chartered Member of Engineering NZ and CPEng #146585 and hold the following qualifications BE Civil (Hons).

The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$200,000\*.

on behalf of MiTek New Zealand Limited

In Ling Ng  
BE (Hons), CPEngNZ, IntPE, CPEng (146585)  
Engineering Manager New Zealand

Date: 19 / 09 / 22

**NOTE: ANY SUBSTITUTION OR OMISSION OF ANY MITEK PRODUCT SPECIFIED ON THESE PLANS WILL INVALIDATE MITEK'S PS1 FOR THE ENTIRE PROJECT**

*Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$200,000\*.*

This form is to accompany **Form 2 of the Building (Forms) Regulations 2004** for the application of a Building Consent.

**CHRISTCHURCH**

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**AUCKLAND**

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Fax: (09) 274 7100

email: fbbuildings.mitek.nz@mii.com

## DESIGN INFORMATION - FARM BUILDING FB72531B

**TIMBER AND GRADES**

- Poles : Poles, Outer Zone Density Normal 350 kg/m<sup>3</sup>  $f_b = 38$  MPa, Pole taper 6mm per 1.0m length
- Purlins : Radiata Pine or Douglas Fir - Heartland Verified Grade
- Girts : Radiata Pine or Douglas Fir - Heartland Verified Grade
- Rafters : Radiata Pine or Douglas Fir - Heartland Verified Grade
- Rafters : LVL Laminated Veneer Lumber hySPAN  $f_b = 50$  MPa,  $E = 13.2$  GPa Radiata Pine Laminations only
- Moisture content can be green. Our recommendation is 20% or less at time of installation.

**DESIGN LOADS**

- Dead loads for Light Roof - 0.25kPa (includes weight of purlins, associated framing and galvanized iron roof).
- Live loads - 1.1kN concentrated load, 0.25kPa uniform Load.
- The enclosed documentation has been designed for a Building Importance level 1, with 50 years working life. Refer to AS/NZS 1170.0:2002.
- Wind loads - building designed for a modified Extra High Wind Zone.
- Snow Loads - building designed for  $S_g = 2.184$  kPa (calculated specifically for the job site in this documentation)
- Seismic Zone - 3 (Annual Probability of Exceedance - 1/100)
- Soil conditions:
- Foundations have been designed with an ultimate bearing capacity of 200kPa available from a depth of 1.0m BGL and lower (cohesive).
- The ground conditions noted above have been confirmed by Richards Consulting Engineers, report ref: 22343
- Foundations on ground that has the potential for subsidence, liquefaction, lateral spread and soil instability are outside the scope of this design.
- Reviewing the Geotech report is outside the scope of MiTek's engagement..

**DESIGN LOAD REFERENCES**

Compliance Document for the New Zealand Building Code Clause B1 Structure	
NZS3603:1993 Amendment 4	Cited Verification Method
NZS3604 Amendment 2	Cited Acceptable Solution
NZS 1170 Part 0: 2002	Cited Verification Method
NZS 1170 Part 1: 2002	Cited Verification Method
NZS 1170 Part 2: 2011	Cited Verification Method
NZS 1170 Part 3: 2003	Cited Verification Method
NZS 1170 Part 5: 2004	Cited Verification Method
ANSI/TPI1 - 2002	Alternative Solution
Rutledge Method	Alternative Solution - Footing Design for Cantilever Poles.

**BUILDING ERECTION**

- Proper bracing must be installed to hold the components true and plumb and in a safe condition until permanent bracing is fixed. All permanent bracing and fixings must be installed before applying any loads.

**LOAD DETAILS**

These drawings have been prepared using the above design loads. It is the responsibility of the user to ensure that the design data and loads are still correct at the time of construction.

## PRODUCT SPECIFICATION

These details have been designed using specific MITEK®, LUMBERLOK® and BOWMAC® products and the performance of the building and validity of the Producer Statement is reliant on the correct choice of product.





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**Building Information:**

Roof Pitch: 6.3 deg.  
Wind Load: Extra High  
Snow Load:  $S_g = 2.184 \text{ kPa}$   
Earthquake Zone: 3  
Timber Grade: See Design Information  
Bay Spacing: 4200mm  
Purlin Size: 250x50  
Purlin Centres: 983mm  
Girt Size: 150x50, HVG 200x50 (Rear)  
Girt Centres: 1050mm  
Wind Pole Size: 150 SED, NA (Rear)  
Pole Size: See plans  
Pole Embedment: See plans  
Rafter Size: See plans  
Rafter Span: 9000mm  
Props Required: NA  
Max Pole Height: 4000mm  
Low Pole Height: 3000mm  
Floor Type: Earth  
Front Overhang: 1000mm Add-on  
Rear Overhang: None

**Key:**

-  = Clad Walls
-  = Column
-  = Pole
-  = Single Row of Tensioned Multibrace

**Notes:**

Order #: 440/80495

**Pole Sizes & Embedments:**

23 225 SED, 2600ED  
23 220 SED, 3100ED

Rev.	Date	Amendment
A	16/09/22	- Shed re-engineered to suit ground conditions
B	19/09/22	- Bay spacing modified

**MiTek**®

Job Name: Munro Lindsay

Job Site: Lake Coleridge

Client Name: Peter Butler

Drawn by: Hester Huang

Date: 19 / 09 / 22

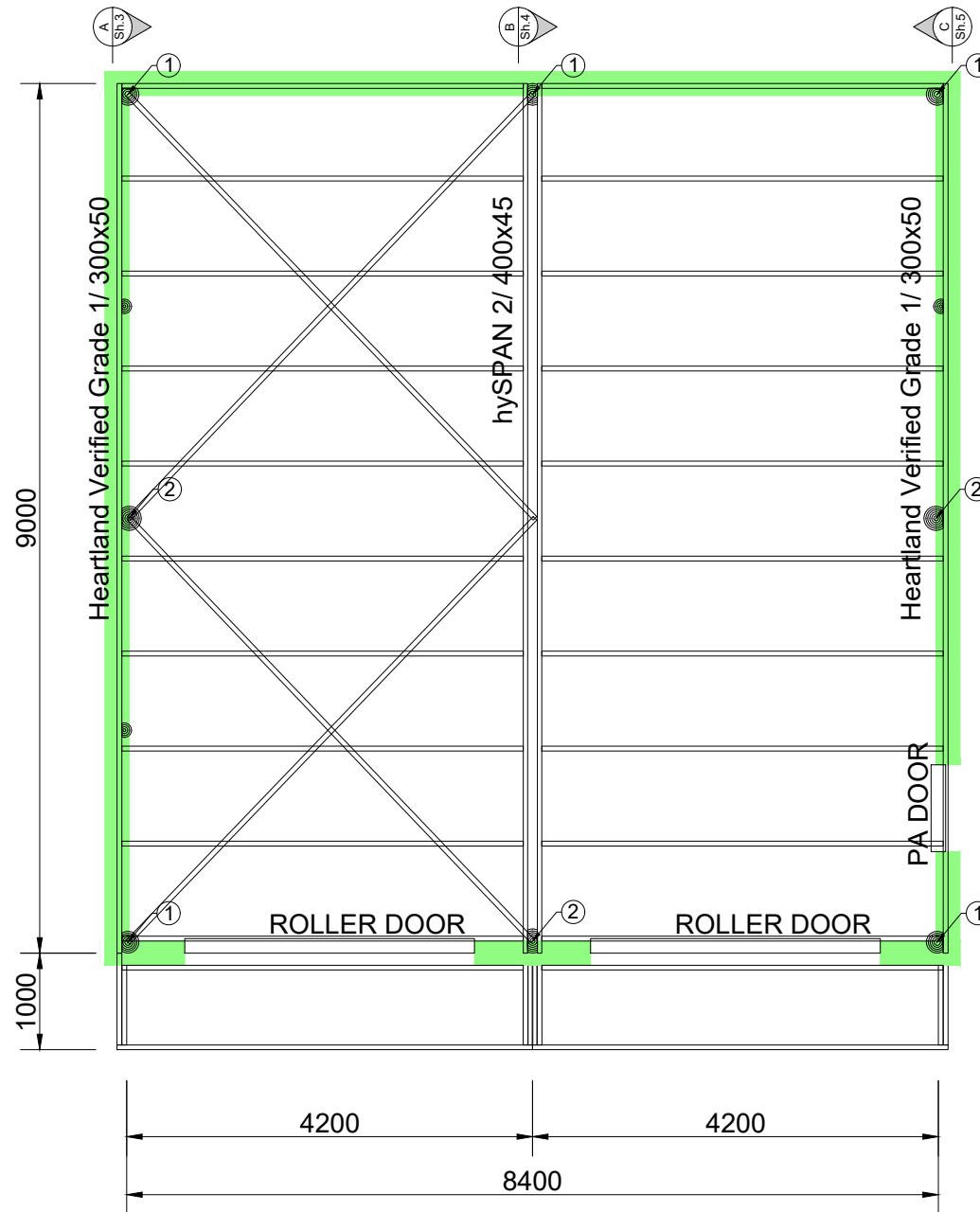
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Drawing Number:

FB72531B

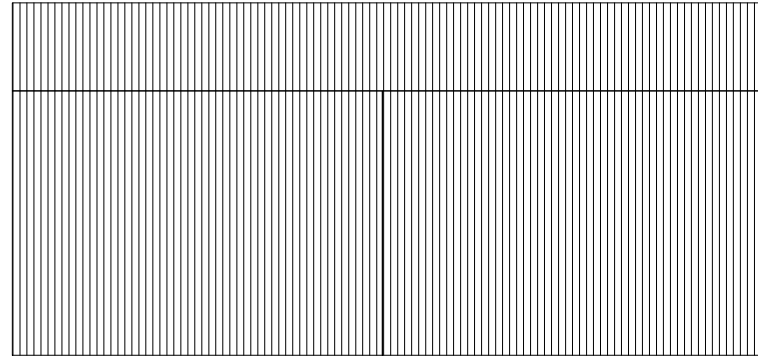
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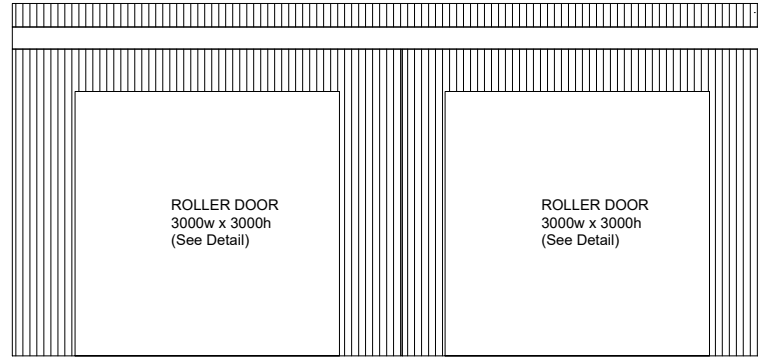


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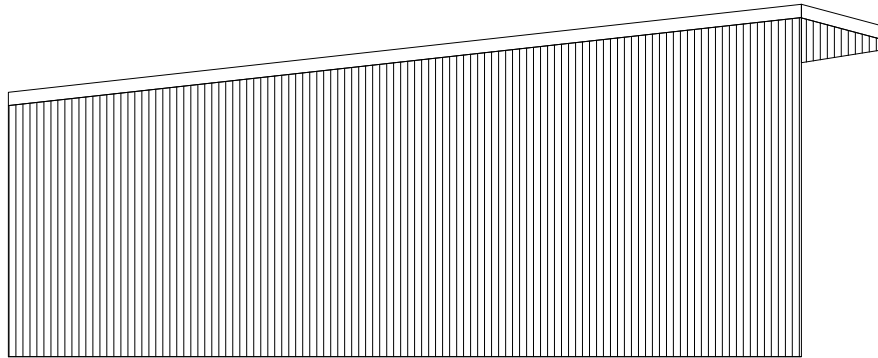
N.B. This design does not include any design or detail for flashing and/or drainage requirements.



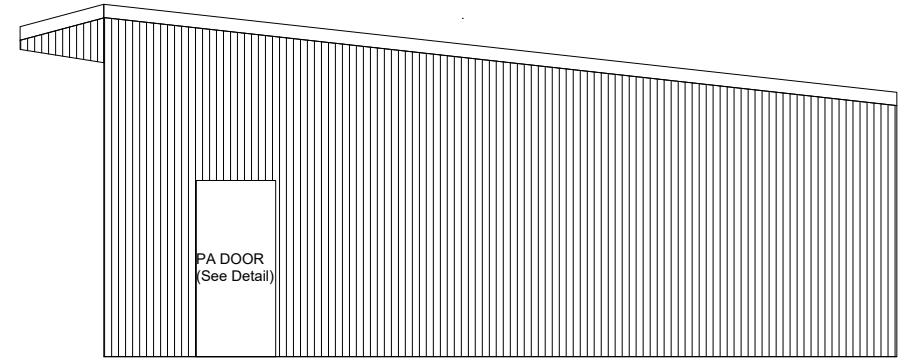
REAR ELEVATION



FRONT ELEVATION

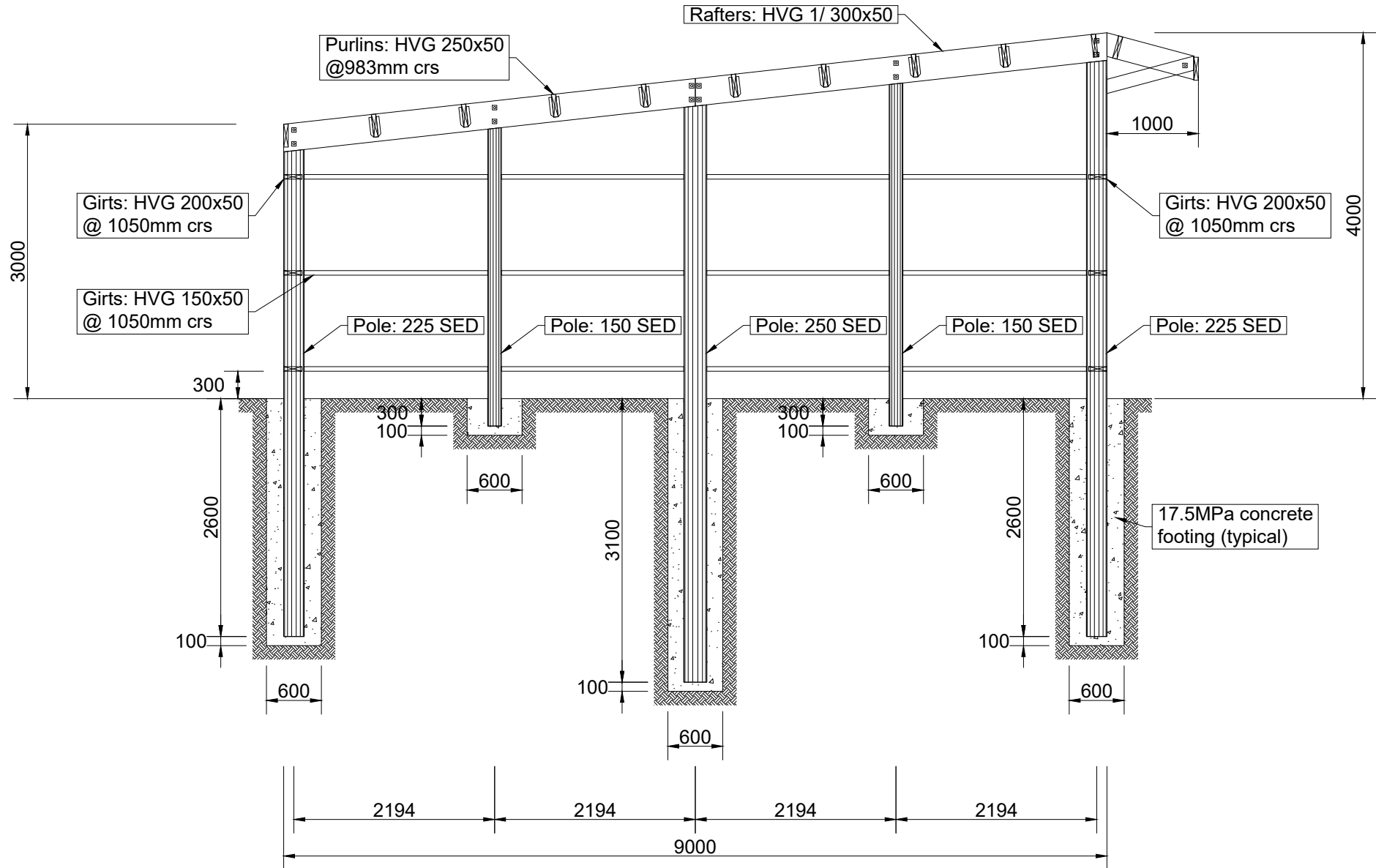


LEFT END ELEVATION



RIGHT END ELEVATION

Note: Girt pattern may vary, as long as spacings do not exceed 1050mm.



Pitch: 6.3 deg.



Job Name: Munro Lindsay  
Job Site: Lake Coleridge  
Client Name: Peter Butler

Drawn by: Hester Huang

Date: 19 / 09 / 22

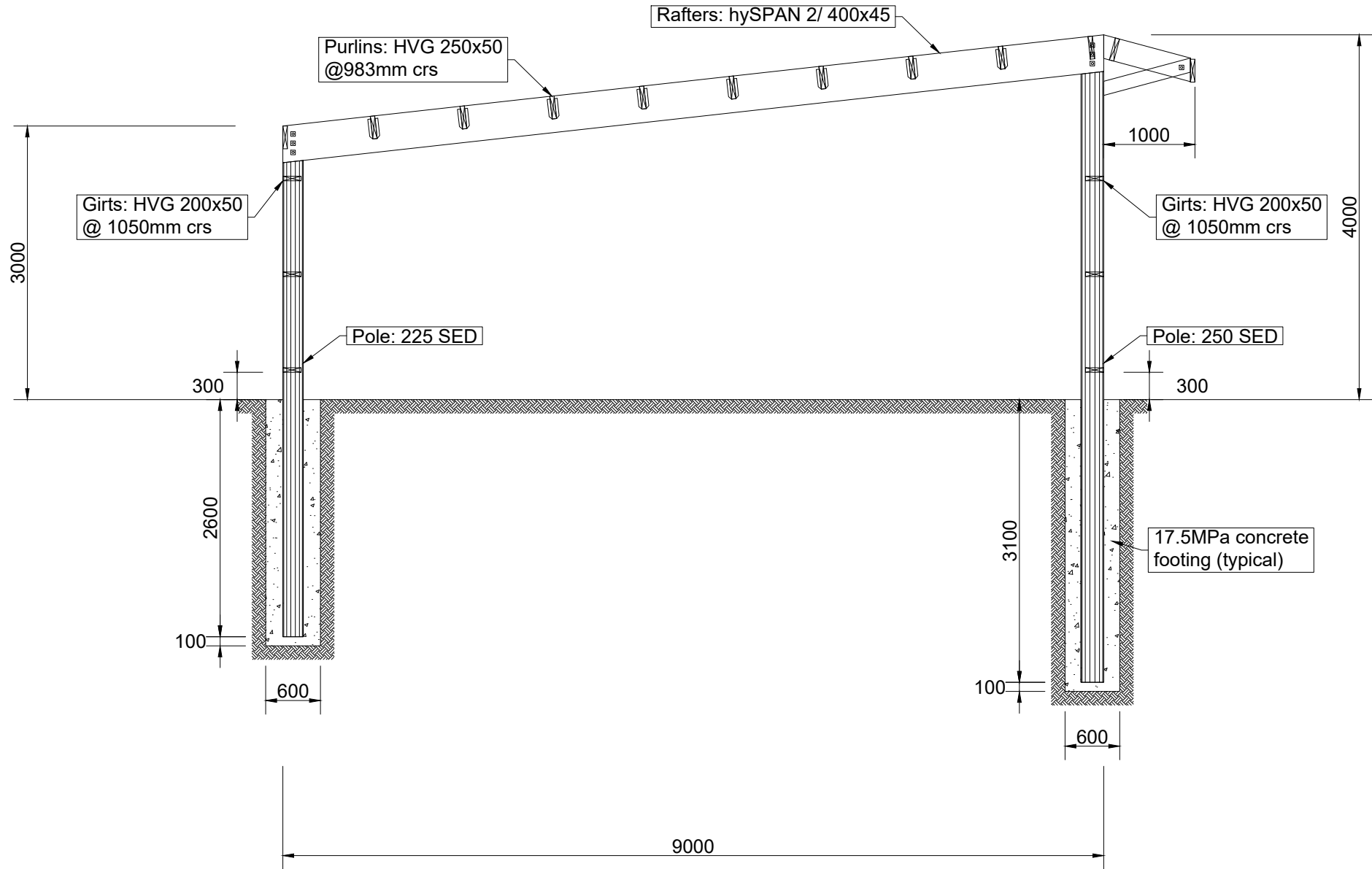
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Section A

Drawing Number: FB72531B  
Sheet Number: 3



Note: Girt pattern may vary, as long as spacings do not exceed 1050mm.



Pitch: 6.3 deg.



Job Name: Munro Lindsay  
 Job Site: Lake Coleridge  
 Client Name: Peter Butler

Drawn by: Hester Huang

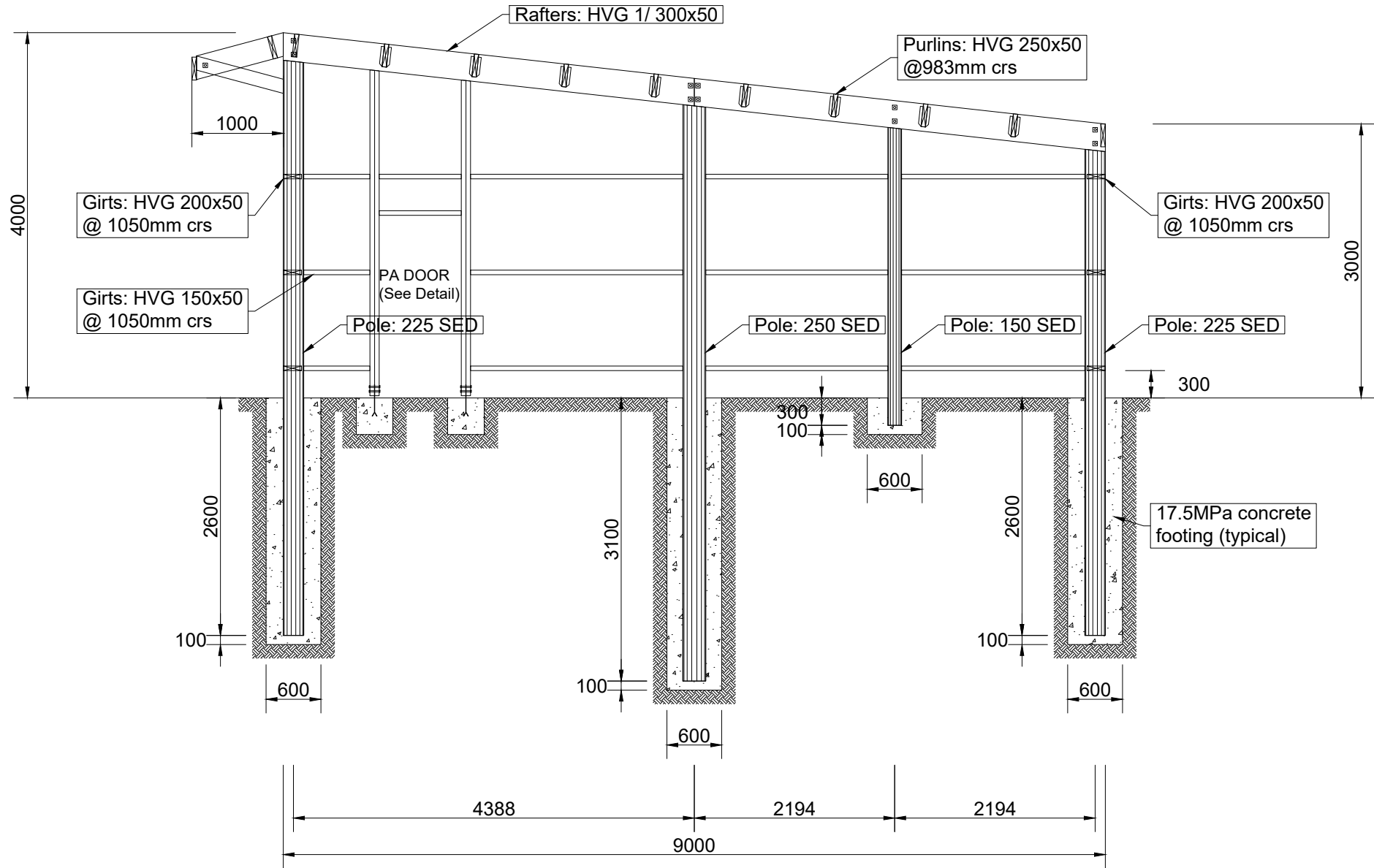
Date: 19 / 09 / 22

Section B

Scale: drawings to scale

Drawing Number: FB72531B  
 Sheet Number: 4

Note: Girt pattern may vary, as long as spacings do not exceed 1050mm.



Pitch: 6.3 deg.



Job Name: Munro Lindsay  
 Job Site: Lake Coleridge  
 Client Name: Peter Butler

Drawn by: Hester Huang

Date: 19 / 09 / 22

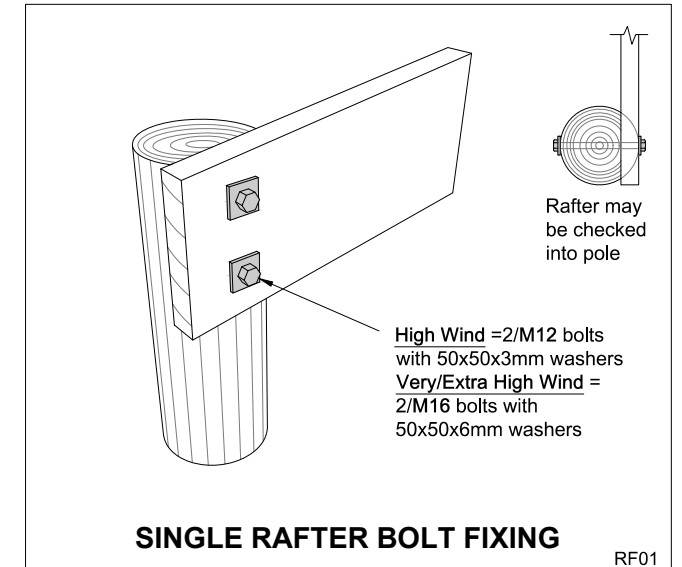
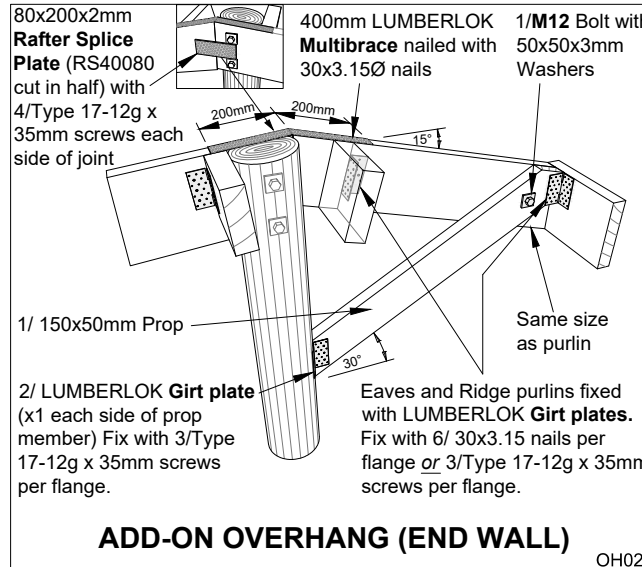
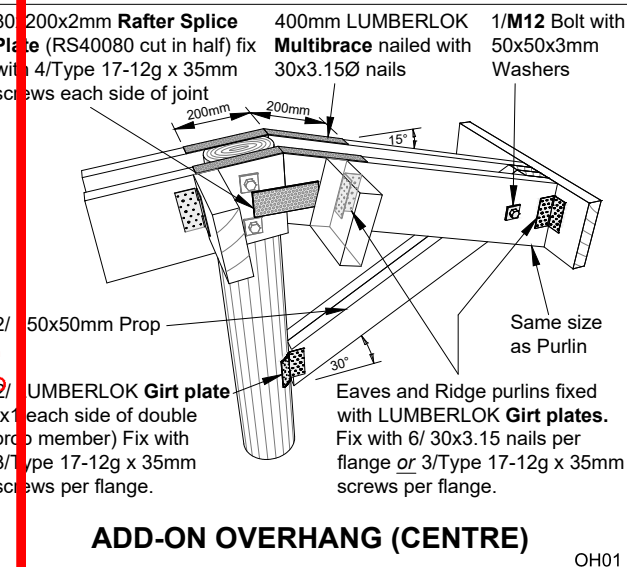
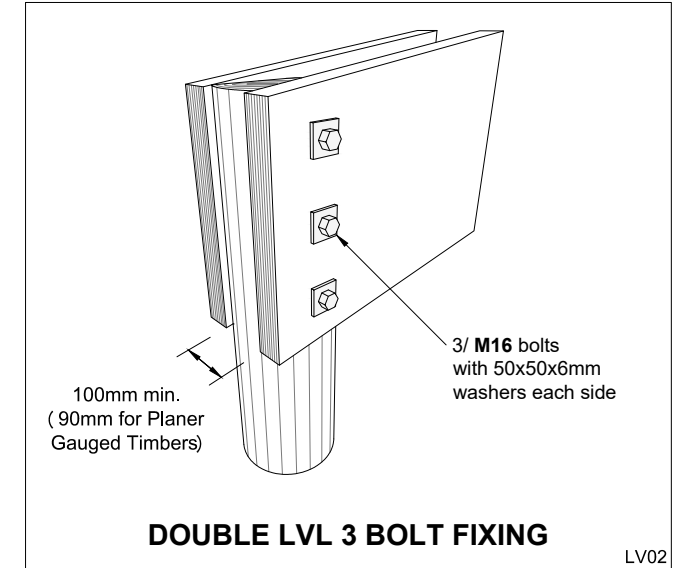
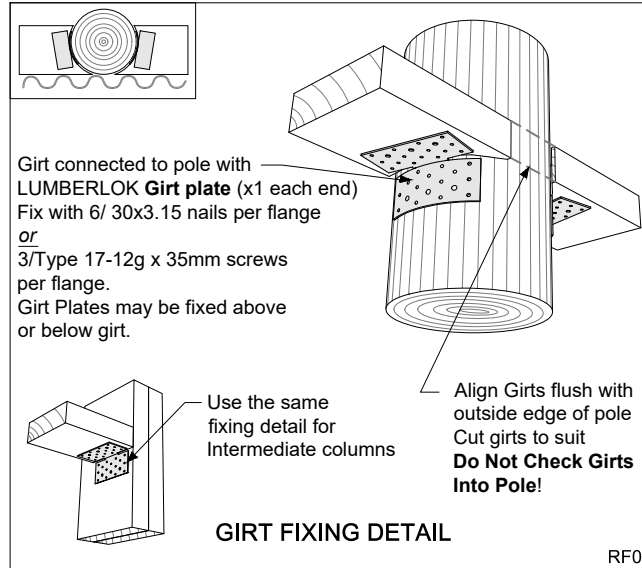
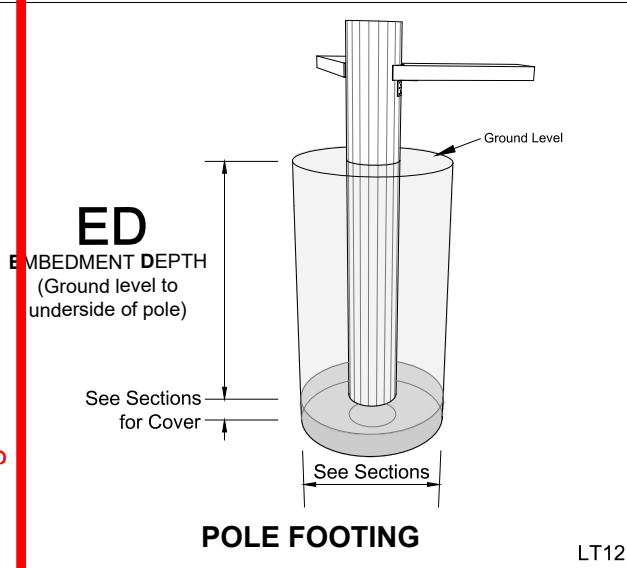
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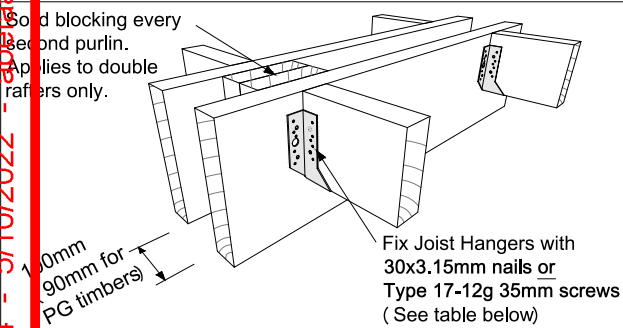
Section C

Drawing Number: FB72531B

Sheet Number: 5



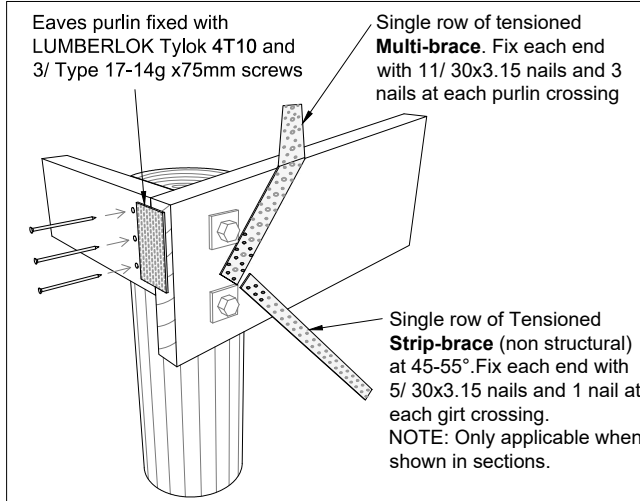




Purlin Size	LUMBERLOK Joist Hanger	No. of Nails per flange	No. of Screws per flange
140/ 190x45	JH 47x120	4	2
150/ 200x50	JH 52x120		
240/ 290x45	JH 47x190	6	3
250/ 300x50	JH 52x190		

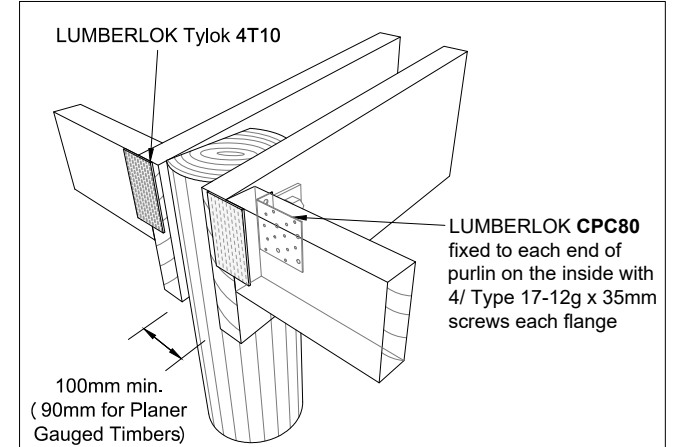
#### PURLIN FIXING & BLOCKING

RF08



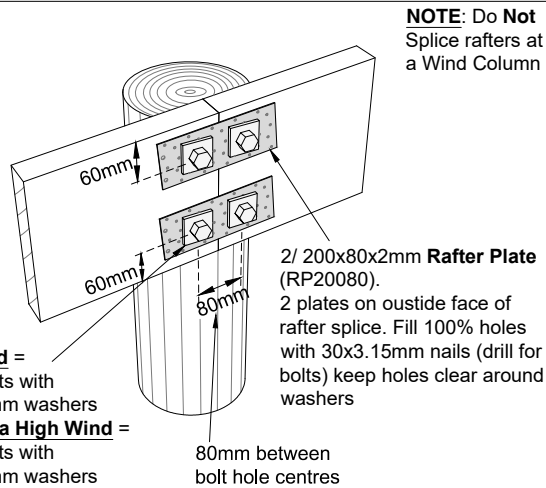
#### FLUSH PURLIN & BRACING FIXING

RF10



#### PURLIN FIXING - CLOSED BAY

RF11



#### RAFTER SPLICE (4 BOLTS) END

SP04



Job Name: Munro Lindsay

Job Site: Lake Coleridge

Client Name: Peter Butler

Drawn by: Hester Huang

Date: 19 / 09 / 22

Scale: drawings to scale

#### Details

Drawing Number:

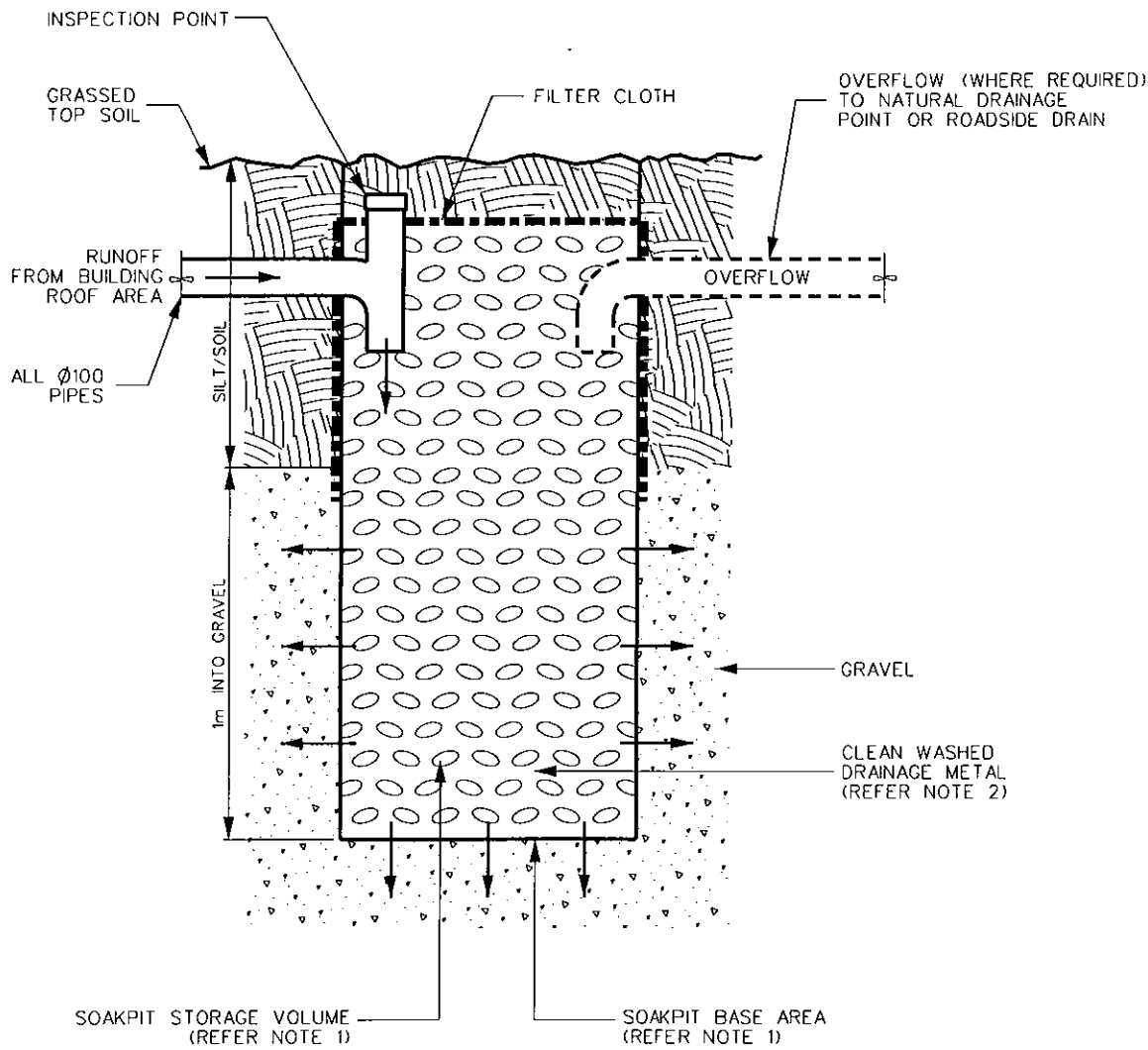
FB72531B

Sheet Number:

8



Roof area 8.4 x 9.0 = 75.6



**SOAK PIT SIZING**  
Base size  $1 \times 75.6/100 = 0.756 \text{ m}^2$   
Storage = 0.756 plus void  $0.38 \times 0.756 = 0.2188$   
 $0.756 + 0.2188 = 0.9748 \text{ m}^3$  minimum

**NOTES:**

1. SOAK PIT SIZING - PROVIDE  $1\text{m}^2$  OF BASE AREA PER  $100\text{m}^2$  OF ROOF AREA AND  $2\text{m}^3$  OF STORAGE VOLUME PER  $100\text{m}^2$  OF ROOF AREA (ALLOW 0.38 FACTOR FOR VOID SPACE) OR ALTERNATIVELY PROVIDE FULL DESIGN CALCULATIONS IN ACCORDANCE WITH VERIFICATION METHOD E1/VMI SECTION 9.
2. CLEAN WASHED DRAINAGE METAL - TO BE EITHER TAILINGS 20mm-40mm, ROUNDS 40mm-65mm, BOULDERS 65mm-120mm, ROCKS 100mm-150mm OR SIMILAR.

NOT TO SCALE

SHEET TITLE

RURAL  
SOAK PIT

PROJECT TITLE

STANDARD  
DRAWINGS

SHEET

330B

ISSUE  
8

PLAN No.  
600