

Mintaro Hut

for Department of Conservation
Project N°: 1772

Detailed Design September 2019

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DESIGN CRITERIA:

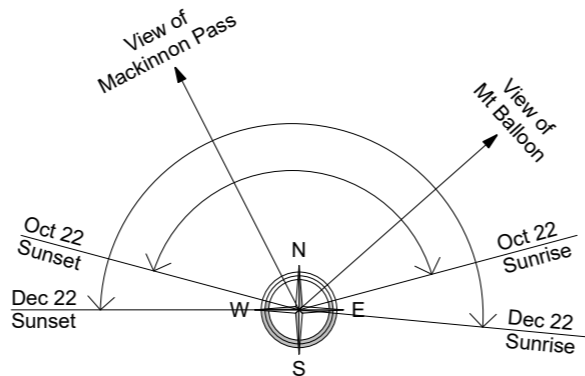
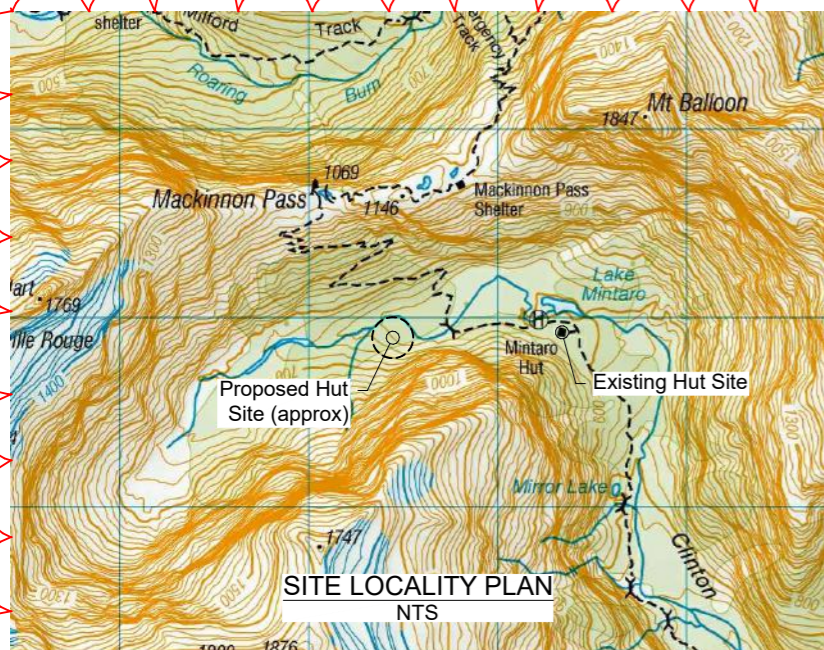
Soil Type:	D
Exposure Zone:	B
Wind Zone:	Very High
Earthquake Zone:	4
Floor Load (Hut):	3.0 kPa
Floor Load (Decks):	2.0 kPa
Altitude:	620m
Snow Load:	2.0 kPa



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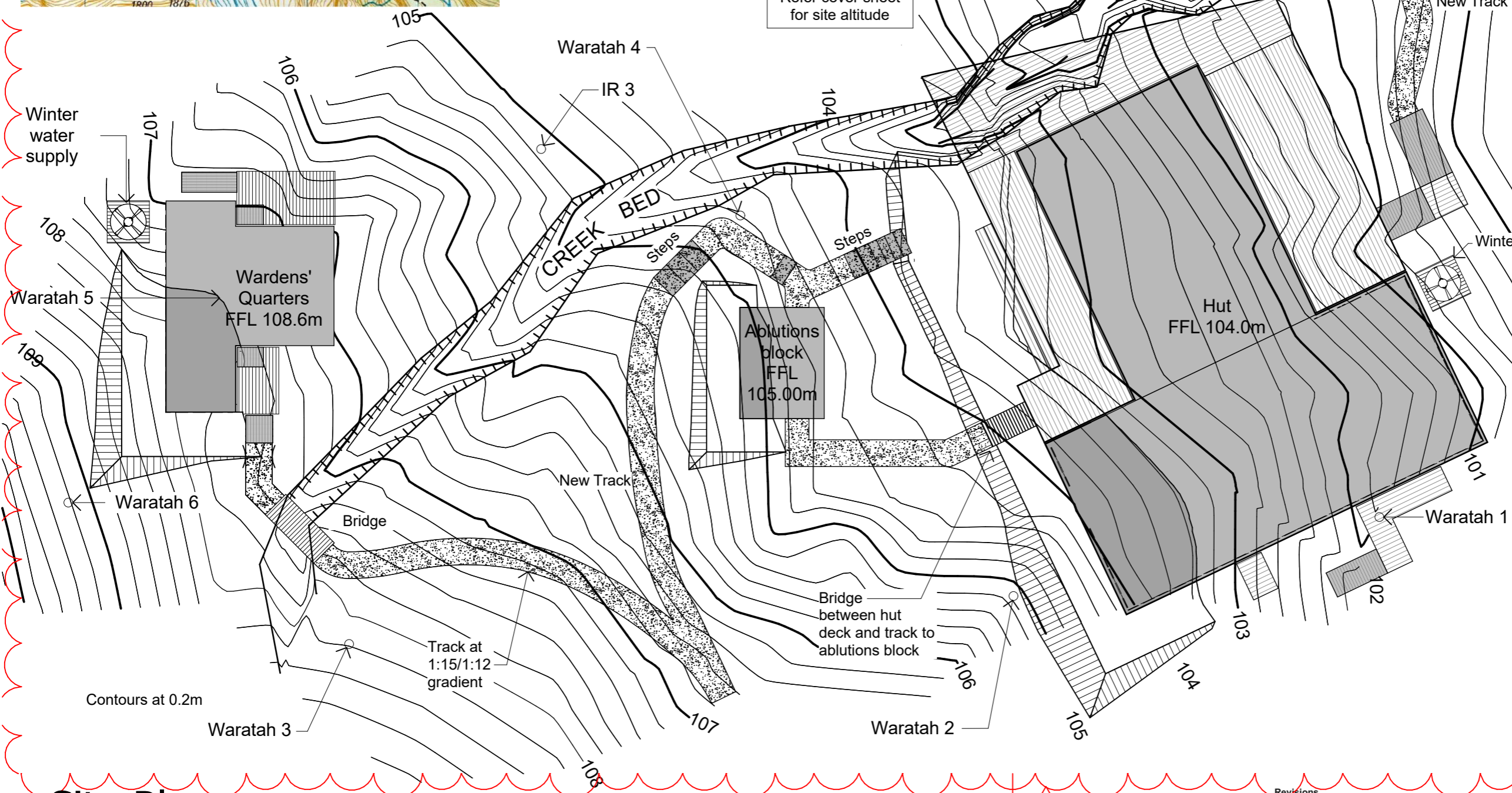
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Sunshine Hours
Season Start (Late Oct)
-Refer Compass Rose
Season End (Late April)
-About 1 Hour

All contour heights and FFLs are relative to a datum. Refer cover sheet for site altitude



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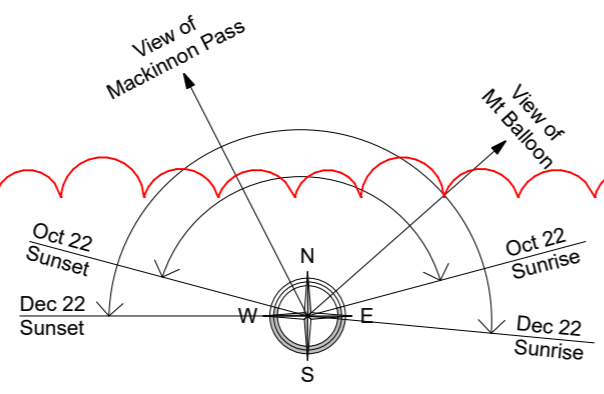
Client: Department of Conservation
Project Name: Mintaro Hut
Project No: 1772
Milford Track Fiordland National Park

Detailed Design
Drawing Name: Site Plan

Site Plan
1:200

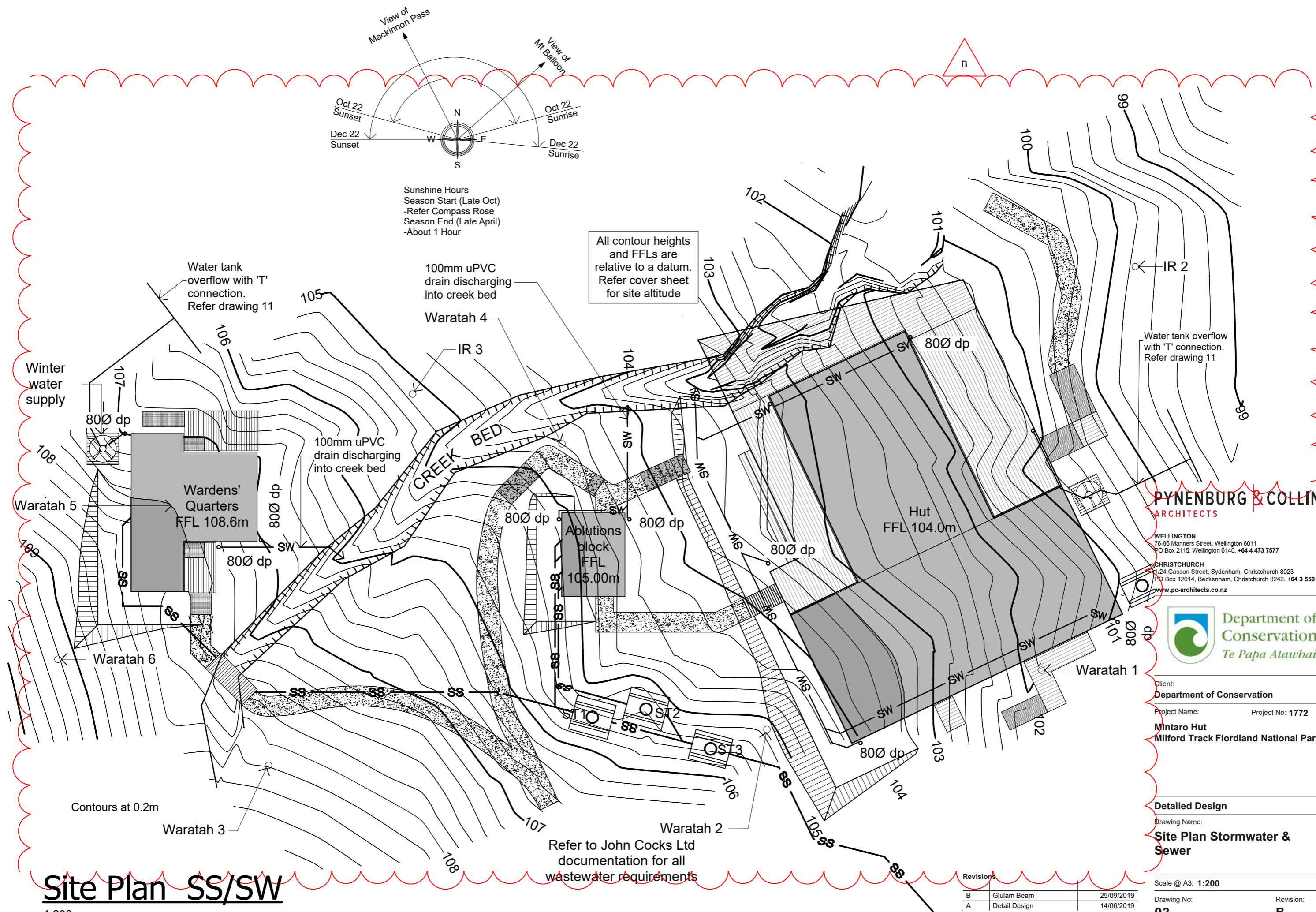
Revisions		
D	Glulam Beam	25/09/2019
C	Detail Design	14/06/2019
B	Developed Design	22/03/2019

Scale @ A3: 1:200
Drawing No: 02
Revision: D



Sunshine Hours
 Season Start (Late Oct)
 -Refer Compass Rose
 Season End (Late April)
 -About 1 Hour

All contour heights and FFLs are relative to a datum. Refer cover sheet for site altitude



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 Project Name: Mintaro Hut
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 Project No: 1772

Detailed Design
 Drawing Name: Site Plan Stormwater & Sewer

Revisions		
B	Glulam Beam	25/09/2019
A	Detail Design	14/06/2019

Scale @ A3: 1:200
 Drawing No: 03
 Revision: B

Site Plan SS/SW
 1:200

Refer to John Cocks Ltd documentation for all wastewater requirements

Contours at 0.2m

Waratah 3

Waratah 2

Waratah 1

Waratah 6

Waratah 5

Hut
FFL 104.0m

Ablutions block
FFL 105.00m

Wardens' Quarters
FFL 108.6m

Waratah 4

Water tank overflow with 'T' connection. Refer drawing 11

Water tank overflow with 'T' connection. Refer drawing 11

Winter water supply

100mm uPVC drain discharging into creek bed

100mm uPVC drain discharging into creek bed

CREEK BED

IR 3

IR 2

MS

MS

MS

MS

MS

MS

MS

MS

MS

MS

MS

MS

MS

MS

MS

MS



WALL FRAMING




Wall	Framing Size & Centres
Exterior	140x45 @ 600c/c
Interior	140x45 @ 600c/c
Lobby North Wall	140x45 @ 600c/c
Elsewhere	90x45 @ 600c/c
2 rows of Dwangs	

SEATING

Tables
6/1800x800

Forms
8/800x300 forms
10/1800x300 forms

Floor Area = 265m²
Deck Area = 138m²

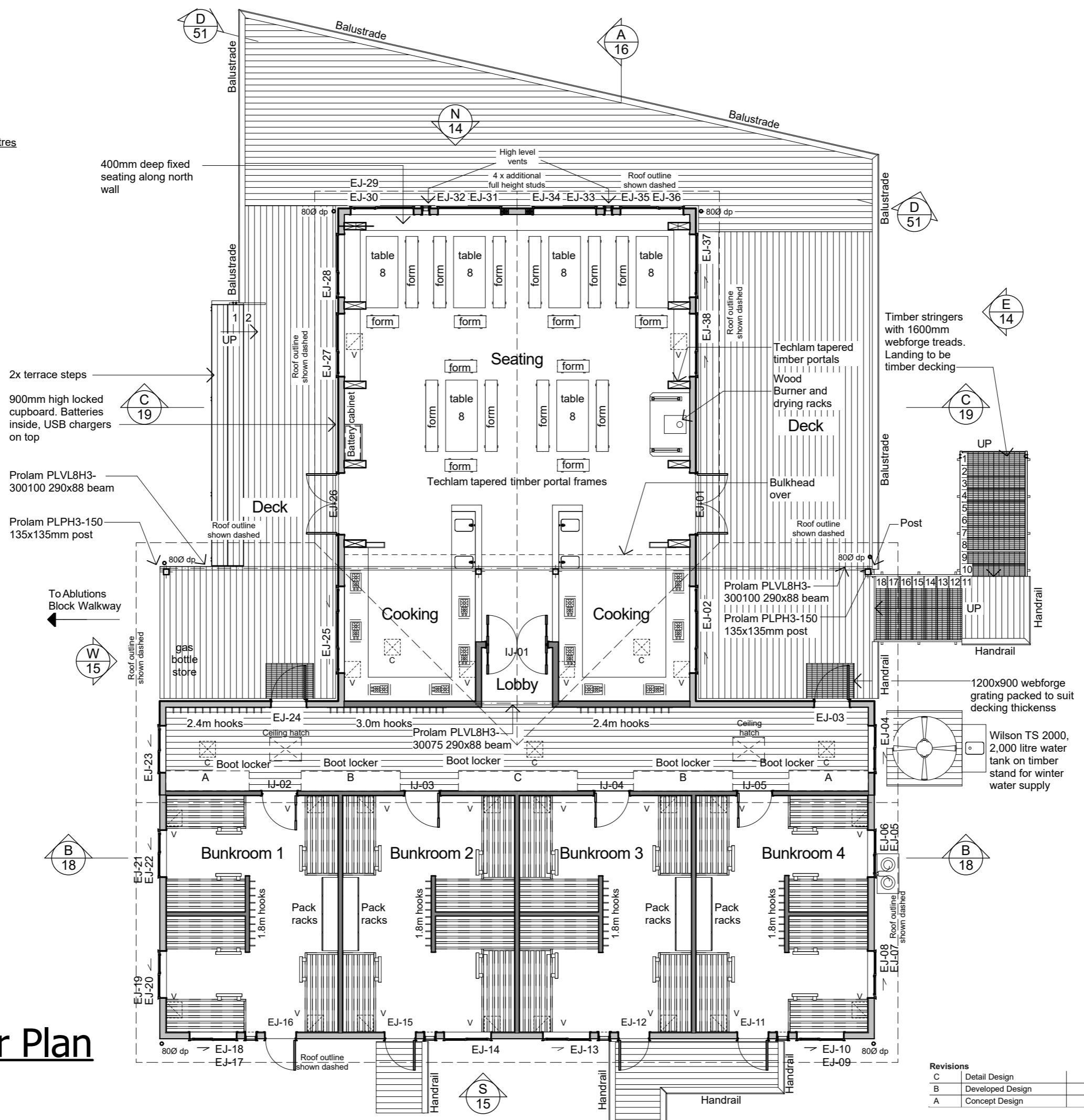
-  Floor Vent.
-  Ceiling vent. Refer to specification for type
-  Ceiling Hatch Refer details

LINTELS

Refer to Window and Door Schedule for lintel sizes

WALL INSULATION

Wall	Insulation Type
North/South	PINK BATTS R4.0 insulation batts
West/East	PINK BATTS R4.0 insulation batts



Floor Plan

1:100

Revisions		
C	Detail Design	14/06/2019
B	Developed Design	22/03/2019
A	Concept Design	2/11/2018

Scale @ A3: 1:100	Revision:
Drawing No: 04	C

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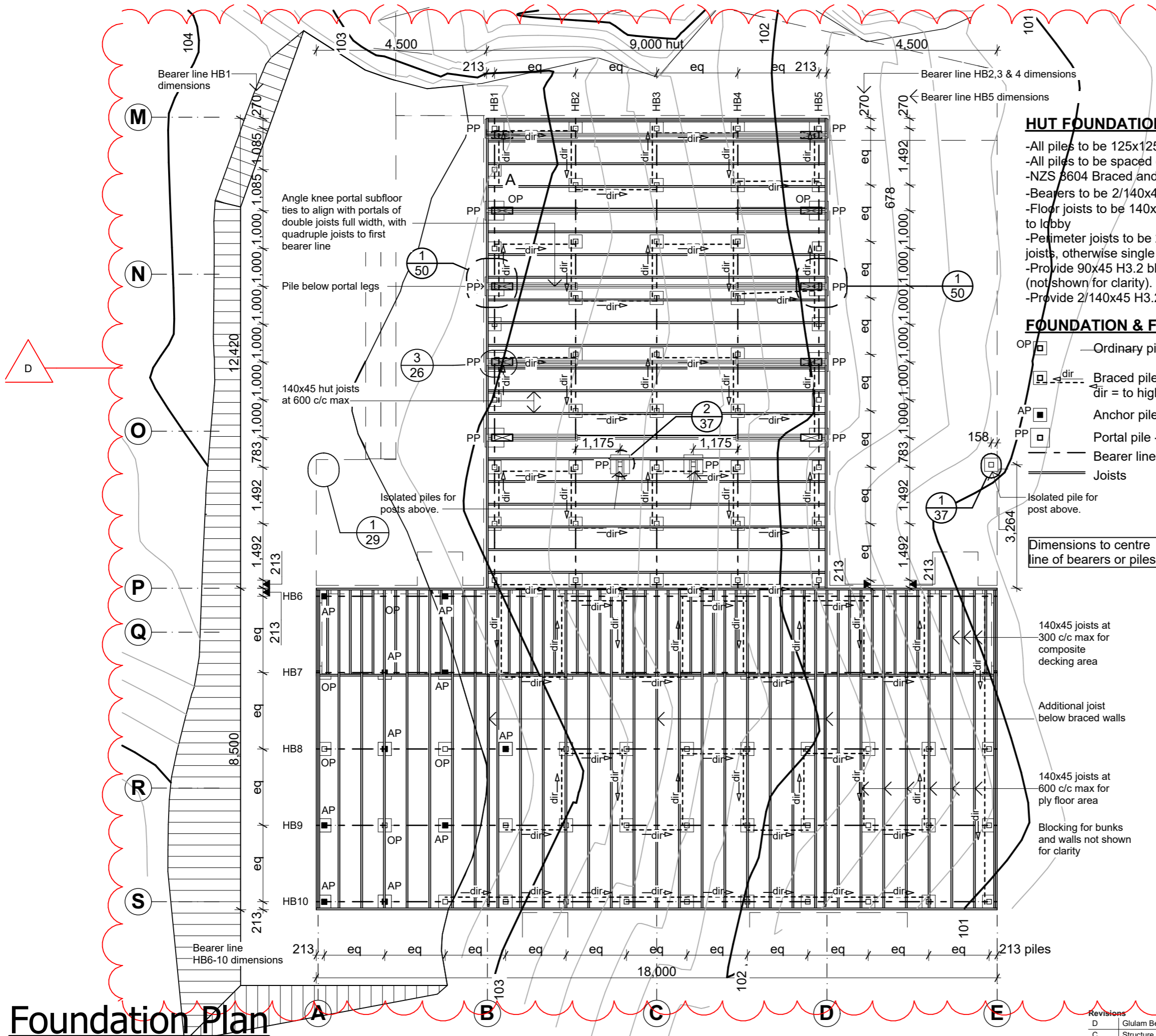
Client:
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Project Name: **Mintaro Hut** Project No: 1772
Milford Track Fiordland National Park

Detailed Design

Drawing Name:

Floor Plan



HUT FOUNDATION & FRAMING NOTES

- All piles to be 125x125.
- All piles to be spaced evenly along bearer line unless noted otherwise.
- NZS 3604 Braced and Anchor Pile Foundation System
- Bearers to be 2/140x45 H3.2 SG8.
- Floor joists to be 140x45 H3.2 SG8 @ max 600ctrs, except @300ctrs to lobby
- Perimeter joists to be 2/140x45 H3.2 SG8 only where wall parallel to joists, otherwise single joist.
- Provide 90x45 H3.2 blocking to flooring sheet edges (not shown for clarity).
- Provide 2/140x45 H3.2 blocking under all bunk stairs.

FOUNDATION & FRAMING LEGEND

- OP Ordinary pile - 350x350x200mm footing
- Braced pile - 350x350x450mm footing
dir = to high point of brace
- AP Anchor pile - 350x350x900mm footing
- PP Portal pile - 500x500x450mm footing
- Bearer line.
- Joists

Isolated pile for post above.

Dimensions to centre line of bearers or piles

140x45 joists at 300 c/c max for composite decking area

Additional joist below braced walls

140x45 joists at 600 c/c max for ply floor area

Blocking for bunks and walls not shown for clarity

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Milford Track Fiordland National Park

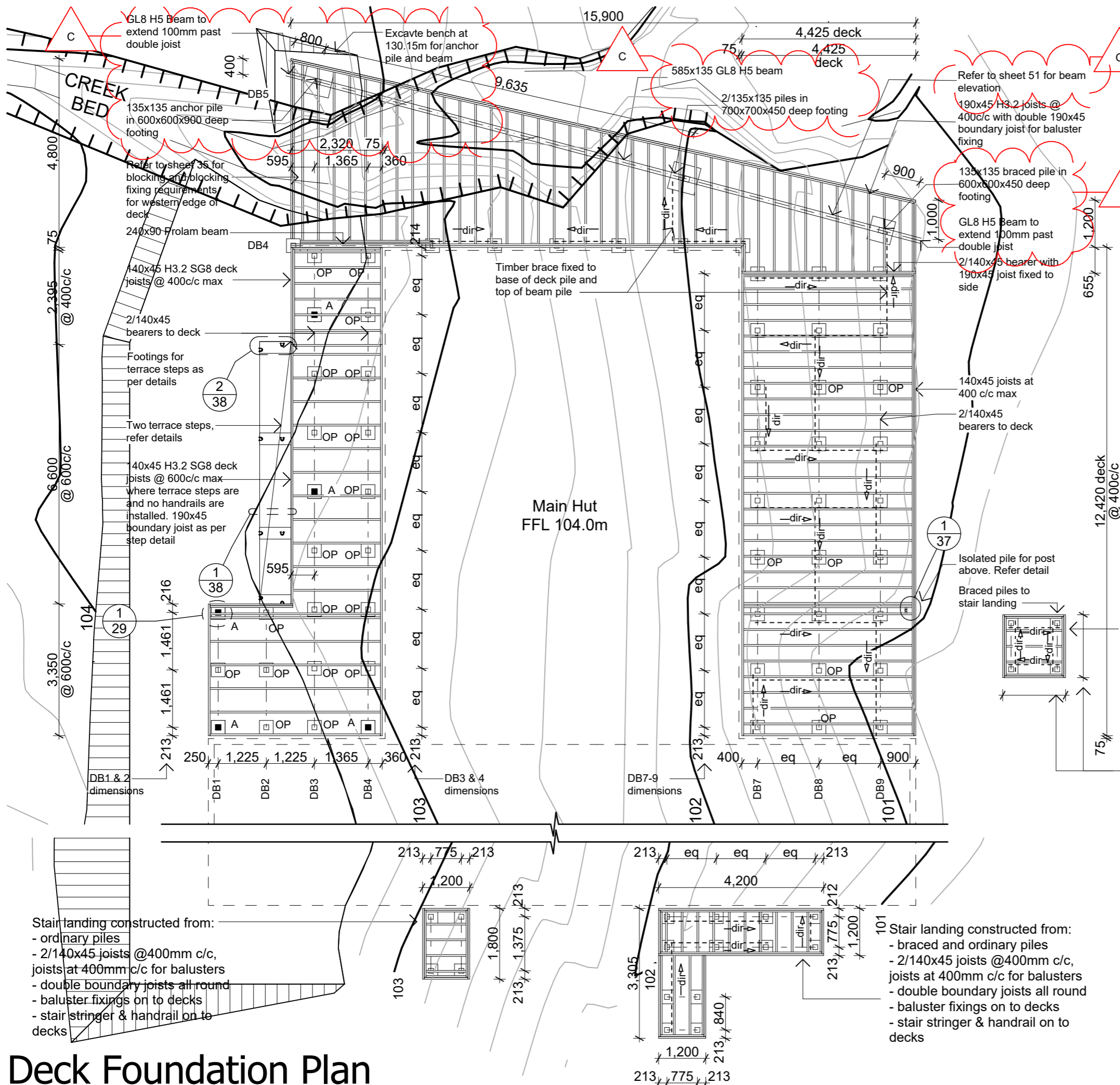
Detailed Design

Drawing Name:
Foundation Plan Hut

Revisions		
D	Glulam Beam	25/09/2019
C	Structure & Details	6/09/2019
B	Detail Design	14/06/2019

Scale @ A3: **1:100**

Drawing No: **05** Revision: **D**



DECK FOUNDATION & FRAMING NOTES

- All piles to be 125x125; min 600mm out of ground.
- All piles to be spaced evenly along bearer line unless noted otherwise
- NZS 3604 Braced and Anchor Pile Foundation System
- Bearers to East Deck be 2/140x45 H3.2 SG8.
- Bearers to North Deck be 2/140x45 H3.2 SG8.
- Bearers to West Deck be 2/140x45 H3.2 SG8.
- Deck joists as noted on plan
- Perimeter joists to be 2/depthx45 H3.2 SG8.

Deck Bracing

13.5BUs m² as per engineers design
 East Deck = 53m² 716 BUs = 6x Braced Piles each way
 North Deck = As per engineers design
 West Deck = 36m² = 486 BUs = 4x Anchor Piles

Foundation & Framing legend

- OP Ordinary pile - 350x350x200mm footing
- dir Braced pile - 350x350x450mm footing
dir = to high point of brace
- A Anchor pile - 350x350x900mm footing
- - - Bearer line.
- Joists

Stair landing constructed from:

- braced piles
- 2/140x45 joists @400mm c/c, joists at 400mm c/c for balusters
- double boundary joists all round
- baluster fixings as per decks
- stair stringer & handrail as per decks

Dimension to suit landing of stair, shapes with 1500 Webforge treads, stair handrail connecting to landing balustrates

Stair landing constructed from:

- braced and ordinary piles
- 2/140x45 joists @400mm c/c, joists at 400mm c/c for balusters
- double boundary joists all round
- baluster fixings on to decks
- stair stringer & handrail on to decks

Stair landing constructed from:

- ordinary piles
- 2/140x45 joists @400mm c/c, joists at 400mm c/c for balusters
- double boundary joists all round
- baluster fixings on to decks
- stair stringer & handrail on to decks

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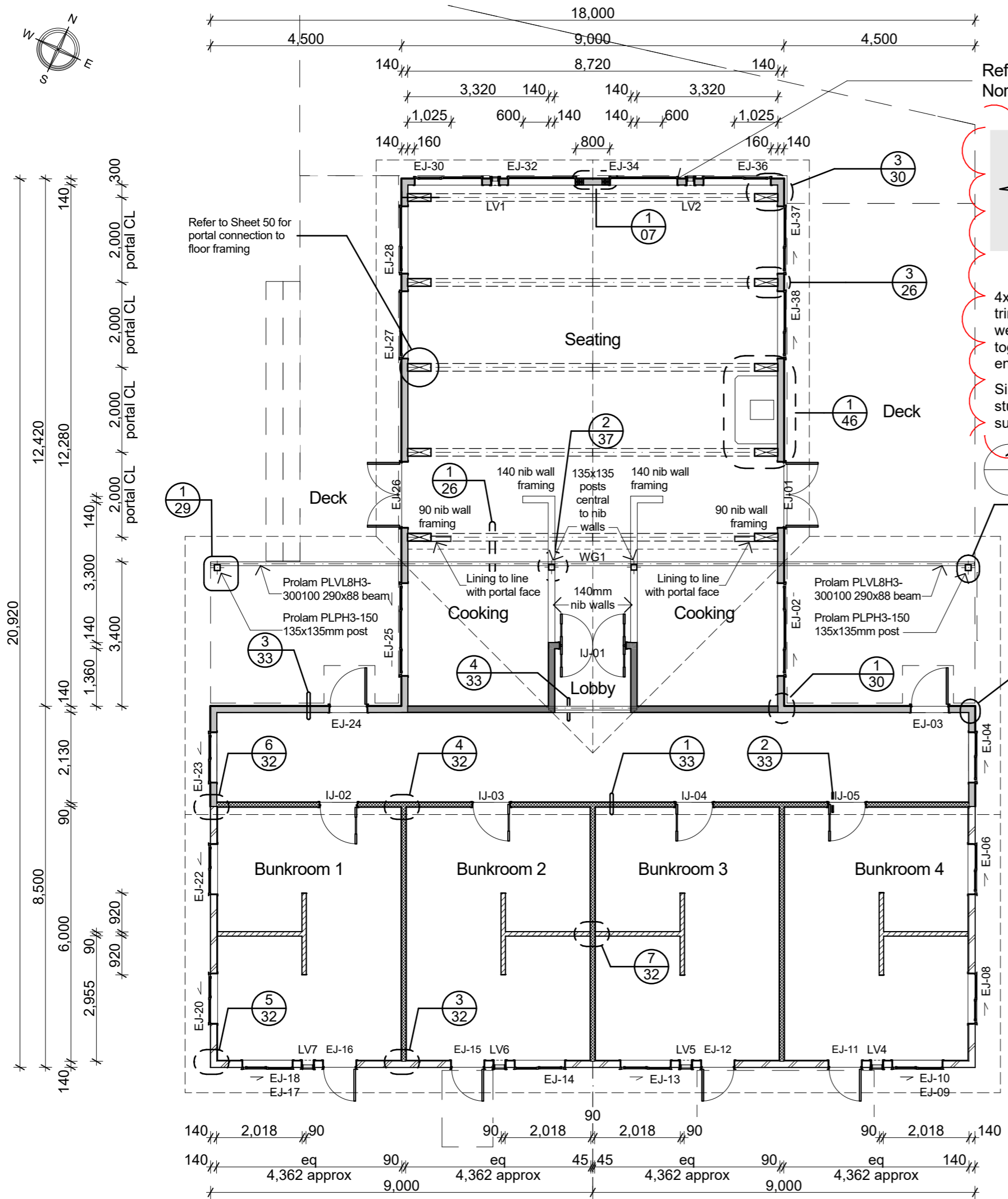


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 Project No: 1772
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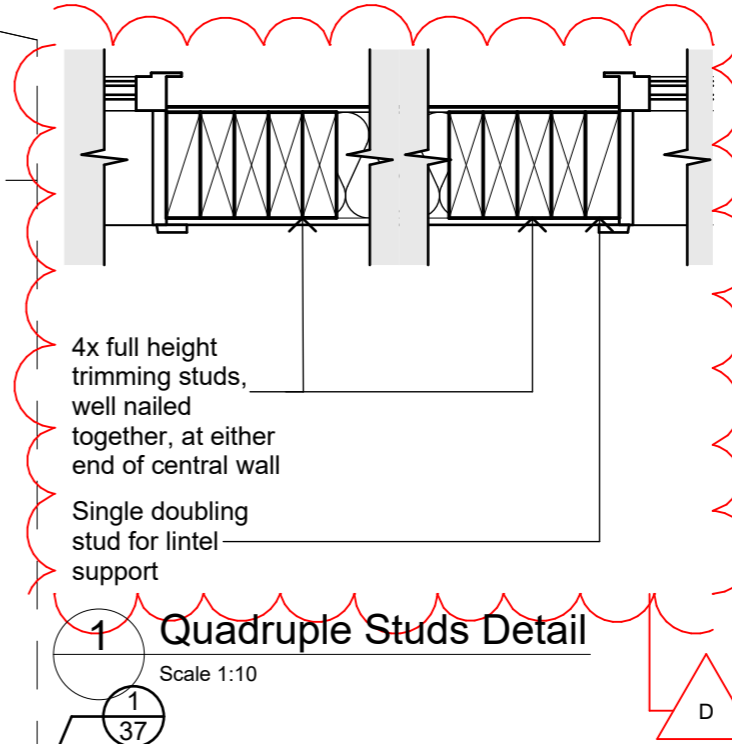
Detailed Design
 Drawing Name: Foundation Plan Deck

Revisions		
C	Glulam Beam	25/09/2019
B	Structure & Details	6/09/2019
A	Detail Design	14/06/2019

Scale @ A3: 1:100
 Drawing No: 06
 Revision: C



Refer to Sheet 49 for North Wall Framing



1 Quadruple Studs Detail
Scale 1:10

- ### WALL LEGEND
- 140mm H3.2 timber framed walls with 9mm ECOPLY BD grade untreated wall lining to interior and James Hardie 4.5mm HomeRAB Pre-cladding board to exterior
 - 140mm H3.2 timber framed walls with 9mm ECOPLY BD grade untreated wall lining to both sides
 - 1200mm high 140 or 90mm H3.2 timber framed nib walls lined with 9mm ECOPLY BD grade untreated wall lining and 190 or 140x40 timber capping
 - 2250mm high 90mm H3.2 timber framed wing walls lined with 9mm ECOPLY BD grade untreated wall lining and 140x40 timber capping
 - EXTERIOR FIRE WALL GBWU 30a 140mm H3.2 framed wall with 16mm GIB Fyrelite to INSIDE of Bunkrooms. 9mm ECOPLY BD grade untreated wall lining over GIB. Apply RESENE Fireshield 1FR basecoat with 1FR TOPcoat intumescent top coat coating over ply linings to INSIDE of Bunkrooms
 - FIRE SEPARATION WALL GBTL 30 90mm H3.2 framed wall with 10mm GIB Fyrelite to BOTH sides. 9mm ECOPLY BD grade untreated wall lining over GIB. Apply RESENE Fireshield 1FR basecoat with 1FR TOPcoat intumescent top coat coating over ply linings.

EXIT SIGNS
To be located above doors EJ-01, 03, 11, 12, 15, 16, 25 and 26. IJ-02, 03, 04 and 05

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Client:
Department of Conservation

Project Name: **Mintaro Hut** Project No: **1772**

Milford Track Fiordland National Park

Framing & Setout Plan

1:100 Contractor to check and verify all dimensions before commencing construction

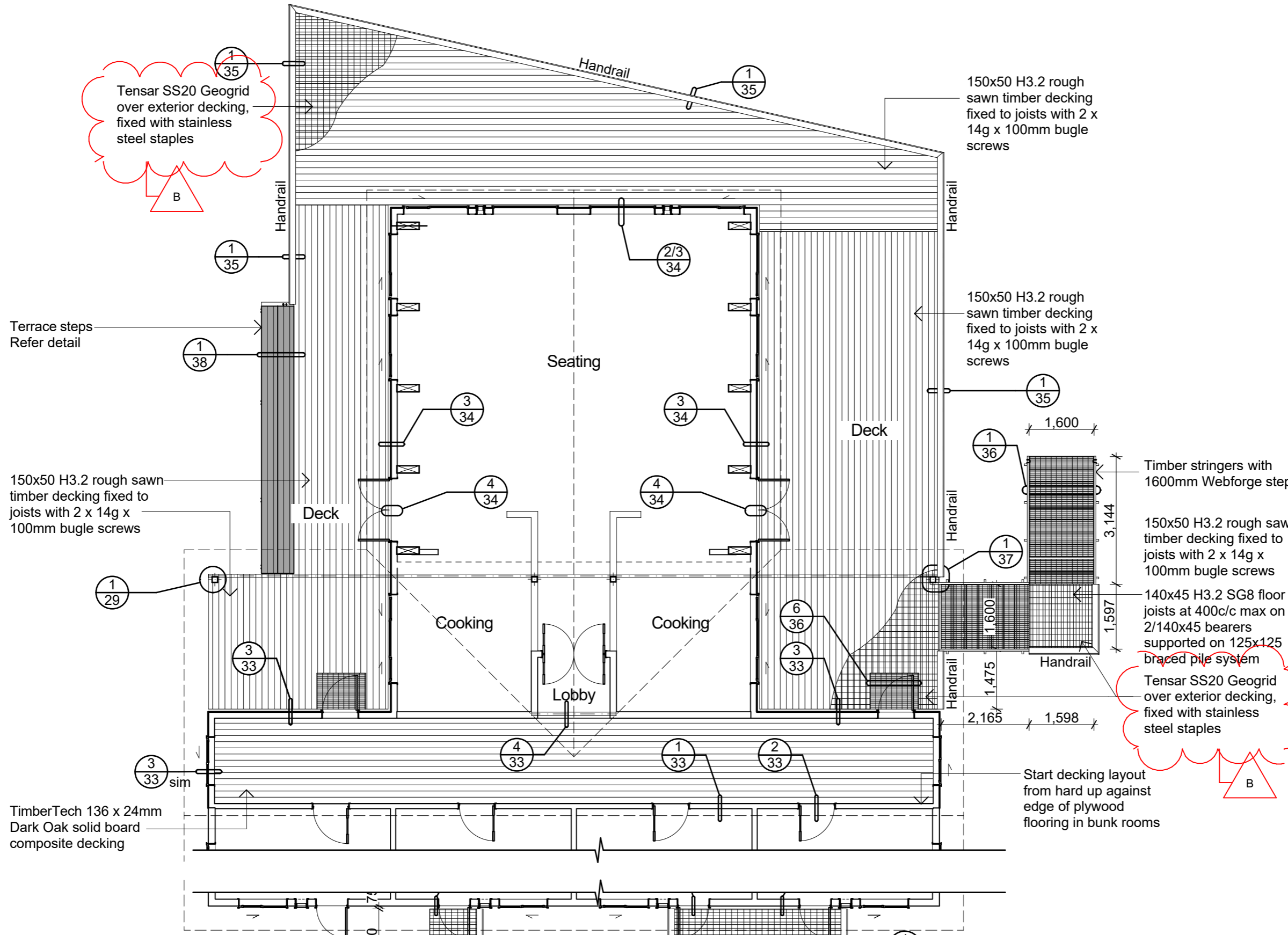
Revisions		
D	Glulam Beam	25/09/2019
C	Structure & Details	6/09/2019
B	Detail Design	14/06/2019

Detailed Design

Drawing Name:
Setout and Framing Plan

Scale @ A3: **1:10, 1:100**

Drawing No: **07** Revision: **D**



Deck Setout Plan

1:100

Contractor to check and verify all dimensions before commencing construction

Tensar SS20 Geogrid over exterior decking, fixed with stainless steel staples

150x50 H3.2 rough sawn timber decking fixed to joists with 2 x 14g x 100mm bugle screws

140x45 H3.2 SG8 floor joists at 400c/c max on 2/140x45 bearers supported on 125x125 braced pile system

Tensar SS20 Geogrid over exterior decking, fixed with stainless steel staples

Timber stringers with 1200mm Webforge steps

150x50 H3.2 rough sawn timber decking fixed to joists with 2 x 14g x 100mm bugle screws

150x50 H3.2 rough sawn timber decking fixed to joists with 2 x 14g x 100mm bugle screws

Timber stringers with 1600mm Webforge steps

150x50 H3.2 rough sawn timber decking fixed to joists with 2 x 14g x 100mm bugle screws

140x45 H3.2 SG8 floor joists at 400c/c max on 2/140x45 bearers supported on 125x125 braced pile system

Tensar SS20 Geogrid over exterior decking, fixed with stainless steel staples

Start decking layout from hard up against edge of plywood flooring in bunk rooms

Revisions		
B	Structure & Details	6/09/2019
A	Detail Design	14/06/2019

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Milford Track Fiordland National Park

Project No: 1772

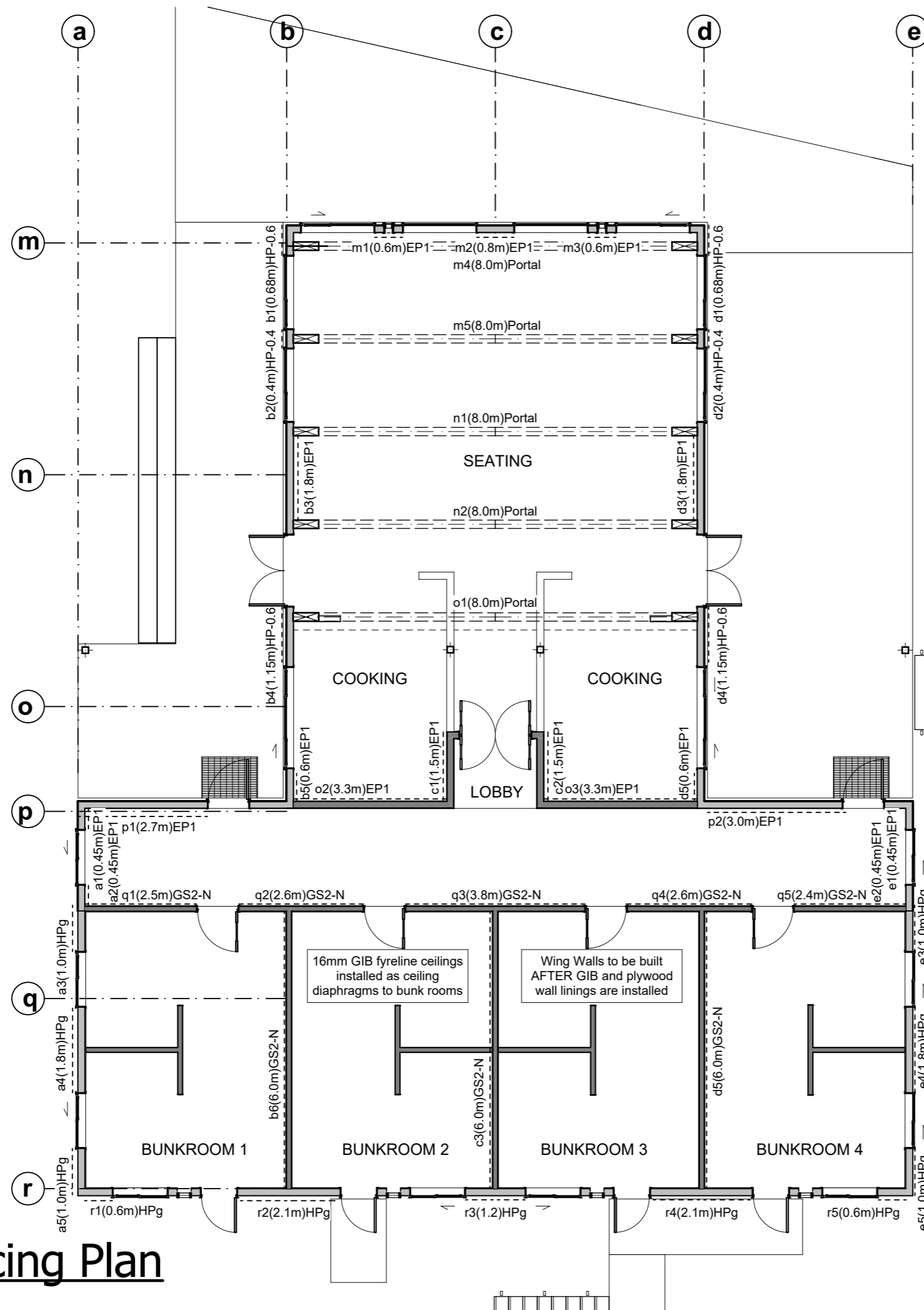
Detailed Design

Drawing Name: Deck Setout Plan

Scale @ A3: 1:100

Drawing No: 08

Revision: B



Bracing Plan

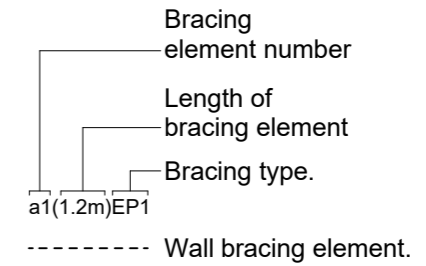
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BRACING NOTES

Refer to the Bracing Calculation sheets in the Appendix to the Specification for bracing values.

Roof Braces to be in accordance with Specification Section 3.14 and where shown on Roof Framing Plan Sheet 10

BRACING LEGEND



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Milford Track Fiordland National Park

Detailed Design

Drawing Name:

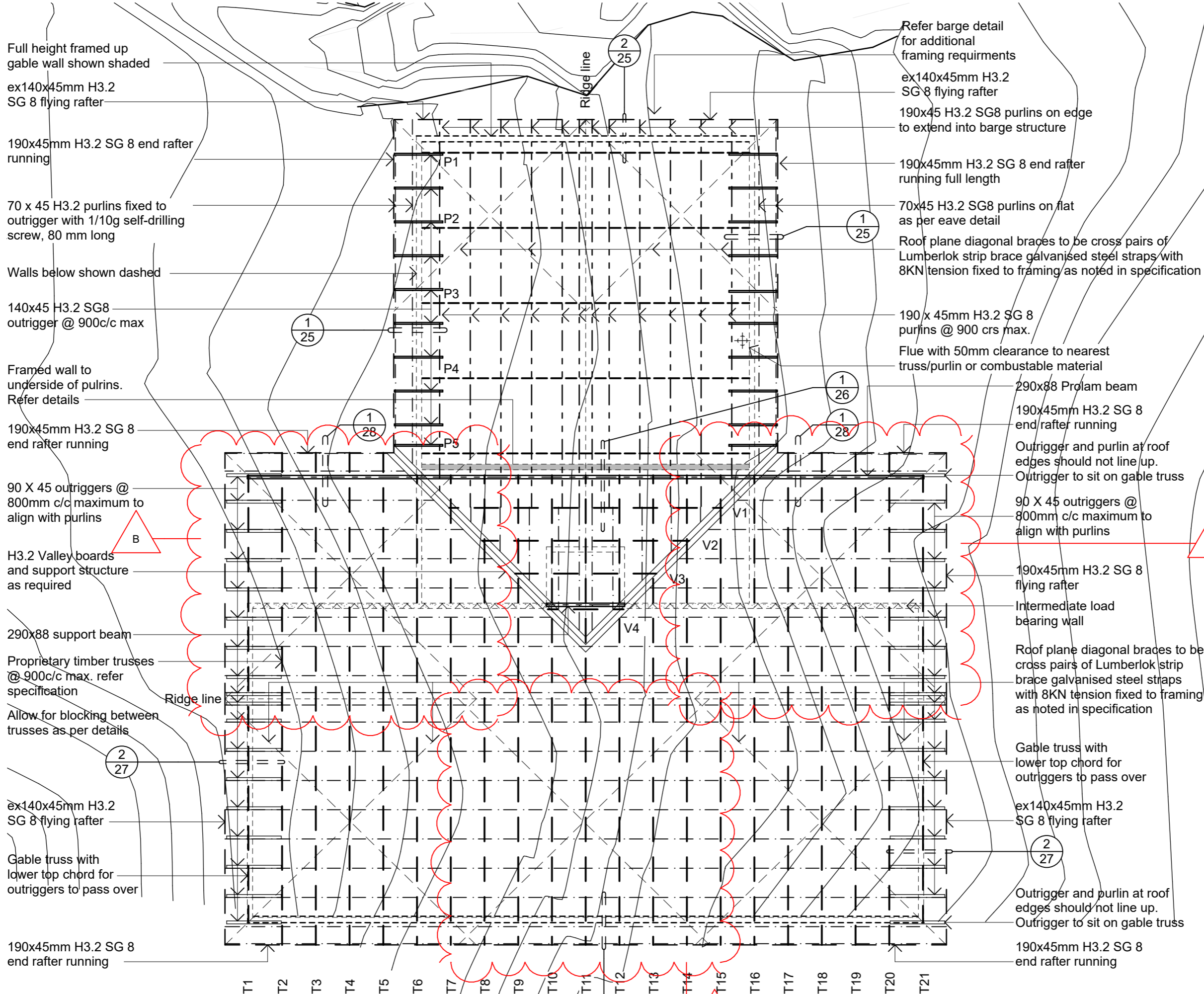
Bracing Plan

Scale @ A3: **1:100**

Revisions

B	Detail Design	14/06/2019
A	Developed Design	22/03/2019

Drawing No: **09** Revision: **B**



- Wall outline below
- Truss centre line
- - - Purlin 70x45 on flat
- - - Purlin 190x45 on edge
- Outrigger
- Flying Rafter
- Beam below
- - - Roof strip bacing

Roof Framing Plan

1:100

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Te Papa Atawhai

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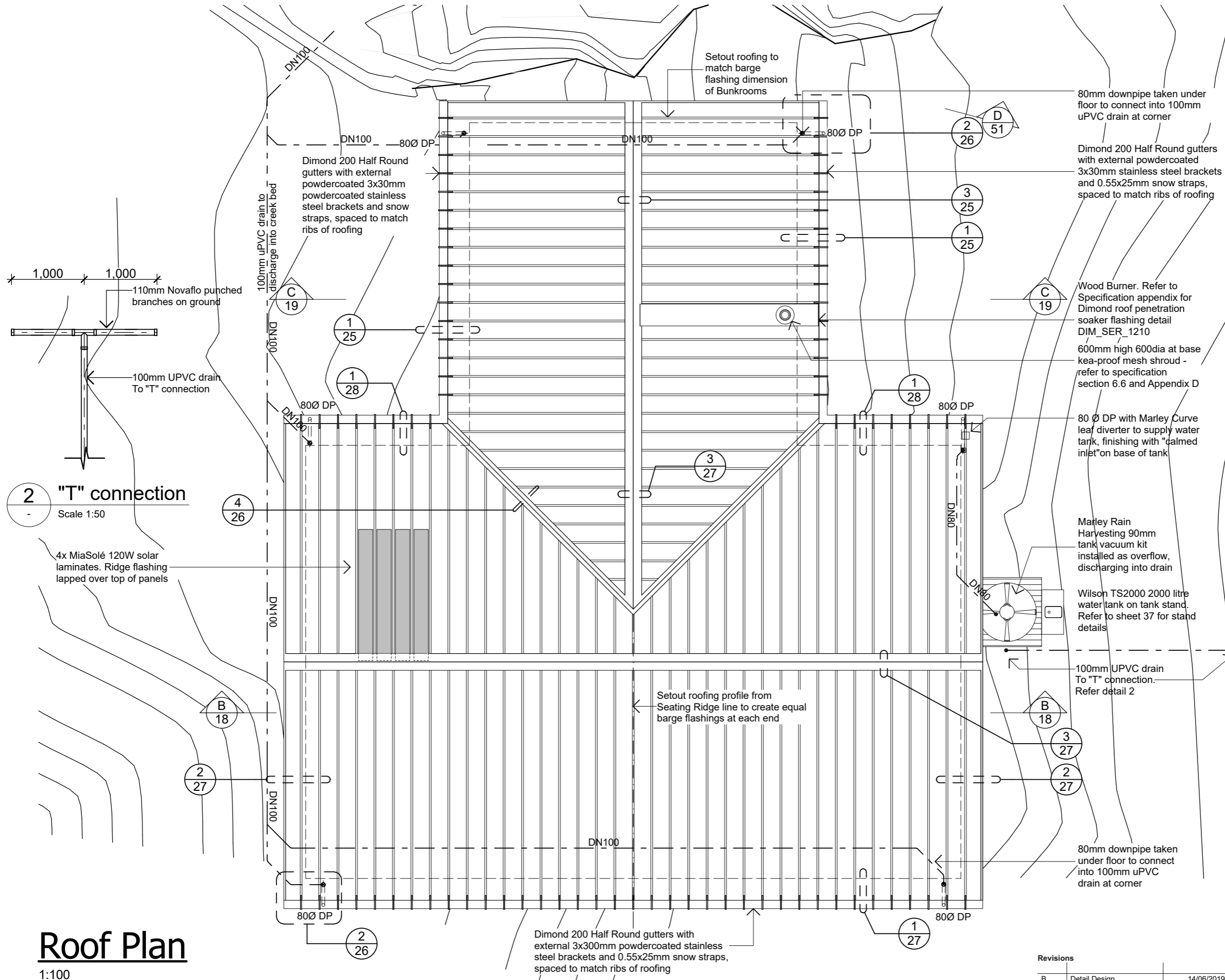
Detailed Design

Drawing Name: **Roof Framing Plan**

Revisions		
B	Structure & Details	6/09/2019
A	Detail Design	14/06/2019

Scale @ A3: **1:100**

Drawing No: **10** Revision: **B**



2 "T" connection
Scale 1:50

Roof Plan

1:100

80mm downpipe taken under floor to connect into 100mm uPVC drain at corner

Dimond 200 Half Round gutters with external powdercoated 3x30mm stainless steel brackets and 0.55x25mm snow straps, spaced to match ribs of roofing

Wood Burner. Refer to Specification appendix for Dimond roof penetration soaker flashing detail DIM_SER_1210

600mm high 600dia at base kea-proof mesh shroud - refer to specification section 6.6 and Appendix D

80 Ø DP with Marley Curve leaf diverter to supply water tank, finishing with "calmed inlet" on base of tank

Marley Rain Harvesting 90mm tank vacuum kit installed as overflow, discharging into drain

Wilson TS2000 2000 litre water tank on tank stand. Refer to sheet 37 for stand details

100mm UPVC drain To "T" connection. Refer detail 2

80mm downpipe taken under floor to connect into 100mm uPVC drain at corner

Setout roofing profile from Seating Ridge line to create equal barge flashings at each end

Dimond 200 Half Round gutters with external 3x30mm powdercoated stainless steel brackets and 0.55x25mm snow straps, spaced to match ribs of roofing

Revisions		
B	Detail Design	14/06/2019
A	Developed Design	22/03/2019

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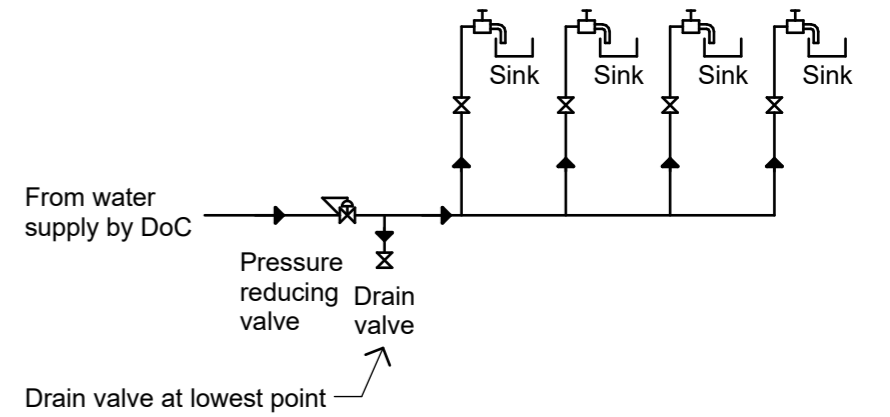
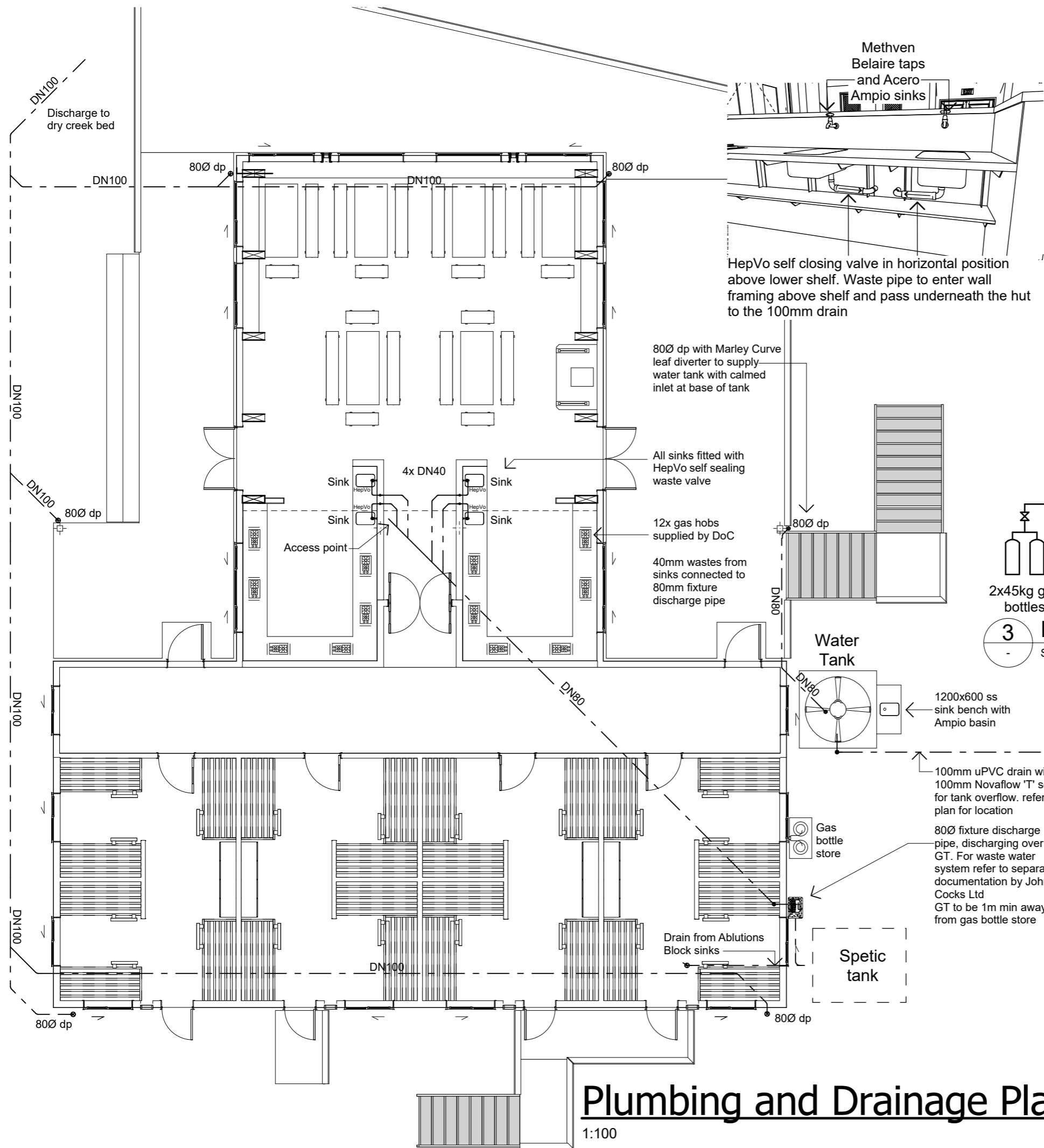
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Detailed Design

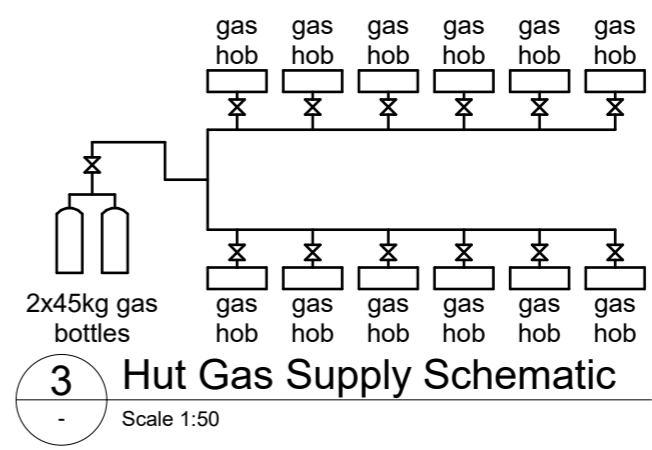
Drawing Name: **Roof Plan**

Scale @ A3: **1:100, 1:50**

Drawing No: **11** Revision: **B**



2 Hut Water Supply Schematic
Scale 1:50



3 Hut Gas Supply Schematic
Scale 1:50

Plumbing and Drainage Plan

1:100

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Project Name: Mintaro Hut
Project No: 1772
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Detailed Design
Drawing Name: Plumbing Gas and Drainage Plan

Revisions		
A	Detail Design	14/06/2019

Scale @ A3: 1:100, 1:50, 1:200
Drawing No: 12
Revision: A



Electrical Legend

- ⊕ CL 1 Prolite surface IP65 Downlite LED Marine Light (Surface Mounted)
- ☼ WL 1 12V DC Cabin Reading Lights
- ☐ WL 2 Prolite PHB Bulkhead
- ⚡ Light switch
- ⚡ Double USB charging port
- 📻 Radio Power Outlet
- ⋯ Lighting wiring circuit

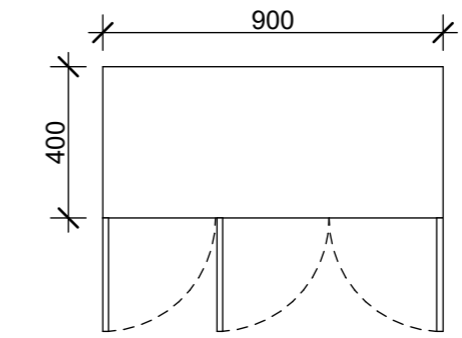
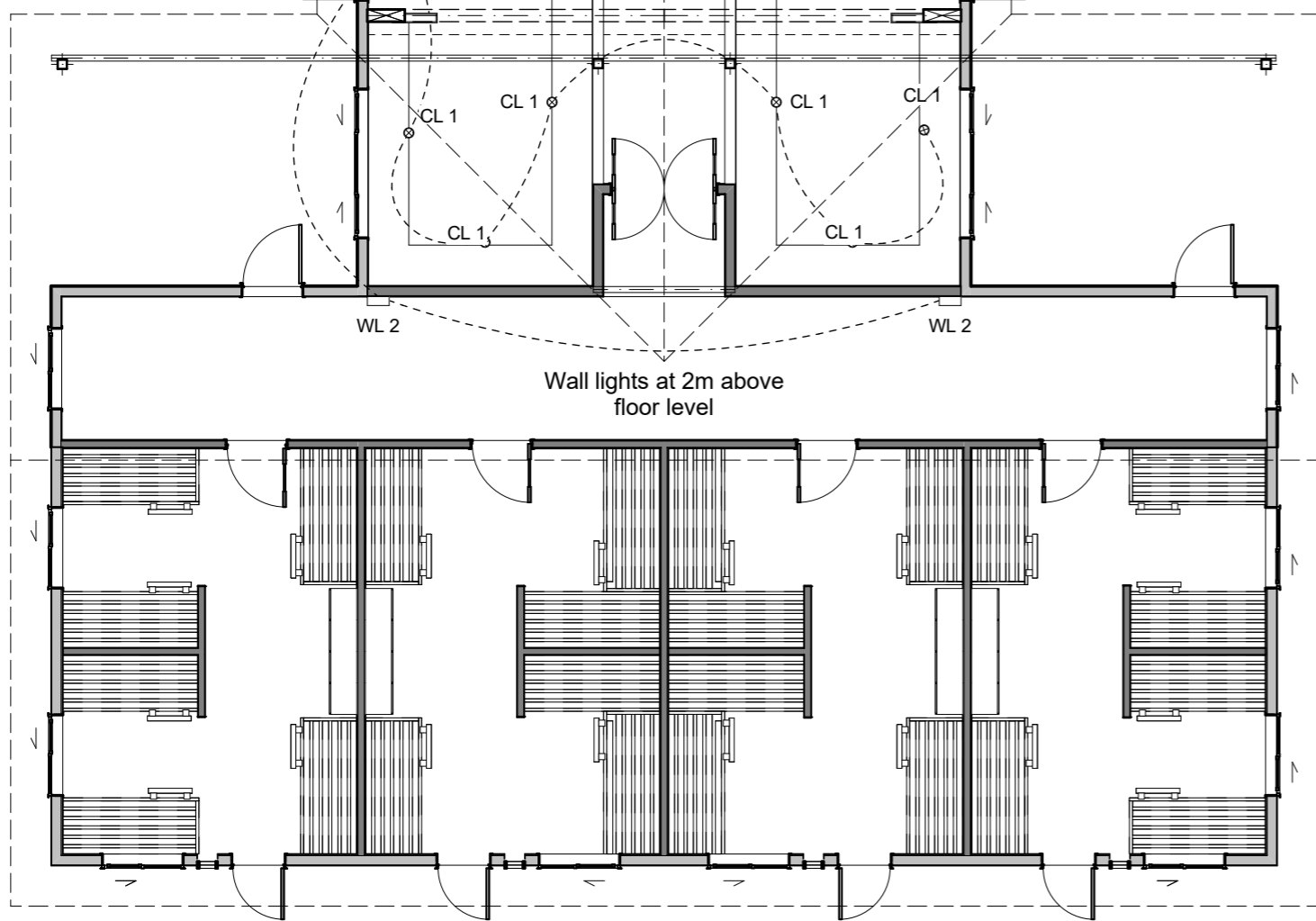
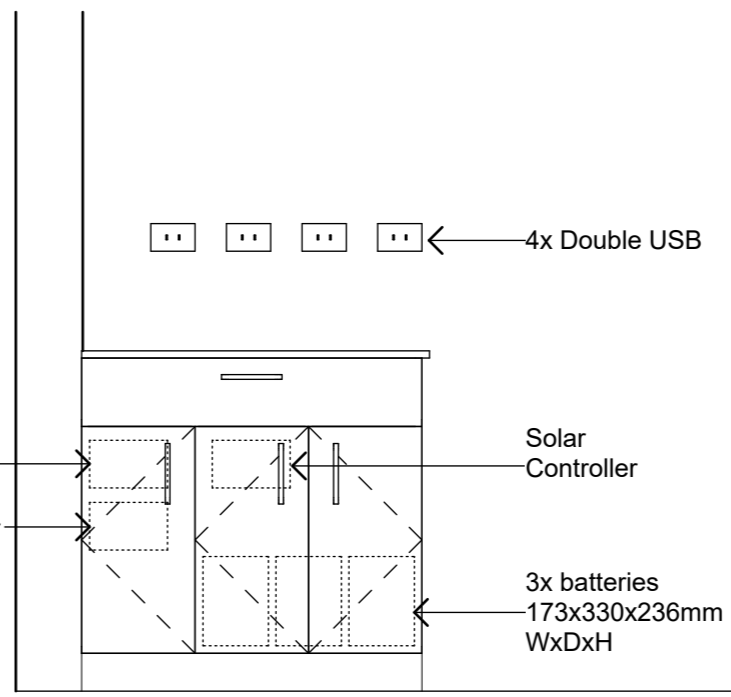
On walls above cupboard:
- 4x Double USB port

Battery cupboard in corner containing:
- 3x batteries
- 1x Solar controller
- 1x Switchboard
- 1x Lighting Timer
(no wall switches for hut lights)

900x400x900mm lockable cupboard with 3 doors and 1 drawer

1,200
900

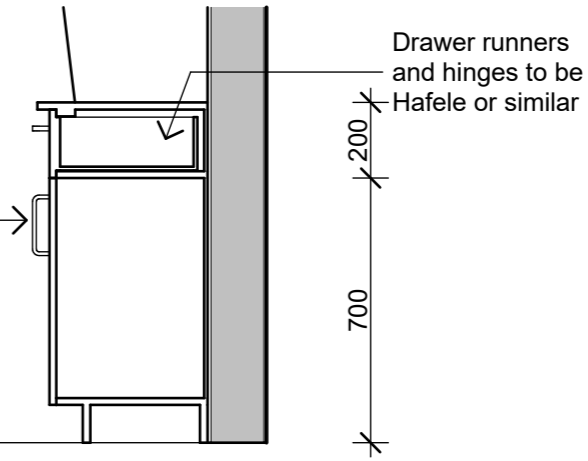
2 Hut Battery Cupboard Elevation
Scale 1:20



3 Hut Battery Cupboard Elevation
Scale 1:20

Top, carcass, doors and drawer fronts fabricated from 17mm BD untreated Ecoply with 9mm BD untreated Ecoply back

4 Hut Battery Cupboard Section
Scale 1:20



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Client:
Department of Conservation

Project Name: **Mintaro Hut** Project No: **1772**
Milford Track Fiordland National Park

Detailed Design

Drawing Name:
Electrical Plan

Electrical Plan

1:100

Revisions		
B	Detail Design	14/06/2019
A	Developed Design	22/03/2019

Scale @ A3: **1:100, 1:20**

Drawing No: **13** Revision: **B**

Material Notes:

- a COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
- a2 COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 190 x 45 H3.2 purlins on edge @ 900c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
- b COLORCOTE Zinacore 0.40 BMT CORRUGATE PROFILE cladding over cavity battens over Sisalation SureWrap wall underlay over 4.5mm HomeRAB Pre-Cladding board system over timber framing
- c CHH 9mm ECOPLY BD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
- d CHH 9mm ECOPLY BD grade untreated wall lining with 10mm gap to flooring.
- e CHH 19mm ECOPLY CD grade H3.2 CCA 2400x1200 LS flooring over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f 150x50 rough sawn H3.2 Radiata with top edges arised with webforge insert at doors Tensar SS20 Geogrid over exterior decking, fixed with stainless steel staples
- g 4.5mm Hardiflex with PVC jointers
- h1 CHH 9mm Ecoply BD grade untreated ply over 1 layer 10mm Gib Fyreline, with ply finished with Fireshield IFR clear intumescent coating
- h2 CHH 9mm Ecoply BD grade untreated ply over 1 layers 16mm Gib Fyreline, with ply finished with Fireshield IFR clear intumescent coating
- i 1 layer 16mm Gib Fyreline

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Client: Department of Conservation
Project Name: Mintaro Hut
Milford Track Fiordland National Park
Project No: 1772

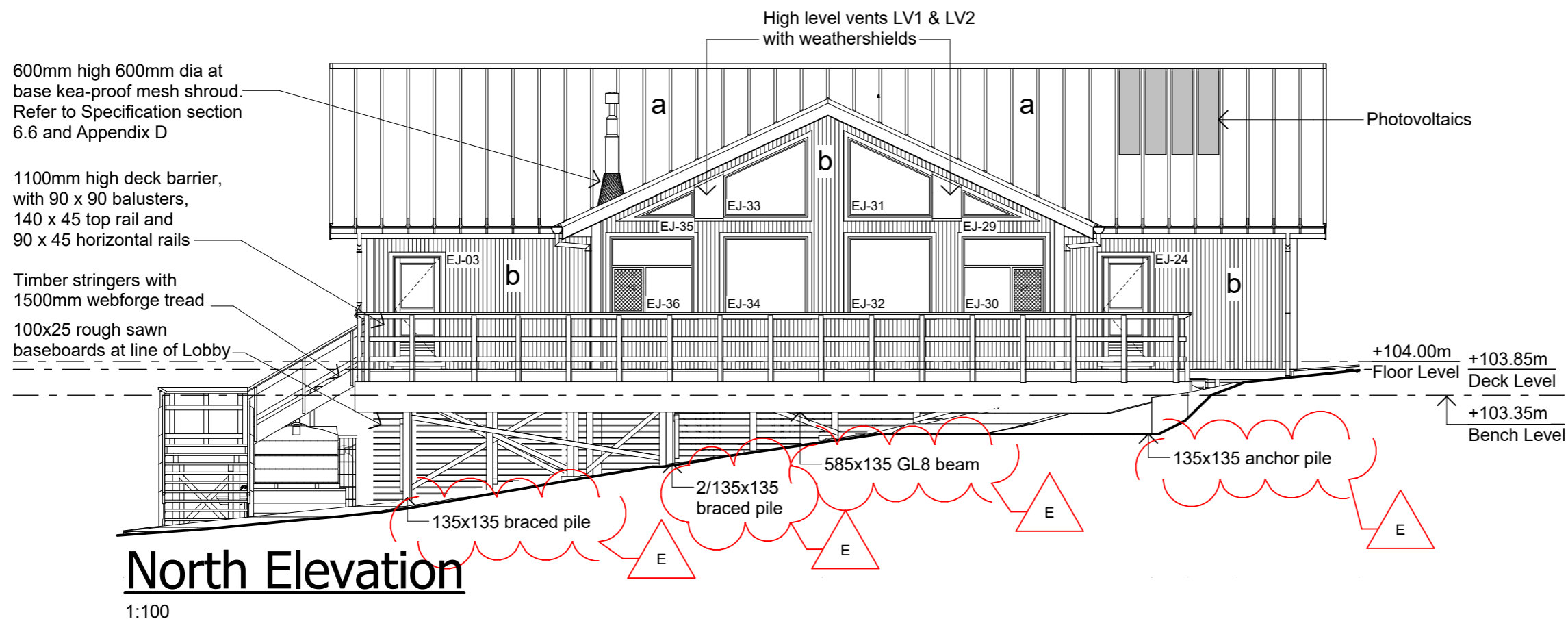
Detailed Design

Drawing Name:

Elevations

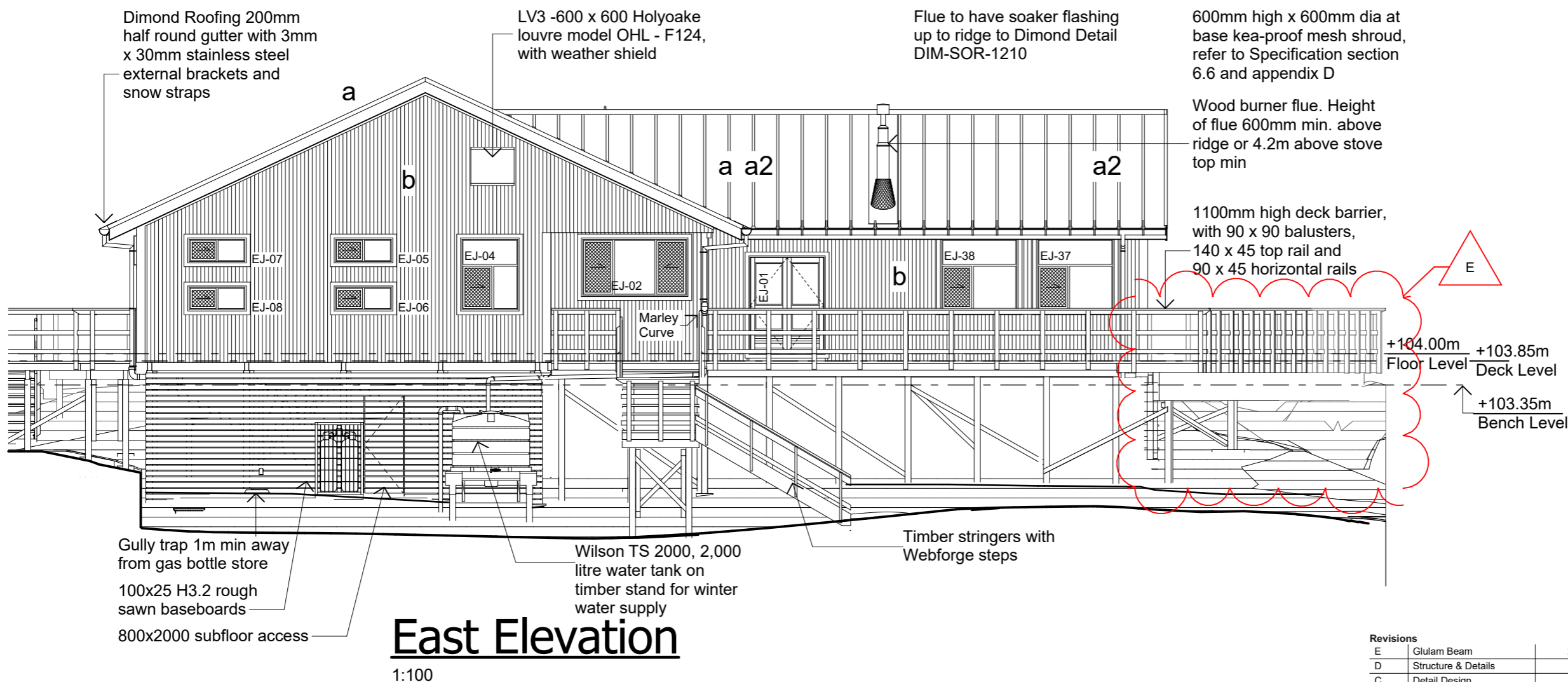
Scale @ A3: 1:100

Drawing No: 14
Revision: E



North Elevation

1:100



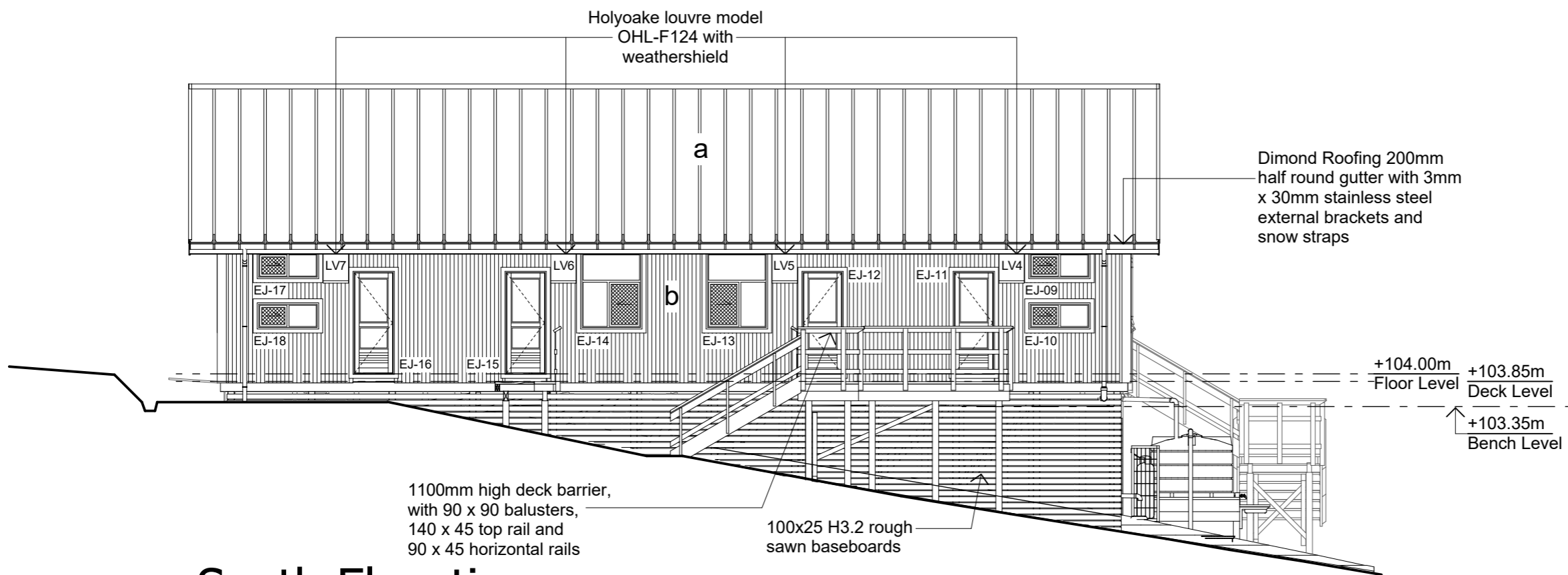
East Elevation

1:100

Revisions		
E	Glulam Beam	25/09/2019
D	Structure & Details	6/09/2019
C	Detail Design	14/06/2019

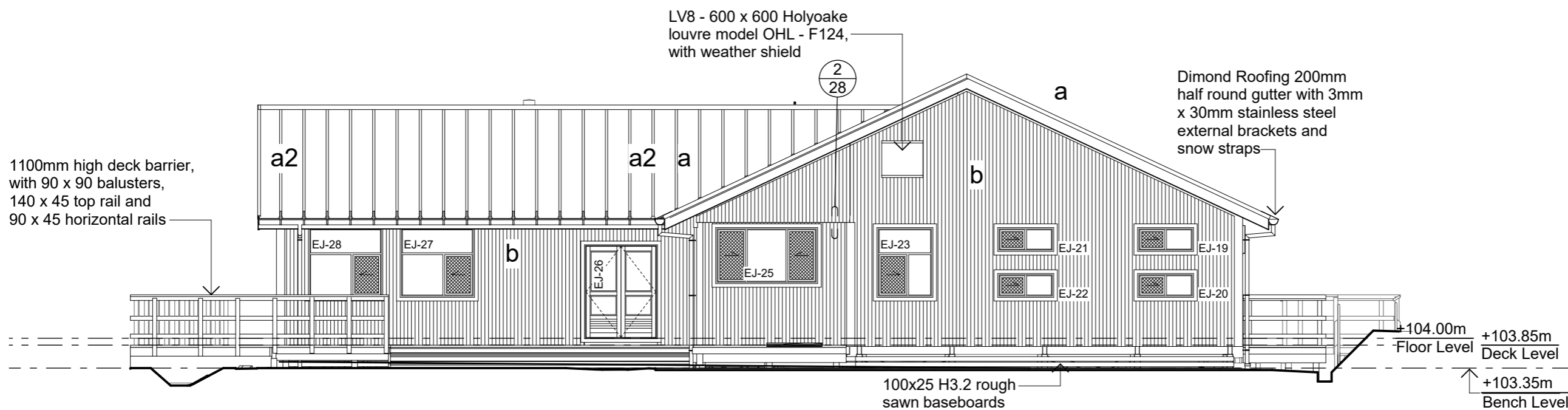
Material Notes:

- a COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
- a2 COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 190 x 45 H3.2 purlins on edge @ 900c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
- b COLORCOTE Zinacore 0.40 BMT CORRUGATE PROFILE cladding over cavity battens over Sisalation SureWrap wall underlay over 4.5mm HomeRAB Pre-Cladding board system over timber framing
- c CHH 9mm ECOPLY BD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
- d CHH 9mm ECOPLY BD grade untreated wall lining with 10mm gap to flooring.
- e CHH 19mm ECOPLY CD grade H3.2 CCA 2400x1200 LS flooring over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f 150x50 rough sawn H3.2 Radiata with top edges arised with webforge insert at doors Tensar SS20 Geogrid over exterior decking, fixed with stainless steel staples
- g 4.5mm Hardiflex with PVC jointers
- h1 CHH 9mm Ecoply BD grade untreated ply over 1 layer 10mm Gib Fyreline, with ply finished with Fireshield IFR clear intumescent coating
- h2 CHH 9mm Ecoply BD grade untreated ply over 1 layers 16mm Gib Fyreline, with ply finished with Fireshield IFR clear intumescent coating
- i 1 layer 16mm Gib Fyreline



South Elevation

1:100



West Elevation

1:100

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Client:
Department of Conservation

Project Name: Project No: 1772

Mintaro Hut
Milford Track Fiordland National Park

Detailed Design

Drawing Name:

Elevations

Revisions		
D	Structure & Details	6/09/2019
C	Detail Design	14/06/2019
B	Developed Design	22/03/2019

Scale @ A3: 1:100

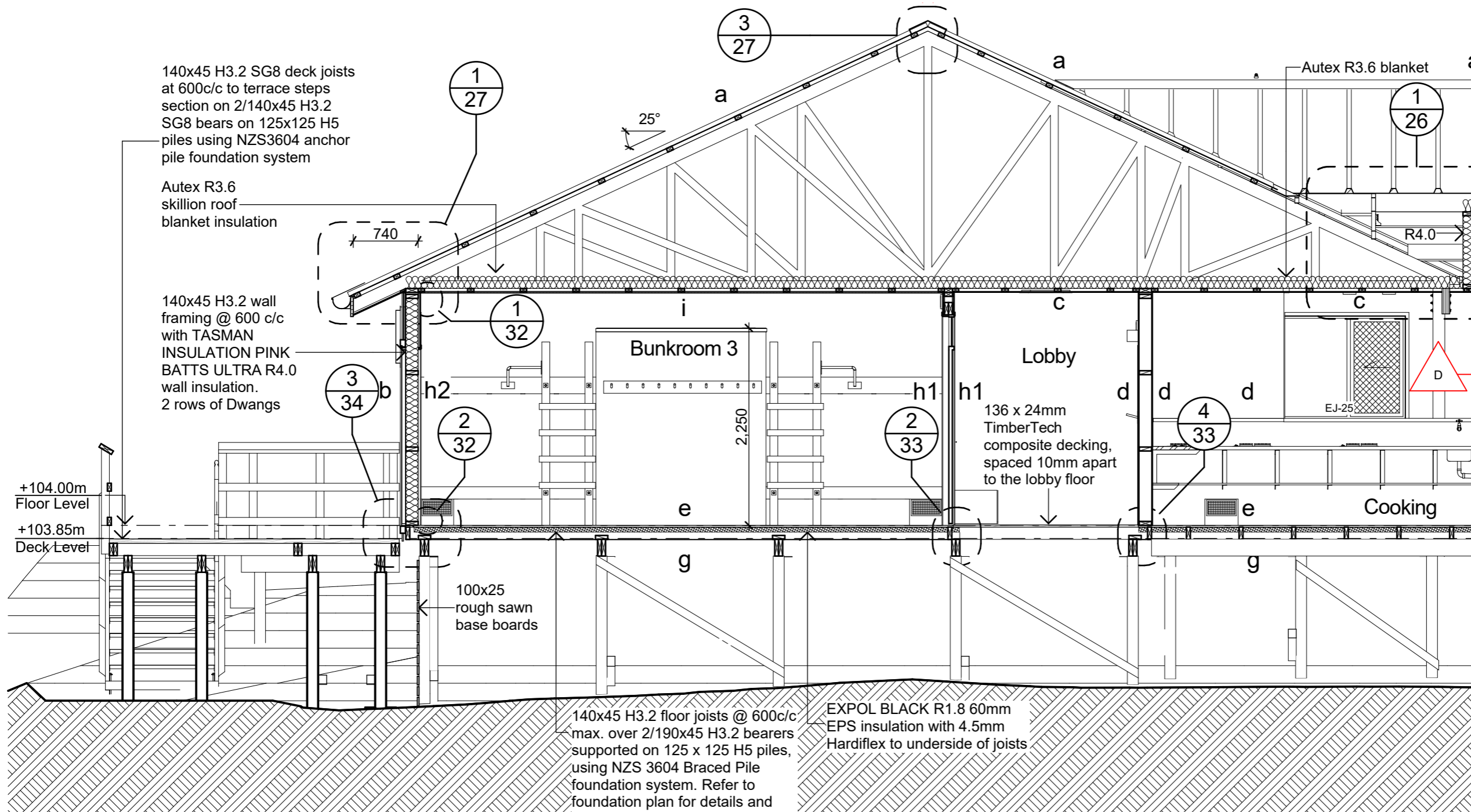
Drawing No: Revision:

15

D

Material Notes:

- a COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
- a2 COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 190 x 45 H3.2 purlins on edge @ 900c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
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- g 4.5mm Hardiflex with PVC jointers
- h1 CHH 9mm Ecoply BD grade untreated ply over 1 layer 10mm Gib Fyrelime, with ply finished with Fireshield IFR clear intumescent coating
- h2 CHH 9mm Ecoply BD grade untreated ply over 1 layers 16mm Gib Fyrelime, with ply finished with Fireshield IFR clear intumescent coating
- i 1 layer 16mm Gib Fyrelime



Section A

1:50

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Client:
Department of Conservation

Project Name: **Mintaro Hut** Project No: **1772**

Mintaro Hut
Milford Track Fiordland National Park

Detailed Design

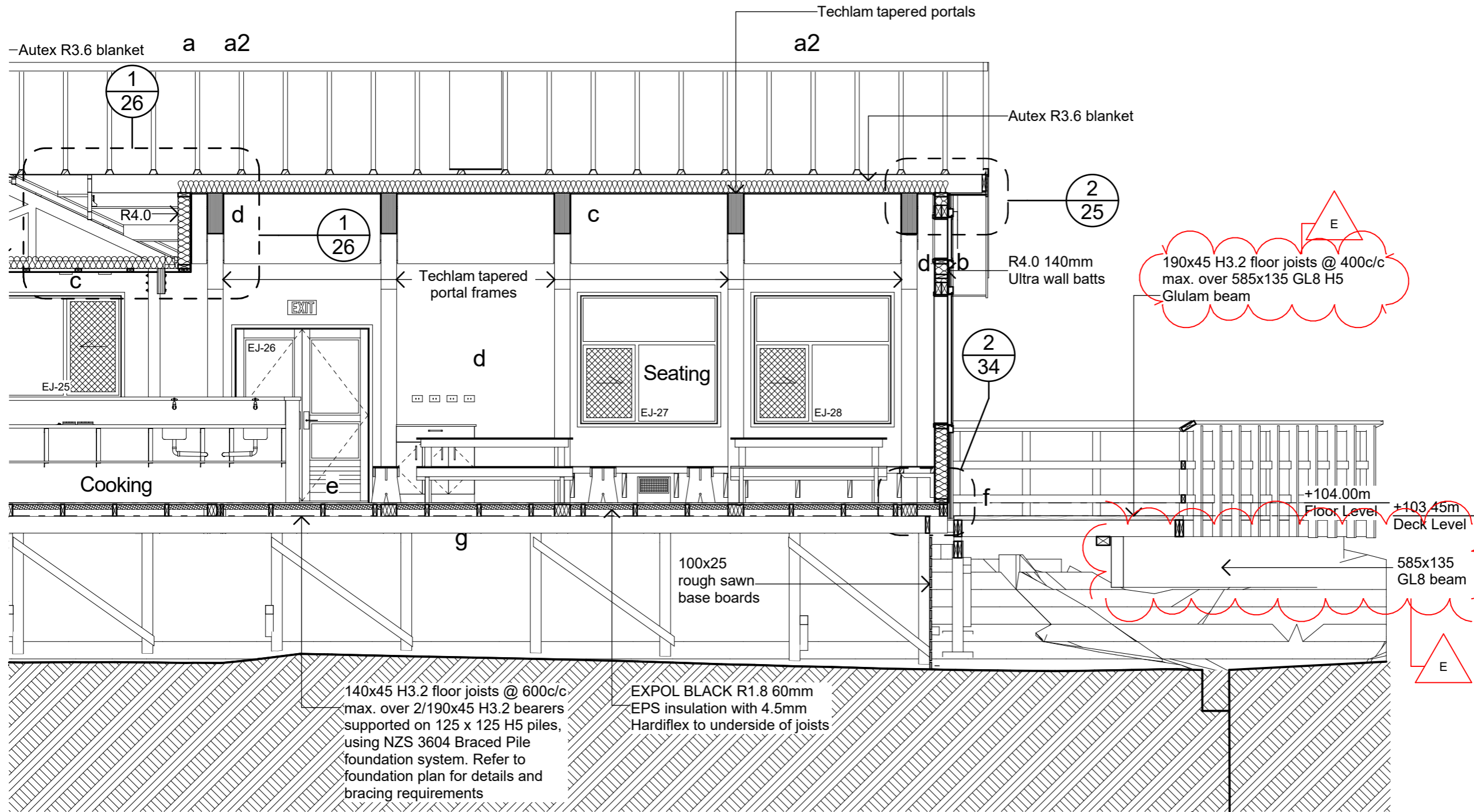
Drawing Name:

Section A

Revisions		
D	Structure & Details	6/09/2019
C	Detail Design	14/06/2019
B	Developed Design	22/03/2019

Scale @ A3: **1:50**

Drawing No: **16** Revision: **D**



Section A

1:50

Material Notes:

- a** COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
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- e** CHH 19mm ECOPLY CD grade H3.2 CCA 2400x1200 LS flooring over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f** 150x50 rough sawn H3.2 Radiata with top edges arised with webforge insert at doors Tensar SS20 Geogrid over exterior decking, fixed with stainless steel staples
- g** 4.5mm Hardiflex with PVC jointers
- h1** CHH 9mm Ecoply BD grade untreated ply over 1 layer 10mm Gib Fyreline, with ply finished with Fireshield IFR clear intumescent coating
- h2** CHH 9mm Ecoply BD grade untreated ply over 1 layer 16mm Gib Fyreline, with ply finished with Fireshield IFR clear intumescent coating
- i** 1 layer 16mm Gib Fyreline

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Client:
Department of Conservation

Project Name: **Mintaro Hut** Project No: **1772**

Mintaro Hut
Milford Track Fiordland National Park

Detailed Design

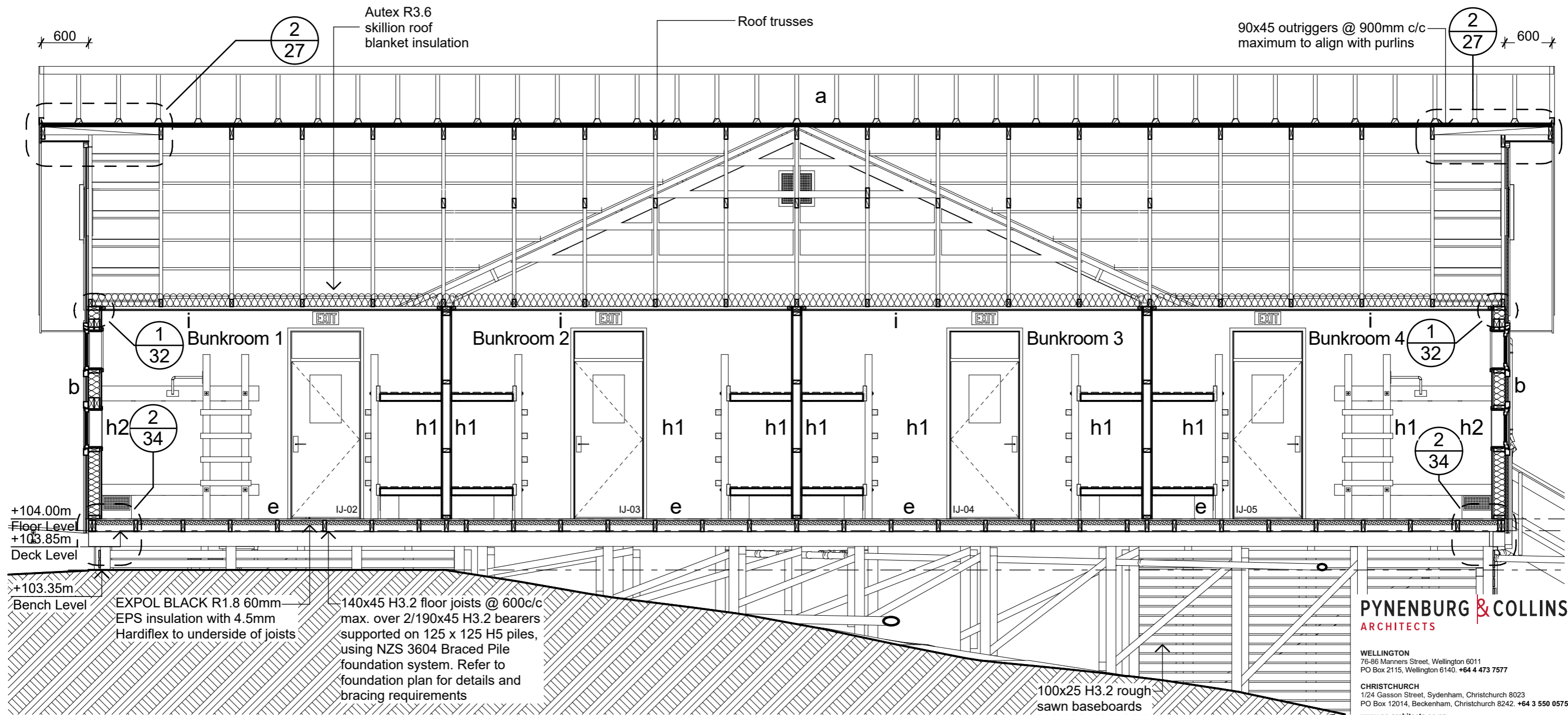
Drawing Name:

Section A

Revisions		
E	Glulam Beam	25/09/2019
D	Structure & Details	6/09/2019
C	Detail Design	14/06/2019

Scale @ A3: **1:50**

Drawing No: **17** Revision: **E**



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Client:
Department of Conservation
Project Name: **Mintaro Hut** Project No: **1772**
Milford Track Fiordland National Park

Detailed Design

Drawing Name:

Section B

Scale @ A3: **1:50**

Drawing No: **18** Revision: **D**

Section B

1:50

Material Notes:

a COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.

a2 COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 190 x 45 H3.2 purlins on edge @ 900c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.

b COLORCOTE Zinacore 0.40 BMT CORRUGATE PROFILE cladding over cavity battens over Sisalation SureWrap wall underlay over 4.5mm HomeRAB Pre-Cladding board system over timber framing

c CHH 9mm ECOPLY BD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

d CHH 9mm ECOPLY BD grade untreated wall lining with 10mm gap to flooring.

e CHH 19mm ECOPLY CD grade H3.2 CCA 2400x1200 LS flooring over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 150x50 rough sawn H3.2 Radiata with top edges arised with webforge insert at doors Tensor SS20 Geogrid over exterior decking, fixed with stainless steel staples

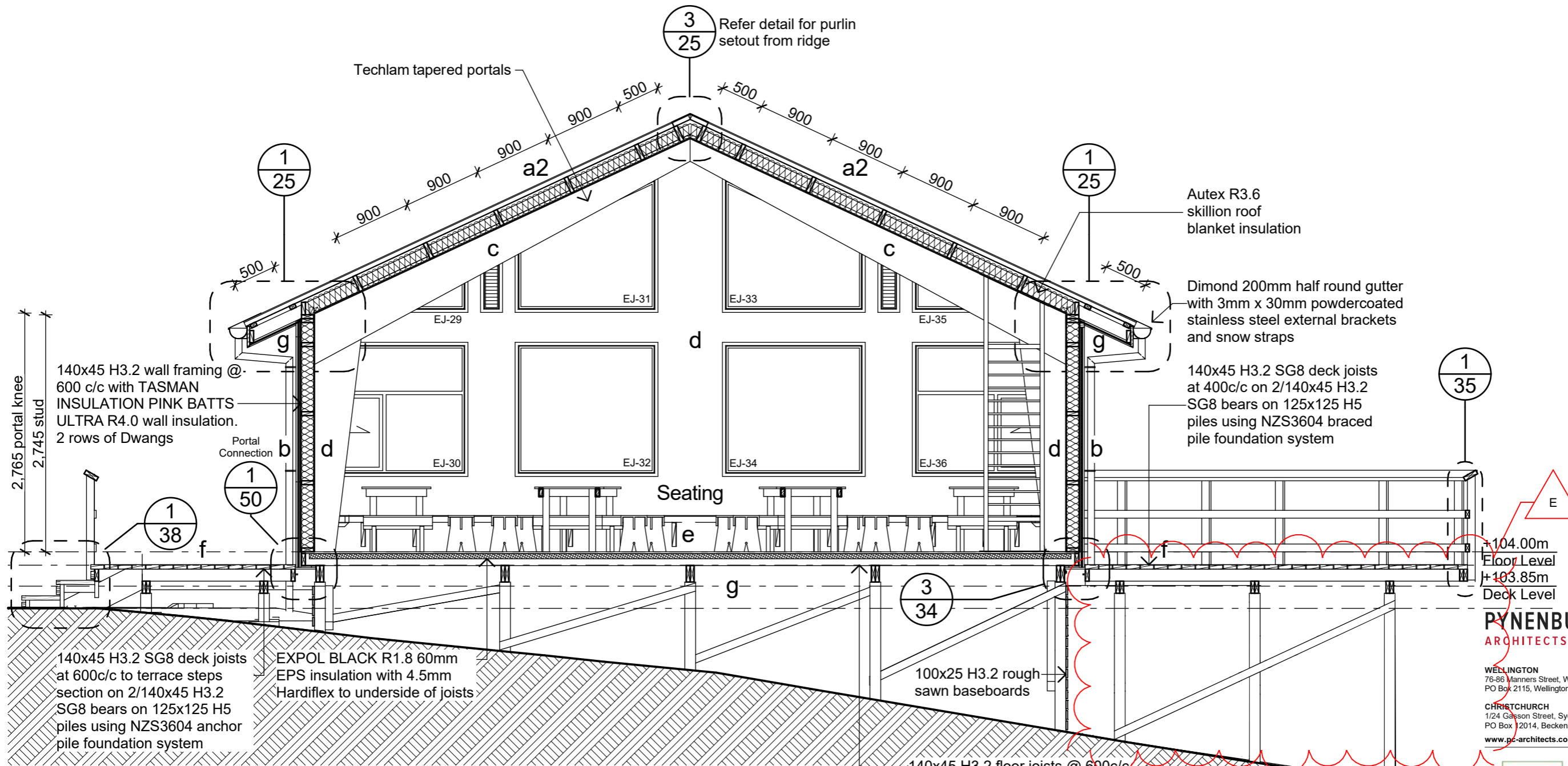
g 4.5mm Hardiflex with PVC jointers

h1 CHH 9mm Ecoply BD grade untreated ply over 1 layer 10mm Gib Fyrelite, with ply finished with Fireshield IFR clear intumescent coating

h2 CHH 9mm Ecoply BD grade untreated ply over 1 layers 16mm Gib Fyrelite, with ply finished with Fireshield IFR clear intumescent coating

i 1 layer 16mm Gib Fyrelite

Revisions		
D	Structure & Details	6/09/2019
C	Detail Design	14/06/2019
B	Developed Design	22/03/2019



Section C

1:50

Material Notes:

- a** COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
- a2** COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 190 x 45 H3.2 purlins on edge @ 900c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
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- e** CHH 19mm ECOPLY CD grade H3.2 CCA 2400x1200 LS flooring over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f** 150x50 rough sawn H3.2 Radiata with top edges arised with webforge insert at doors Tensar SS20 Geogrid over exterior decking, fixed with stainless steel staples
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- h1** CHH 9mm Ecoply BD grade untreated ply over 1 layer 10mm Gib Fyreline, with ply finished with Fireshield IFR clear intumescent coating
- h2** CHH 9mm Ecoply BD grade untreated ply over 1 layers 16mm Gib Fyreline, with ply finished with Fireshield IFR clear intumescent coating
- i** 1 layer 16mm Gib Fyreline

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Client:
Department of Conservation

Project Name: **Mintaro Hut**
Project No: **1772**

Milford Track Fiordland National Park

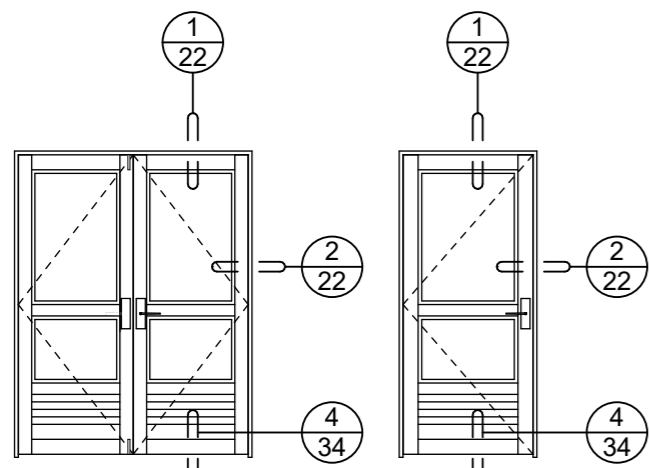
Detailed Design

Drawing Name:
Section C

Scale @ A3: **1:50**

Drawing No: **19** Revision: **E**

Revisions		
E	Glulam Beam	25/09/2019
D	Structure & Details	6/09/2019
C	Detail Design	14/06/2019

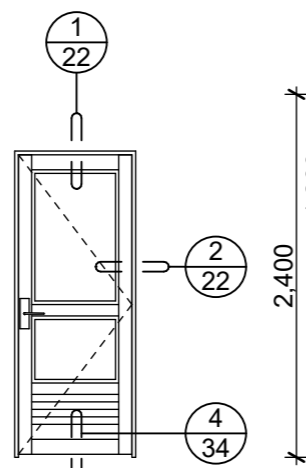


EJ-01, EJ-26

Leaf 2/760x1980
 Frame APL Residential ThermalHEART
 Lintels 190x90
 Glazing Double Glazing and Vent Louvre

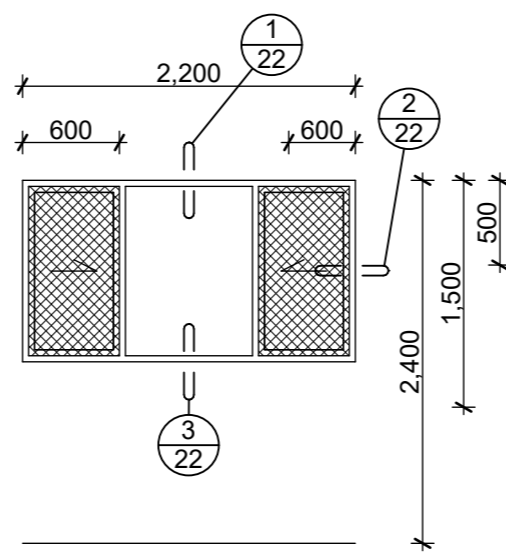
EJ-03, EJ-24

Leaf 860 x 1980
 Frame APL Residential ThermalHEART
 Lintels 140x90
 Glazing Double Glazing and Vent Louvre



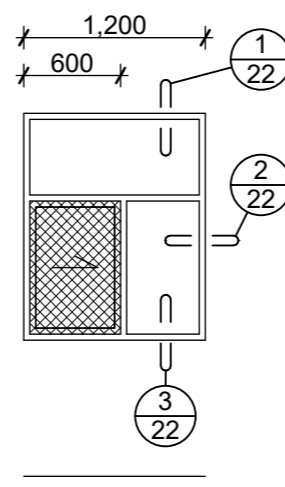
items as shown (EJ-11, EJ-15, EJ-16); item handed (EJ-12)

Leaf 760 x 1980
 Frame APL Residential ThermalHEART
 Lintels 140x90
 Glazing Double Glazing and Vent Louvre



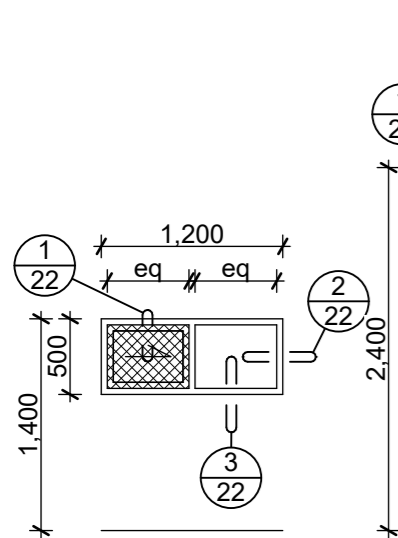
EJ-02, EJ-25

Frame APL Residential ThermalHEART
 Lintels 240x90
 Glazing Double Glazing



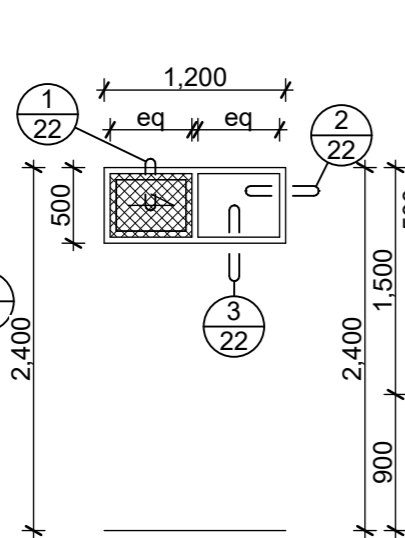
items as shown (EJ-04, EJ-13, EJ-23); item handed (EJ-14)

Frame APL Residential ThermalHEART
 Lintels 190x90
 Glazing Double Glazing



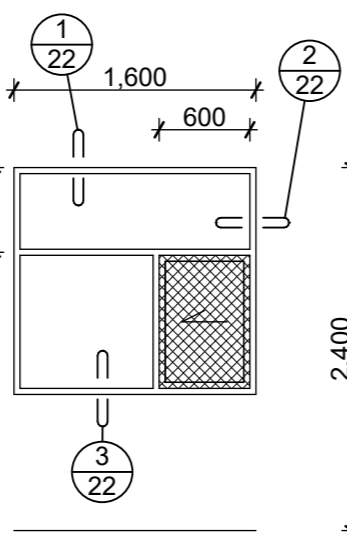
EJ-06, EJ-08, EJ-10, EJ-18, EJ-20, EJ-22

Frame APL Residential ThermalHEART
 Lintels 190x90
 Glazing Double Glazing with bondlite to interior pane



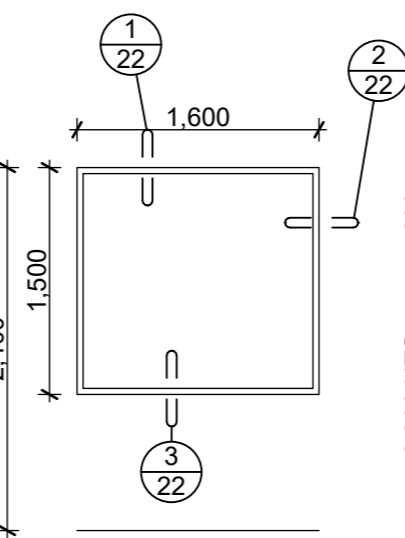
EJ-05, EJ-07, EJ-09, EJ-17, EJ-19, EJ-21

Frame APL Residential ThermalHEART
 Lintels 190x90
 Glazing Double Glazing with bondlite to interior pane



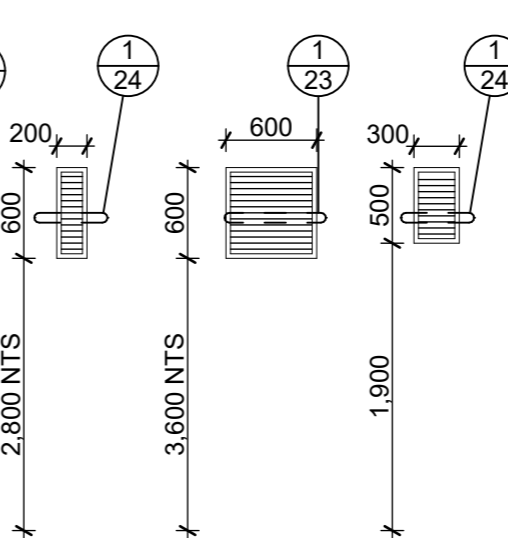
items as shown (EJ-27, EJ-28, EJ-30); items handed (EJ-36, EJ-37, EJ-38)

Frame APL Residential ThermalHEART
 Lintels 190x90
 Glazing Double Glazing



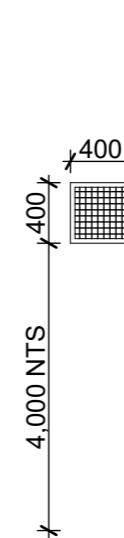
item as shown (EJ-32); item handed (EJ-34)

Frame APL Residential ThermalHEART
 Lintels 190x90
 Glazing Double Glazing



External Louvres

LV1, LV2 LV3, LV8 LV4, LV5, LV6, LV7
 Frame Holyoake OHL 124
 Flyscreen UA1611 Profile
 Location LV1, LV2 Seating Gables
 LV3, LV8 Bunkroom Gables
 LV4-7 South Wall Bunkrooms



Internal Wall Grille

WG1
 Frame Holyoake EC-125
 Location WG1 Bulkhead over Cooking Area

NOTES: Refer to Setout and Framing Plan for framing and lining requirements to ensure correct reveals are provided

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Client: Department of Conservation

Project Name: Project No: 1772

Mintaro Hut
 Milford Track Fiordland National Park

Detailed Design

Drawing Name:

Window and Door Schedule

Revisions

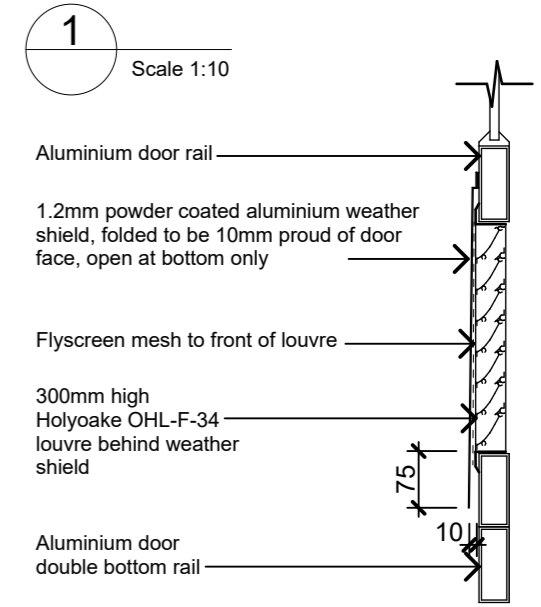
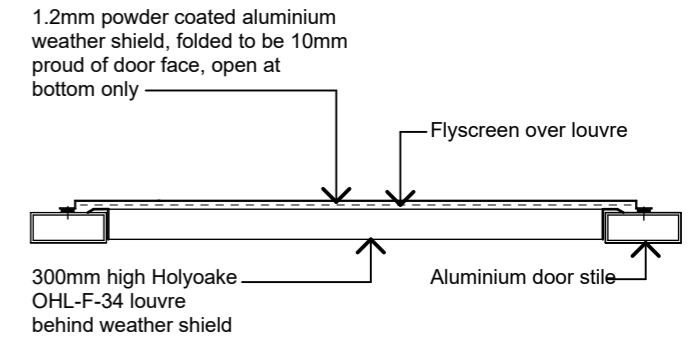
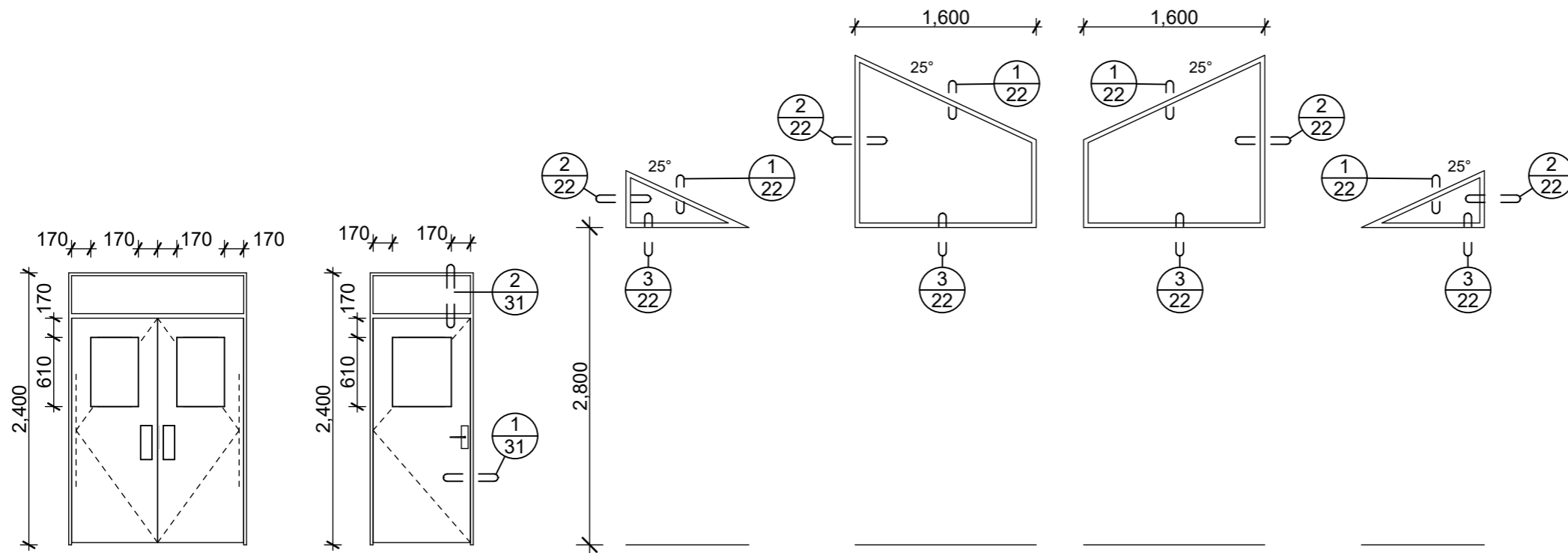
B	Detail Design	14/06/2019
A	Developed Design	22/03/2019

Scale @ A3: 1:50

Drawing No: Revision:

20

B



2 Scale 1:10

1 Scale 1:10

IJ-01
 Leaf 2/760x1980
 Frame Ex 50mm solid untreated Radiata with rebate for door stop and suitable for architraves
 Lintels 190x90
 Glazing Single

items as shown (IJ-02, IJ-03); items handed (IJ-04, IJ-05)
 Leaf 860 x 1980
 Frame Pacific F0.5 Door set
 Lintels 140x90
 Glazing Pyrobel

EJ-29
 Frame APL Residential ThermalHEART
 Lintels 140x90
 Glazing Double Glazing
 Check measure all dimensions on site

EJ-31
 Frame APL Residential ThermalHEART
 Lintels 190x90
 Glazing Double Glazing
 Check measure all dimensions on site

EJ-33
 Frame APL Residential ThermalHEART
 Lintels 190x90
 Glazing Double Glazing
 Check measure all dimensions on site

EJ-35
 Frame APL Residential ThermalHEART
 Lintels 140x90
 Glazing Double Glazing
 Check measure all dimensions on site

External Door Notes:

- EJ-01, EJ-03, EJ-11, EJ-12, EJ-15, EJ-16, EJ-24 & EJ-26 to be APL powder coated RESIDENTIAL THERMAL HEART HINGED door in powder coated aluminium frame, with H3.2 reveals and no sill. Refer to detail 4/34 for sill requirements
- Allow for 100mm top rail and stiles and double 100mm bottom rail
- EJ-01, EJ-03, EJ-11, EJ-12, EJ-15, EJ-16, EJ-24 & EJ-26 to have double-glazed unit to top panel and aluminium-faced 20mm EPS core insulated unit to bottom panel. Bottom panel to have 300mm high Holyoake OHL-F34 louvre fitted, complete with insect mesh to inside. Powder-coated weather shield to exterior of door over louvre
- EJ-01, EJ-03, EJ-16, EJ-24 and EJ-026 on Parliament hinges.
- All exterior doors to have 6584 SC Synergy short latch with L4801/70SC and L4905/70SC Lockwood square end plate furniture with lever handles, except EJ-01 and EJ-26 shall only have this hardware to active leaf
- EJ-01 and EJ-26 shall have towerbolts and 300x100 ss push plate/D handle to passive leaf
- EJ-11, EJ-12, EJ-15 and EJ-16 to have PC681 Wilson and Macindoe heavy duty latch back fitted
- Insect mesh to be Ullrich 18 x 16 x 0.009" grey fibreglass mesh

Internal Door Notes:

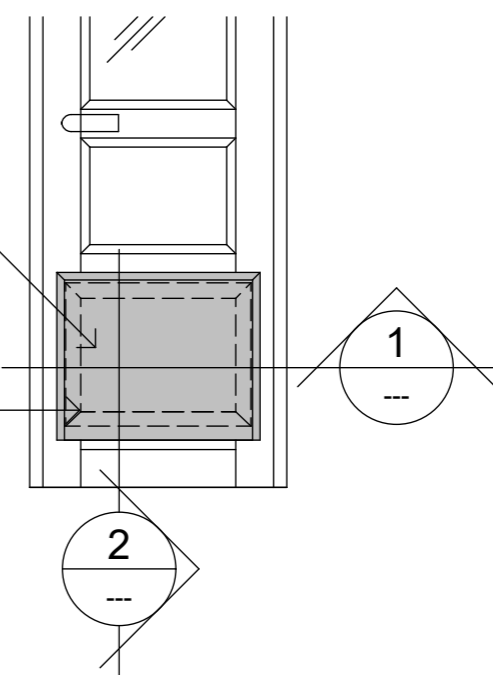
- IJ-01 to have heavy duty double action spring hinges with 300x100 ss push plates both sides
 IJ-02-05 to have 3574SC Synergy passage latch with LWA 1905/70SC and LWA 1805/70SC square end plate furniture with lever handles. Lockwood 724 door closer

Window Notes:

- EJ-29, EJ-31-35 to be APL powder coated aluminium RESIDENTIAL THERMAL HEART, double glazed unit
- EJ-02, EJ-04, EJ-05-10, EJ-13, EJ-14, EJ-17-23, EJ-25, EJ-27, EJ-28, EJ-30, EJ-36-38 to be APL powder coated aluminium RESIDENTIAL ThermalHEART sliding window, double glazed units, with removable flyscreen mesh to sliding panel opening
- All reveals are to be H3.2 treated, ready to receive architraves
- Screw-fixed removable fine mesh flyscreens fabricated from Ullrich UA1611 flyscreen profile and Ullrich 18 x 16 x 0.009" grey fibreglass mesh

1.2mm powder coated aluminium weather shield, rivet fixed @ 150c/c to door over sealant bead, open at bottom only

300mm high Holyoake OHL-F-34 louvre behind weather shield



Weather shield - Elevation

1:20

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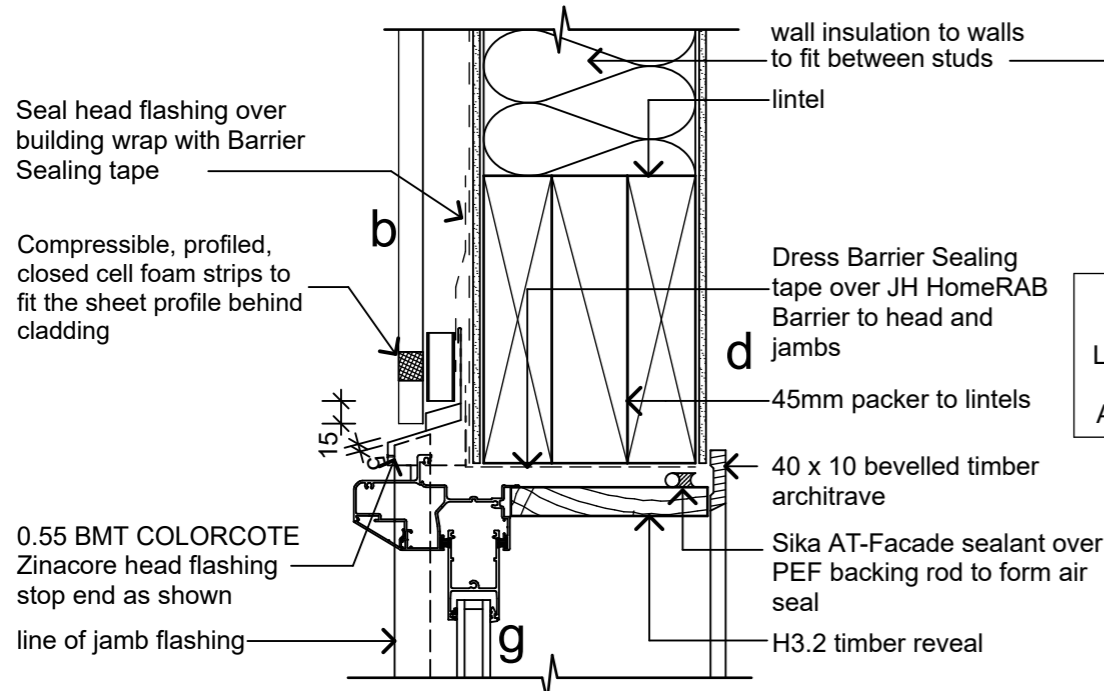


Client: Department of Conservation
 Project Name: Project No: 1772
Mintaro Hut
 Milford Track Fiordland National Park

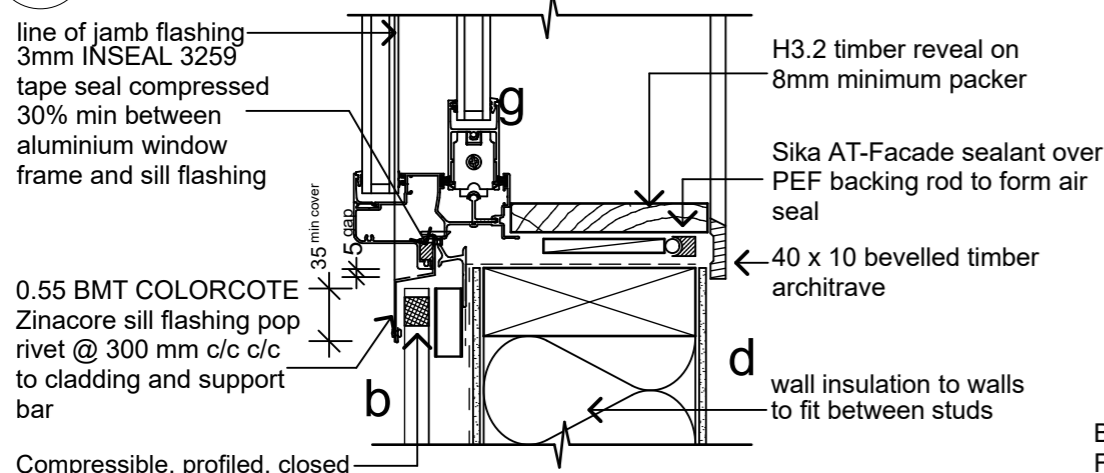
Detailed Design
 Drawing Name: Window and Door Schedule

Revisions		
A	Detail Design	14/06/2019

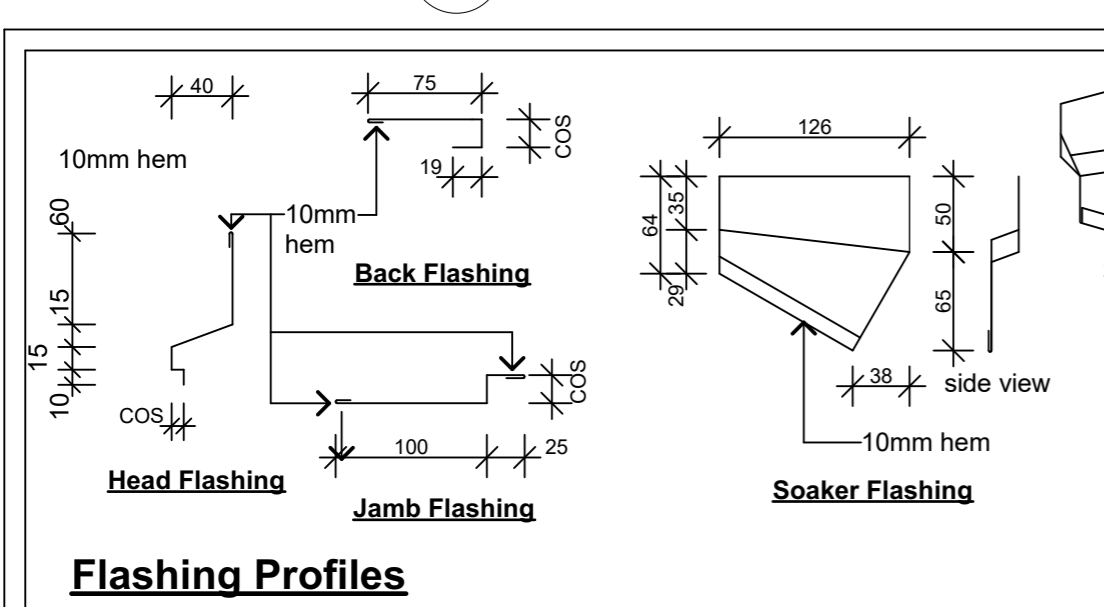
Scale @ A3: 1:50, 1:20, 1:10
 Drawing No: 21
 Revision: A



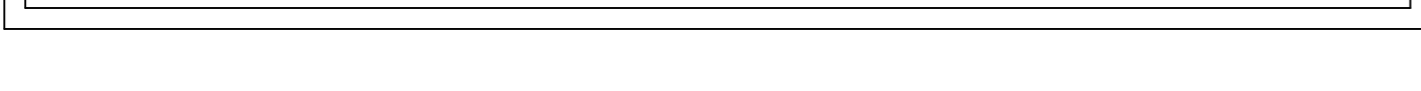
1 Head Detail
Scale 1:5



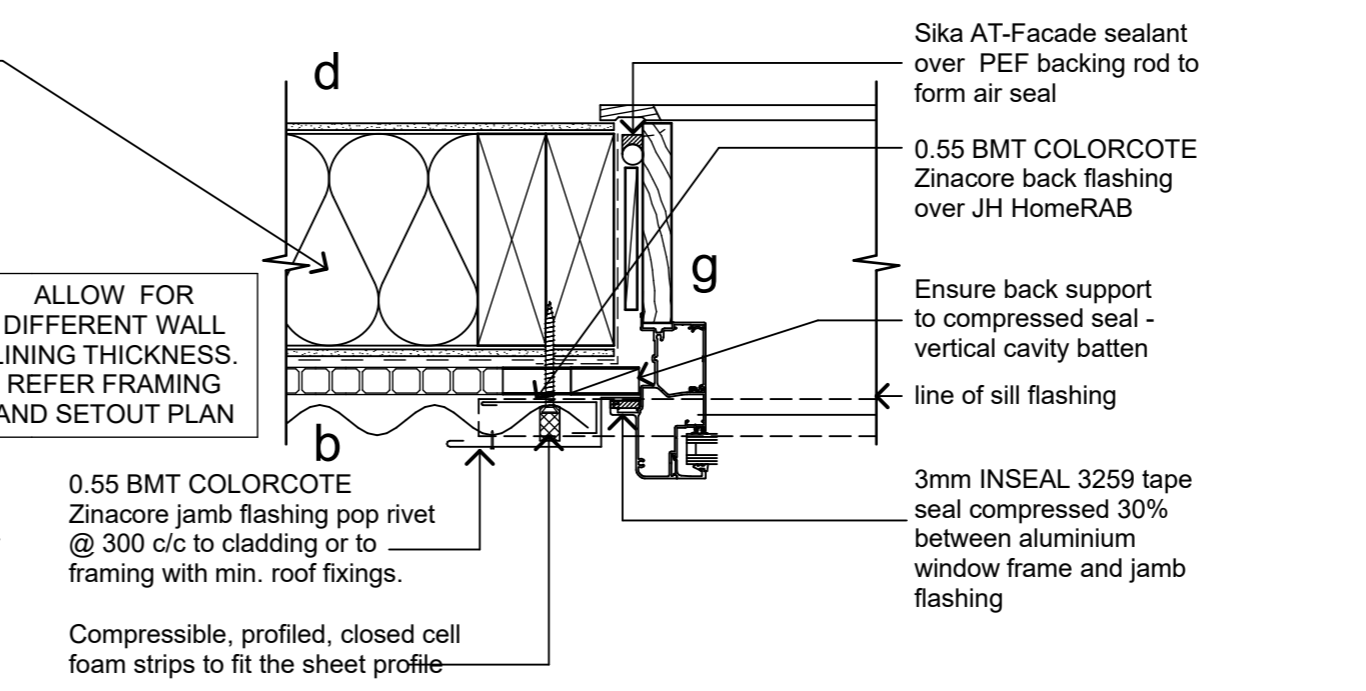
2 Jamb Detail
Scale 1:5



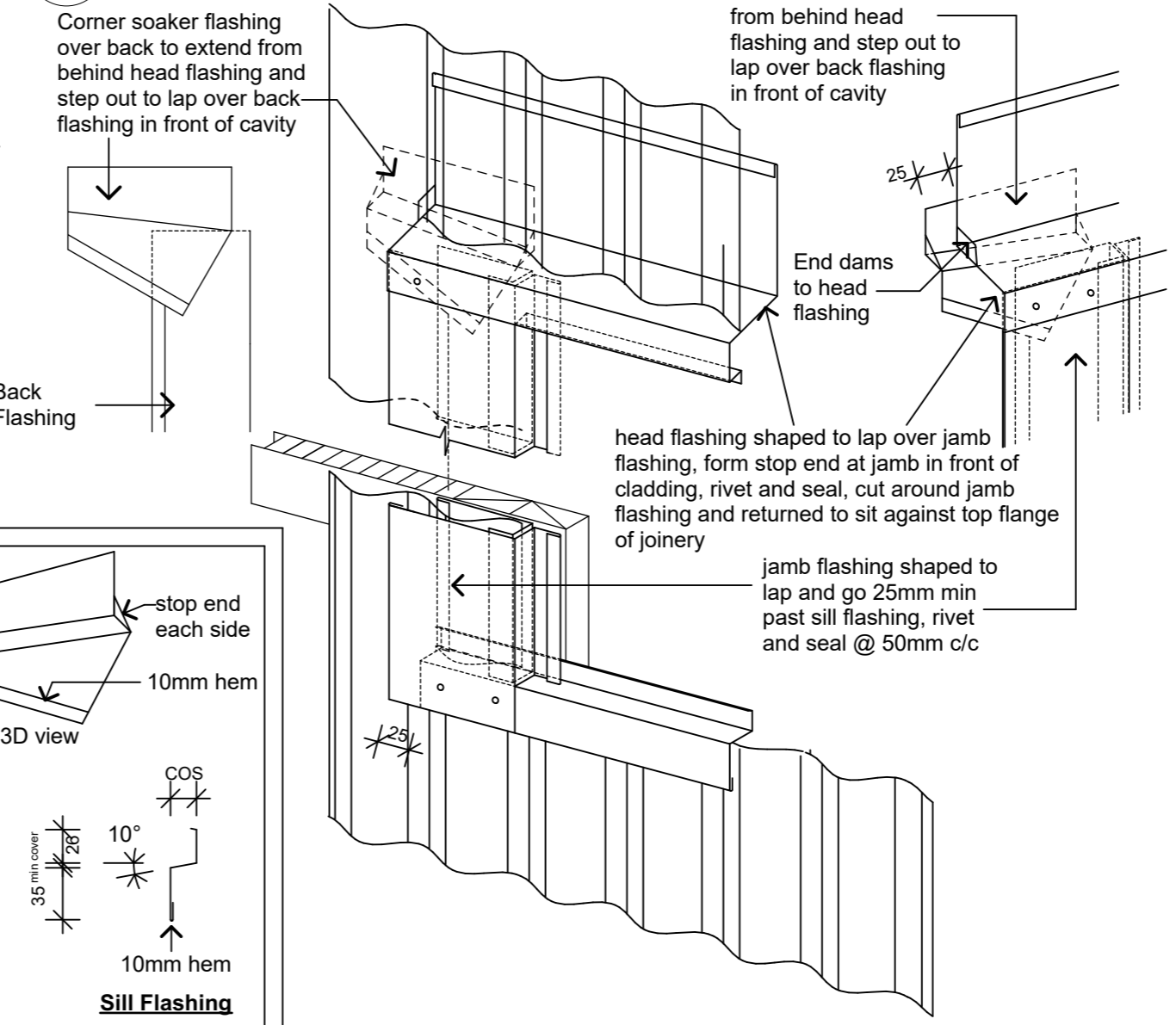
3 Sill Detail
Scale 1:5



Flashing dimensions are approximate. Check all dimensions against as-built and joinery and confirm/amend prior to fabrication.



2 Jamb Detail
Scale 1:5



2 Jamb Detail
Scale 1:5



Flashing dimensions are approximate. Check all dimensions against as-built and joinery and confirm/amend prior to fabrication.

- Material Notes:**
- a COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
 - a2 COLORCOTE Zinacore Dimond Solar Rib roofing underlay over 190 x 45 H3.2 purlins on edge @ 900c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
 - b COLORCOTE Zinacore 0.40 BMT CORRUGATE PROFILE cladding over cavity battens over Sisalation SureWrap wall underlay over 4.5mm HomeRAB Pre-Cladding board system over timber framing
 - c CHH 9mm ECOPLY BD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
 - d CHH 9mm ECOPLY BD grade untreated wall lining with 10mm gap to flooring.
 - e CHH 19mm ECOPLY CD grade H3.2 CCA 2400x1200 LS flooring over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
 - f 150x50 rough sawn H3.2 Radiata with top edges arised with webforge insert at doors Tensar SS20 Geogrid over exterior decking, fixed with stainless steel staples
 - g 4.5mm Hardiflex with PVC jointers
 - h1 CHH 9mm Ecoply BD grade untreated ply over 1 layer 10mm Gib Fyrelime, with ply finished with Fireshield IFR clear intumescent coating
 - h2 CHH 9mm Ecoply BD grade untreated ply over 1 layers 16mm Gib Fyrelime, with ply finished with Fireshield IFR clear intumescent coating
 - i 1 layer 16mm Gib Fyrelime

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Client:
Department of Conservation

Project Name: **Mintaro Hut** Project No: **1772**

Milford Track Fiordland National Park

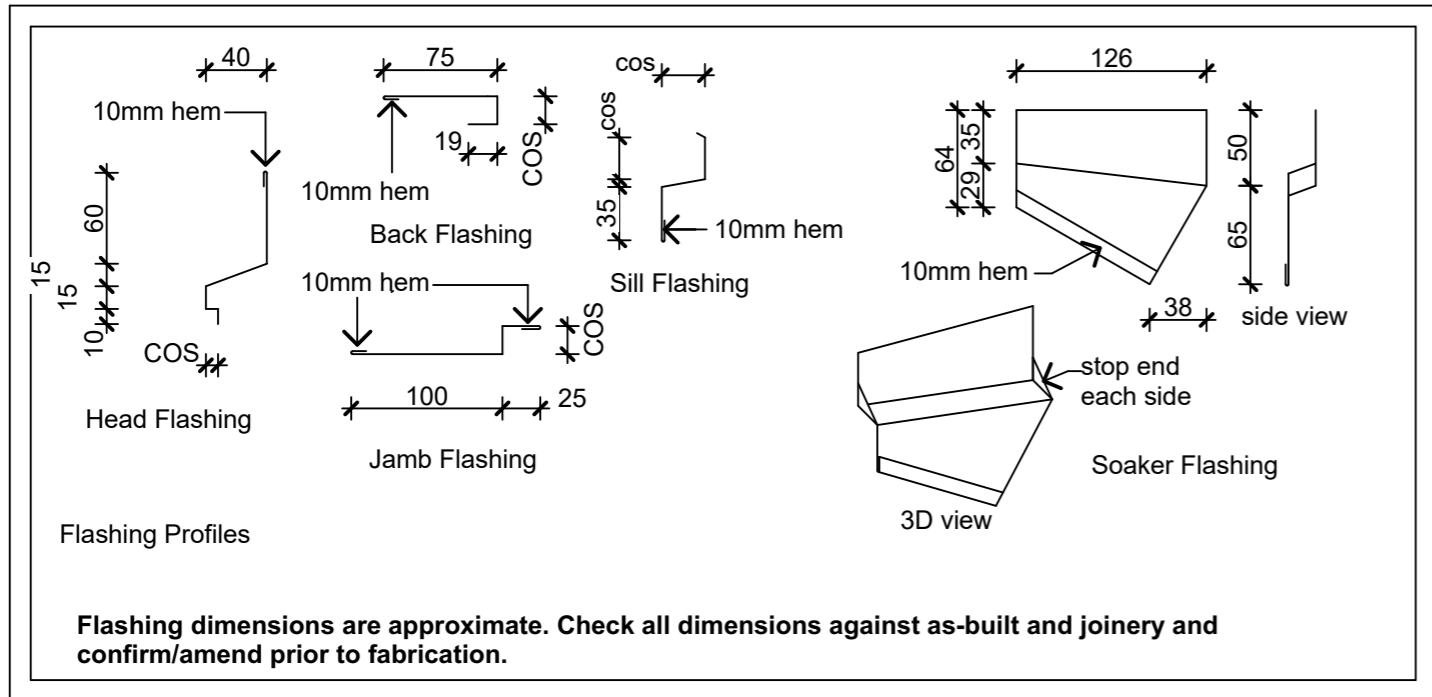
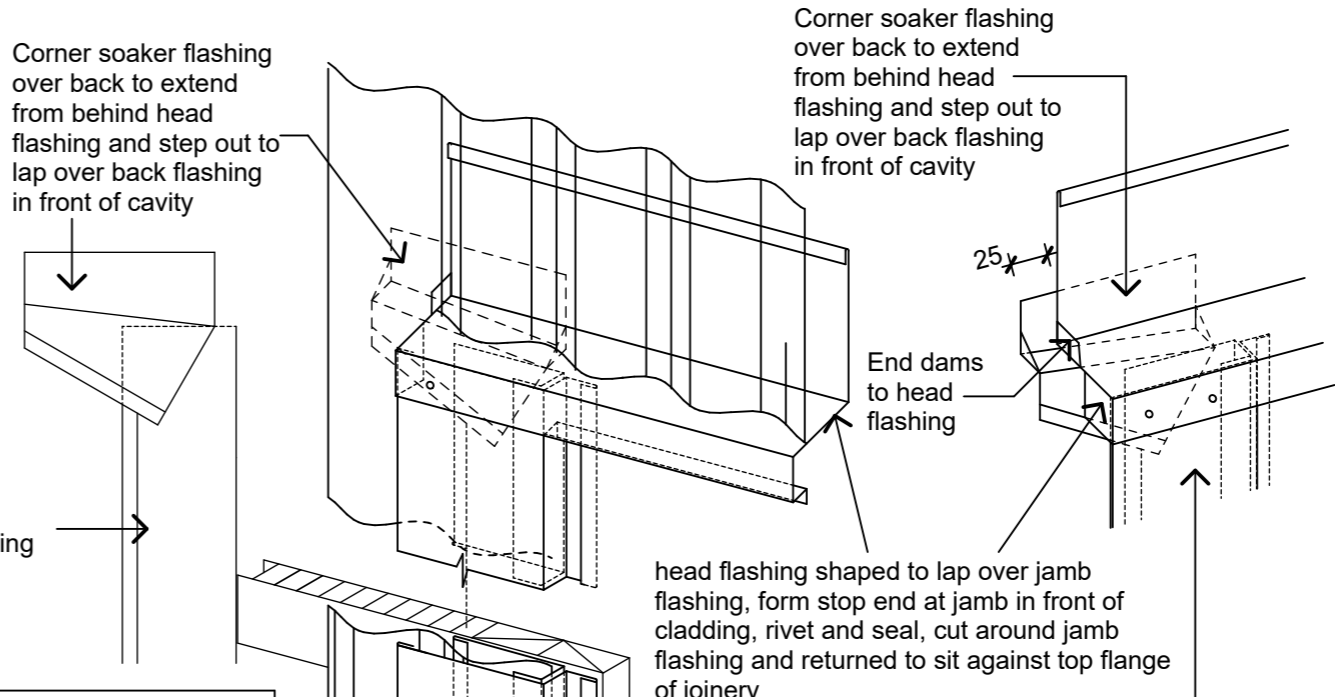
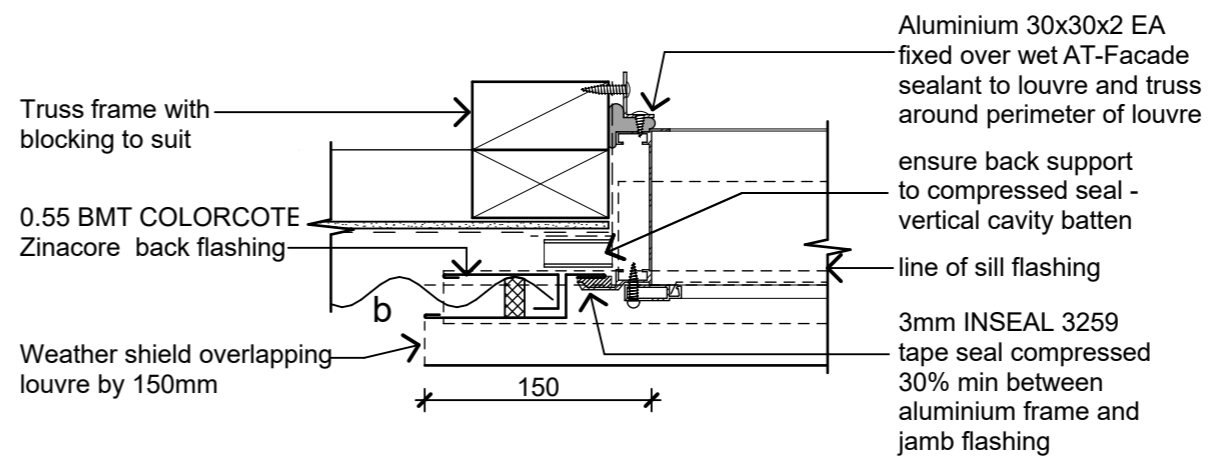
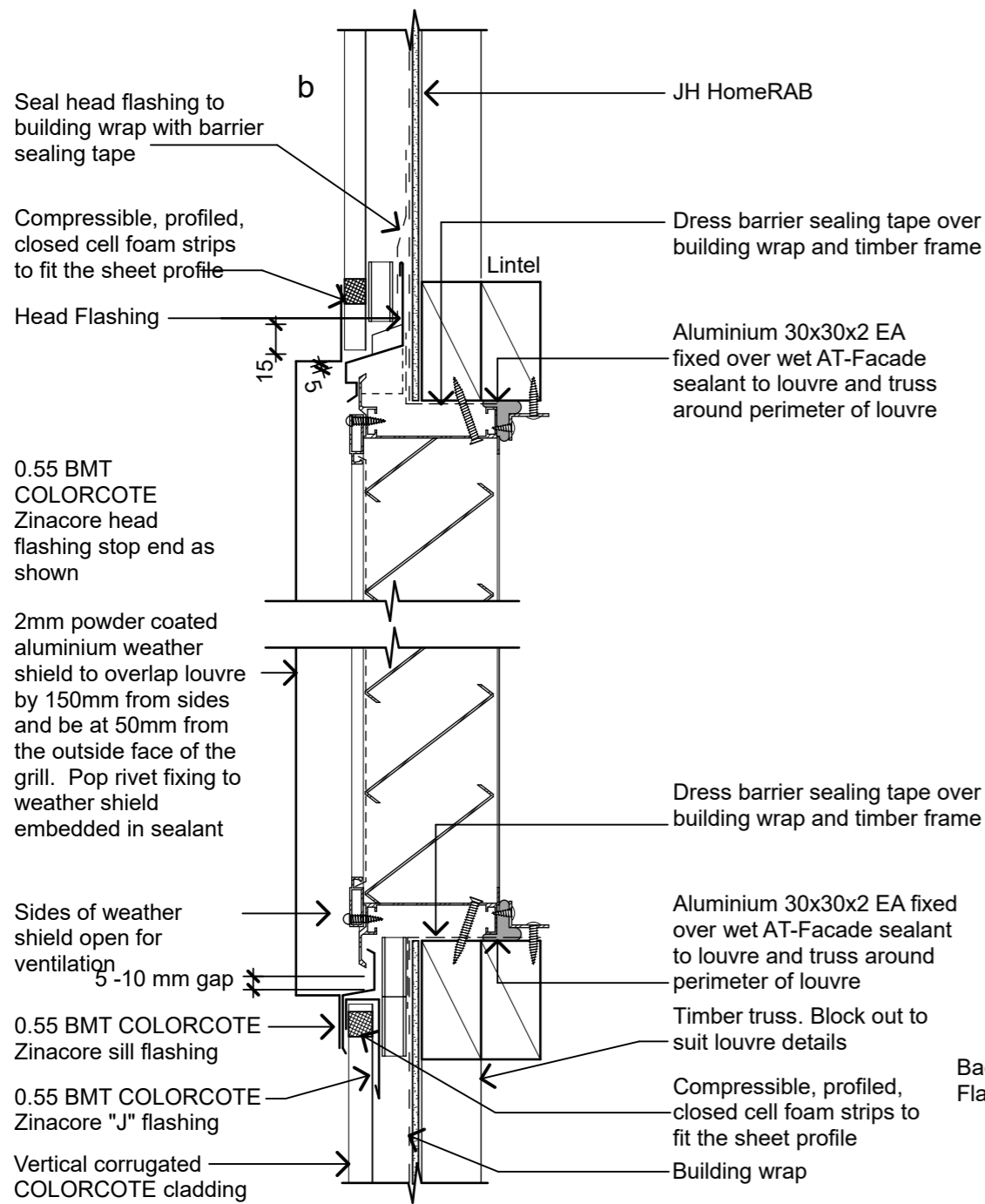
Detailed Design

Drawing Name:
Window Details

Revisions	
A	Detail Design 14/06/2019

Scale @ A3: 1:5

Drawing No: **22** Revision: **A**



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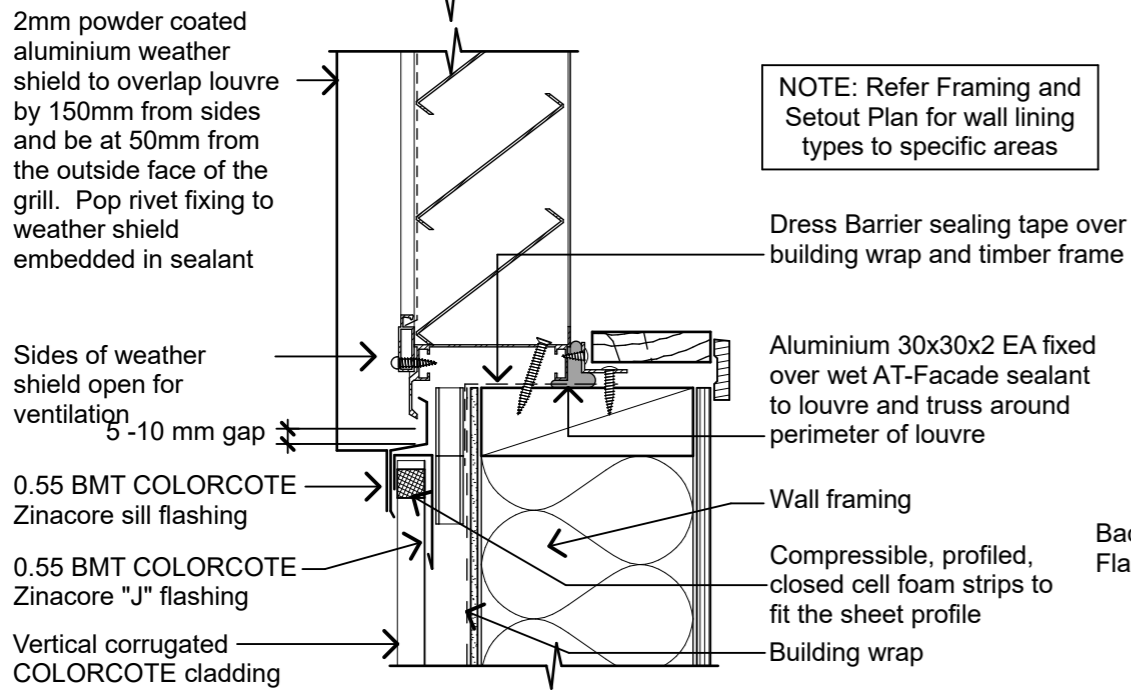
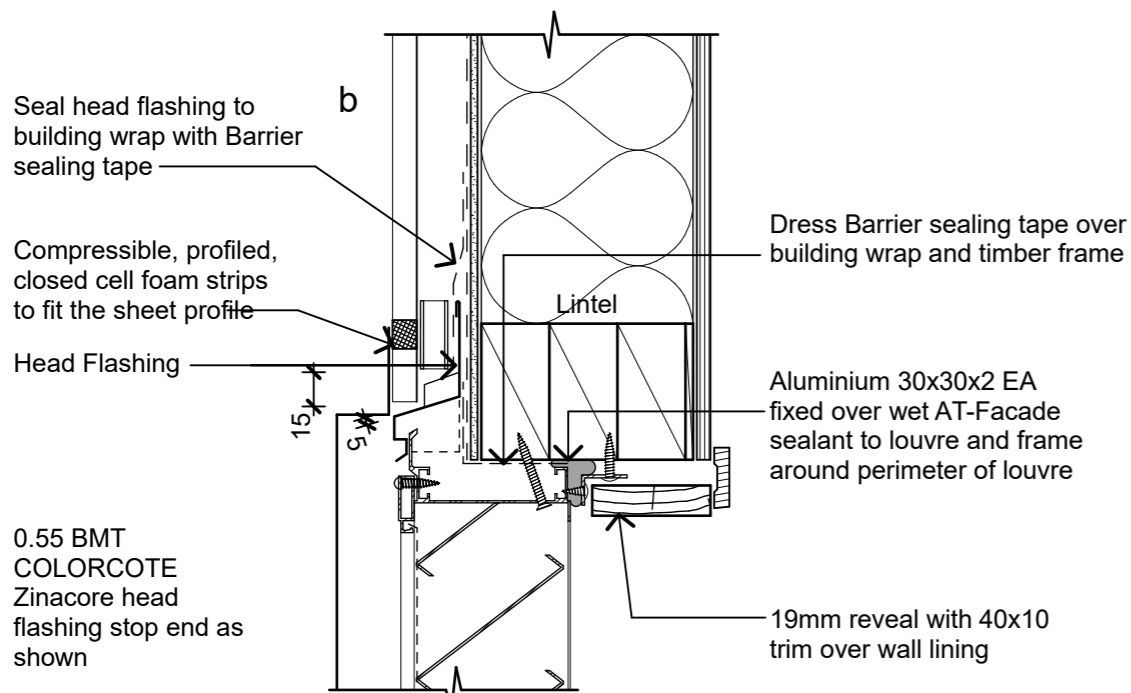


Client: Department of Conservation
Project Name: Mintaro Hut
Project No: 1772
Milford Track Fiordland National Park

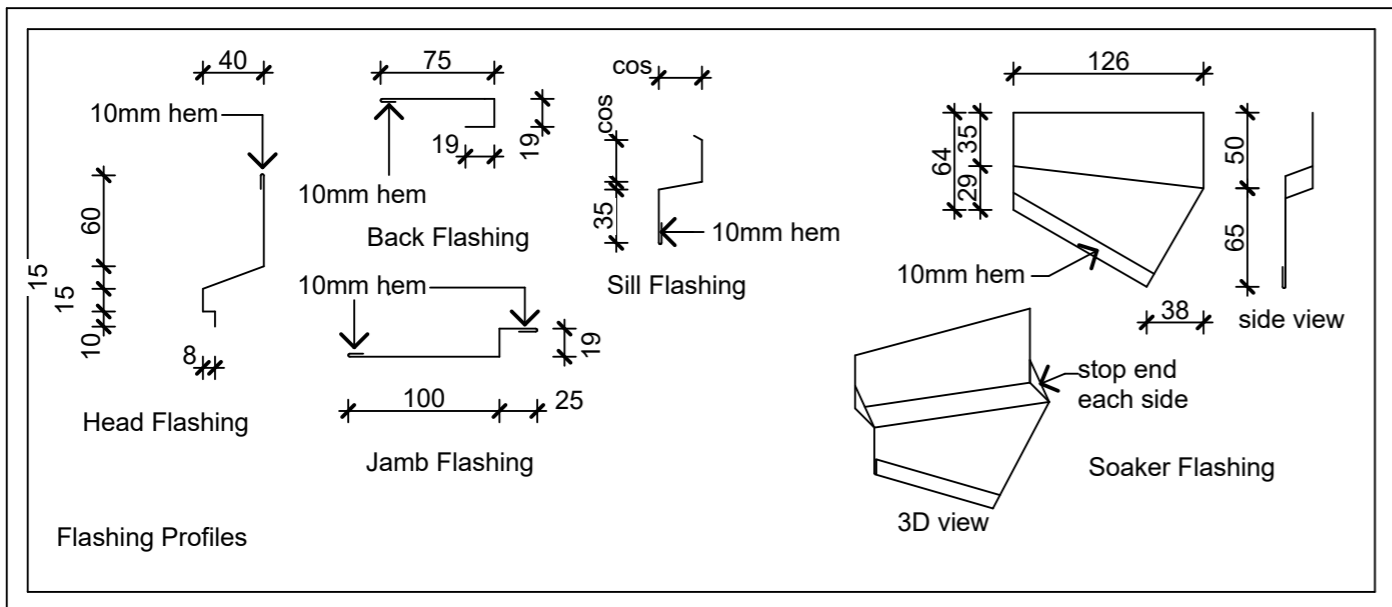
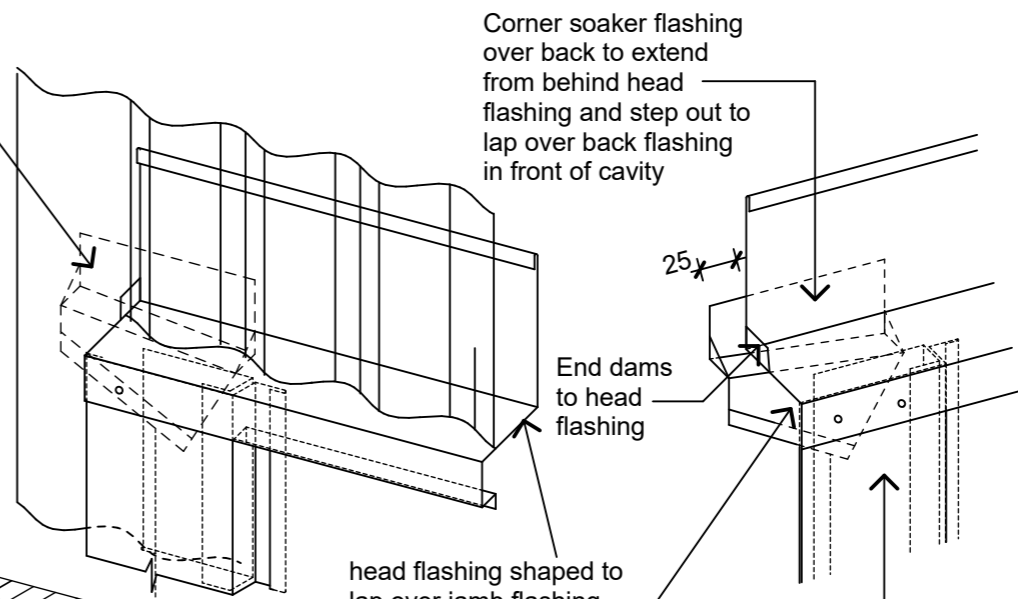
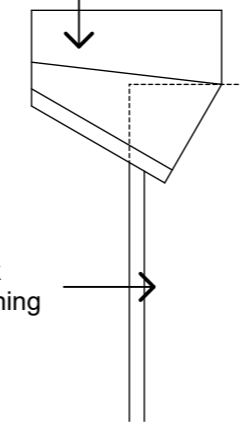
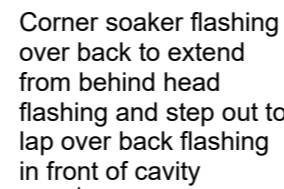
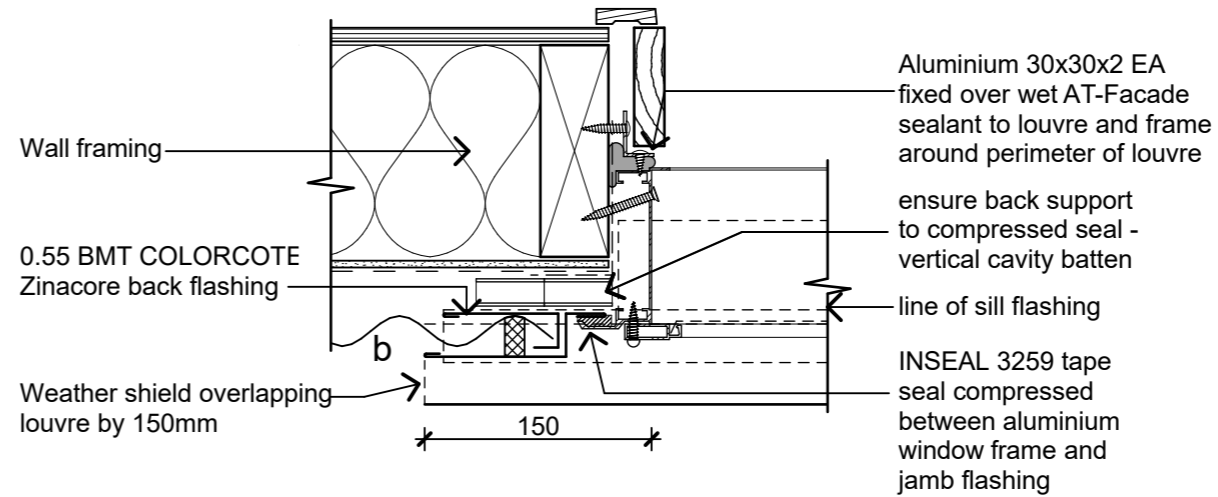
Detailed Design
Drawing Name: Louvre Details Gables

Revisions		
A	Detail Design	14/06/2019

Scale @ A3:
Drawing No: 23
Revision: A



NOTE: Refer Framing and Setout Plan for wall lining types to specific areas



Revisions		
A	Detail Design	14/06/2019

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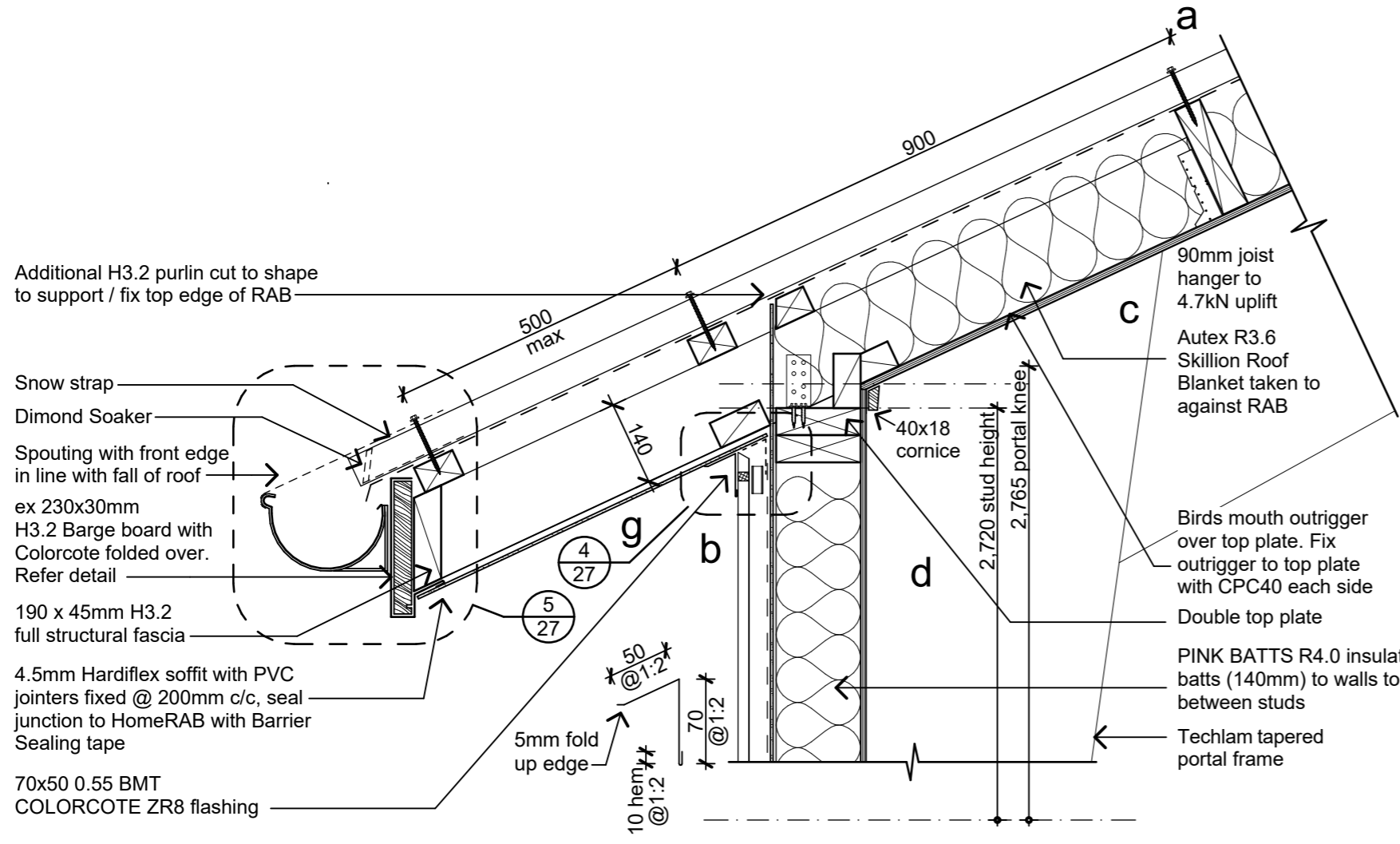
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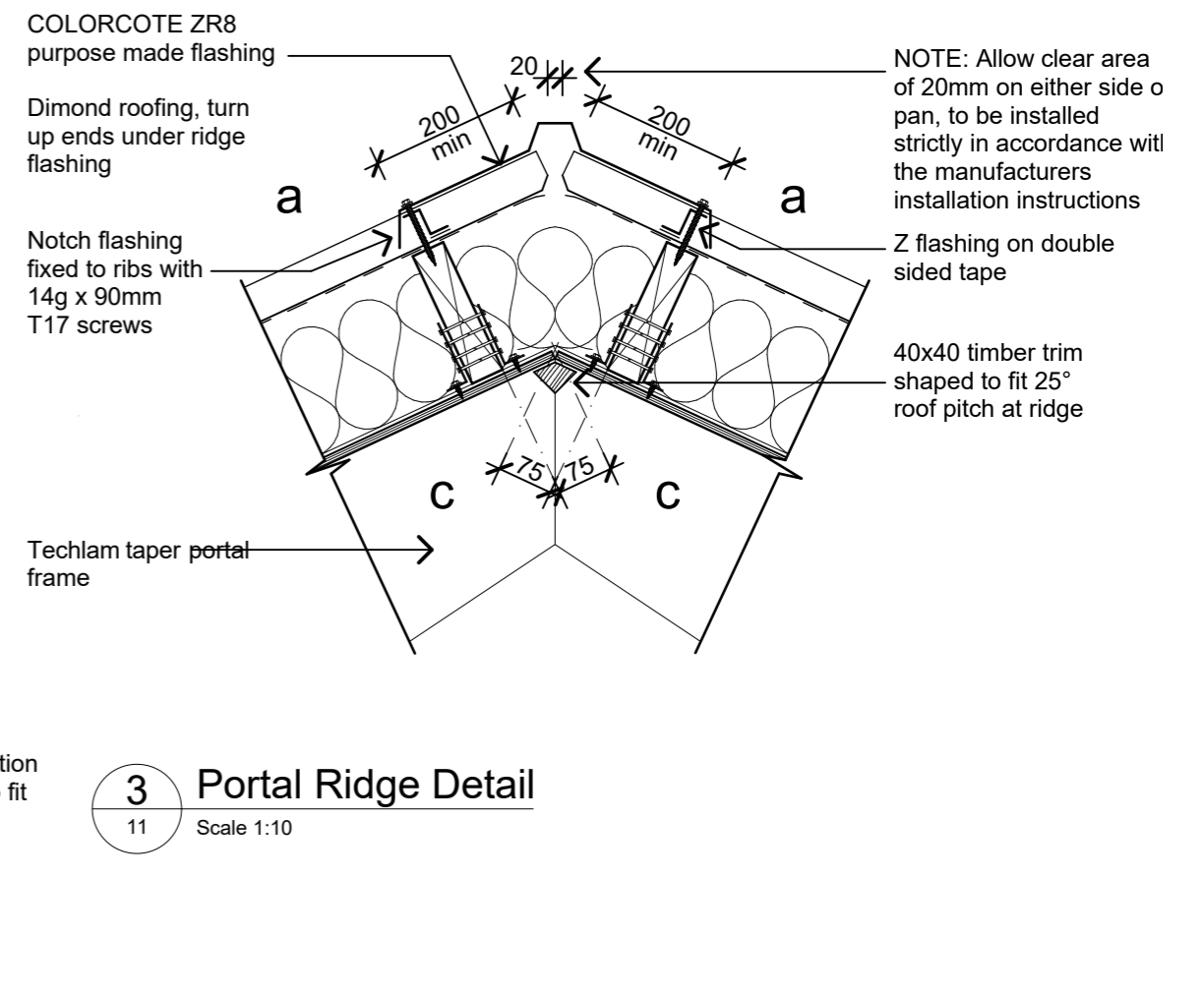
Client: Department of Conservation
Project Name: Mintaro Hut
Milford Track Fiordland National Park
Project No: 1772

Detailed Design
Drawing Name: Louvre Details Walls

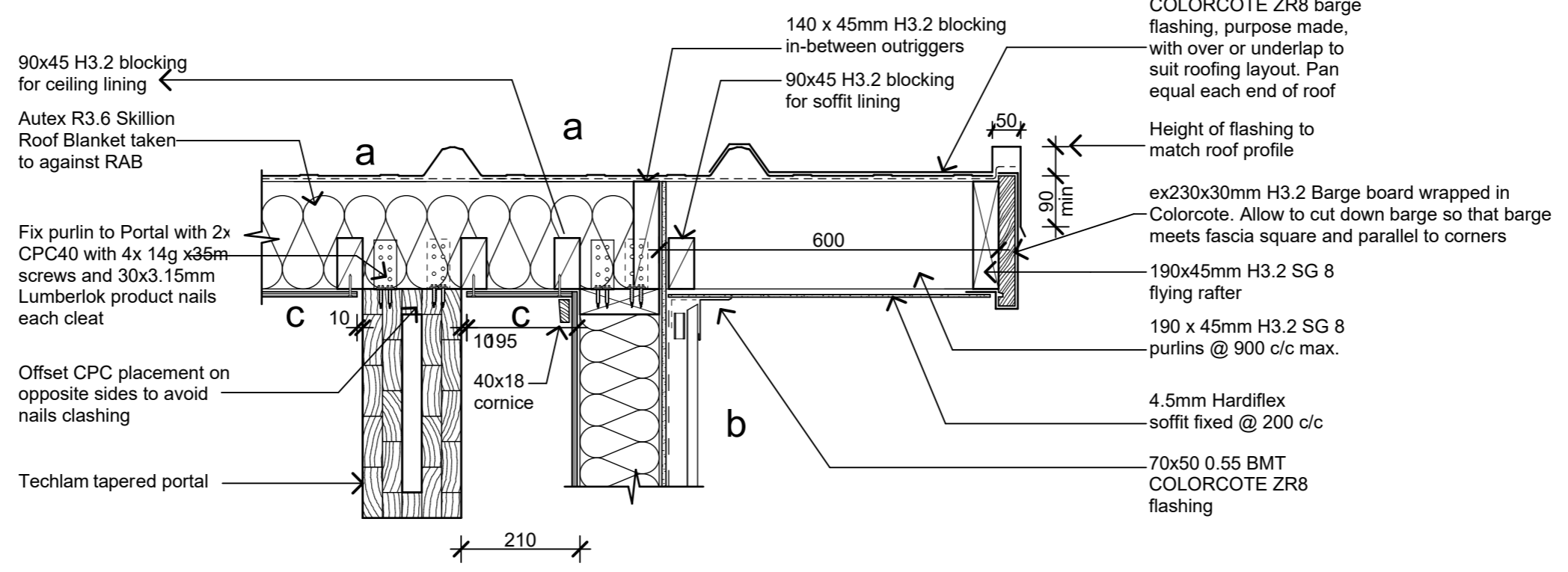
Scale @ A3:
Drawing No: 24
Revision: A



1 Portal Eave Detail
11 Scale 1:10



3 Portal Ridge Detail
11 Scale 1:10



2 Portal Gable End Detail
11 Scale 1:10

Revisions		
A	Detail Design	14/06/2019

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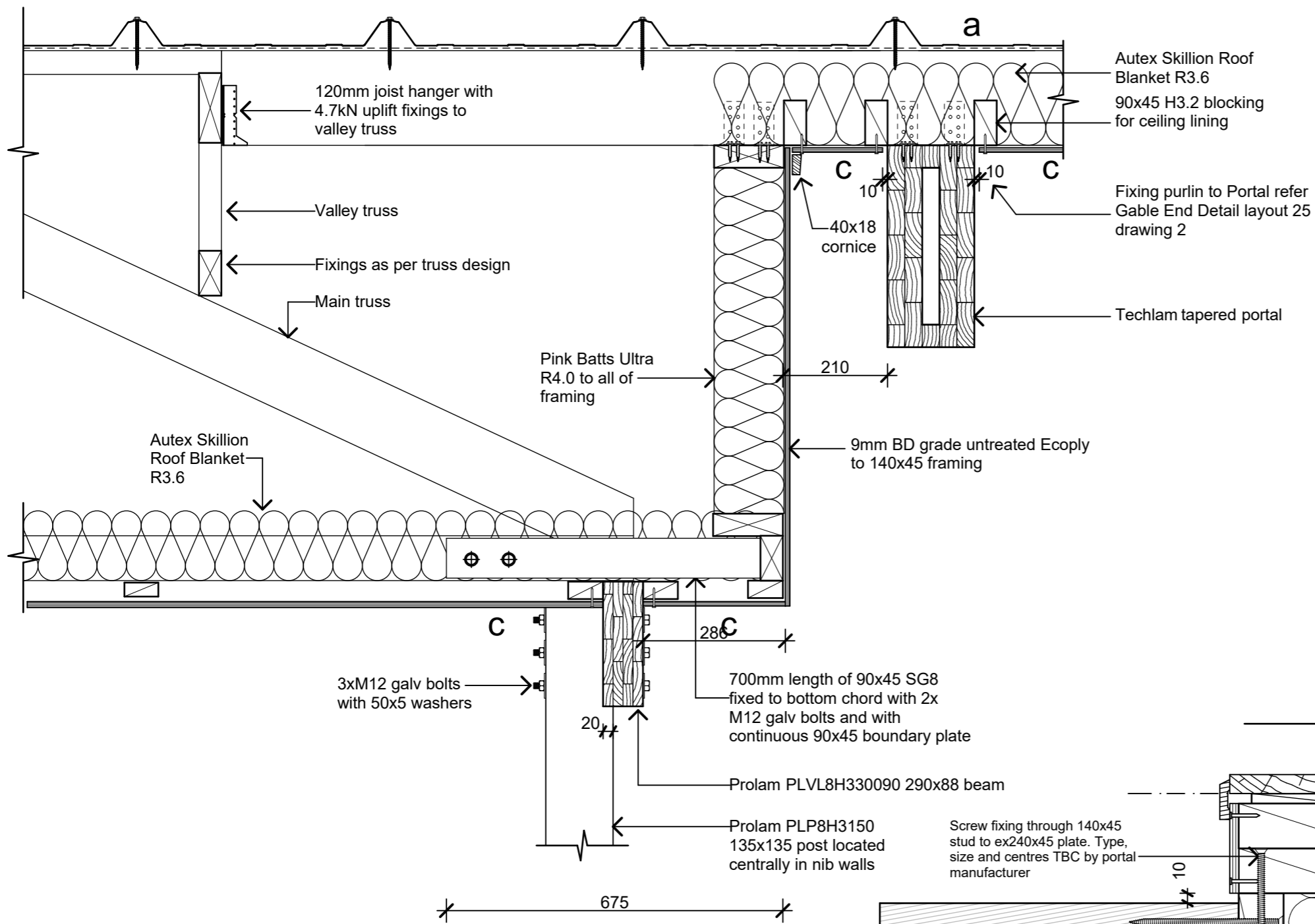
Project Name: **Mintaro Hut** Project No: **1772**
Milford Track Fiordland National Park

Detailed Design

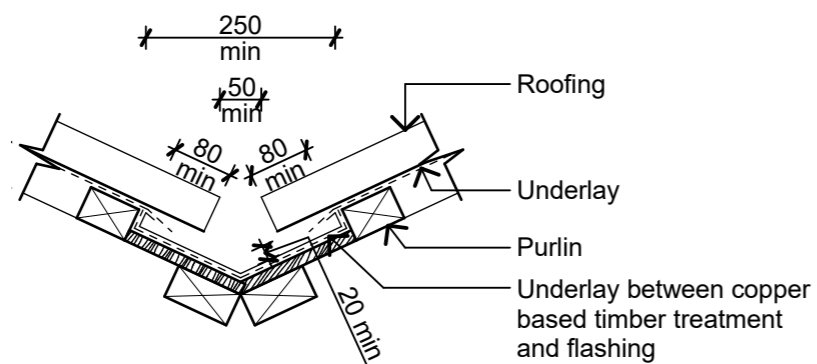
Drawing Name:
Roof Details Seating and Cooking Area

Scale @ A3: **1:10**

Drawing No: **25** Revision: **A**

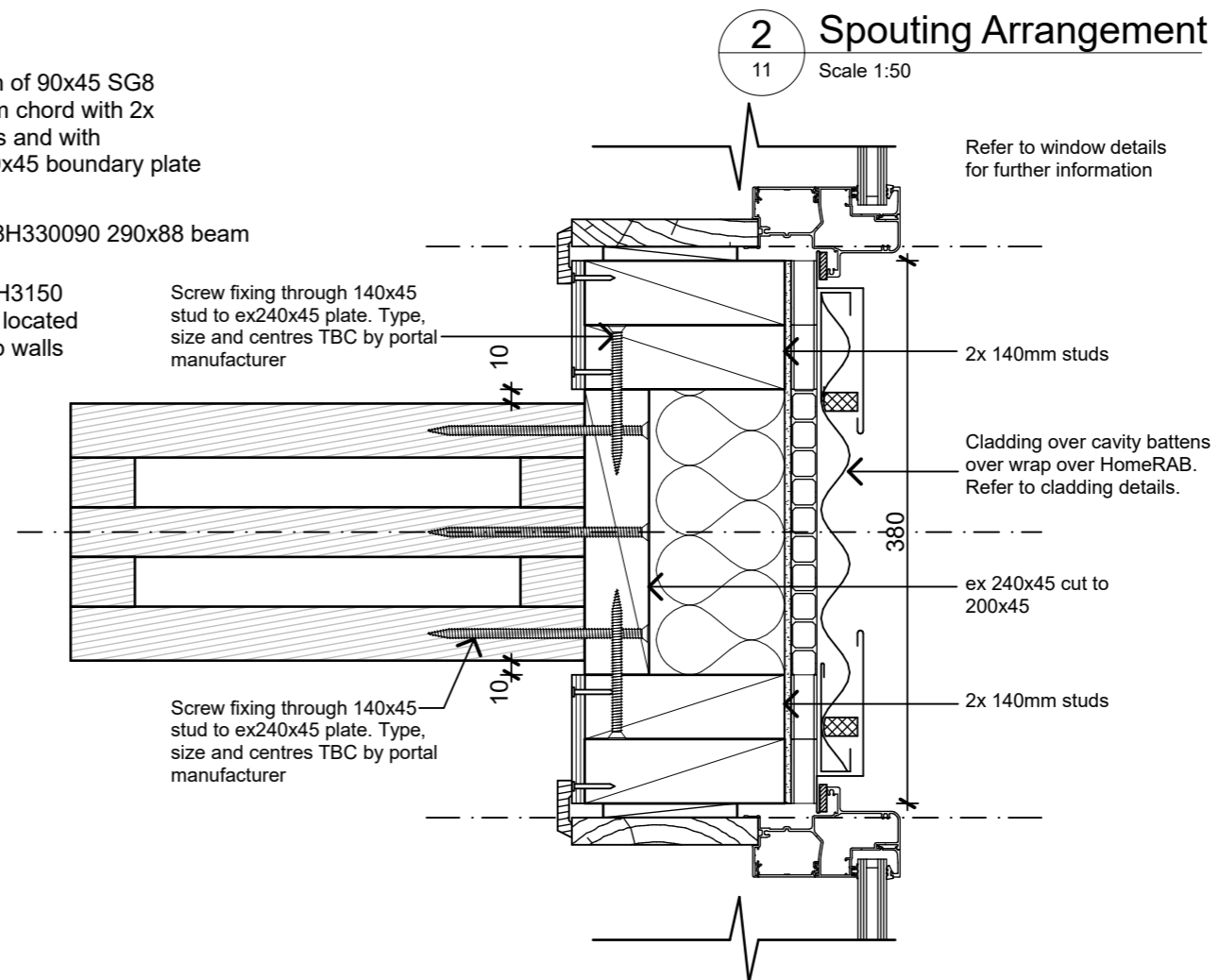


1 Truss to Portal Roof Detail
07 Scale 1:10

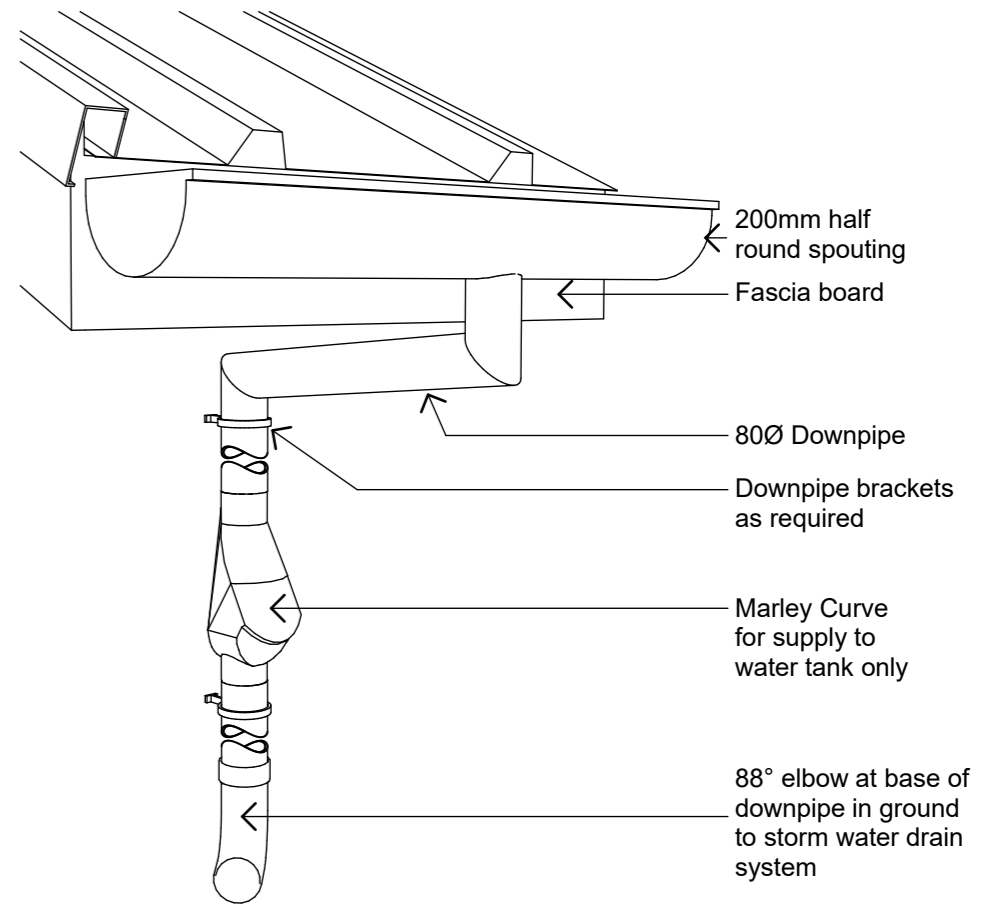


4 Valley Gutter
11 Scale 1:10

3 Portal Base Detail
04 Scale 1:5



2 Spouting Arrangement
11 Scale 1:50



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Project Name: **Mintaro Hut**
Milford Track Fiordland National Park

Project No: 1772

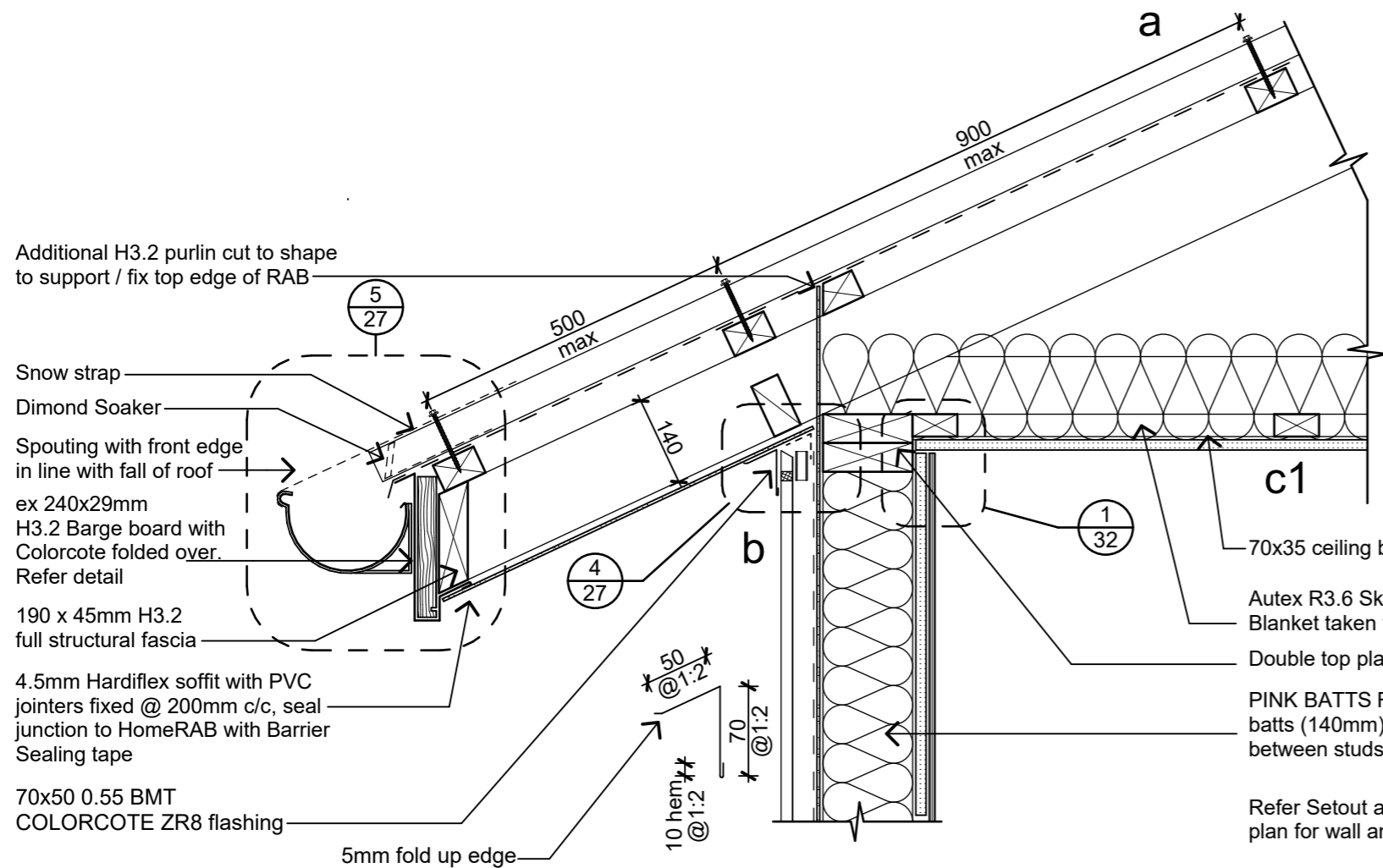
Detailed Design

Drawing Name:
Roof Details Seating and Cooking Area

Scale @ A3: 1:10, 1:50, 1:5

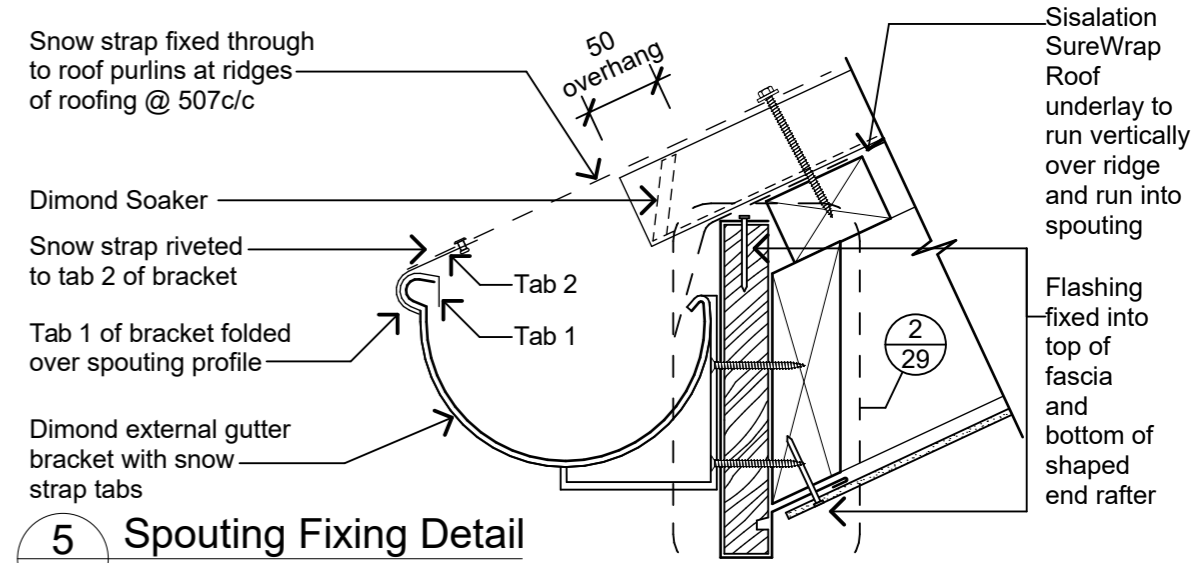
Drawing No: **26** Revision: **A**

Revisions		
A	Detail Design	14/06/2019



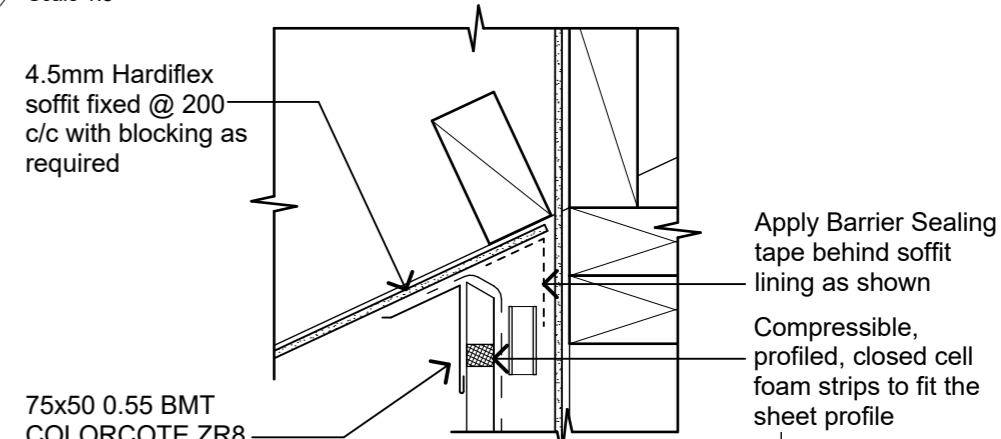
1 Eave Detail Bunks

Scale 1:10



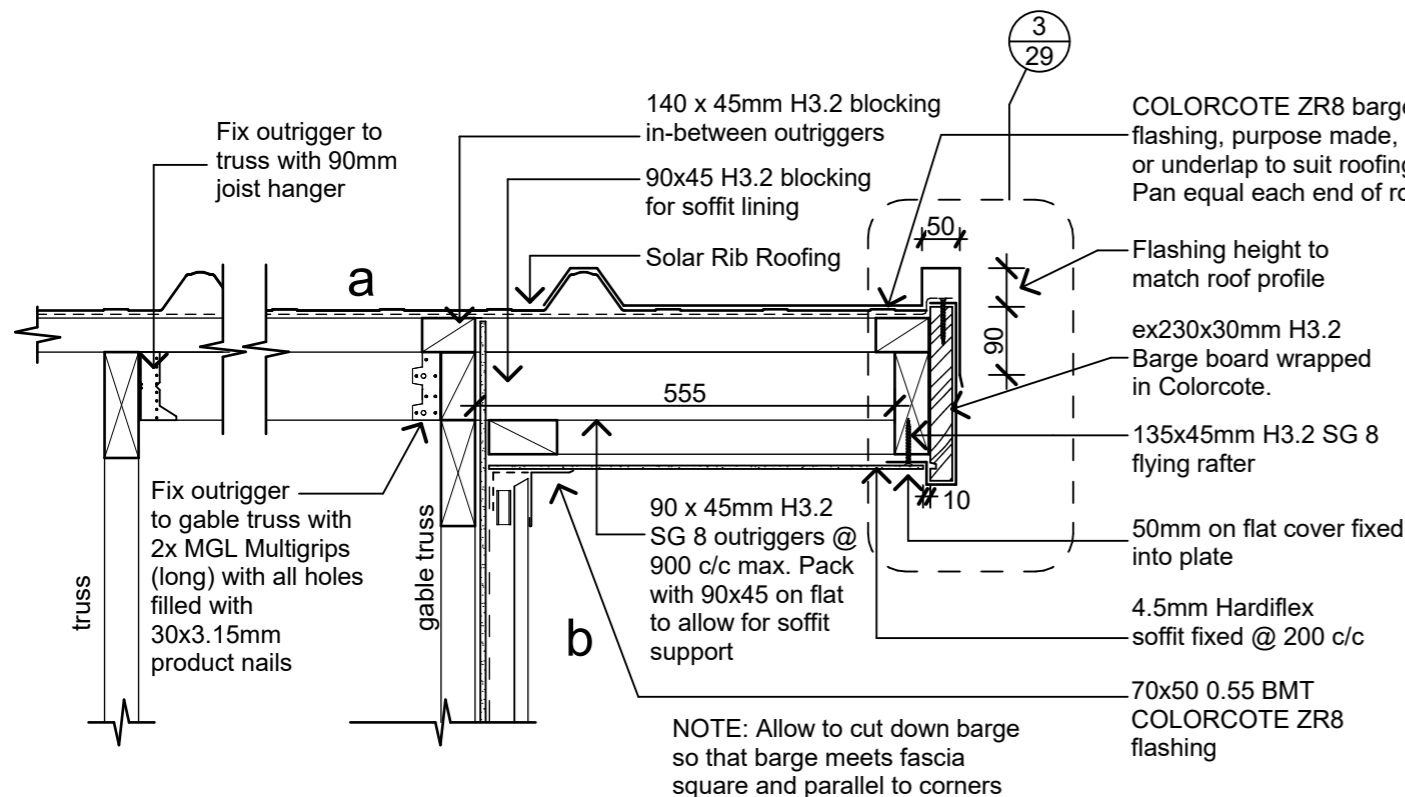
5 Spouting Fixing Detail

Scale 1:5



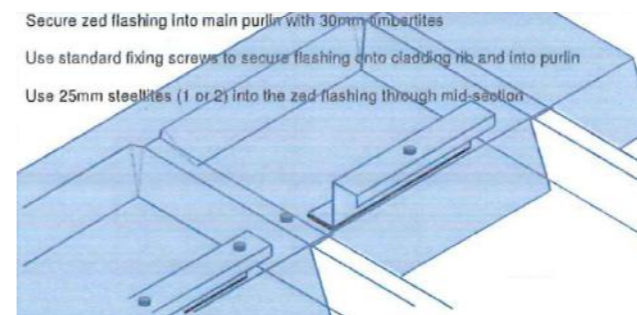
4 Eave Flashing Detail

Scale 1:5



2 Truss Gable End Detail

Scale 1:10



3 Truss Ridge Detail

Scale 1:10

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Project Name: Project No: 1772

Mintaro Hut
Milford Track Fiordland National Park

Detailed Design

Drawing Name:

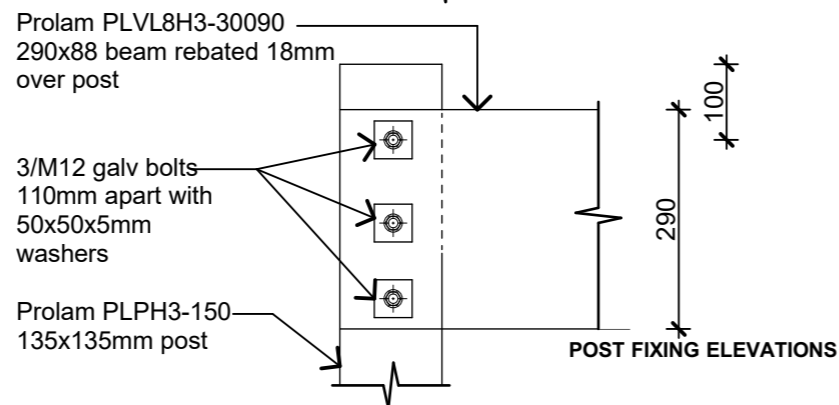
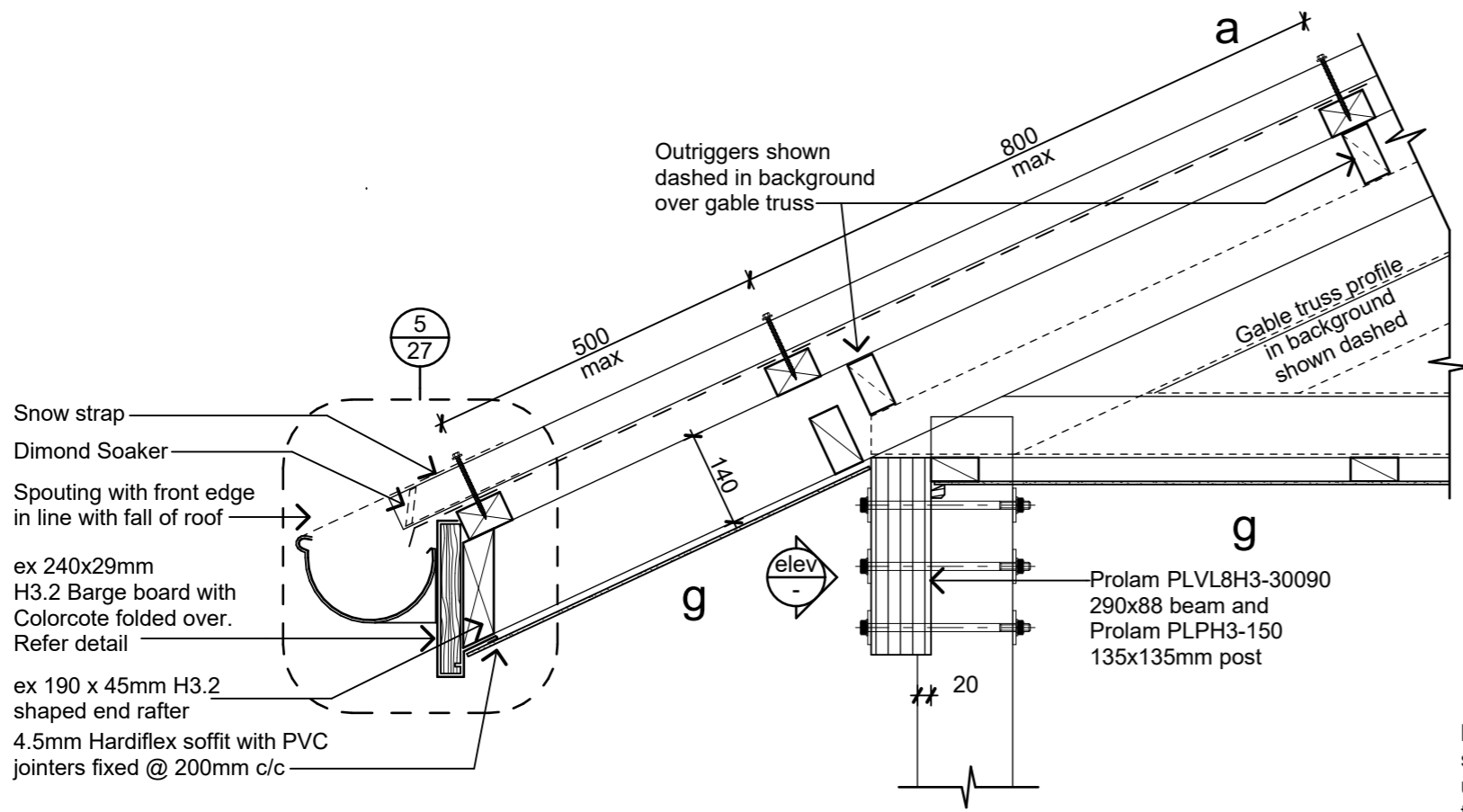
Roof Details Bunkroom Area

Scale @ A3: 1:10, 1:5

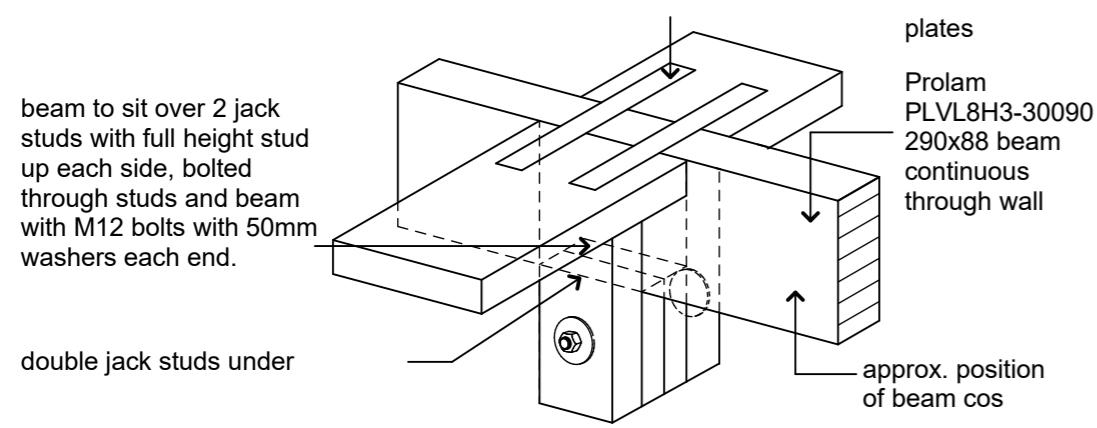
Drawing No: Revision:

27 **A**

Revisions		
A	Detail Design	14/06/2019



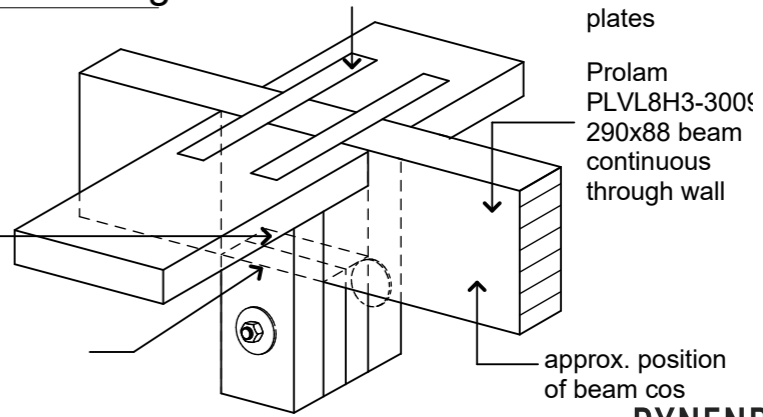
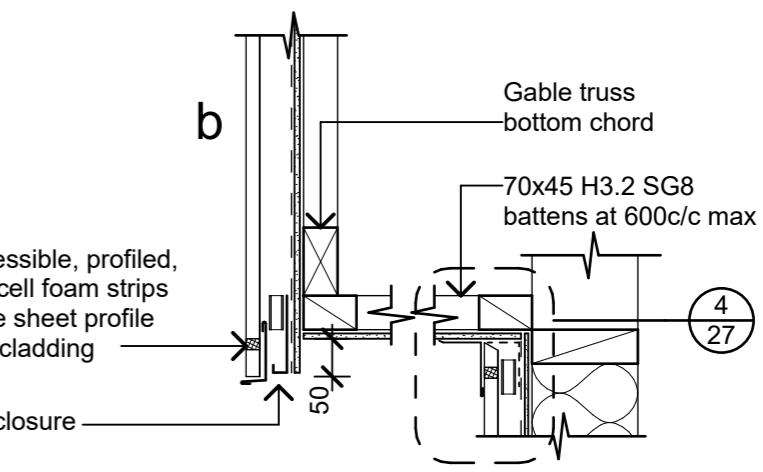
1 Eave Detail Deck Overhang
08 Scale 1:10



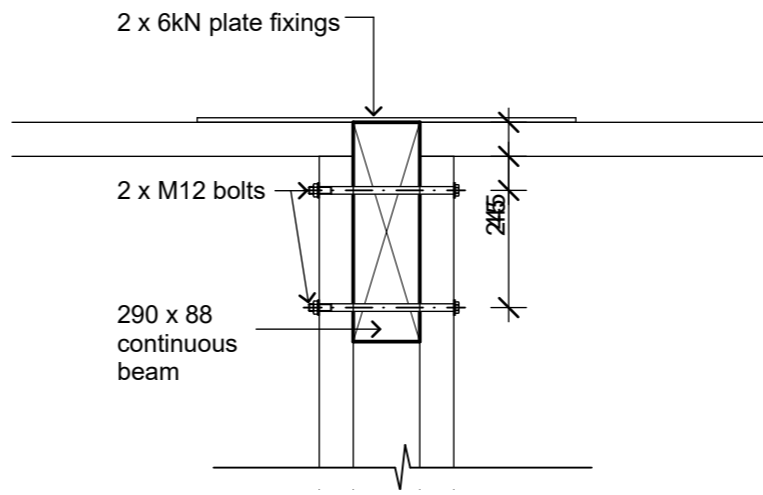
4 Verandah Beam
- Scale 1:10

2 Deck Soffit Edge
- Scale 1:10

beam to sit over 2 jack studs with full height stud up each side, bolted through studs and beam with M12 bolts with 50mm washers each end.



3 Verandah Beam
- Scale 1:10



5 Verandah Beam/Wall Connection
#LayID Scale 1:10

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Project Name: Project No: 1772

Mintaro Hut
Milford Track Fiordland National Park

Detailed Design

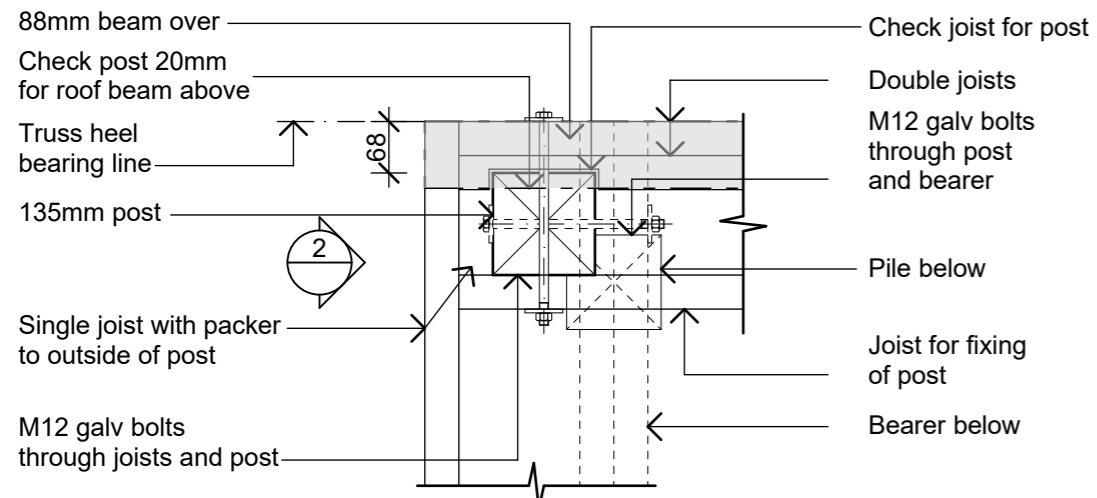
Drawing Name: Roof Details Deck

Revisions		
A	Detail Design	14/06/2019

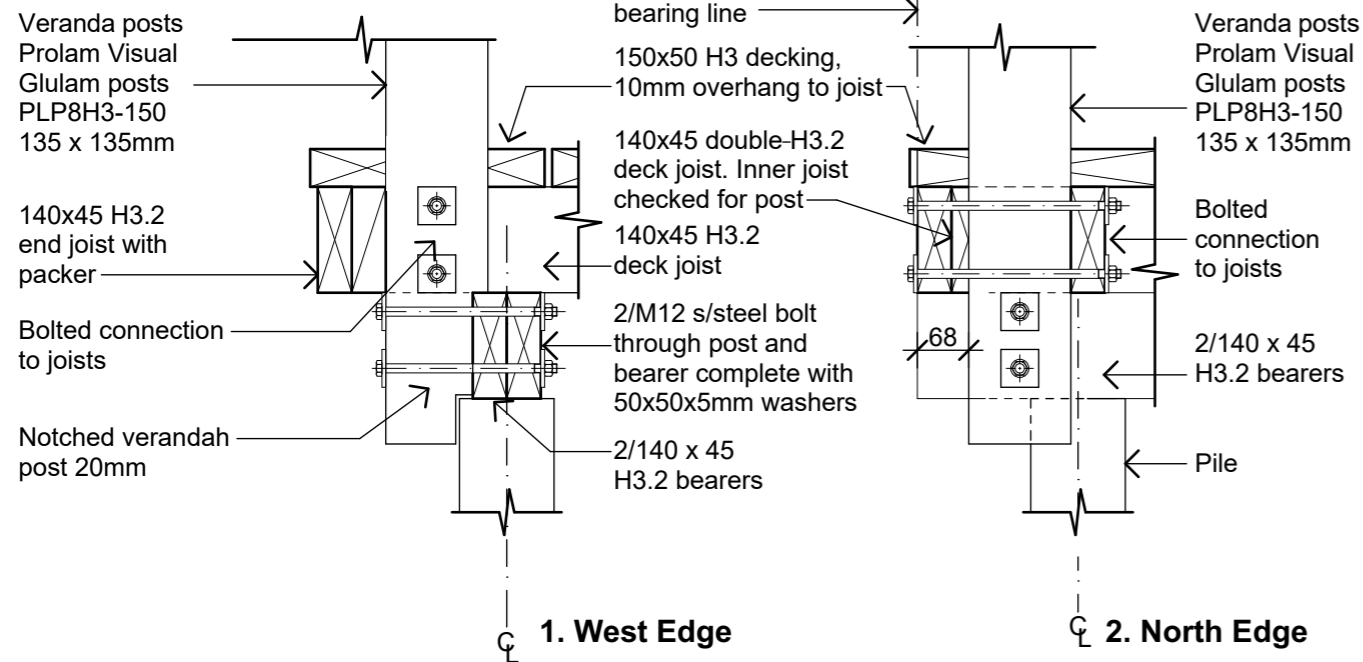
Scale @ A3: 1:10

Drawing No: 28

Revision: A



Plan

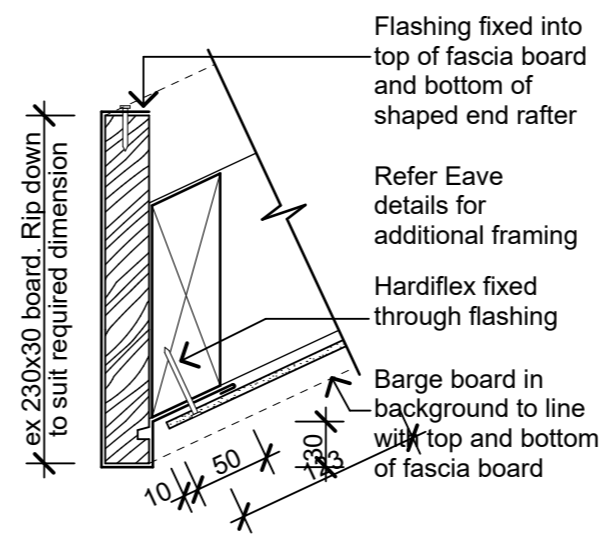


1. West Edge

2. North Edge

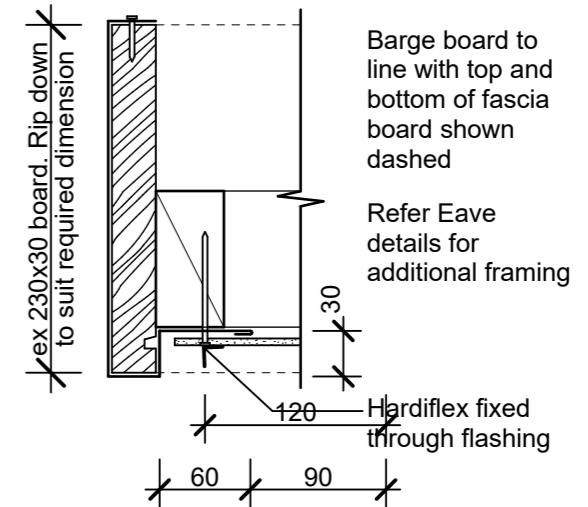
1 Hut Deck Post West

Scale 1:10



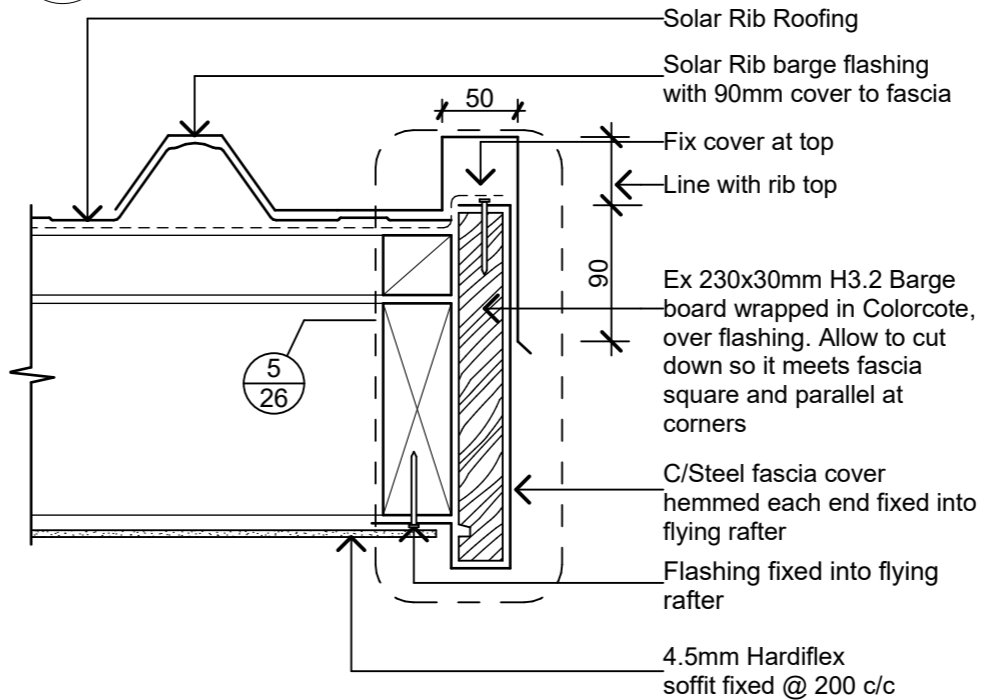
2 Raking Eave Barge Cover

Scale 1:5



4 Flat Eave Barge Cover

Scale 1:5



3 Barge Detail

Scale 1:5

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Mintaro Hut
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Detailed Design

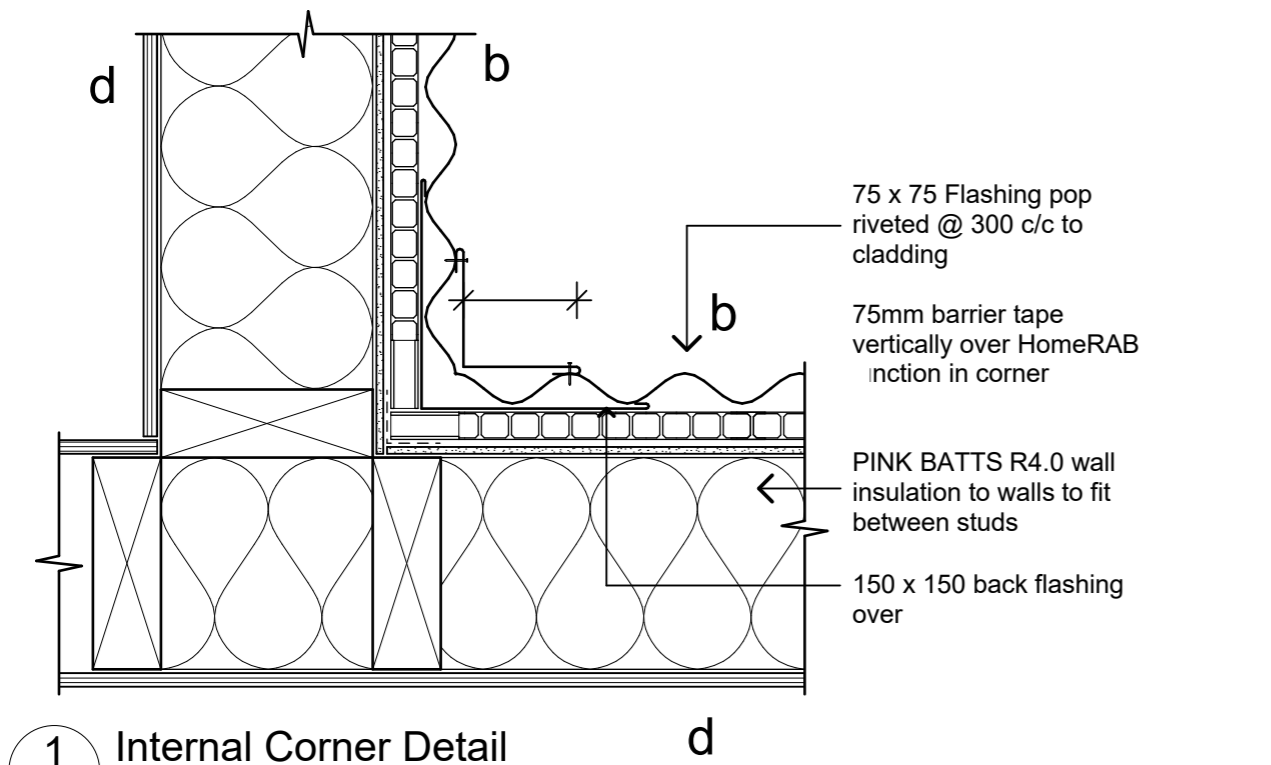
Drawing Name:

Roof Details

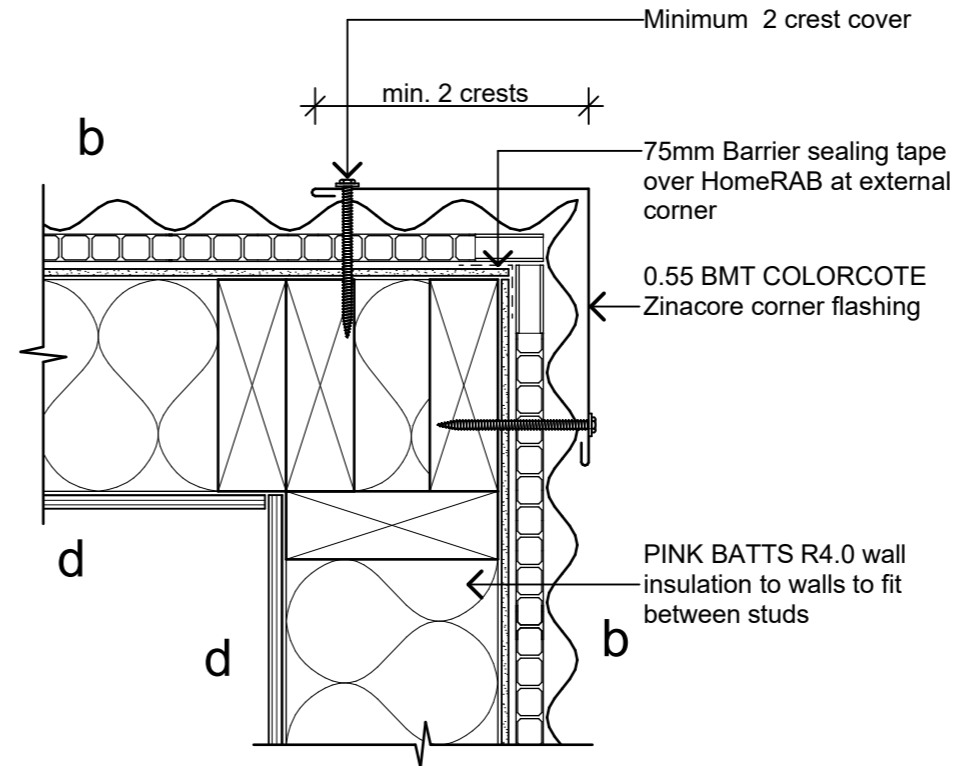
Revisions		
A	Detail Design	14/06/2019

Scale @ A3: 1:10, 1:5

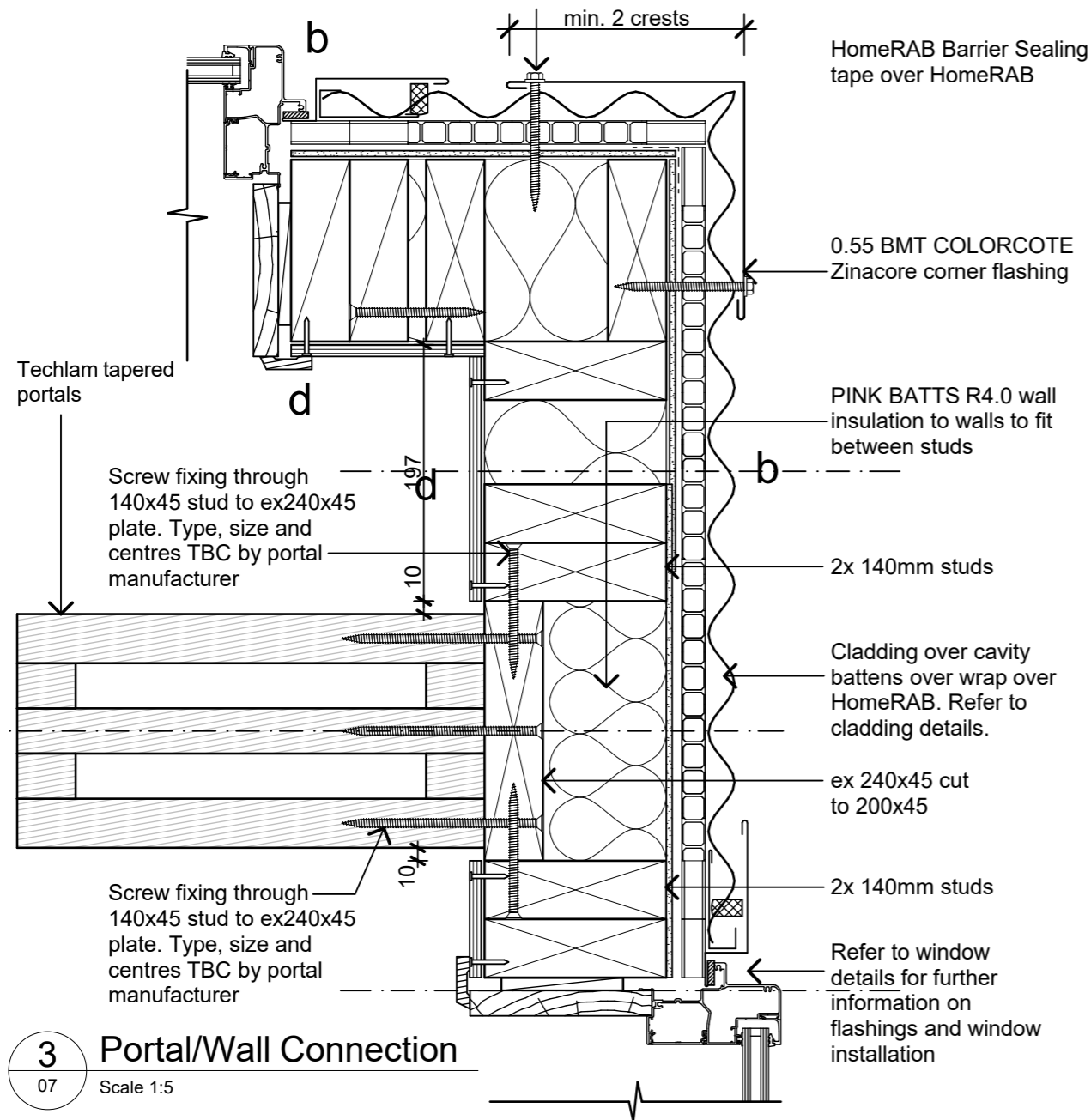
Drawing No: 29
Revision: A



1 Internal Corner Detail
07 Scale 1:5



2 External Corner Detail
07 Scale 1:5



3 Portal/Wall Connection
07 Scale 1:5

Material Notes:

- a COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
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- b COLORCOTE Zinacore 0.40 BMT CORRUGATE PROFILE cladding over cavity battens over Sisalation SureWrap wall underlay over 4.5mm HomeRAB Pre-Cladding board system over timber framing
- c CHH 9mm ECOPLY BD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
- d CHH 9mm ECOPLY BD grade untreated wall lining with 10mm gap to flooring.
- e CHH 19mm ECOPLY CD grade H3.2 CCA 2400x1200 LS flooring over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f 150x50 rough sawn H3.2 Radiata with top edges arised with webforge insert at doors Tensar SS20 Geogrid over exterior decking, fixed with stainless steel staples
- g 4.5mm Hardiflex with PVC jointers
- h1 CHH 9mm Ecoply BD grade untreated ply over 1 layer 10mm Gib Fyrelite, with ply finished with Fireshield IFR clear intumescent coating
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- i 1 layer 16mm Gib Fyrelite

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Client:
Department of Conservation

Project Name: Project No: 1772

Mintaro Hut
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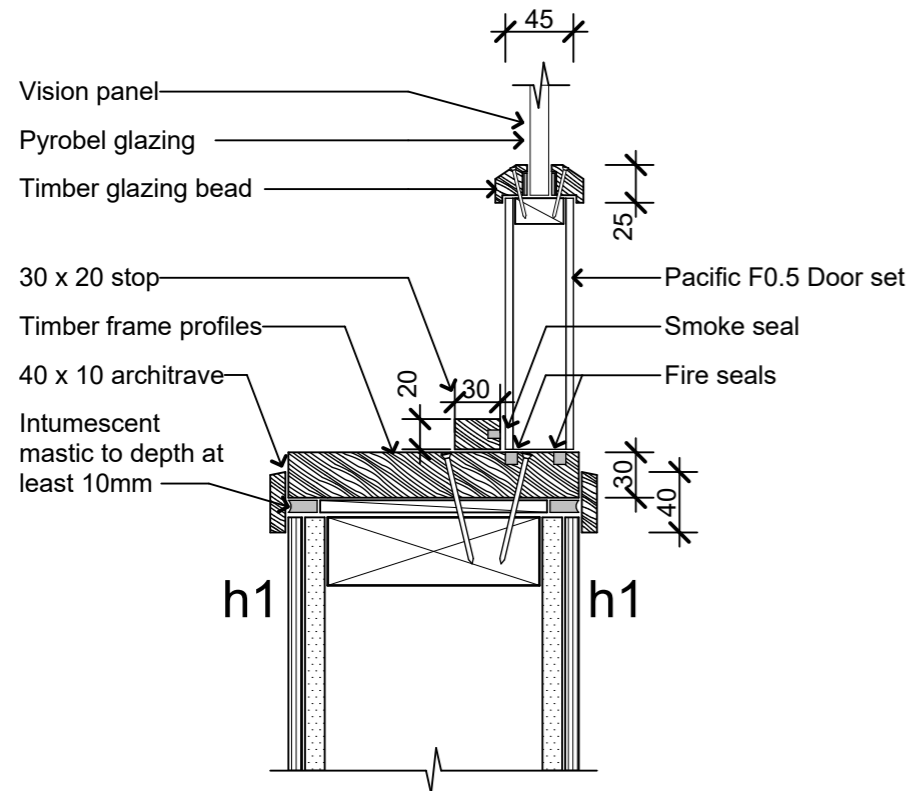
Detailed Design

Drawing Name:
Wall Details

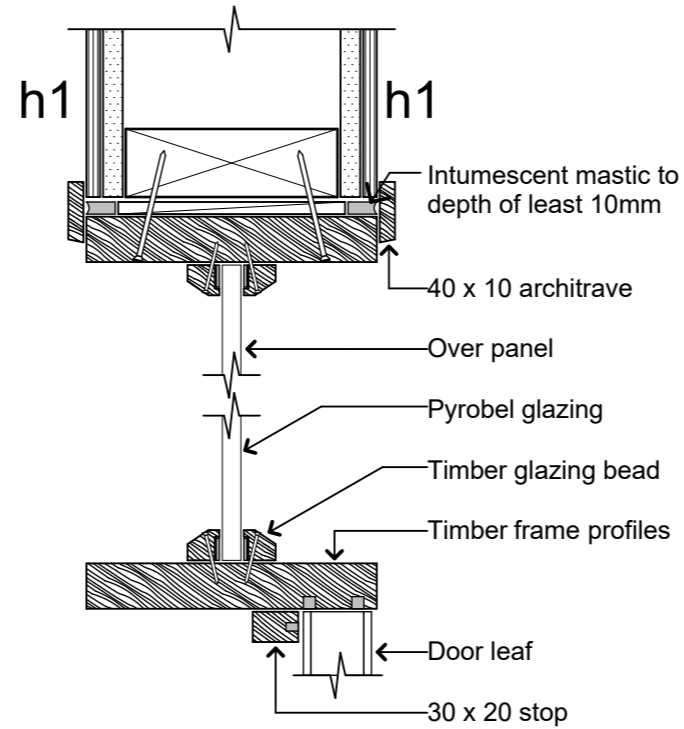
Scale @ A3: 1:5

Drawing No: **30** Revision: **A**

Revisions		
A	Detail Design	14/06/2019



1 Fire Door Jamb
21 Scale 1:5



2 Fire Door Head
21 Scale 1:5

Material Notes:

- a COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
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- e CHH 19mm ECOPLY CD grade H3.2 CCA 2400x1200 LS flooring over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
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- g 4.5mm Hardiflex with PVC jointers
- h1 CHH 9mm Ecoply BD grade untreated ply over 1 layer 10mm Gib Fyreline, with ply finished with Fireshield IFR clear intumescent coating
- h2 CHH 9mm Ecoply BD grade untreated ply over 1 layers 16mm Gib Fyreline, with ply finished with Fireshield IFR clear intumescent coating
- i 1 layer 16mm Gib Fyreline

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Client:
Department of Conservation

Project Name: Project No: **1772**

Mintaro Hut
Milford Track Fiordland National Park

Detailed Design

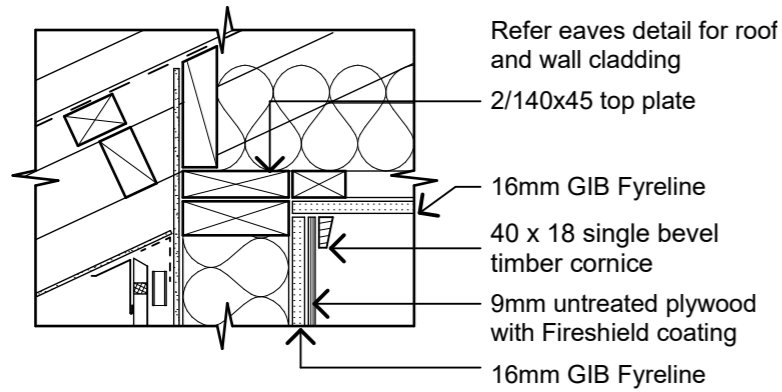
Drawing Name:

Fire-Rated Door Details

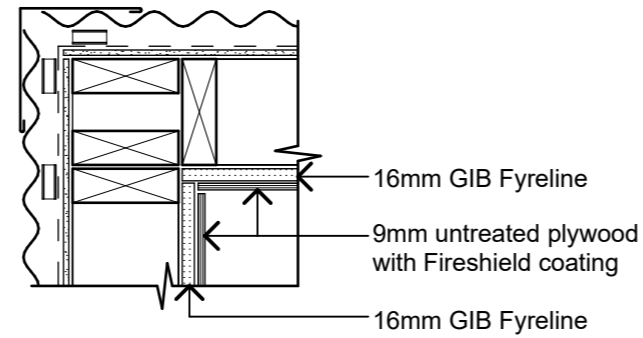
Revisions		
A	Detail Design	14/06/2019

Scale @ A3: **1:5**

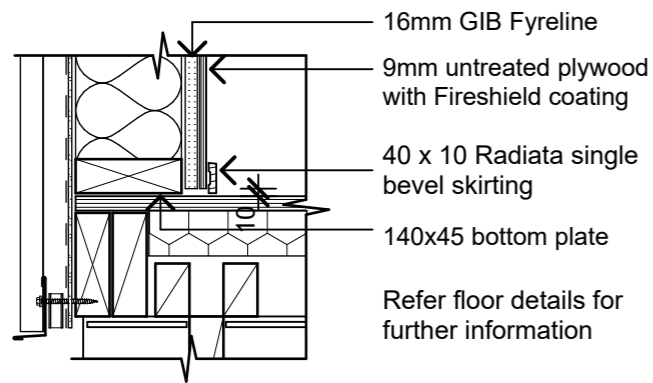
Drawing No: **31** Revision: **A**



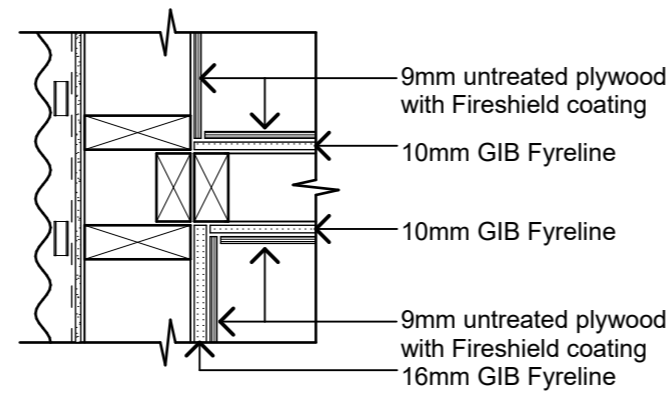
1 Wall to Ceiling Junction 30mins
16 Scale 1:10



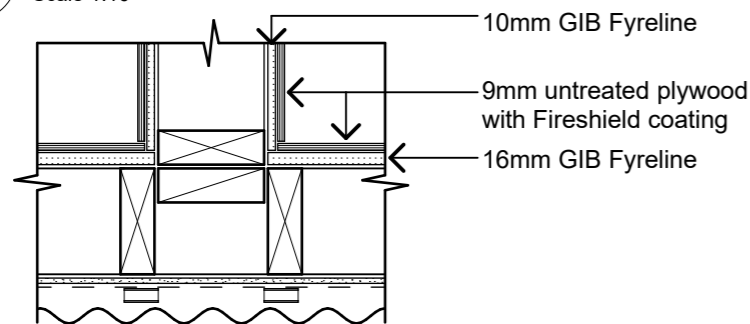
5 Wall Corner Junction 30mins
07 Scale 1:10



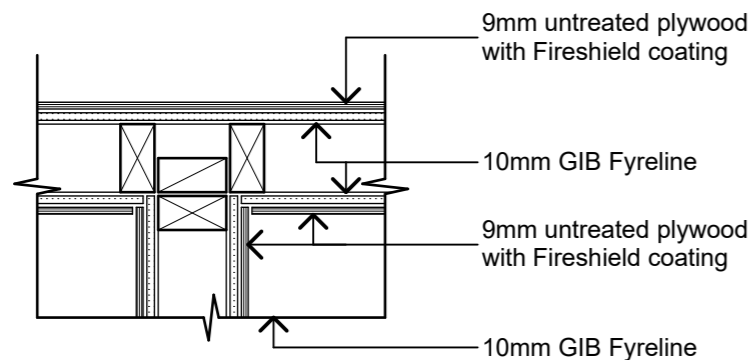
2 Floor to Wall Junction 30mins
16 Scale 1:10



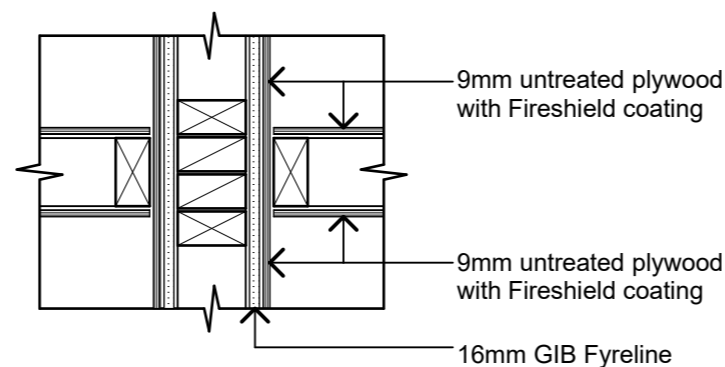
6 Wall Bunkroom 1 and 4 to Lobby Junction 30mins
07 Scale 1:10



3 Wall to Wall Junction 30mins
07 Scale 1:10

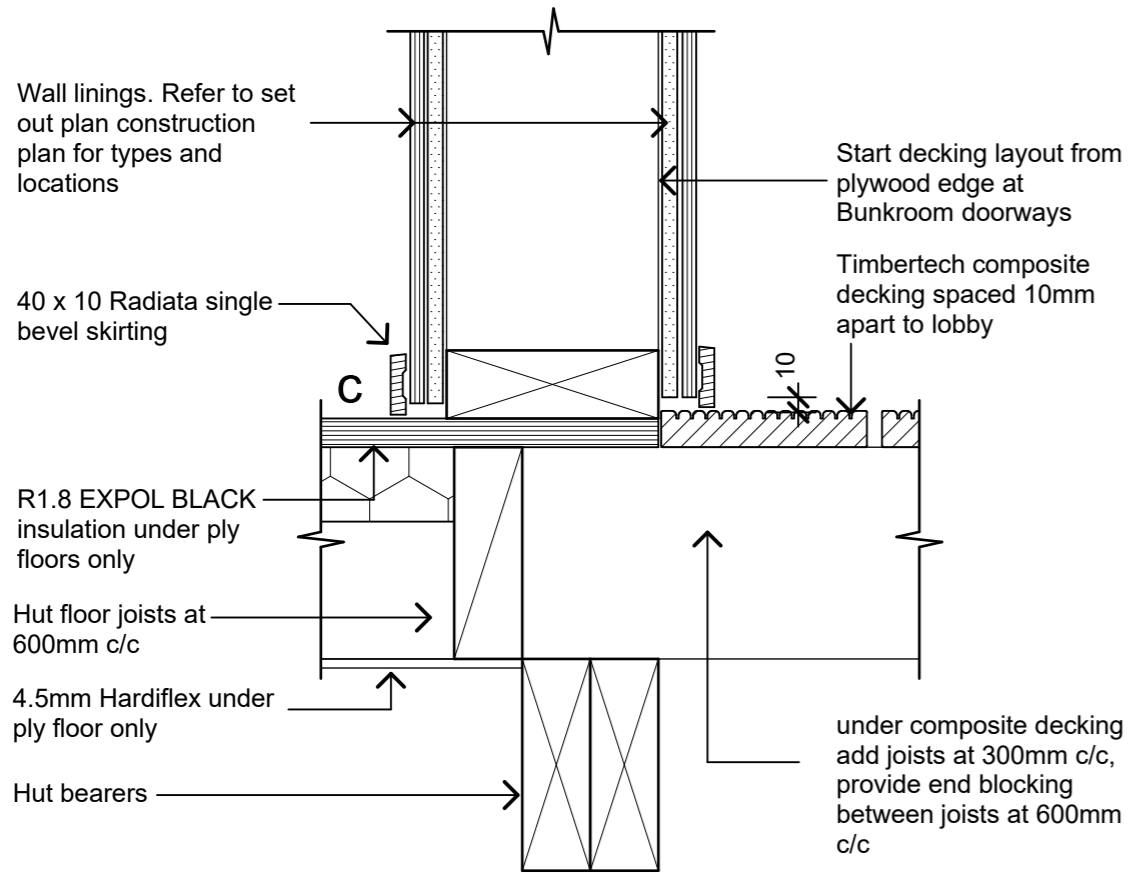


4 Inter-bunkroom to Lobby
07 Scale 1:10

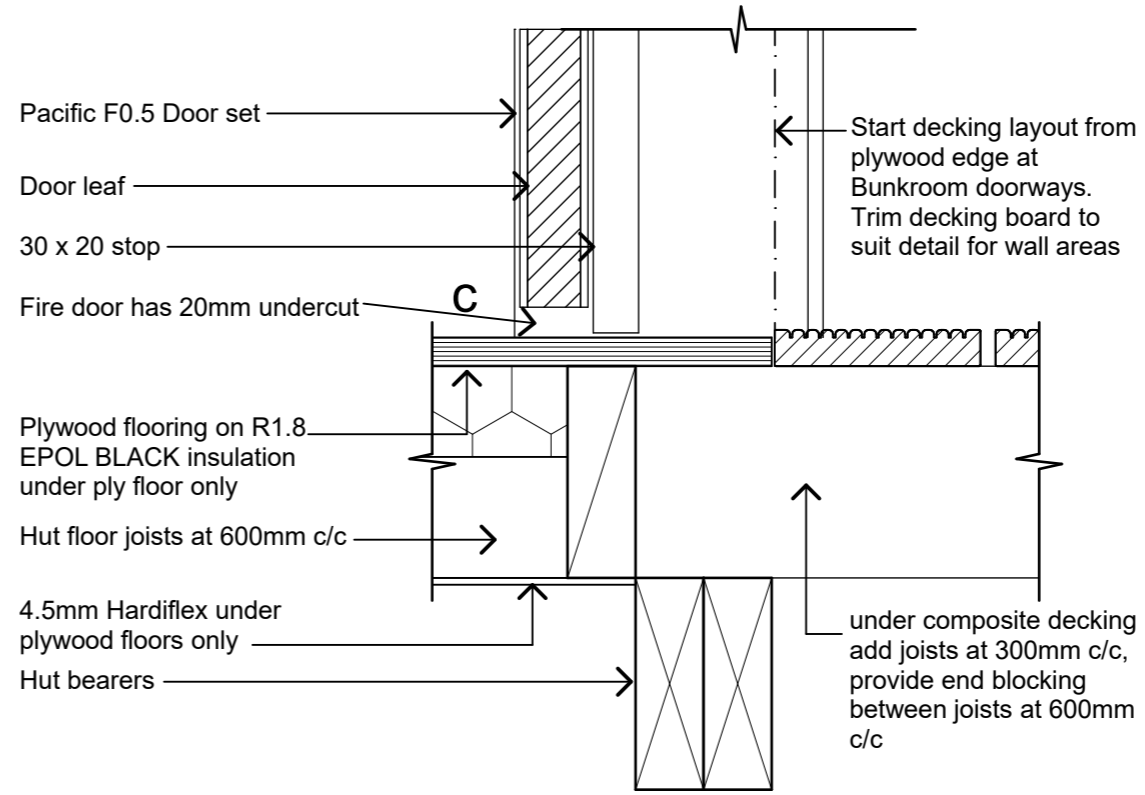


7 Wing Wall GIB Arrangement
07 Scale 1:10

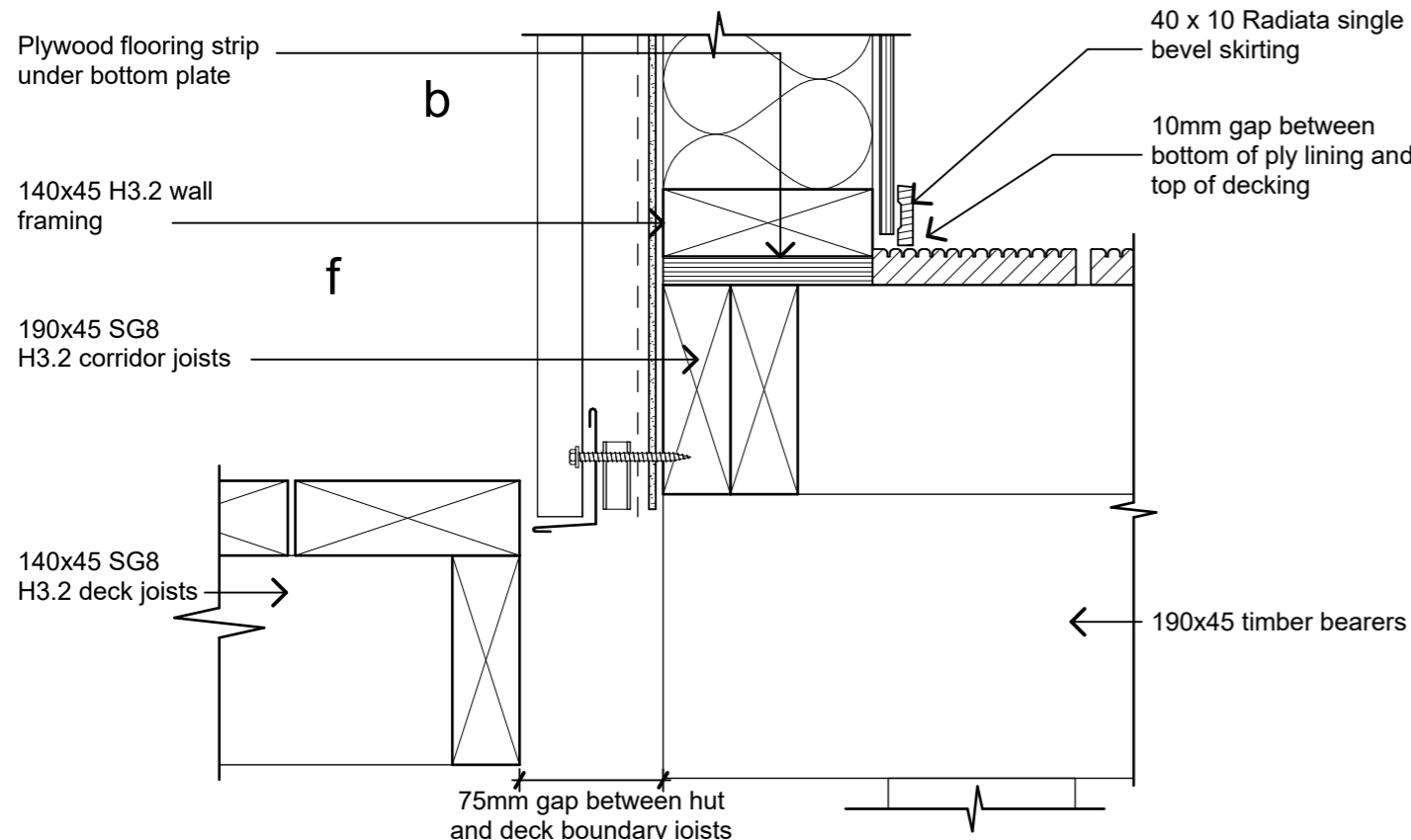
Revisions		
A	Detail Design	14/06/2019



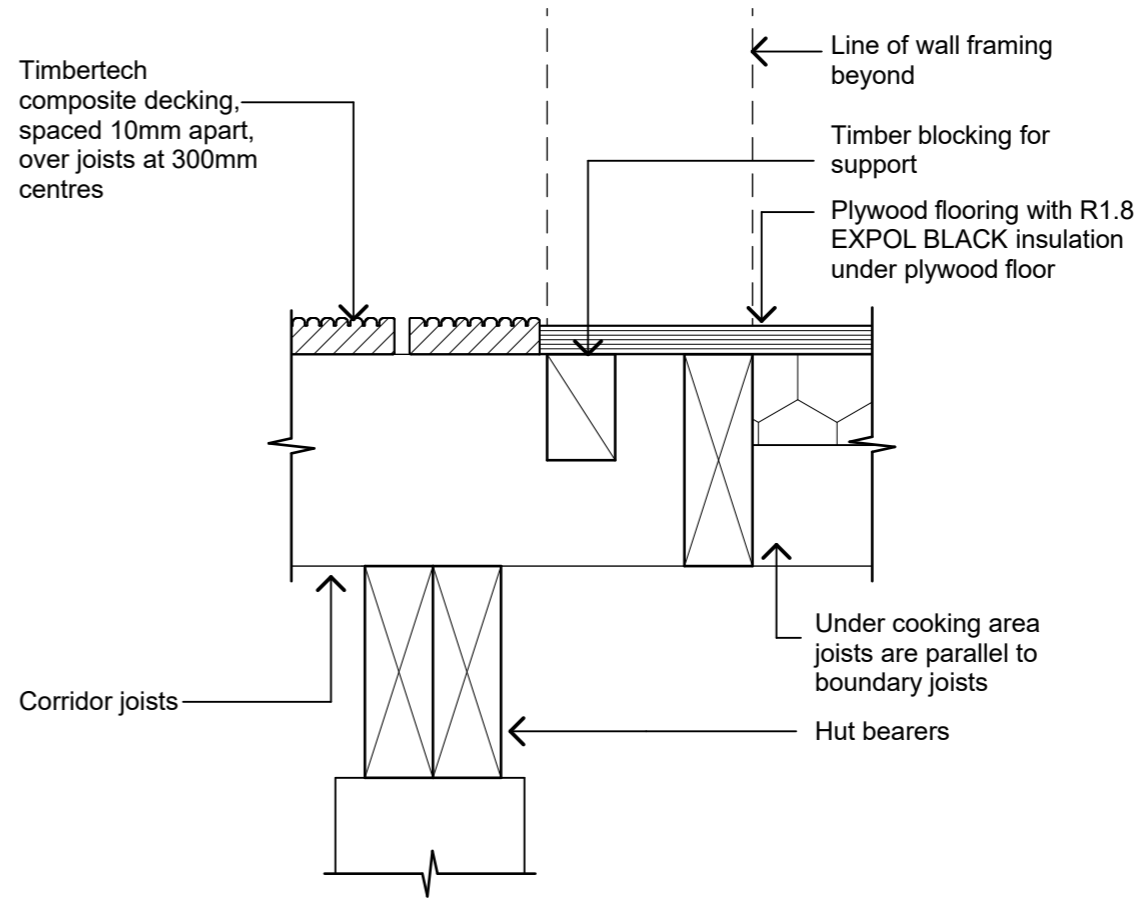
1 Corridor Floor to Bunkroom Wall
07 Scale 1:5



2 Corridor Floor to Bunkroom Door
07 Scale 1:5



3 Corridor External Wall Floor
07 Scale 1:5



4 Corridor Floor/Cooking Floor
07 Scale 1:5

Material Notes:

- a** COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
- a2** COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 190 x 45 H3.2 purlins on edge @ 900c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
- b** COLORCOTE Zinacore 0.40 BMT CORRUGATE PROFILE cladding over cavity battens over Sisalation SureWrap wall underlay over 4.5mm HomeRAB Pre-Cladding board system over timber framing
- c** CHH 9mm ECOPLY BD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
- d** CHH 9mm ECOPLY BD grade untreated wall lining with 10mm gap to flooring.
- e** CHH 19mm ECOPLY CD grade H3.2 CCA 2400x1200 LS flooring over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f** 150x50 rough sawn H3.2 Radiata with top edges arised with webforge insert at doors Tensar SS20 Geogrid over exterior decking, fixed with stainless steel staples
- g** 4.5mm Hardiflex with PVC jointers
- h1** CHH 9mm Ecoply BD grade untreated ply over 1 layer 10mm Gib Fyreline, with ply finished with Fireshield IFR clear intumescent coating
- h2** CHH 9mm Ecoply BD grade untreated ply over 1 layers 16mm Gib Fyreline, with ply finished with Fireshield IFR clear intumescent coating
- i** 1 layer 16mm Gib Fyreline

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Client:
Department of Conservation

Project Name: **Mintaro Hut** Project No: **1772**
Milford Track Fiordland National Park

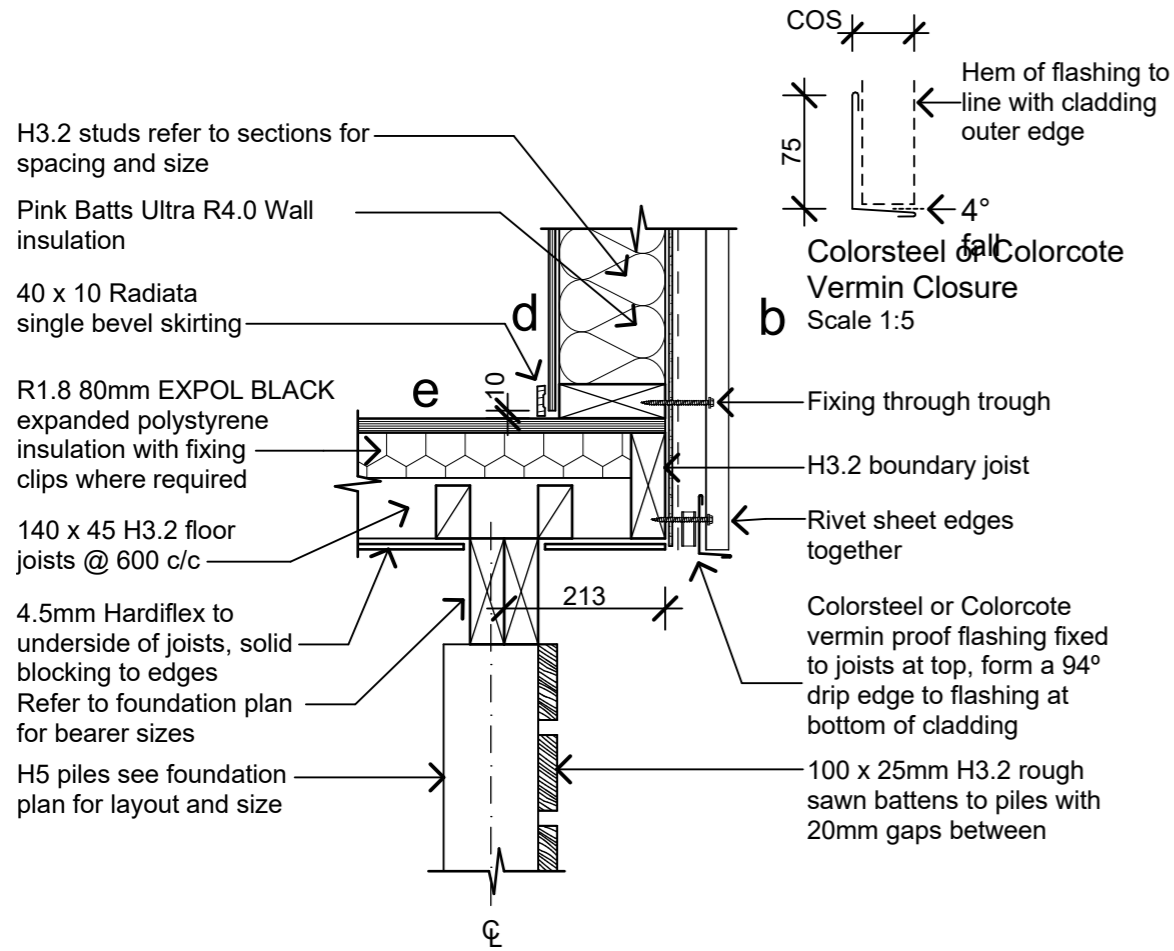
Detailed Design

Drawing Name:
Corridor Floor Details

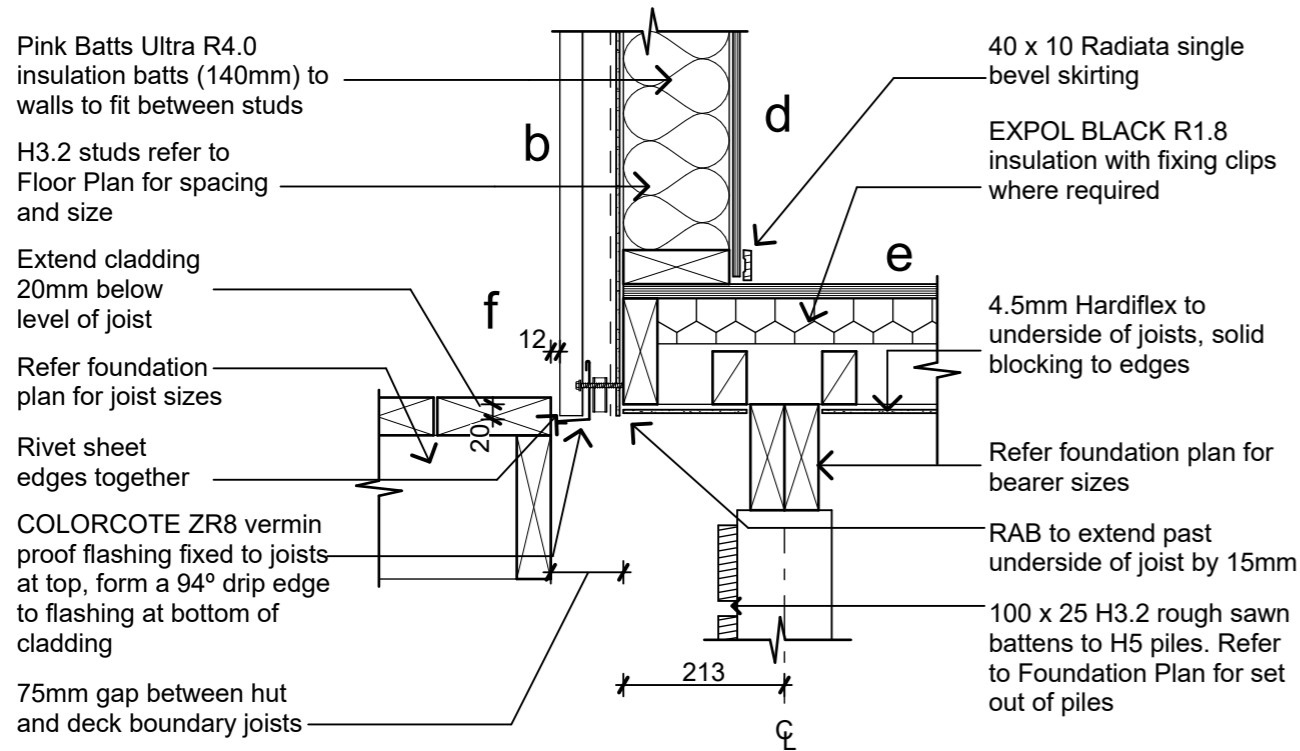
Revisions		
A	Detail Design	14/06/2019

Scale @ A3: **1:5**

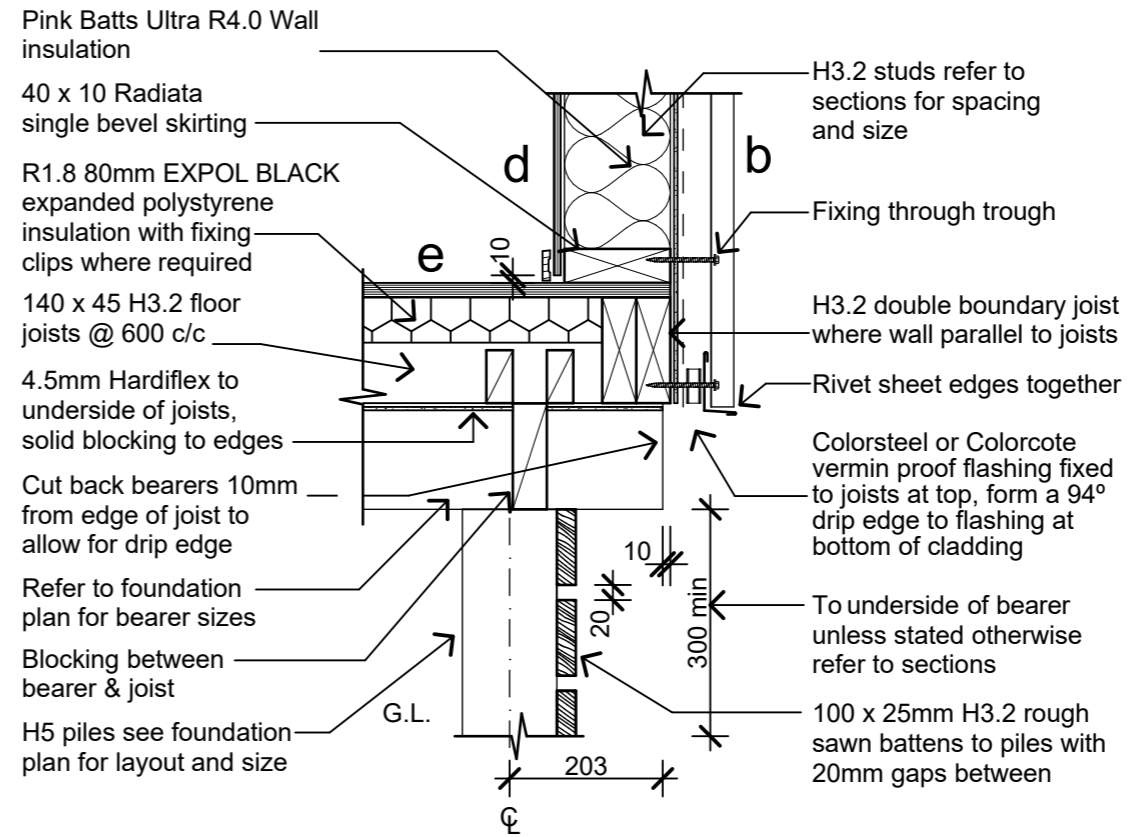
Drawing No: **33** Revision: **A**



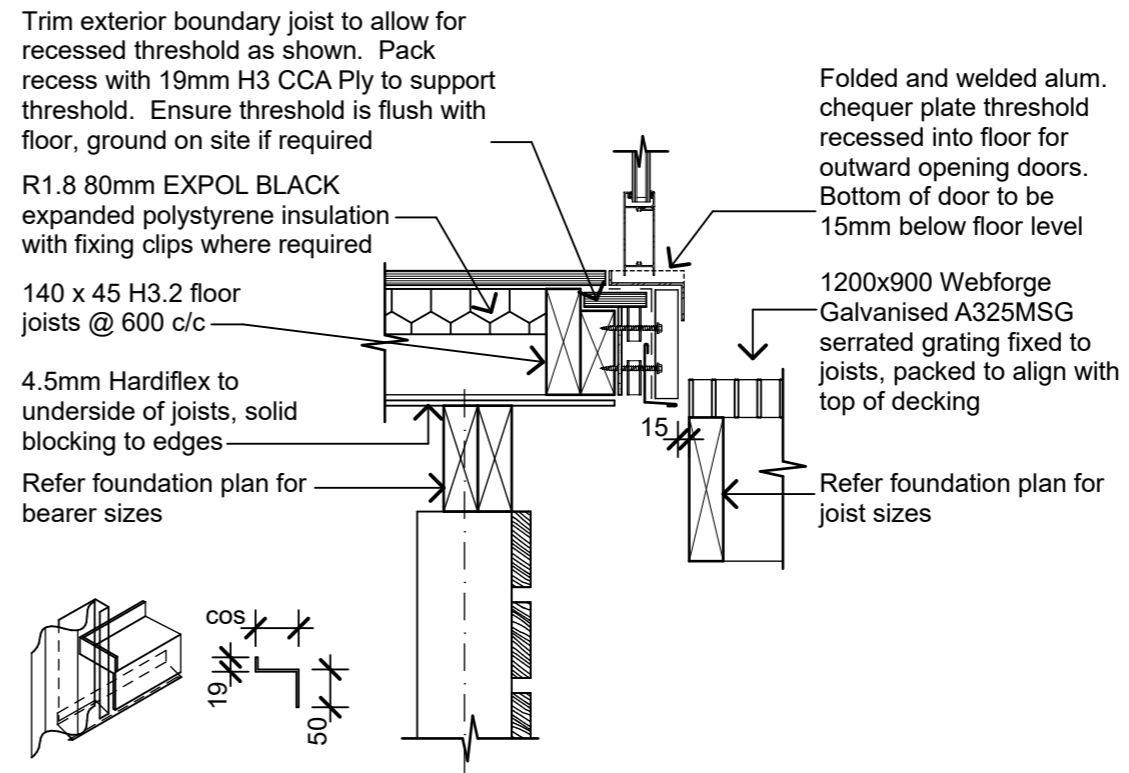
1 Floor Edge 1
07 Scale 1:10



3 Floor to Deck Edge
07 Scale 1:10



2 Floor Edge 2
07 Scale 1:10



4 Entry Door Sill
07 Scale 1:10

Material Notes:

- a** COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
- a2** COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 190 x 45 H3.2 purlins on edge @ 900c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
- b** COLORCOTE Zinacore 0.40 BMT CORRUGATE PROFILE cladding over cavity battens over Sisalation SureWrap wall underlay over 4.5mm HomeRAB Pre-Cladding board system over timber framing
- c** CHH 9mm ECOPLY BD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
- d** CHH 9mm ECOPLY BD grade untreated wall lining with 10mm gap to flooring.
- e** CHH 19mm ECOPLY CD grade H3.2 CCA 2400x1200 LS flooring over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f** 150x50 rough sawn H3.2 Radiata with top edges arised with webforge insert at doors Tensar SS20 Geogrid over exterior decking, fixed with stainless steel staples
- g** 4.5mm Hardiflex with PVC jointers
- h1** CHH 9mm Ecoply BD grade untreated ply over 1 layer 10mm Gib Fyrelite, with ply finished with Fireshield IFR clear intumescent coating
- h2** CHH 9mm Ecoply BD grade untreated ply over 1 layers 16mm Gib Fyrelite, with ply finished with Fireshield IFR clear intumescent coating
- i** 1 layer 16mm Gib Fyrelite

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Client:
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Project Name: _____ Project No: **1772**

Mintaro Hut
Milford Track Fiordland National Park

Detailed Design

Drawing Name:
Deck / Floor Edge Details

Revisions		
A	Detail Design	14/06/2019

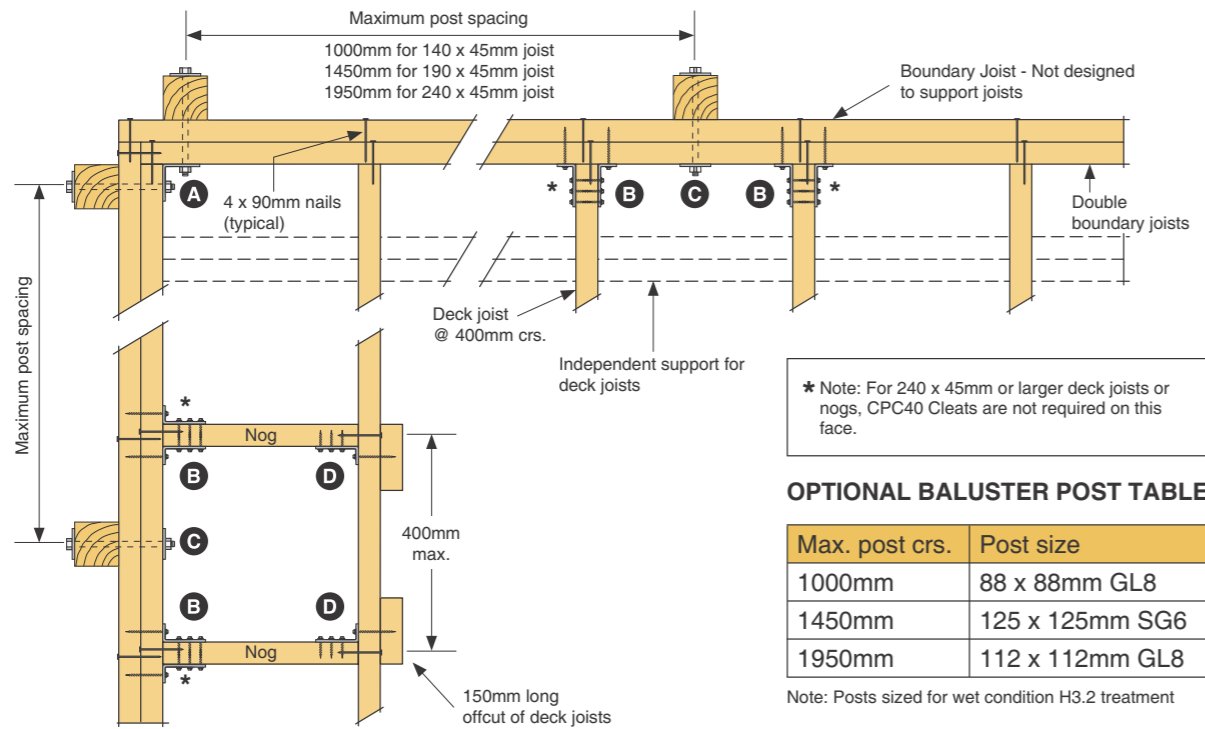
Scale @ A3: **1:10**

Drawing No: **34** Revision: **A**

FACE FIXED BALUSTER POSTS



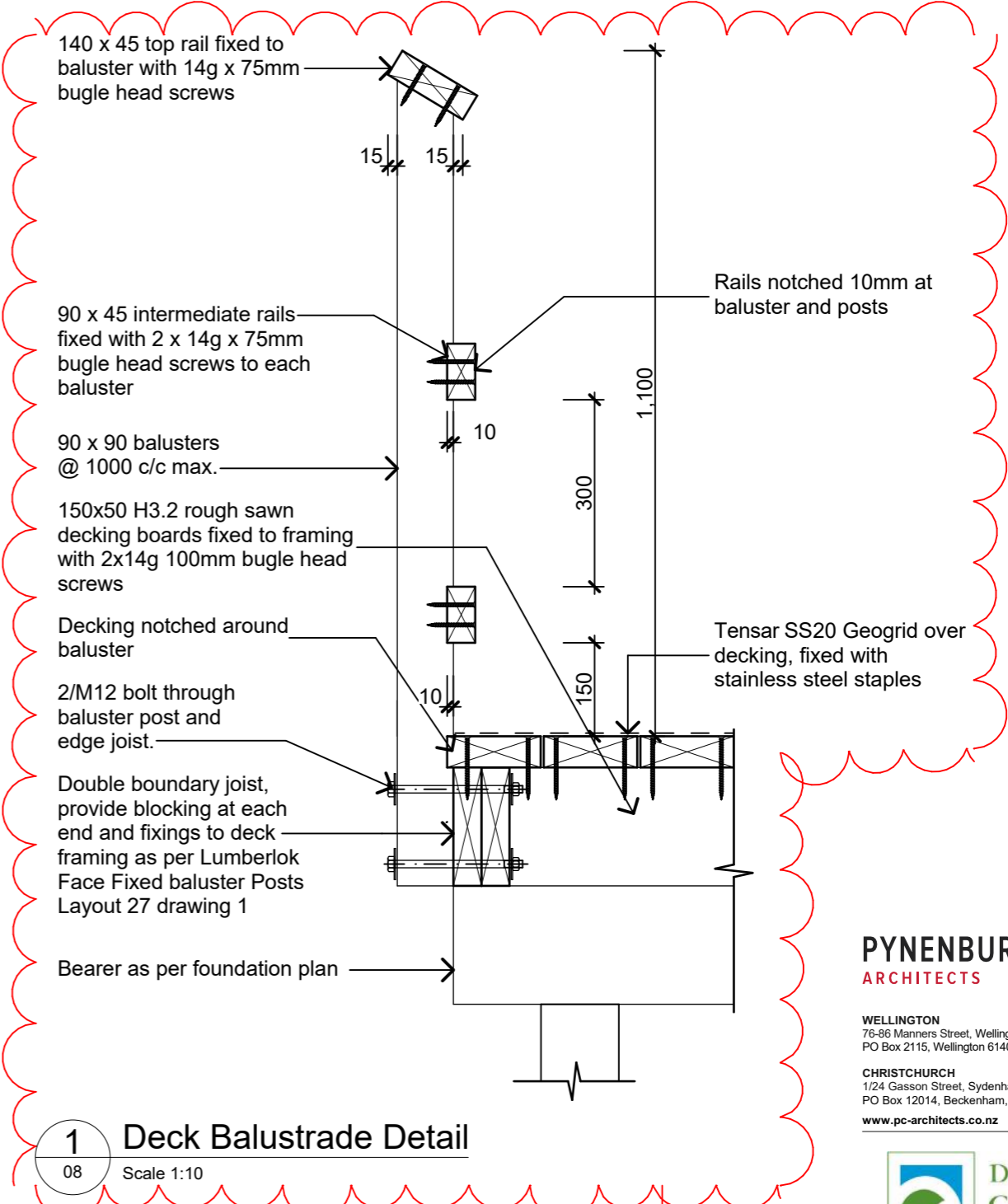
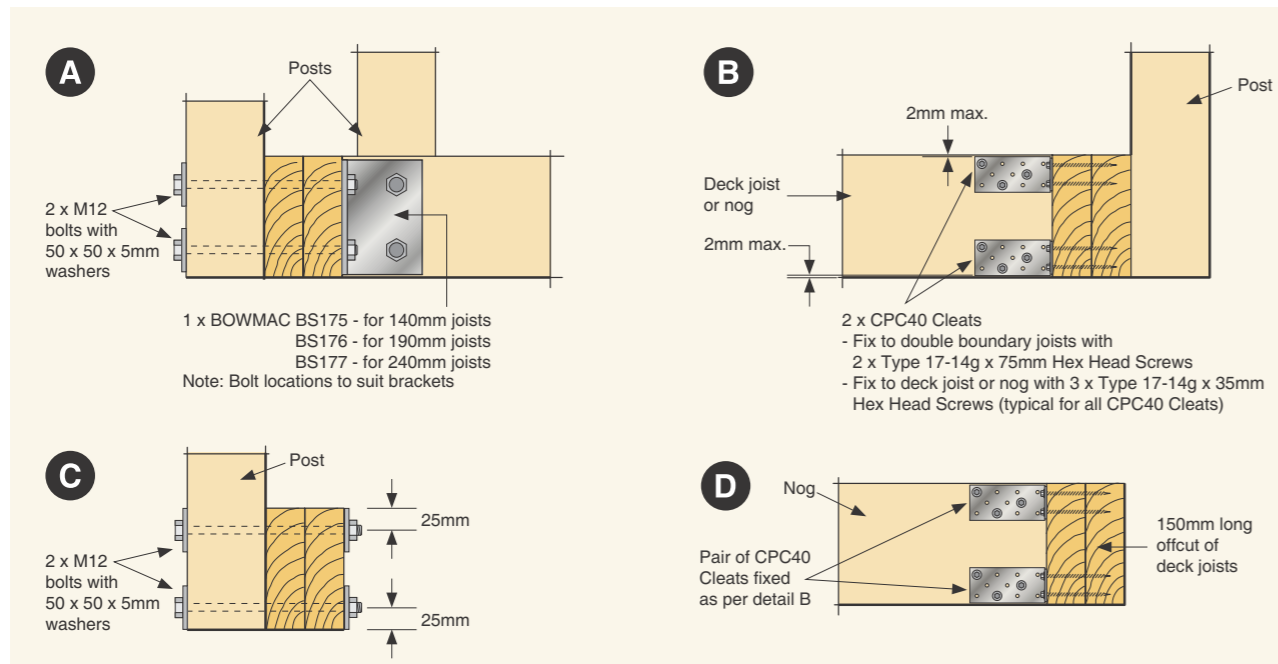
- Complies with Table 3.3 AS/NZS 1170.1:2002 for horizontal load of 0.75kN/m on handrail
- All fixings are designed to provide adequate rotational stability to the handrail system to resist the horizontal load at top of baluster post
- Assumes an approved post and balustrade system is used



OPTIONAL BALUSTER POST TABLE

Max. post crs.	Post size
1000mm	88 x 88mm GL8
1450mm	125 x 125mm SG6
1950mm	112 x 112mm GL8

Note: Posts sized for wet condition H3.2 treatment



1 Deck Balustrade Detail

08 Scale 1:10

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Project Name: Milfard Track Fiordland National Park Project No: 1772

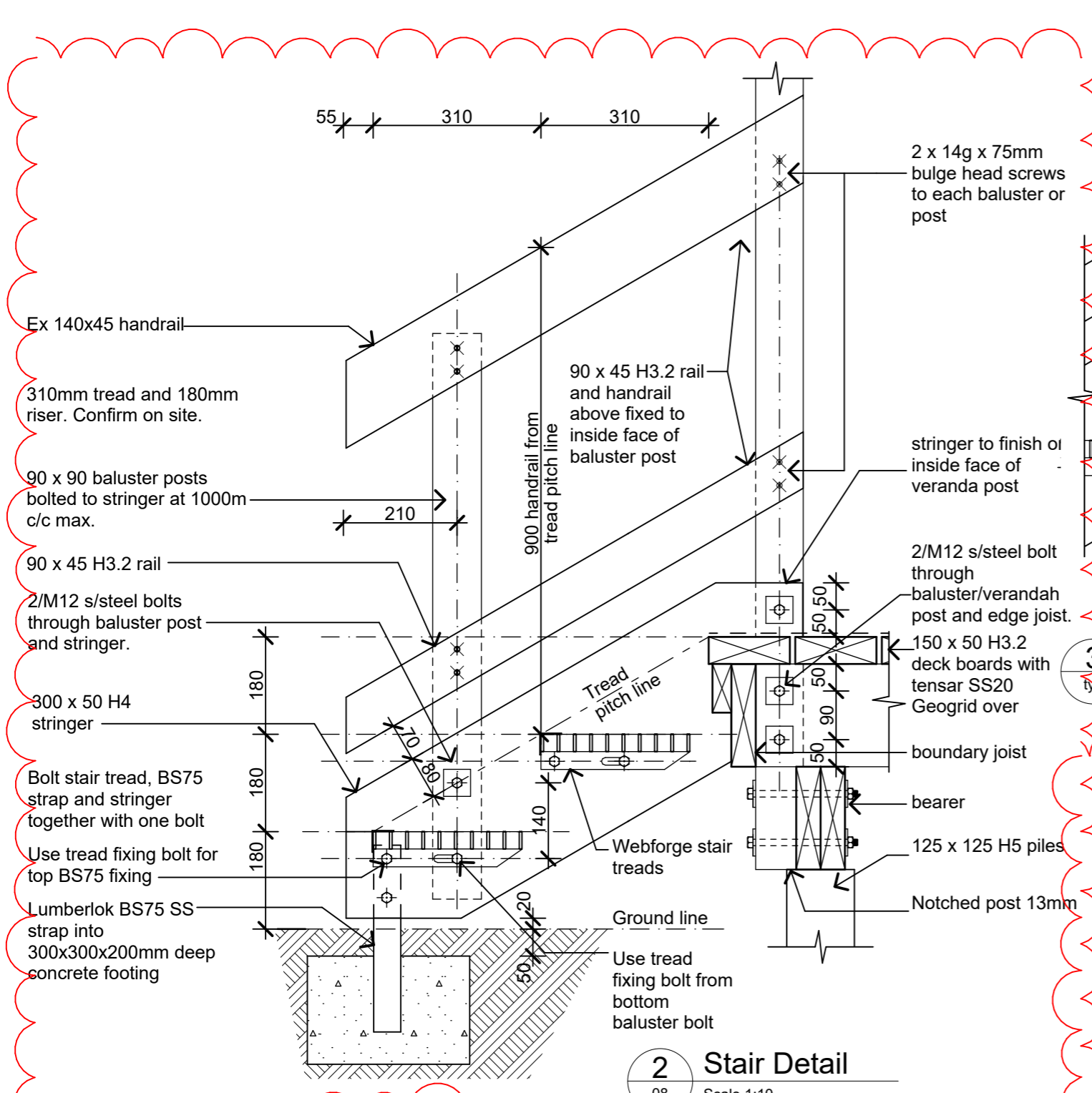
Detailed Design

Drawing Name: Deck Details

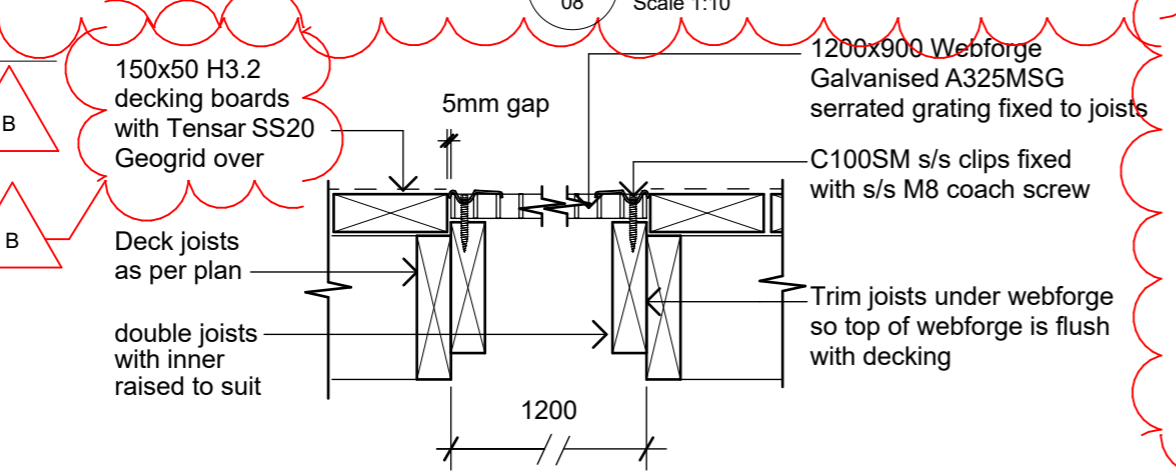
Revisions		
B	Structure & Details	6/09/2019
A	Detail Design	14/06/2019

Scale @ A3: 1:10, 1:10.7078

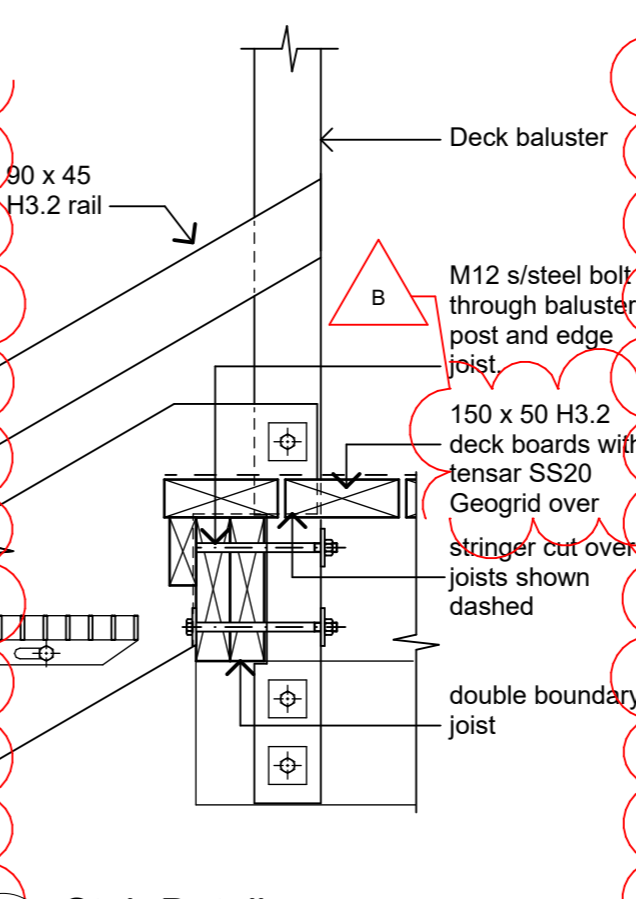
Drawing No: 35 Revision: B



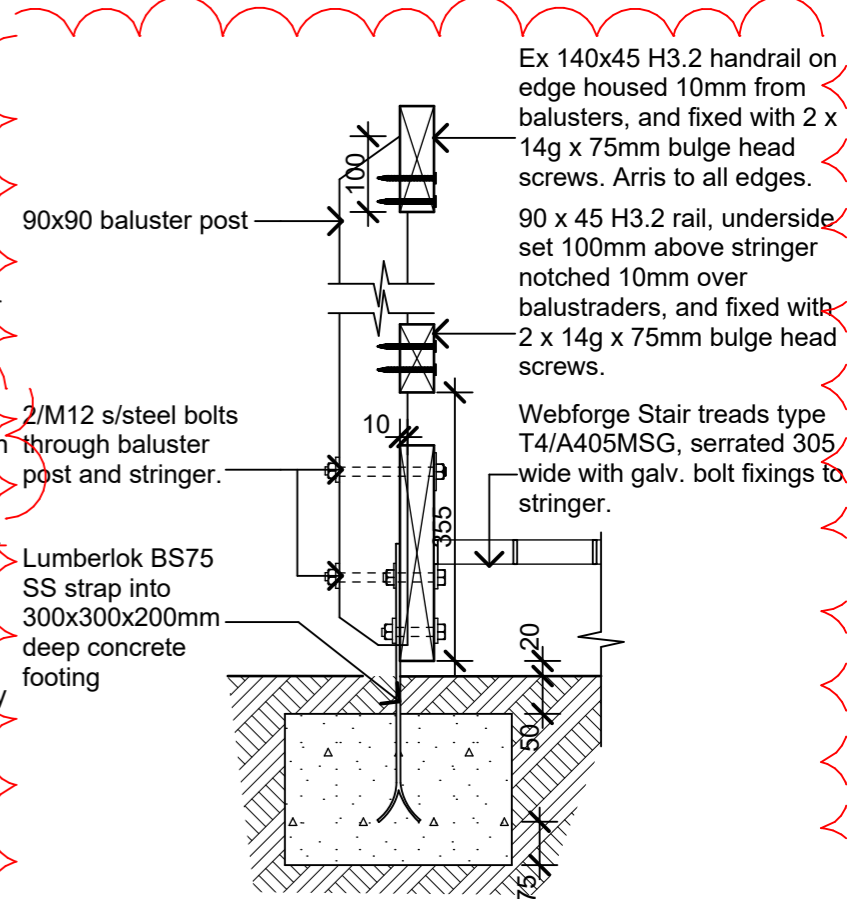
1 Stair Detail
08 Scale 1:10



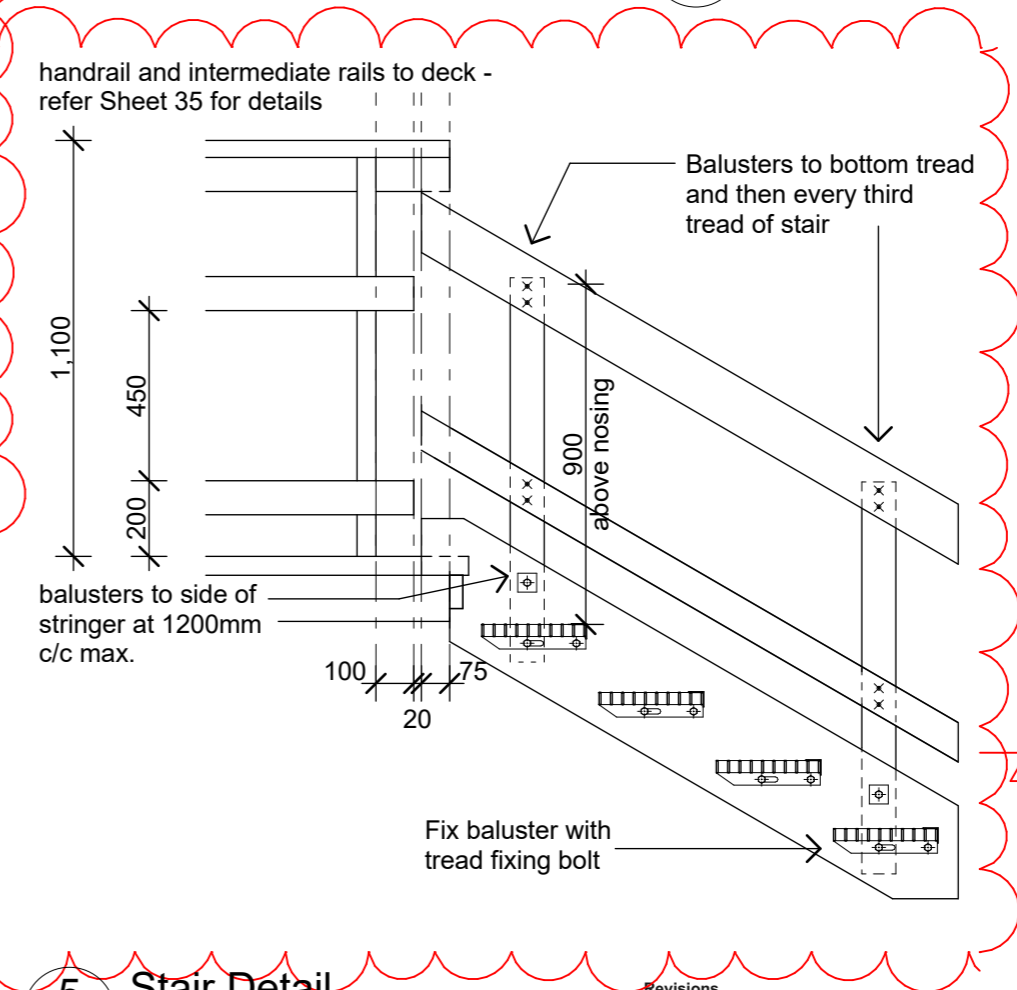
2 Stair Detail
08 Scale 1:10



3 Stair Detail
typ Scale 1:10



4 Stair Detail
typ Scale 1:10



5 Stair Detail
typ Scale 1:20

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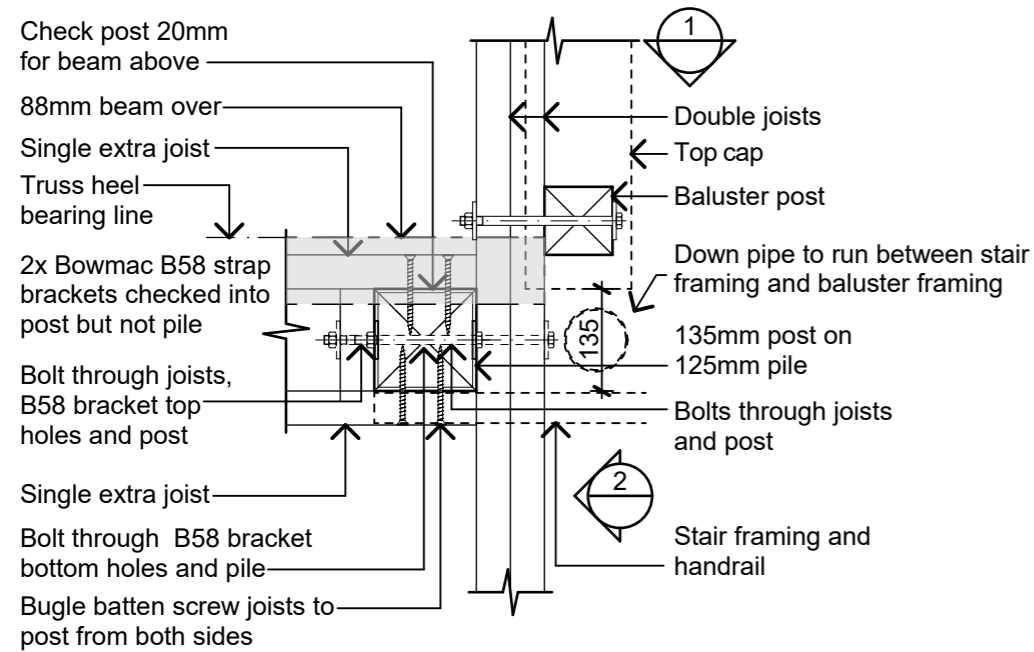
Project Name: **Mintaro Hut** Project No: **1772**
Milford Track Fiordland National Park

Detailed Design
Drawing Name:
Deck and Stair Details

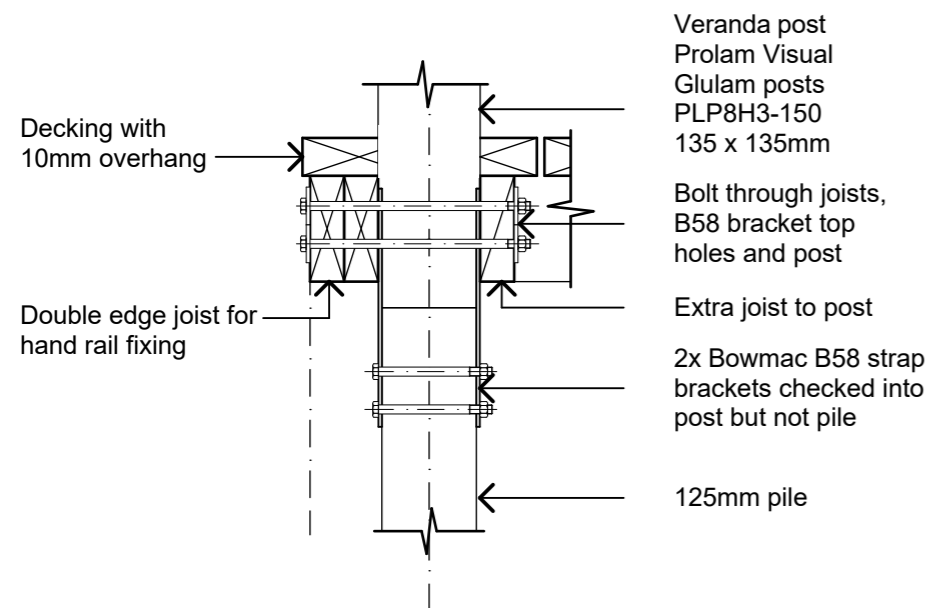
Revisions		
B	Structure & Details	6/09/2019
A	Detail Design	14/06/2019

Scale @ A3: **1:10, 1:20**

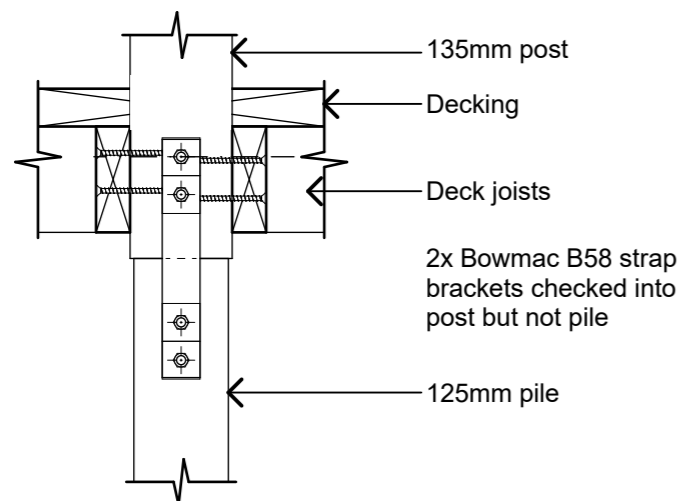
Drawing No: **36** Revision: **B**



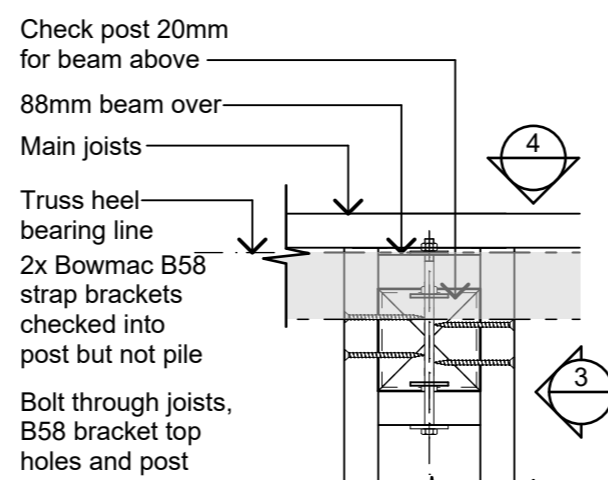
Plan



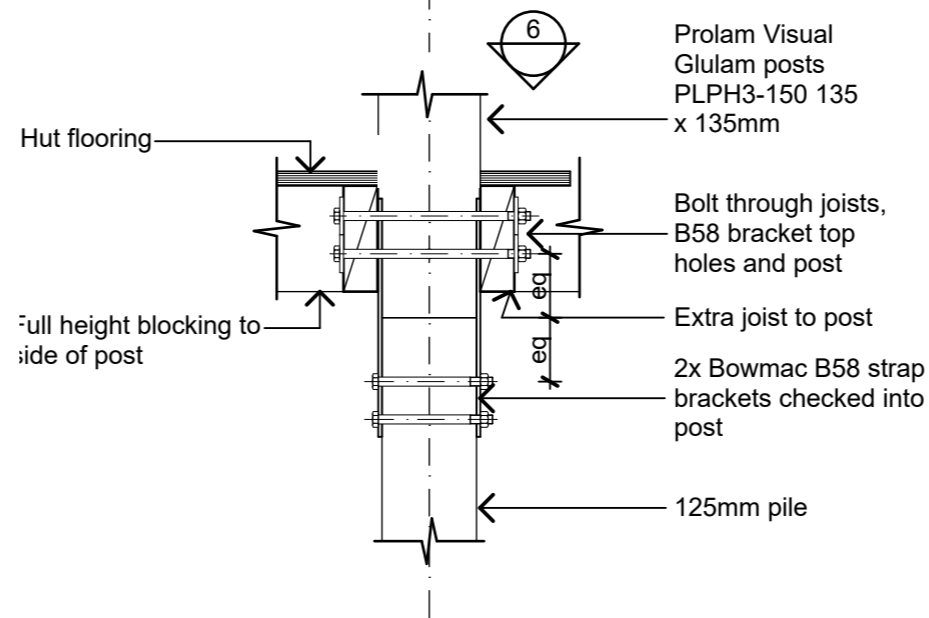
1. Balustrade edge



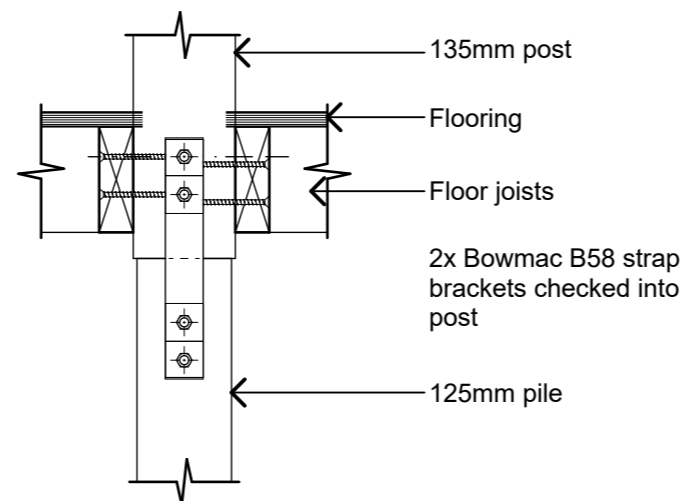
2. Strap fixings



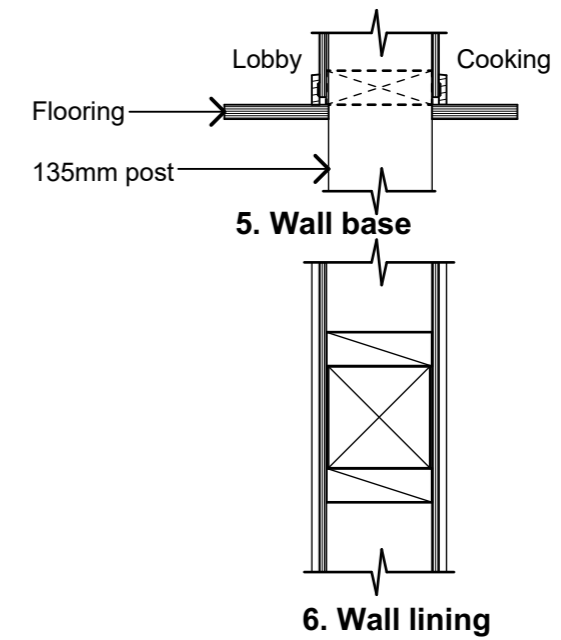
Plan



3. North South



4. Strap fixings



1 Hut Deck Post East Connection

07 Scale 1:10

2 Cooking Post Connection

07 Scale 1:10

Revisions		
A	Detail Design	14/06/2019

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Client:
Department of Conservation

Project Name: Project No: 1772

Mintaro Hut
Milford Track Fiordland National Park

Detailed Design

Drawing Name:

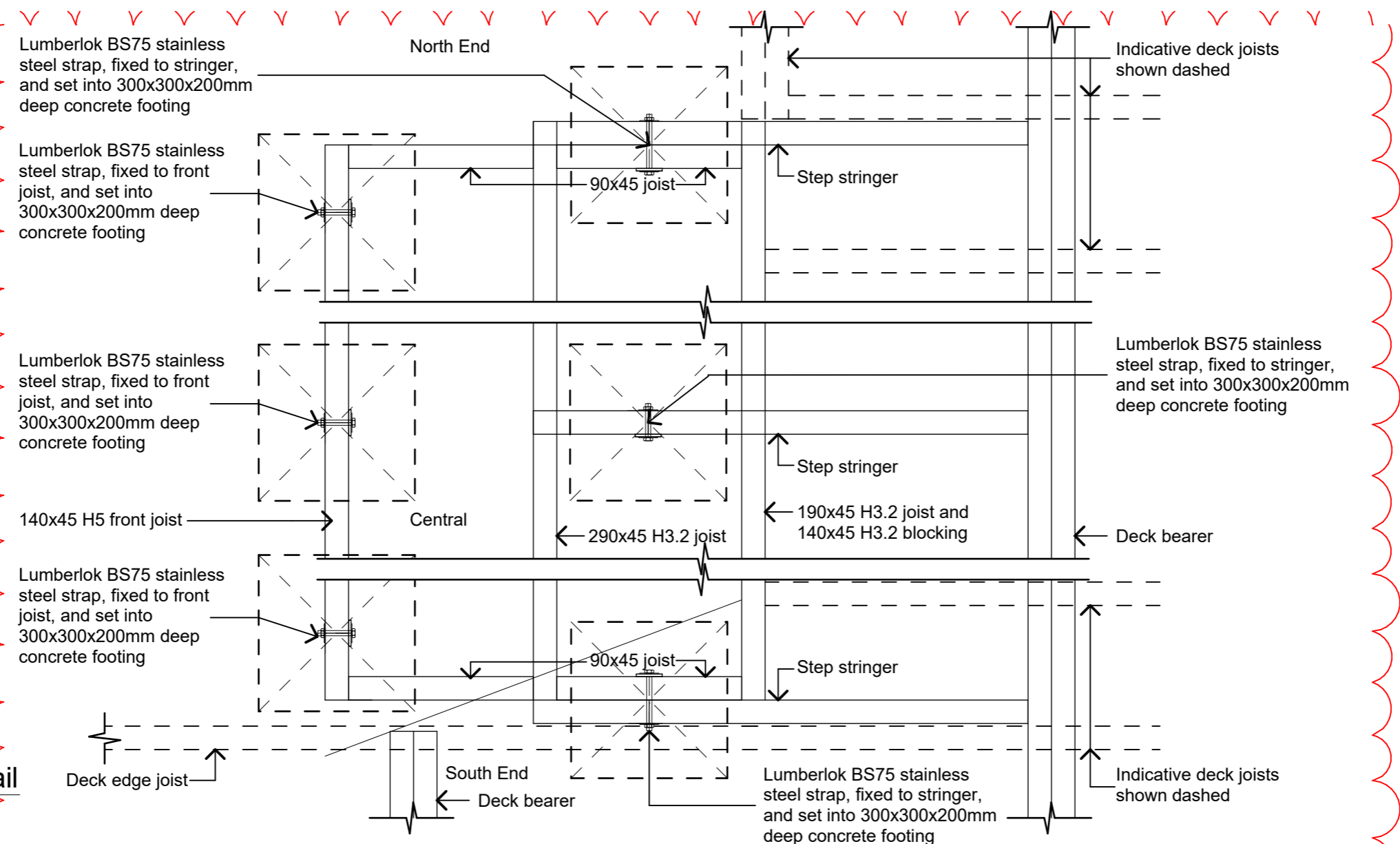
Post Connections

Scale @ A3: 1:10

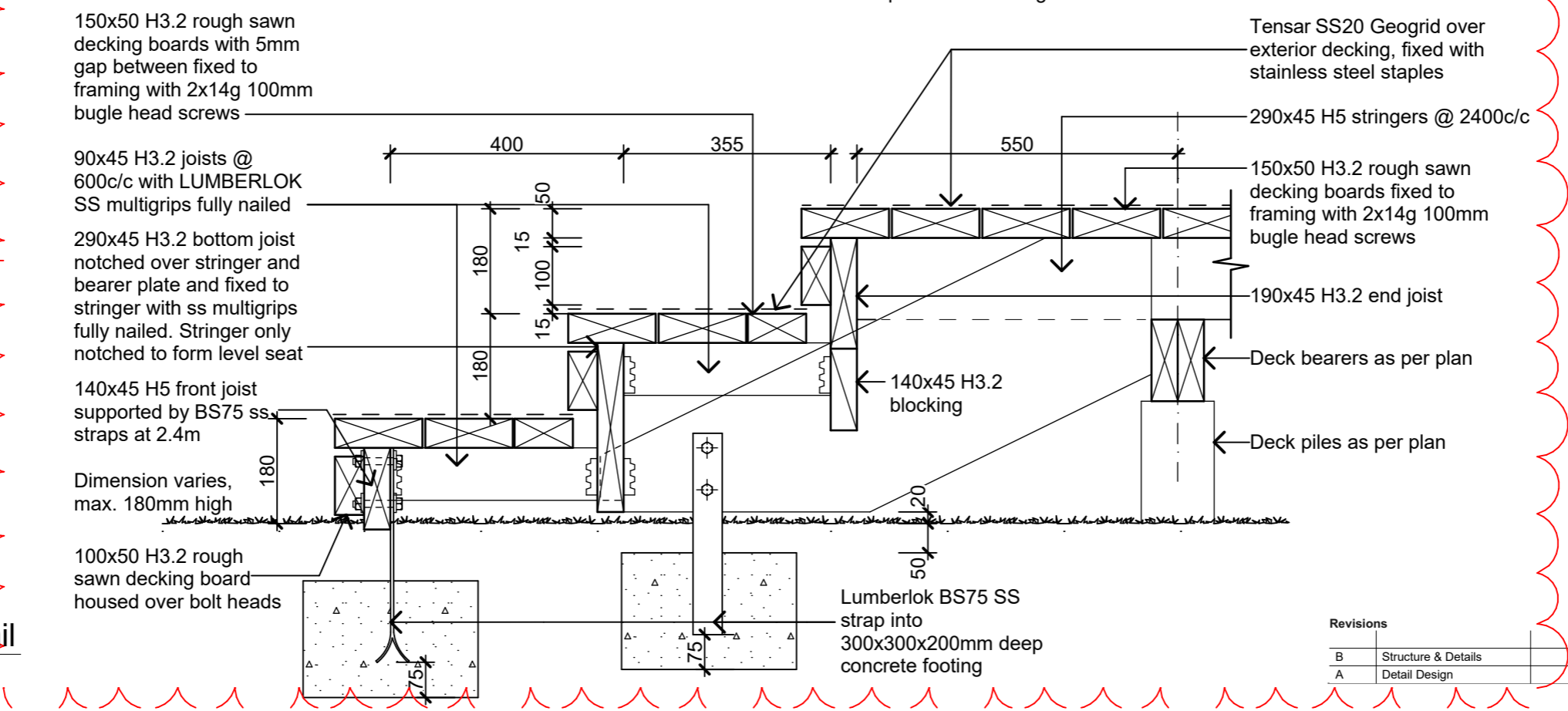
Drawing No: Revision:

37 A

2 Terrace Step Detail
06 Scale 1:10



1 Terrace Step Detail
06 Scale 1:10



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Client:
Department of Conservation

Project Name: **Mintaro Hut** Project No: **1772**
Milford Track Fiordland National Park

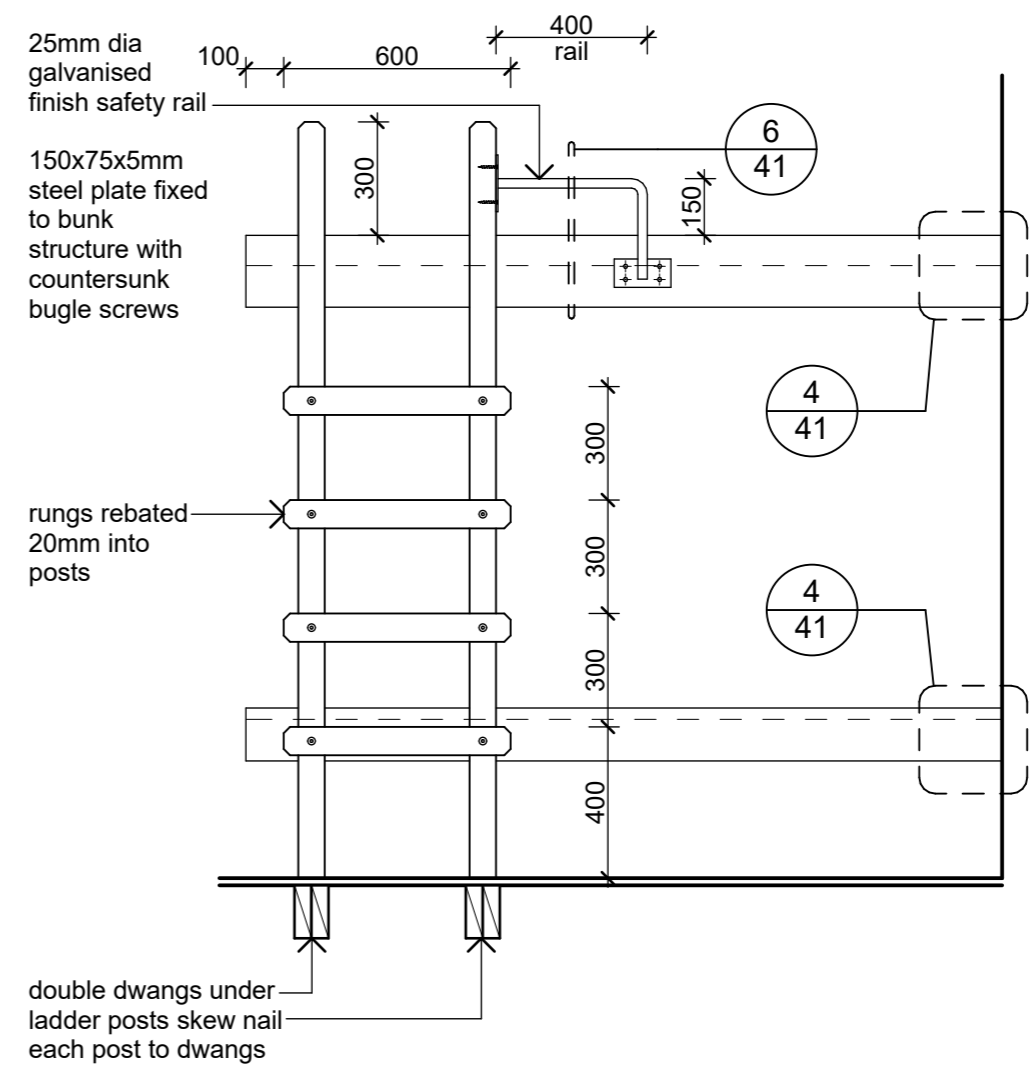
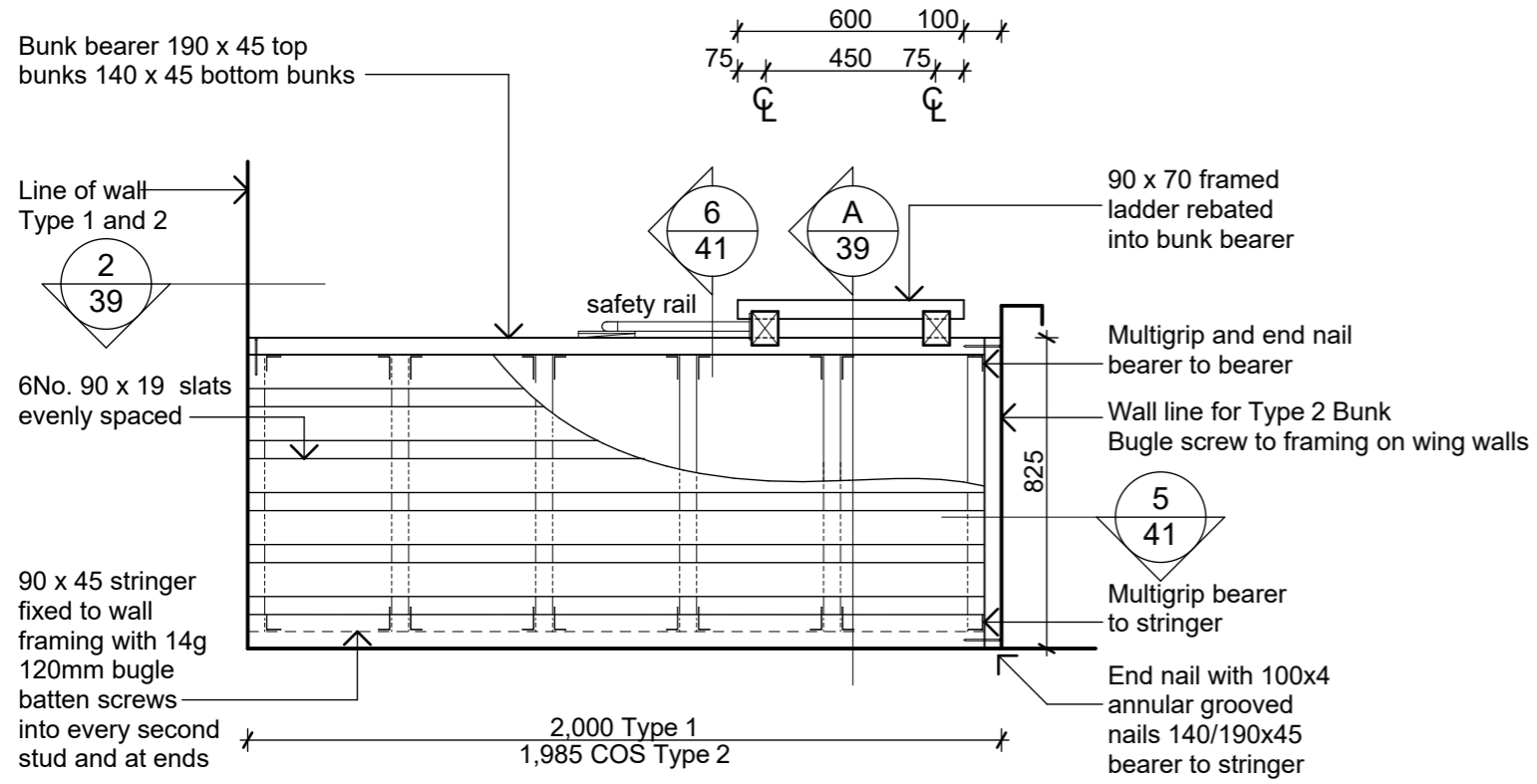
Detailed Design

Drawing Name:
Terraced Steps Details

Revisions		
B	Structure & Details	6/09/2019
A	Detail Design	14/06/2019

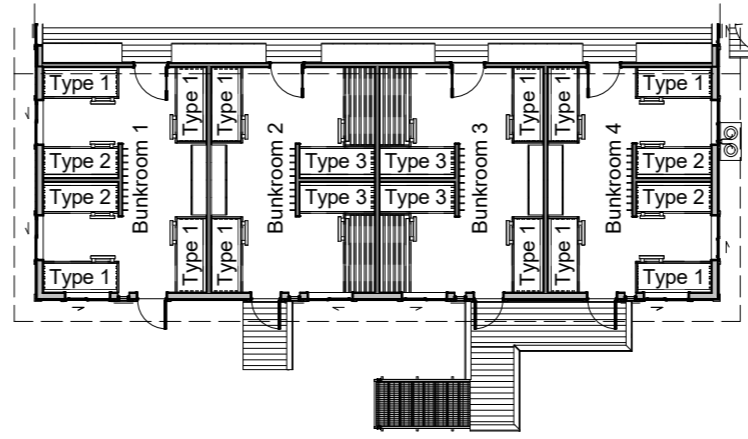
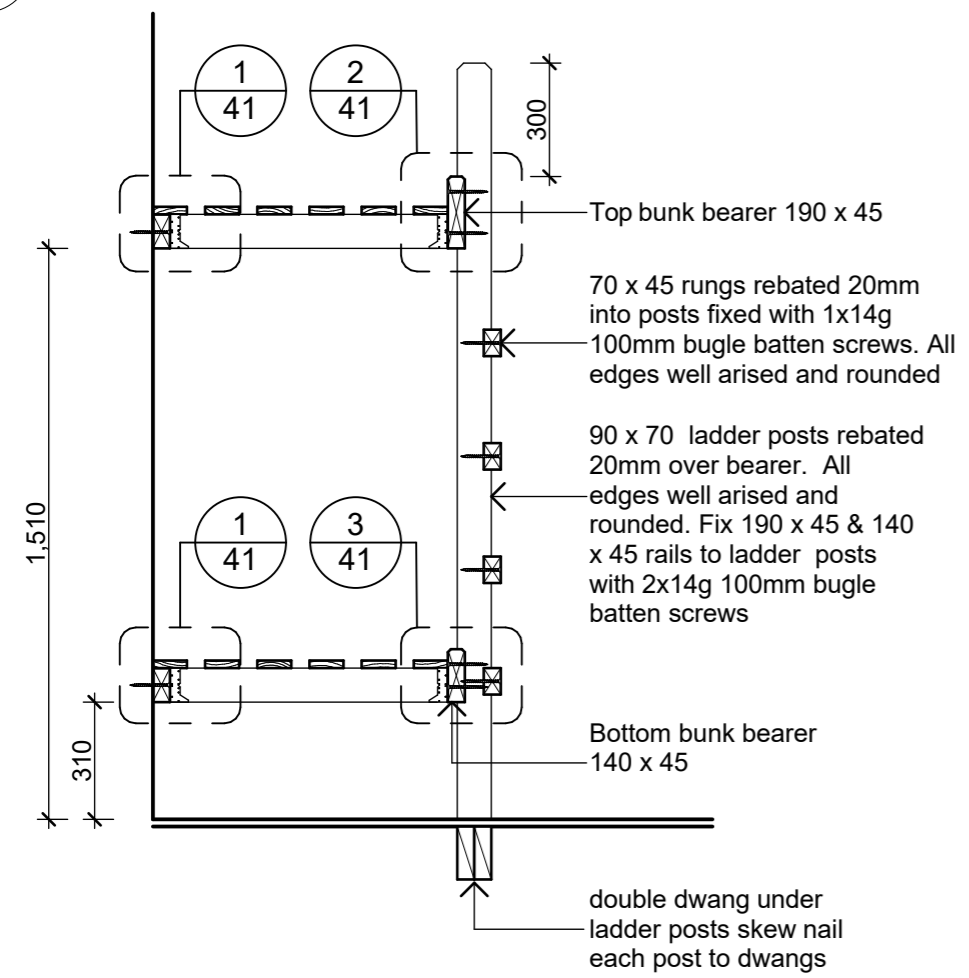
Scale @ A3: **1:10**

Drawing No: **38** Revision: **B**



1 Individual Bunk Plan Type 1 (Type 2 sim)
Scale 1:20

2 Individual Bunk Elevation Type 1 (Type 2 sim)
Scale 1:20



A Typical Individual Bunk Section
Scale 1:20

3 Bunks Plan
Scale 1:200

NOTE:
All timber framing to bunks shall
be untreated Radiata clears D4S

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Client:
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Project Name: **Mintaro Hut**
Project No: **1772**

Milford Track Fiordland National Park

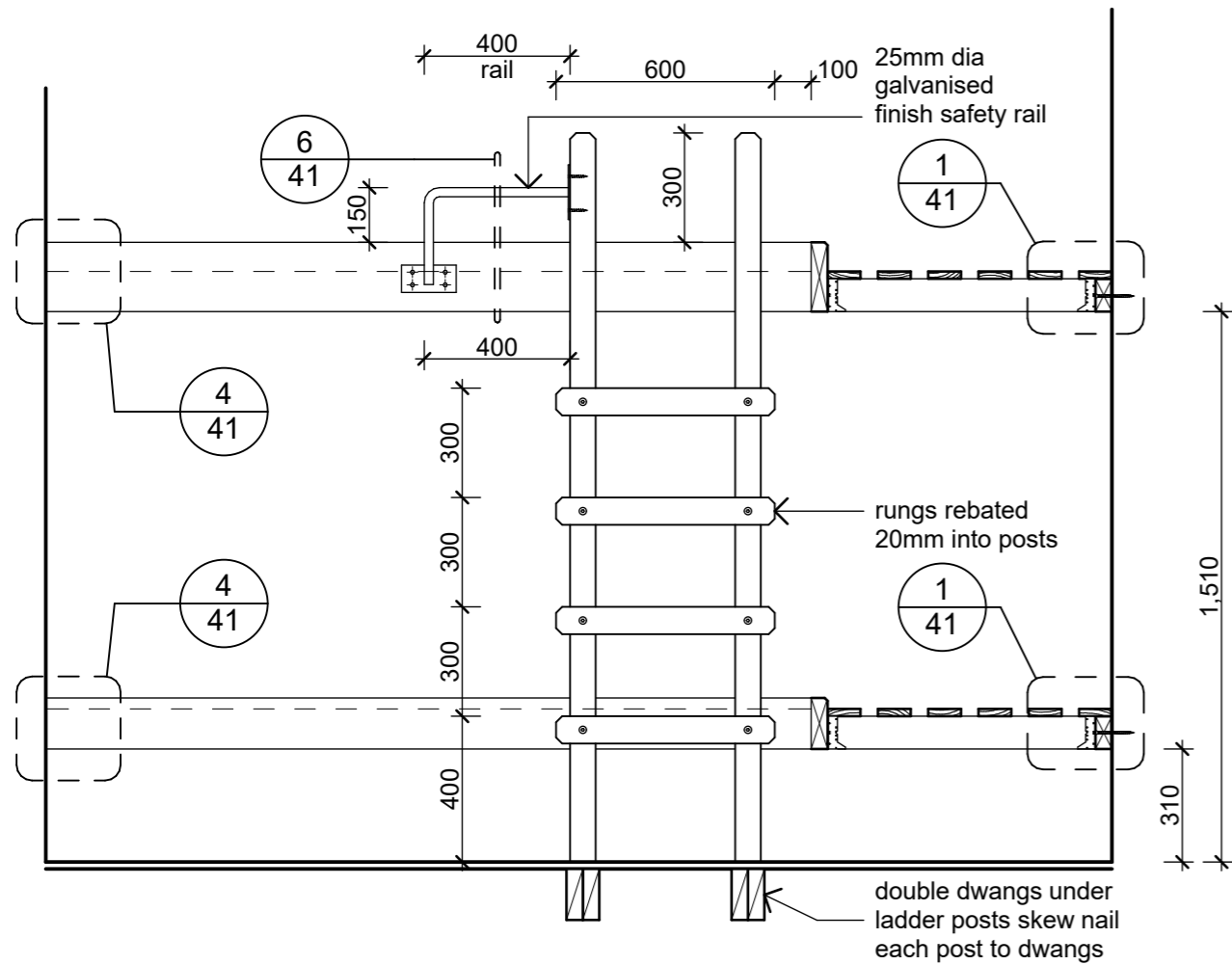
Detailed Design

Drawing Name:
Individual Bunk Type 1 and 2

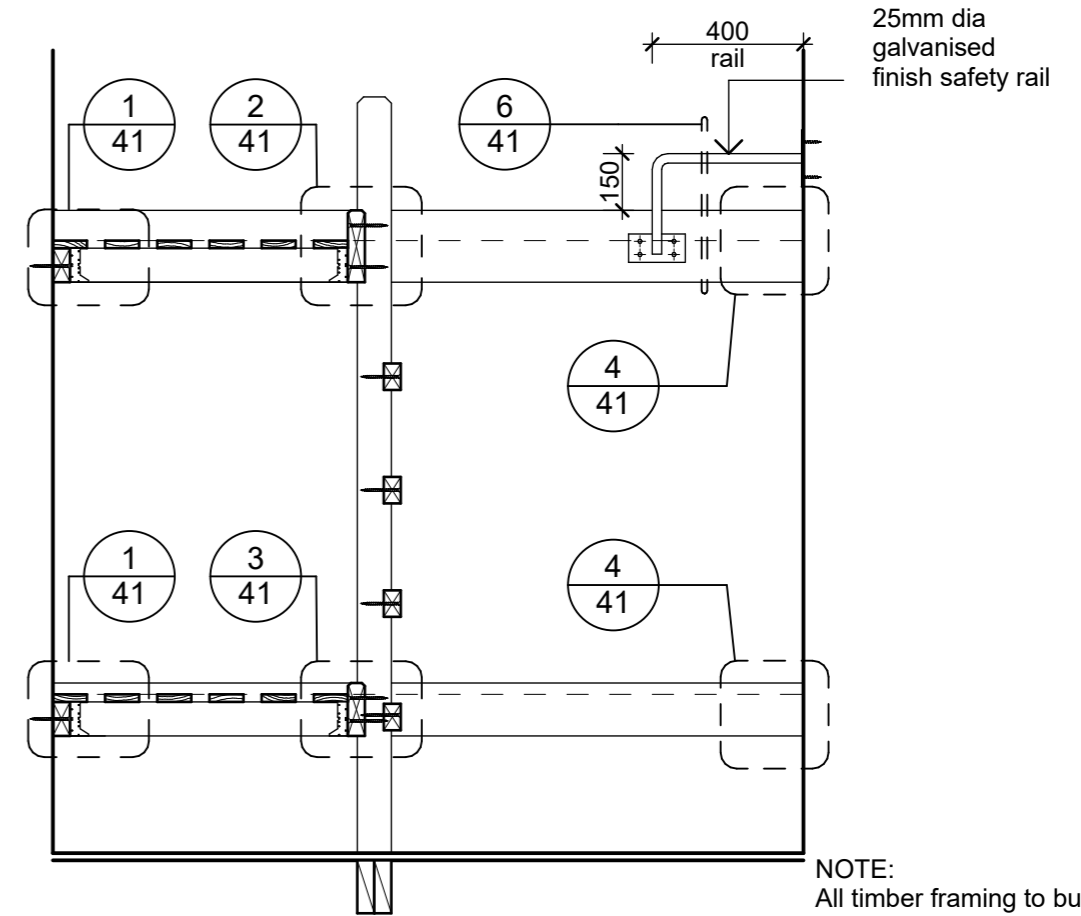
Revisions		
A	Detail Design	14/06/2019

Scale @ A3: **1:20, 1:200**

Drawing No: **39** Revision: **A**

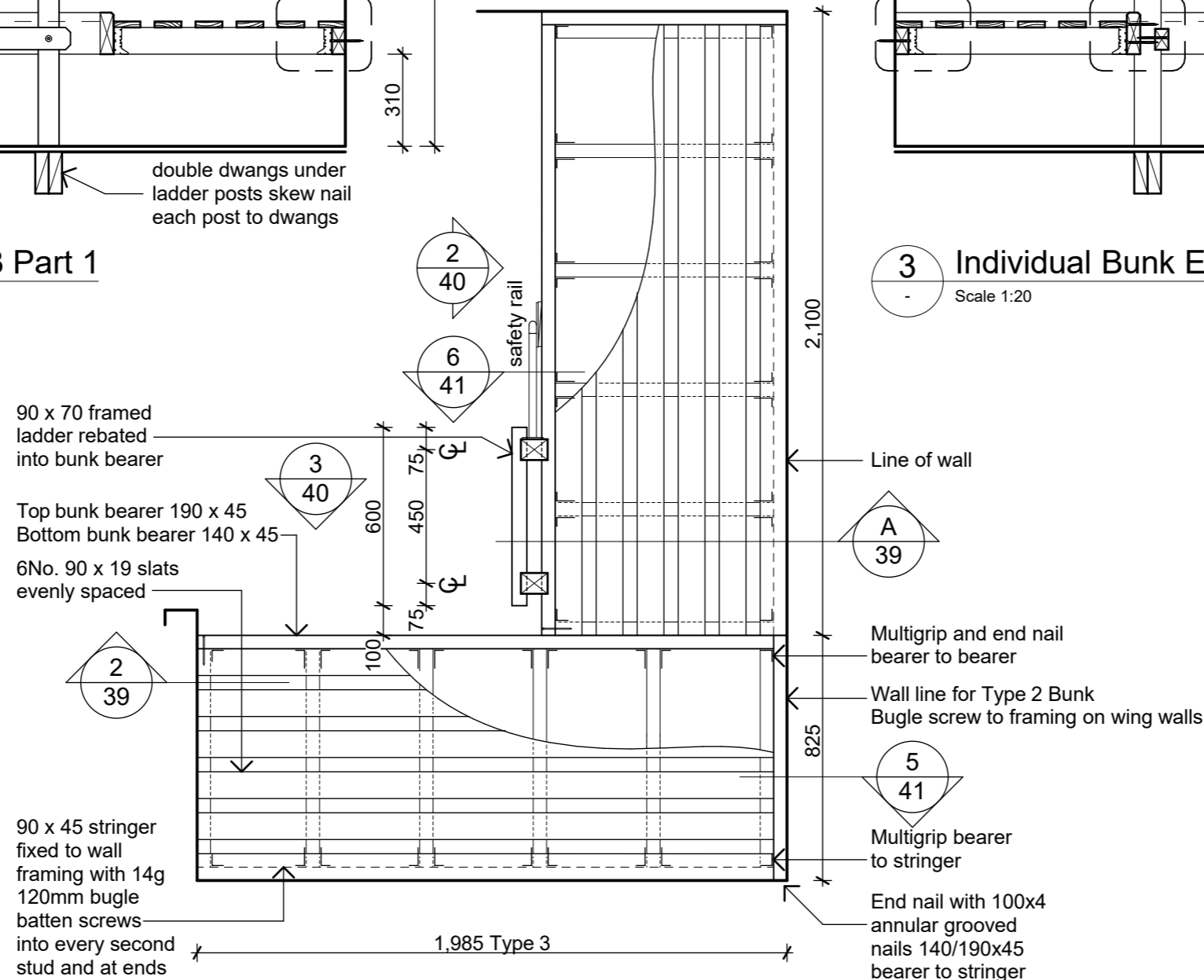


2 Individual Bunk Elevation Type 3 Part 1
Scale 1:20



NOTE:
All timber framing to bunks shall be untreated Radiata clears D4S

3 Individual Bunk Elevation Type 3 Part 2
Scale 1:20



1 Individual Bunk Plan Type 3
Scale 1:20

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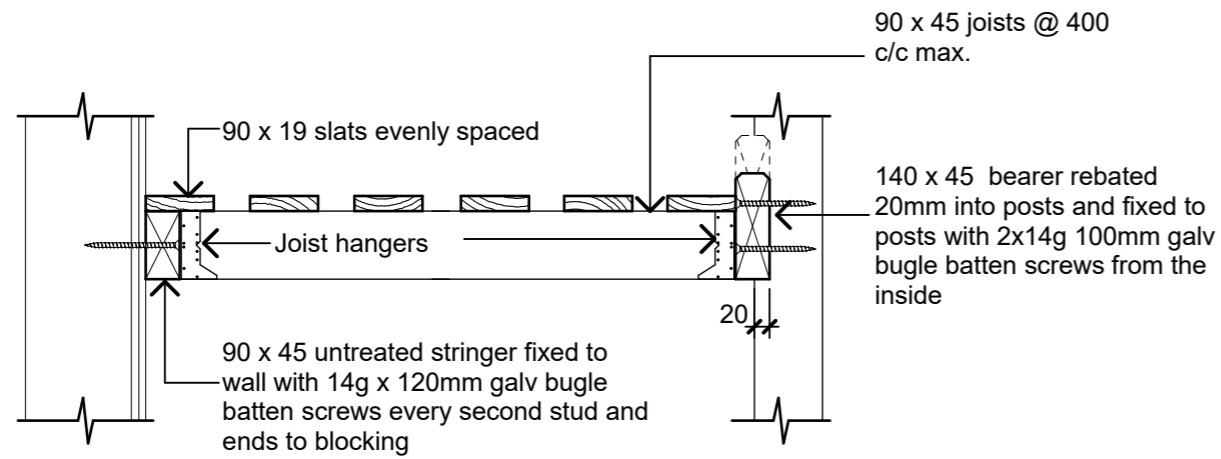


Client:
Department of Conservation
Project Name: **Mintaro Hut** Project No: **1772**
Milford Track Fiordland National Park

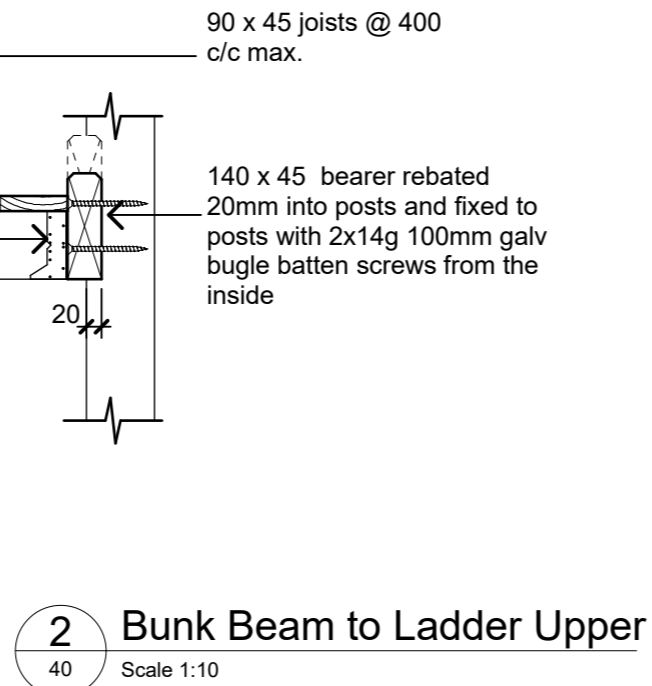
Detailed Design
Drawing Name:
Individual Bunk Type 3

Revisions		
A	Detail Design	14/06/2019

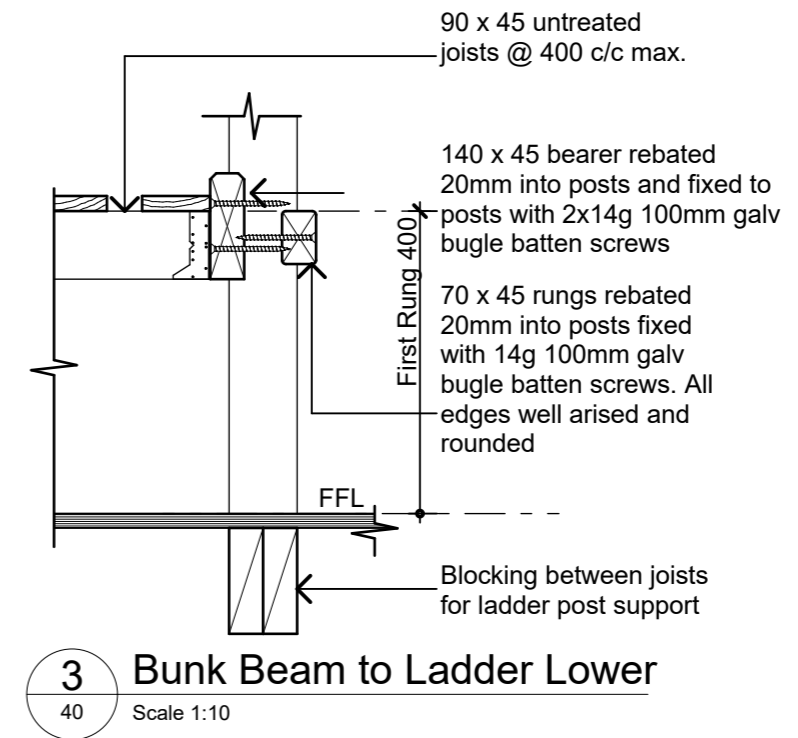
Scale @ A3: **1:20**
Drawing No: **40** Revision: **A**



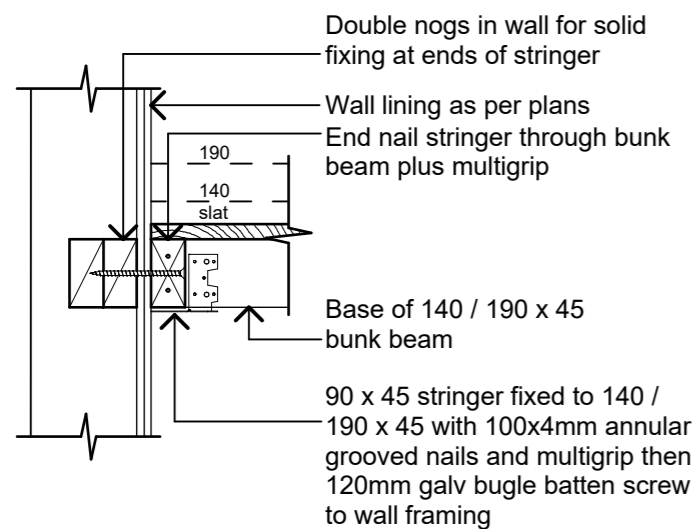
1 Stringer to Wall Connection
40 Scale 1:10



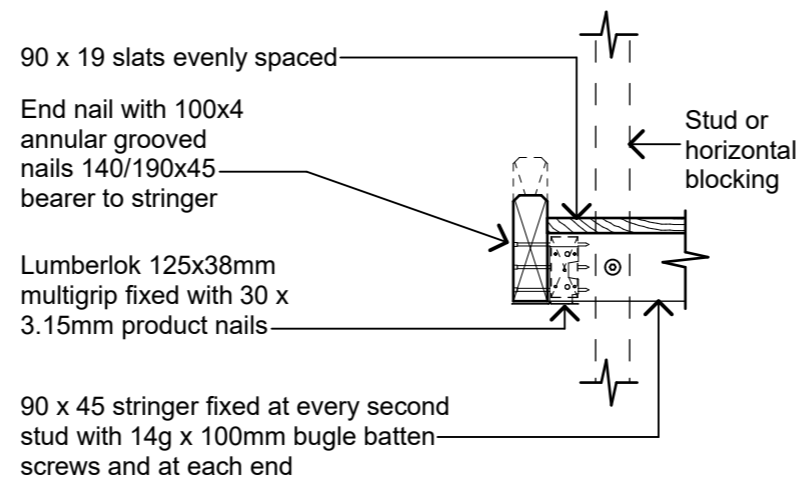
2 Bunk Beam to Ladder Upper
40 Scale 1:10



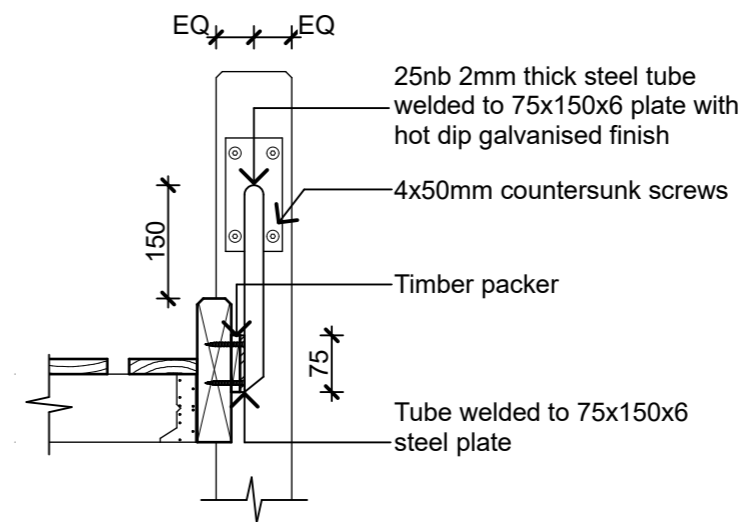
3 Bunk Beam to Ladder Lower
40 Scale 1:10



4 Stringer to Bearer Connection
40 Scale 1:10



5 Bunk Beam to Wall Detail
40 Scale 1:10



6 Safety Rail Connection
40 Scale 1:10

NOTE:
All timber framing to bunks shall be untreated Radiata clears D4S

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Client:
Department of Conservation

Project Name: Project No: 1772

Mintaro Hut
Milford Track Fiordland National Park

Detailed Design

Drawing Name:

Individual Bunk Details

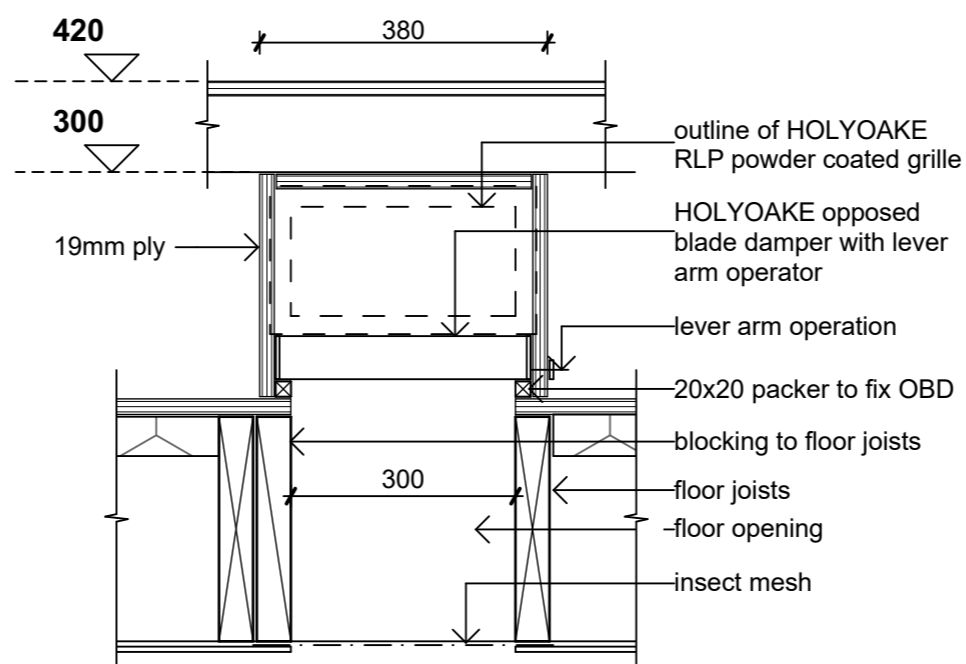
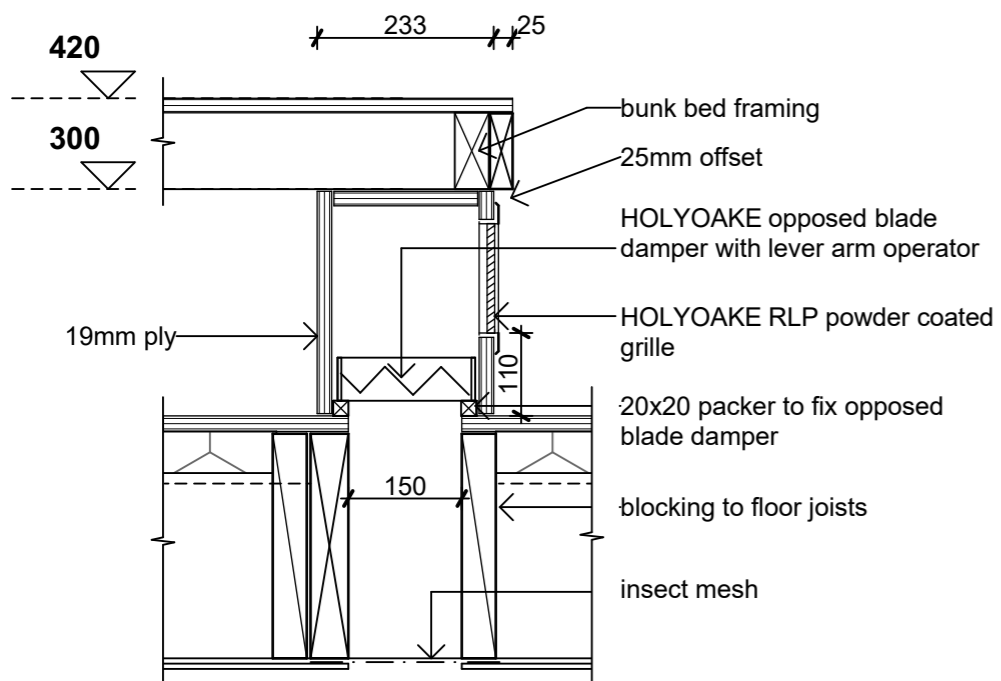
Revisions		
A	Detail Design	14/06/2019

Scale @ A3: 1:10

Drawing No: Revision:

41

A



1 Floor Ventilation Box Details
04 Scale 1:10

Revisions		
A	Detail Design	14/06/2019

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Client:
Department of Conservation

Project Name: **Mintaro Hut** Project No: **1772**

Milford Track Fiordland National Park

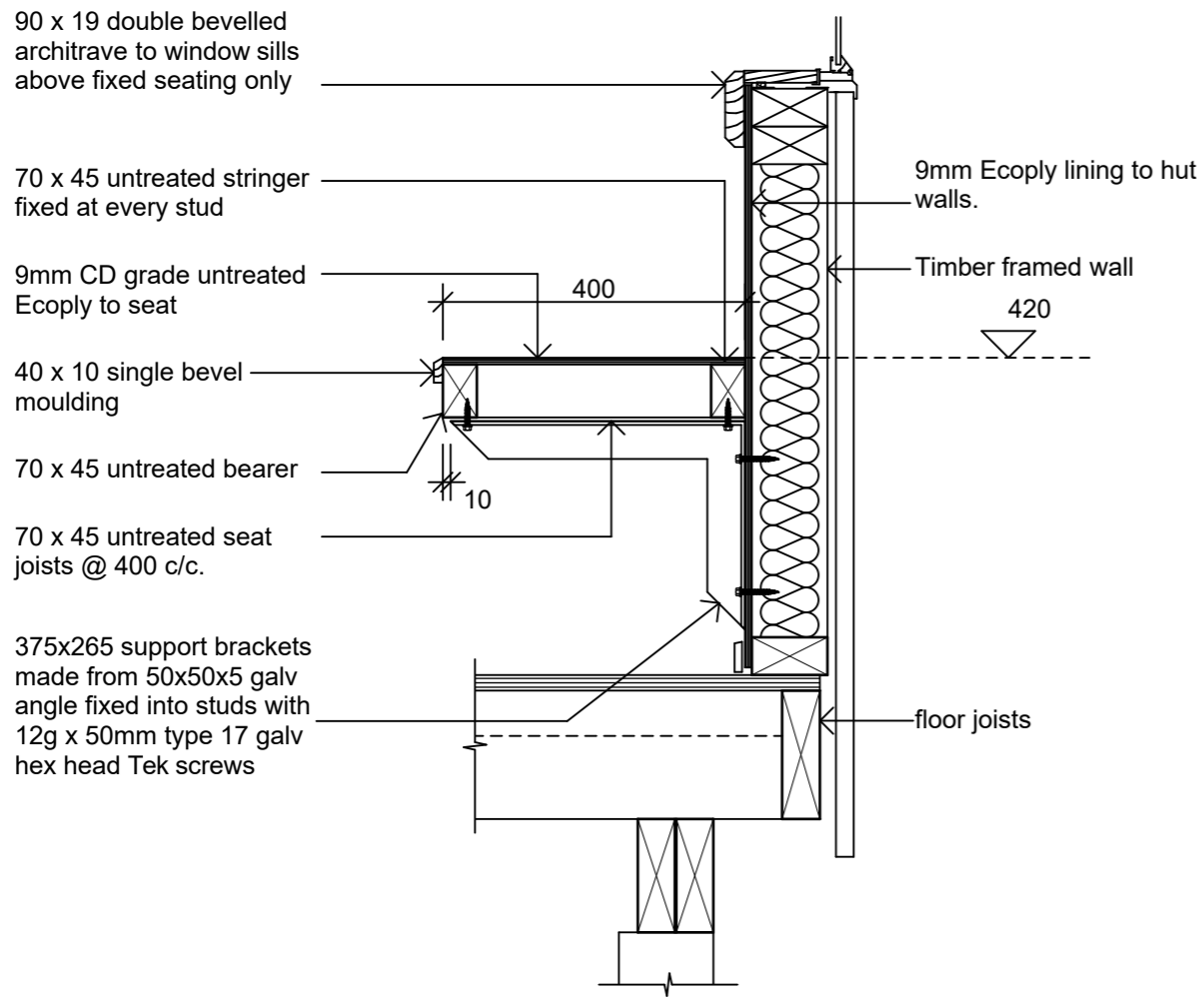
Detailed Design

Drawing Name:

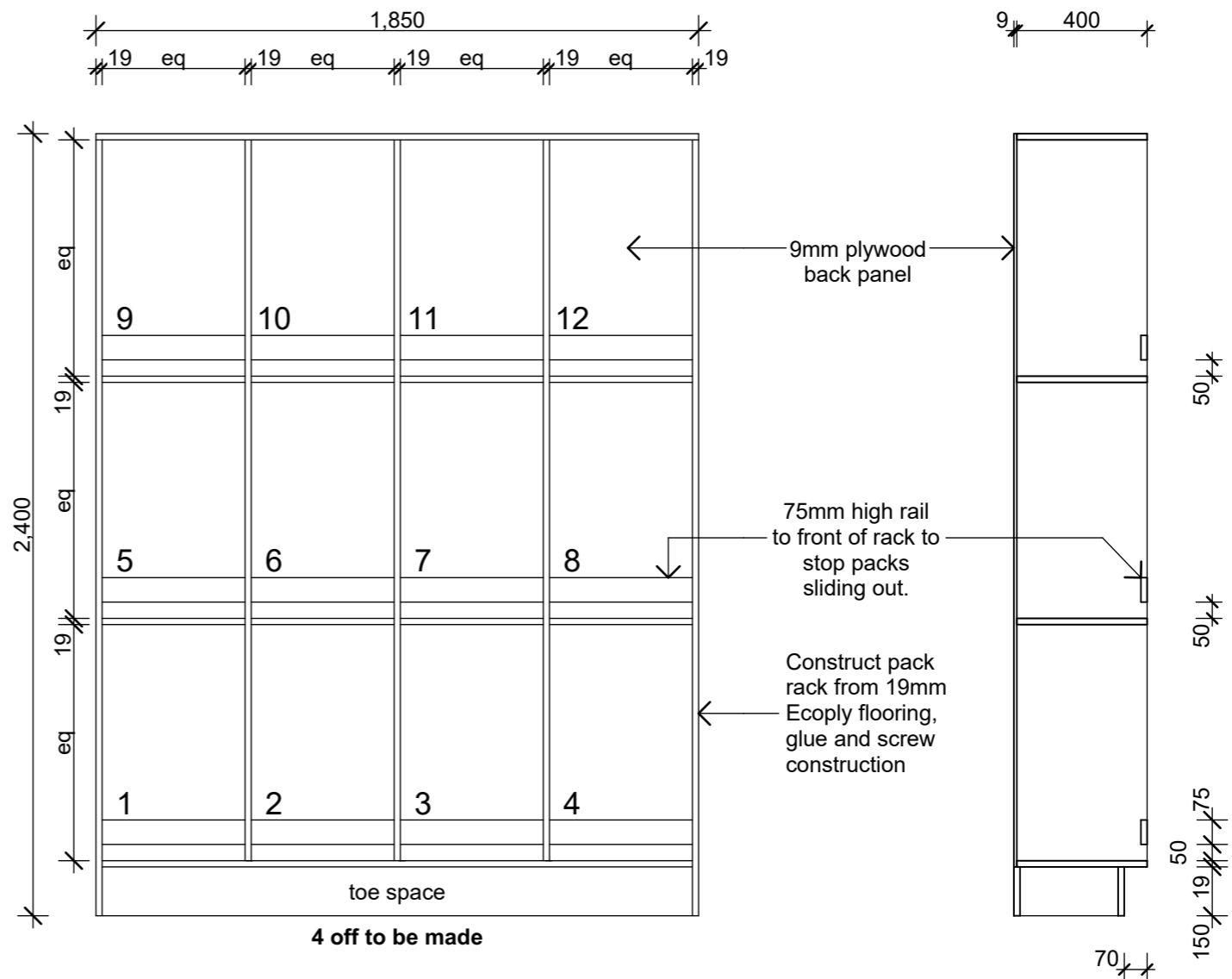
Floor Vents

Scale @ A3: **1:10**

Drawing No: **42** Revision: **A**



1 Interior Fixed Seating
Scale 1:10



2 Pack Rack Elevation
Scale 1:20

3 Pack Rack Section
Scale 1:20

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Client:
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Project Name: **Mintaro Hut**
Project No: **1772**

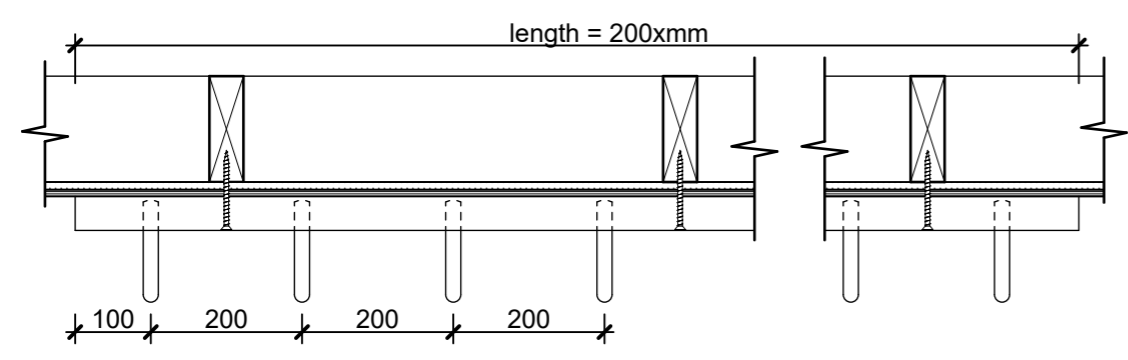
Milford Track Fiordland National Park

Detailed Design

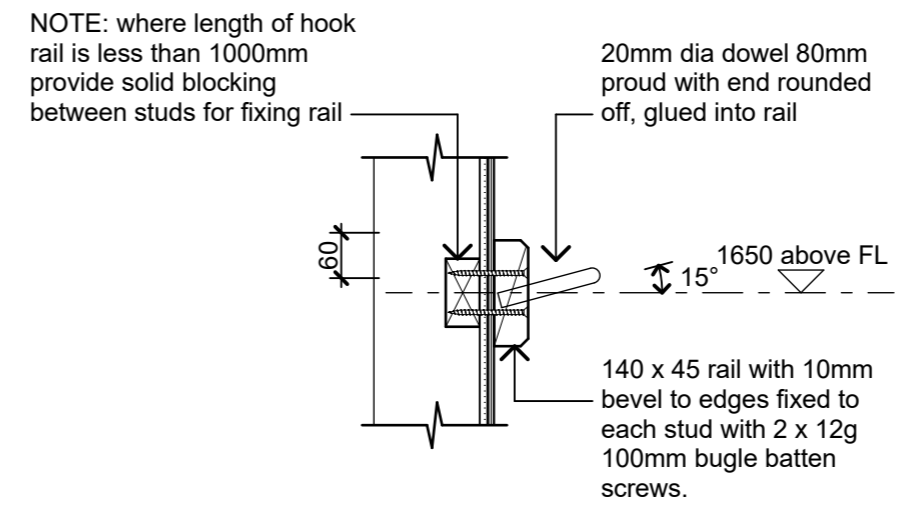
Drawing Name:
Fixed Seating Pack Rack Coat Hooks Details

Scale @ A3: **1:10, 1:20**

Drawing No: **43** Revision: **A**

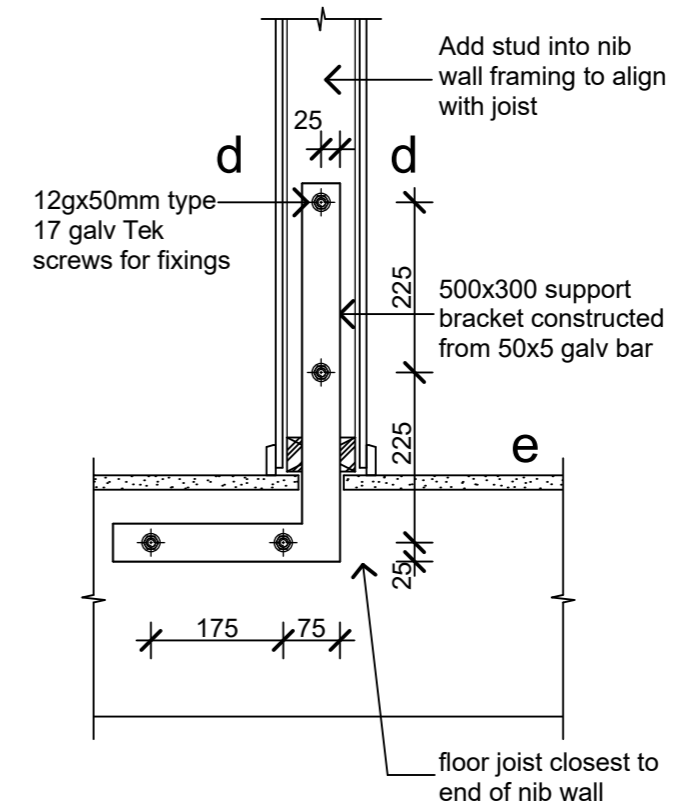
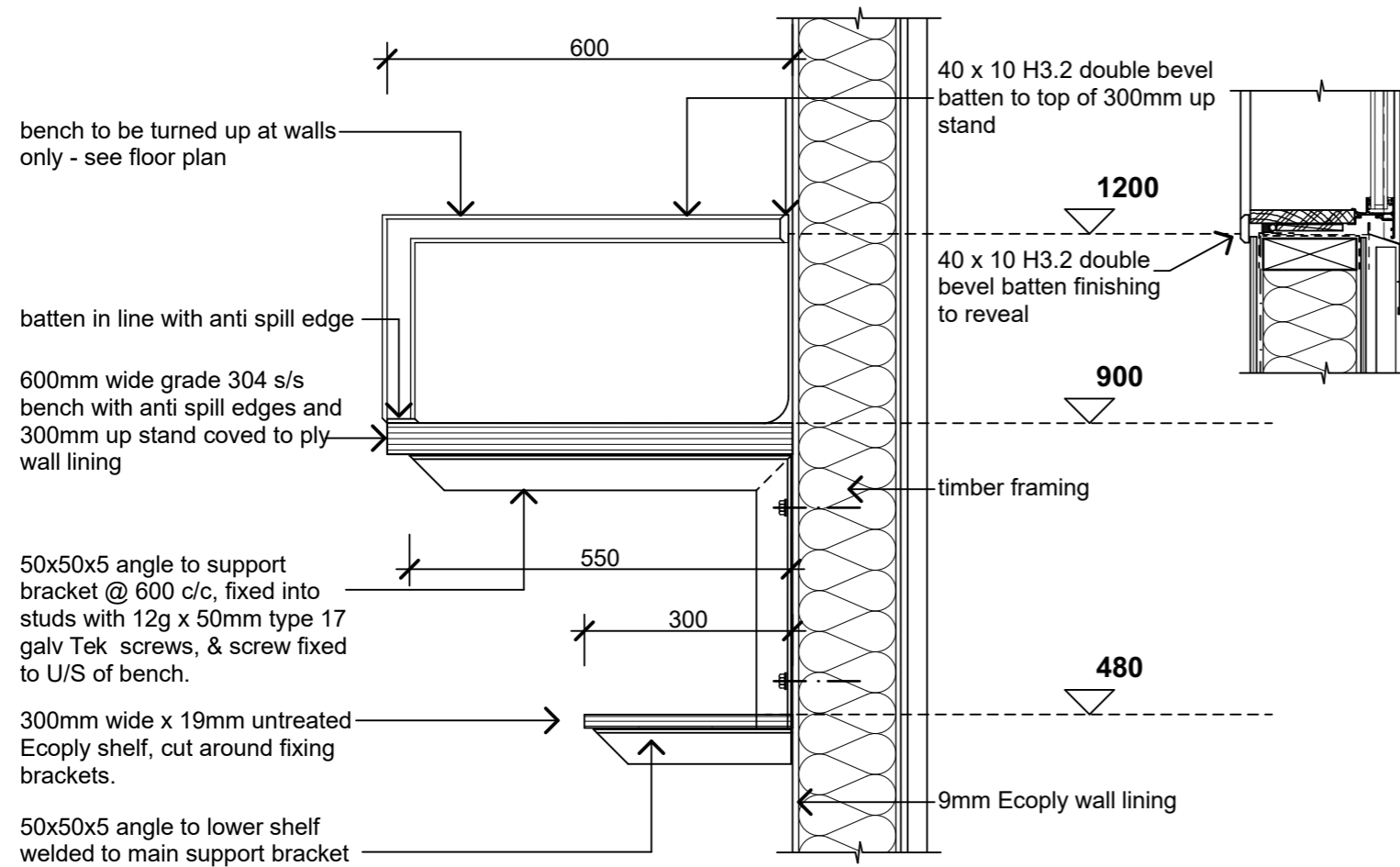


4 Coat Hooks - Plan
Scale 1:10



5 Coat Hooks -Section
Scale 1:10

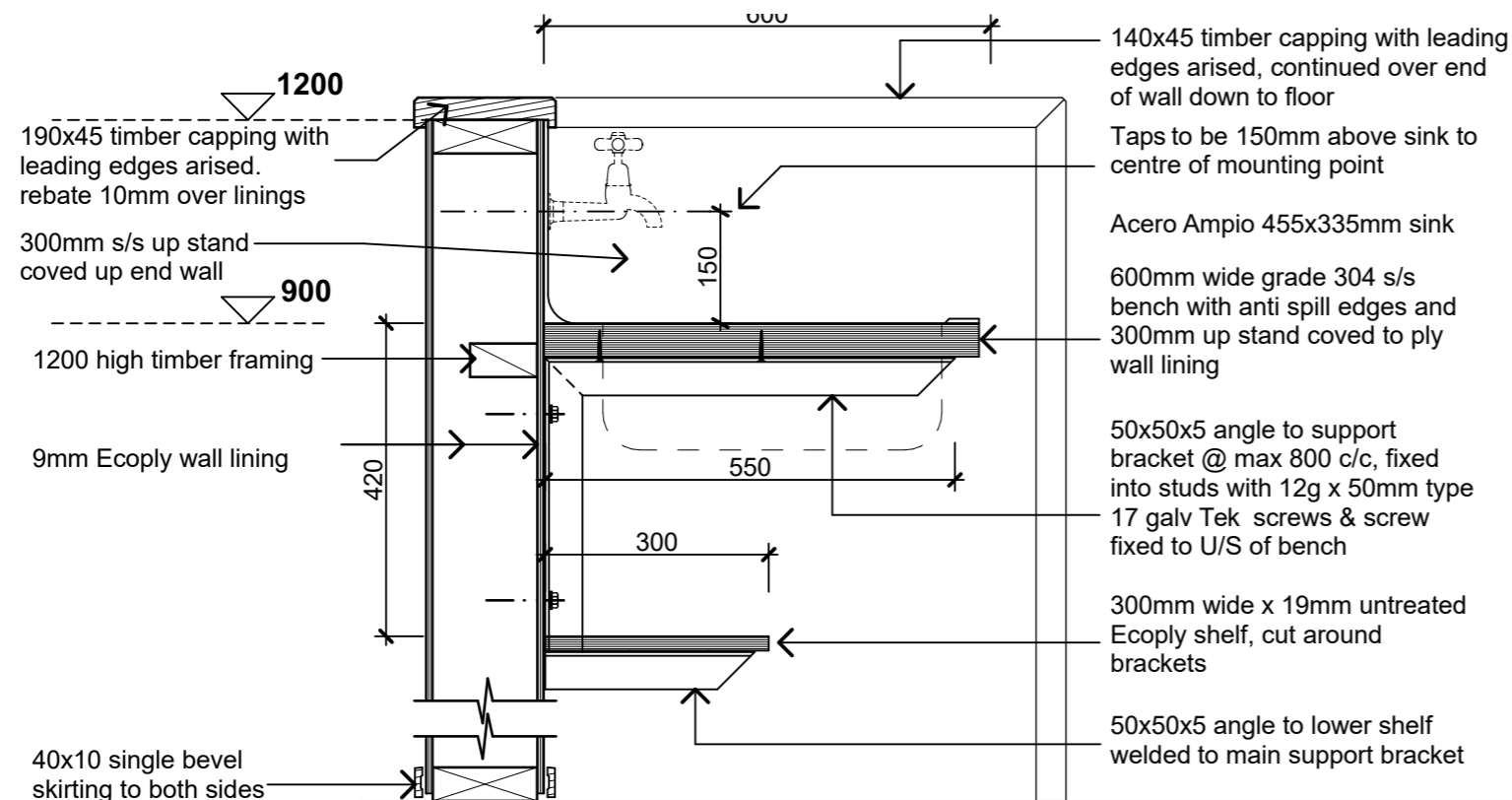
Revisions		
A	Detail Design	14/06/2019



NOTE: - Tight slot cut in bottom plate and flooring
- under floor insulation to fit tight against bracket (insulation not shown for clarity)

1 Cooking Bench Section

Scale 1:10



2 Nib Wall Fixing Bracket Detail

Scale 1:10

3 Cooking Bench Section Part Height Wall

Scale 1:10

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Project Name: Project No: 1772

Mintaro Hut
Milford Track Fiordland National Park

Detailed Design

Drawing Name:

Cooking Area Details

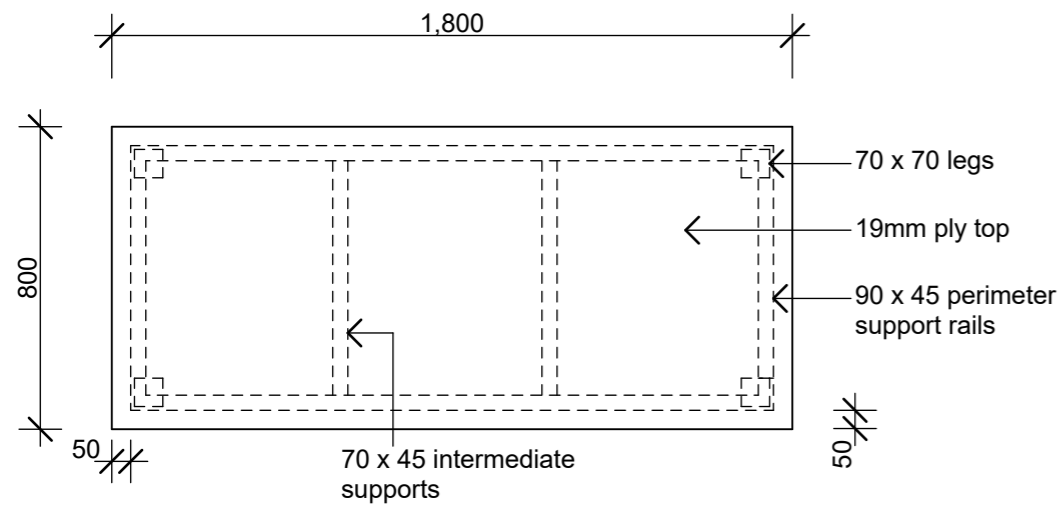
Revisions		
A	Detail Design	14/06/2019

Scale @ A3: 1:10

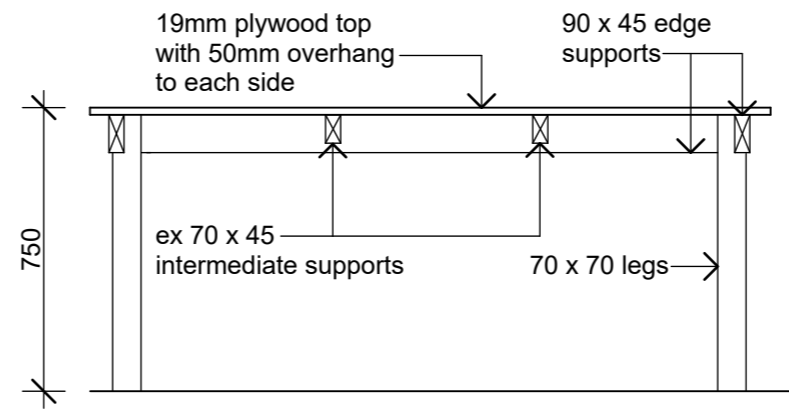
Drawing No: Revision:

44

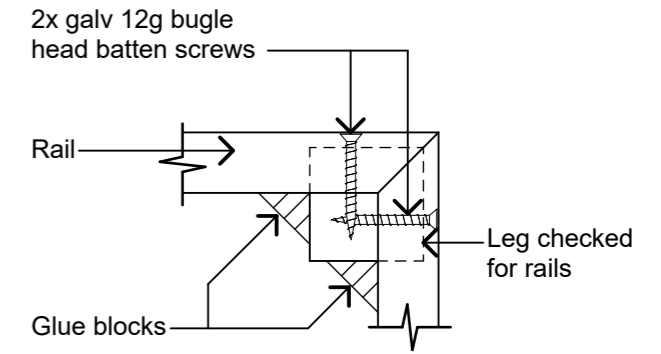
A



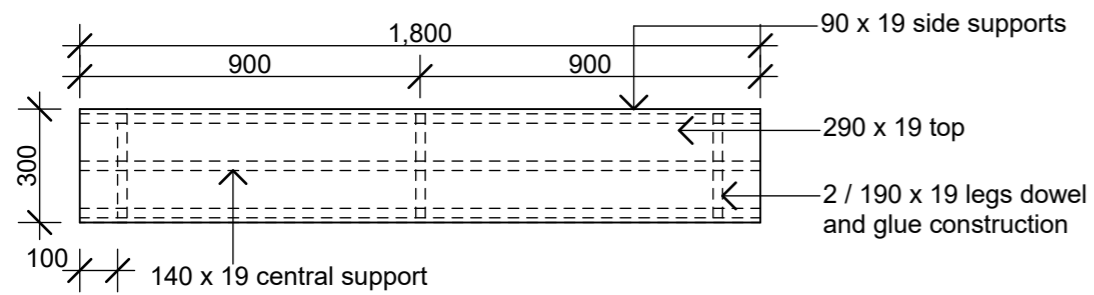
1 Table Plan
Scale 1:20



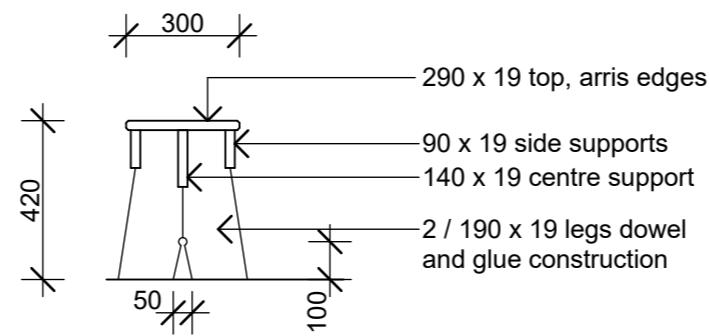
2 Table Section
Scale 1:20



3 Table Leg Fixing
Scale 1:5



4 Form Plan
Scale 1:20



5 Form Section
Scale 1:20

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Project Name: Project No: **1772**

Mintaro Hut
Milford Track Fiordland National Park

Detailed Design

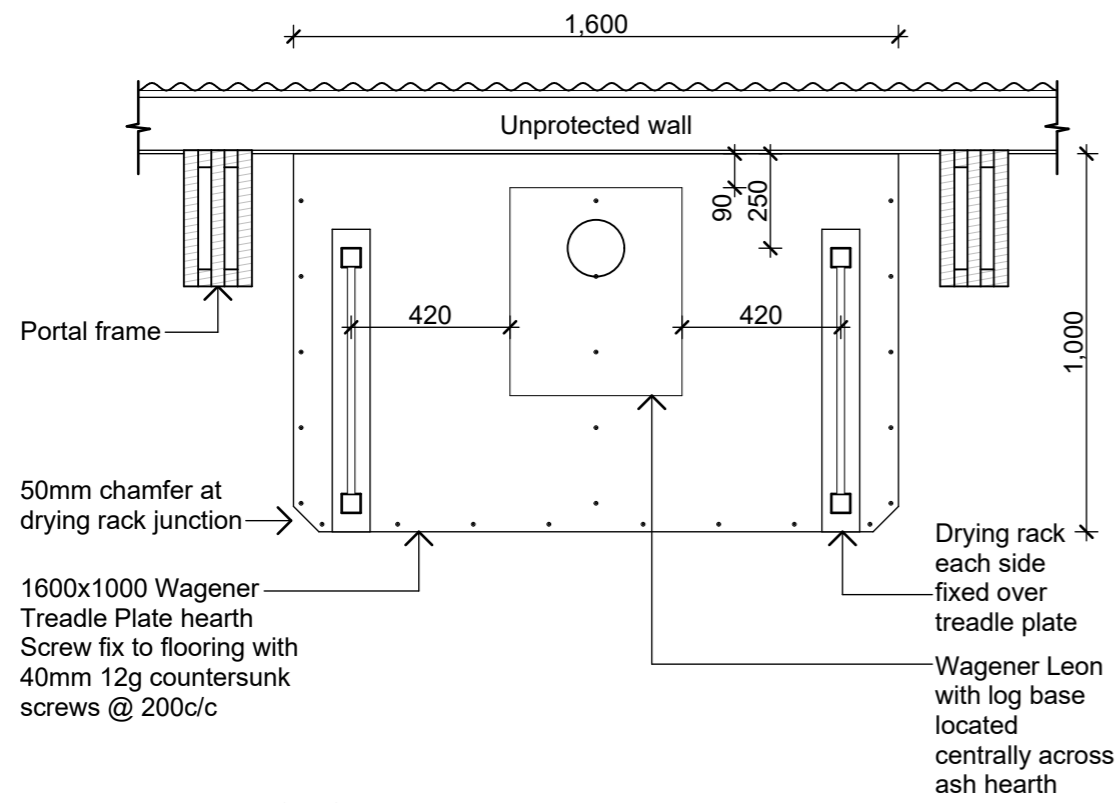
Drawing Name:

Tables and Forms

Revisions		
A	Detail Design	14/06/2019

Scale @ A3: **1:20, 1:5**

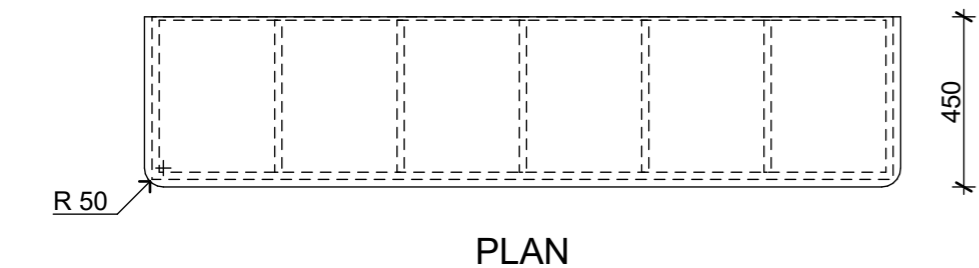
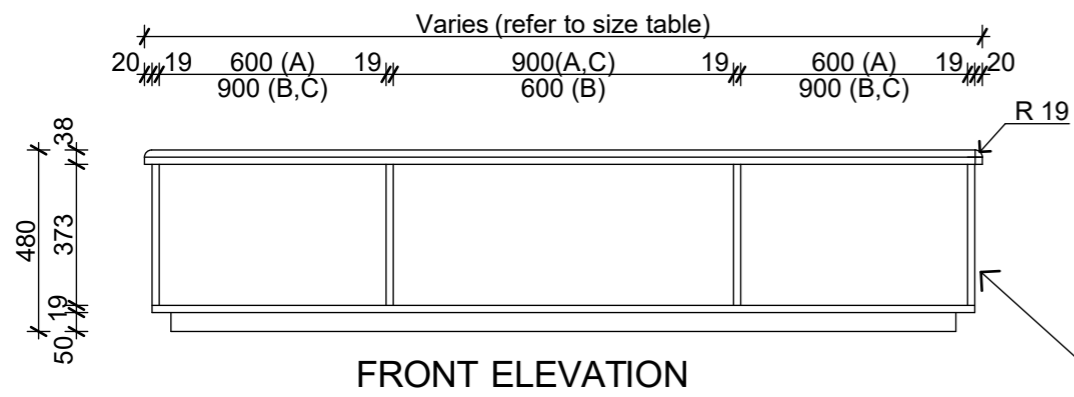
Drawing No: **45** Revision: **A**



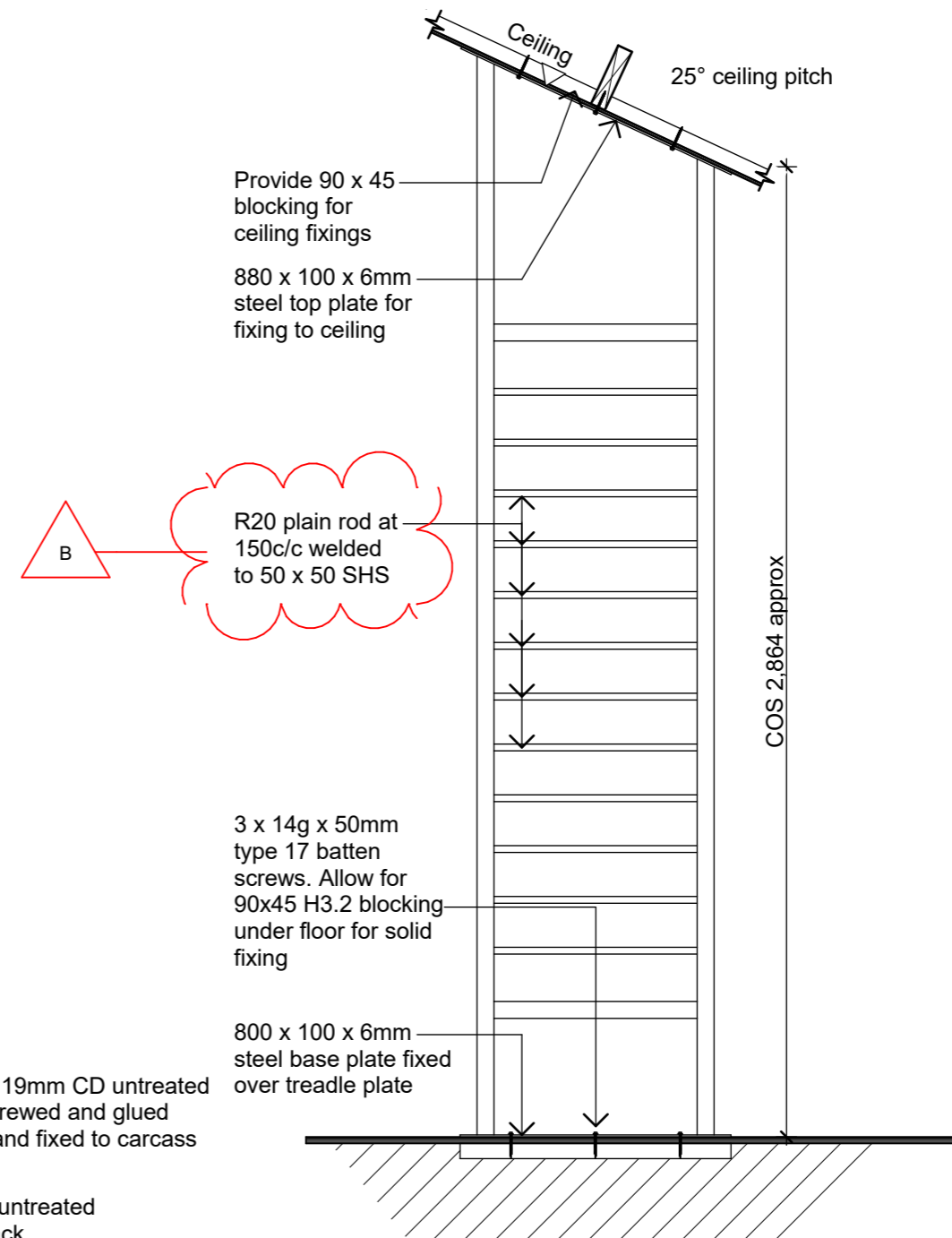
- NOTES:**
1. Drying rack galvanised after fabrication

1 Hut Wood Burner Details

07 Scale 1:20



Boot Lockers	
Type	Cubicle widths
A	600, 900, 600
B	900, 600, 900
C	900, 900, 900



2 Hut Wood Burner Details

Scale 1:20

3 Boot Lockers

Scale 1:20

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Client:
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Project Name: Project No: 1772

Mintaro Hut
Milford Track Fiordland National Park

Detailed Design

Drawing Name:

Woodburner Drying Rack
Boot Lockers

Revisions

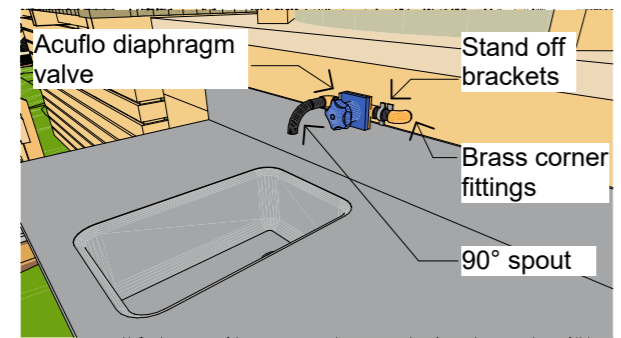
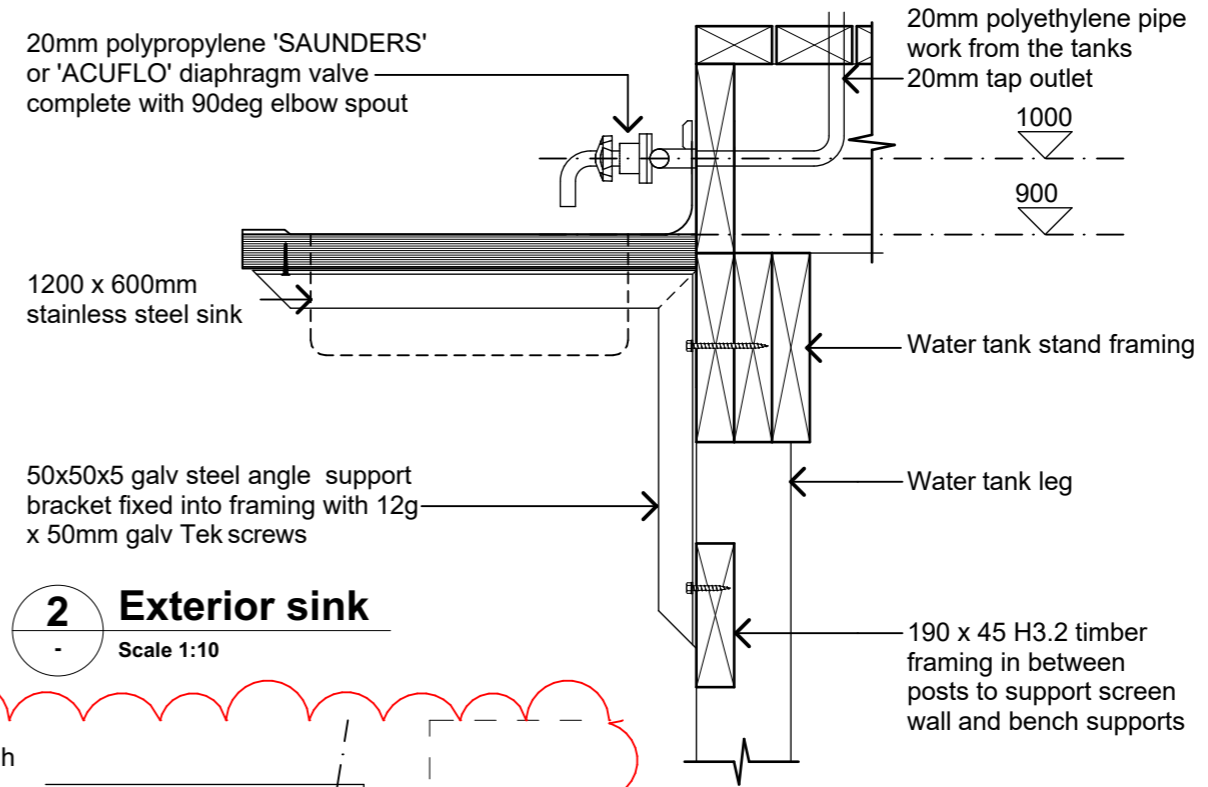
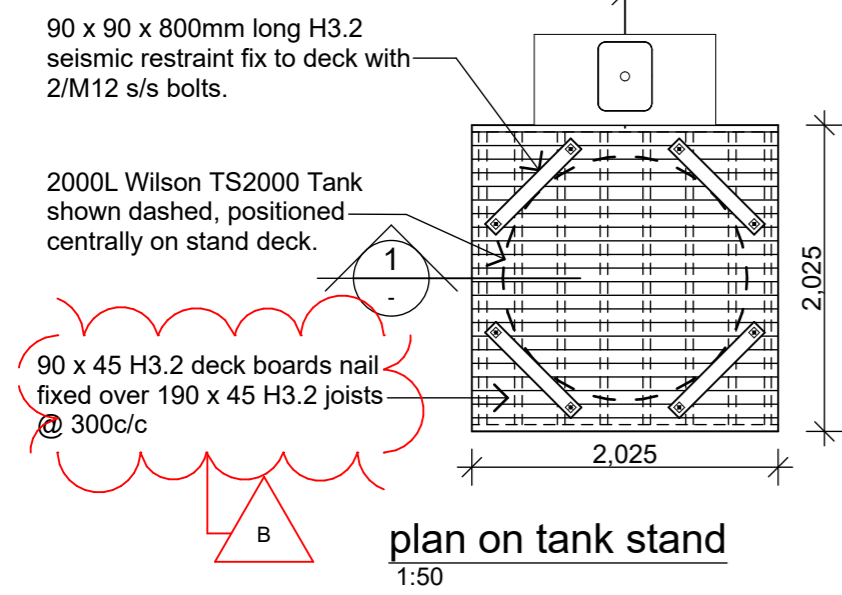
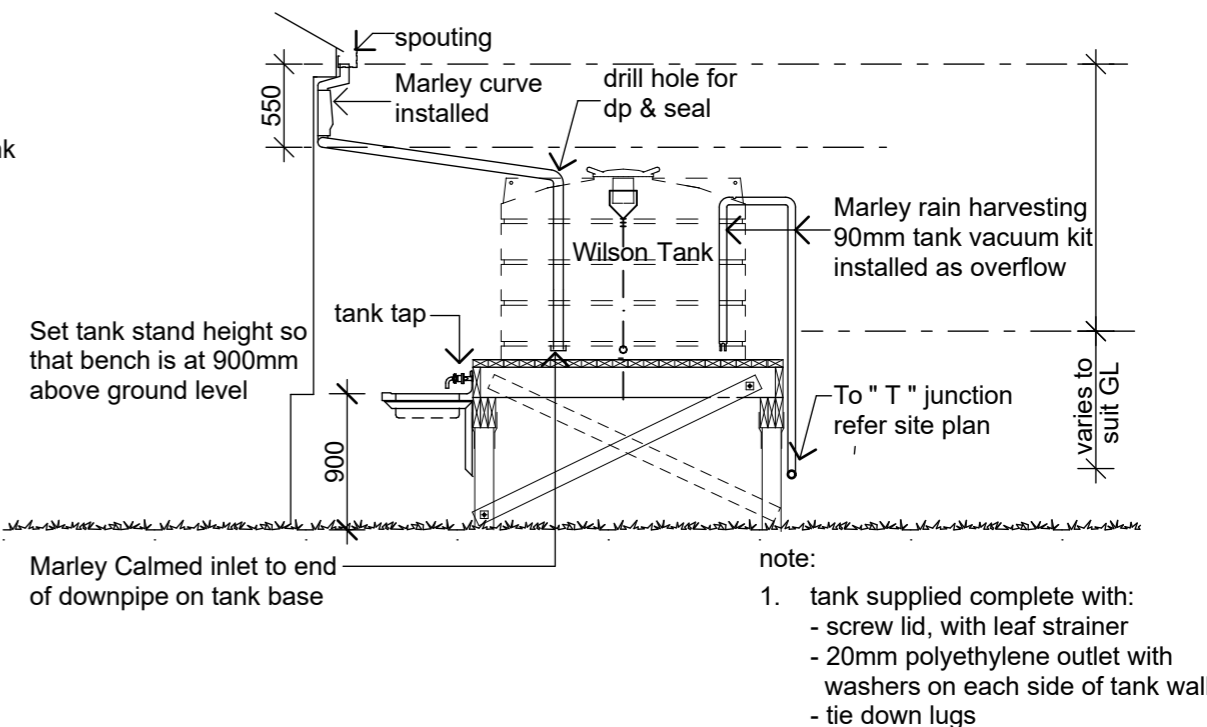
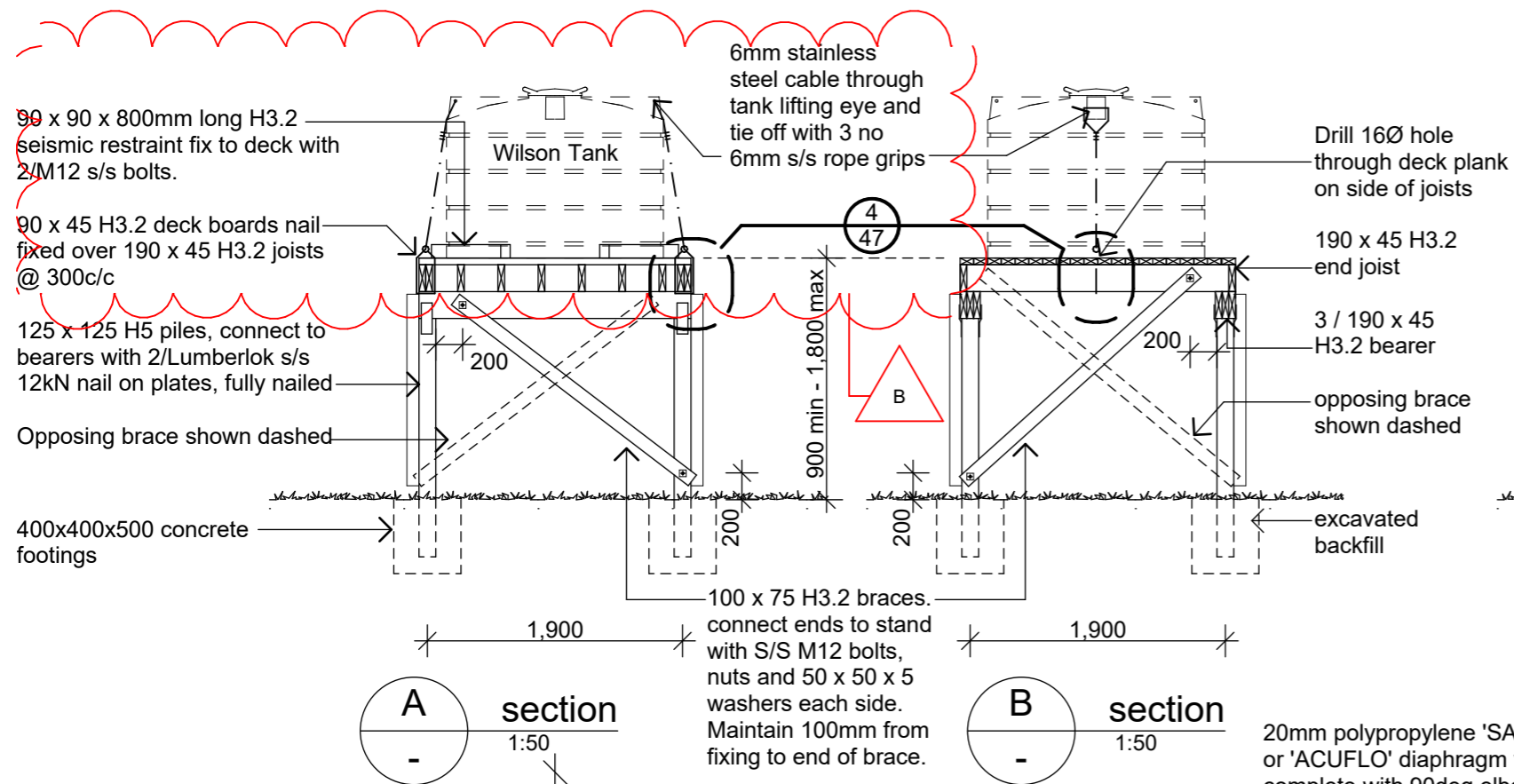
Rev	Description	Date
B	Structure & Details	6/09/2019
A	Detail Design	14/06/2019

Scale @ A3: 1:20

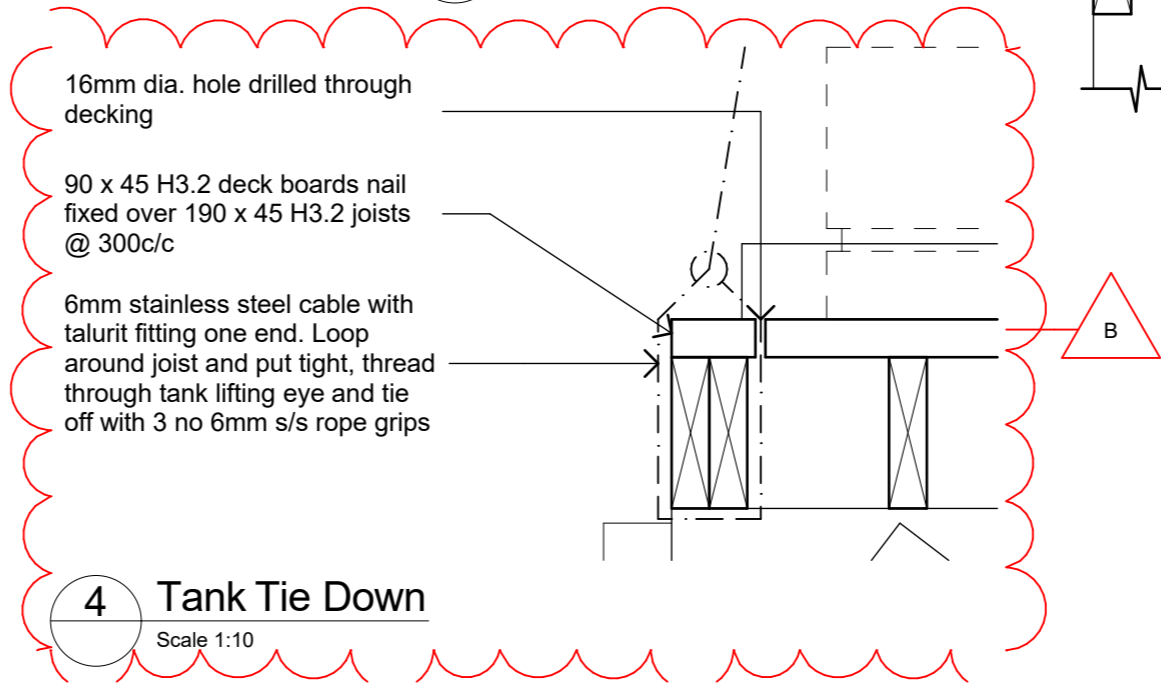
Drawing No: Revision:

46

B



3 Sink Tap Scale 1:200



Revisions		
B	Structure & Details	6/09/2019
A	Detail Design	14/06/2019

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Client: Department of Conservation

Project Name: Project No: 1772

Mintaro Hut
Milford Track Fiordland National Park

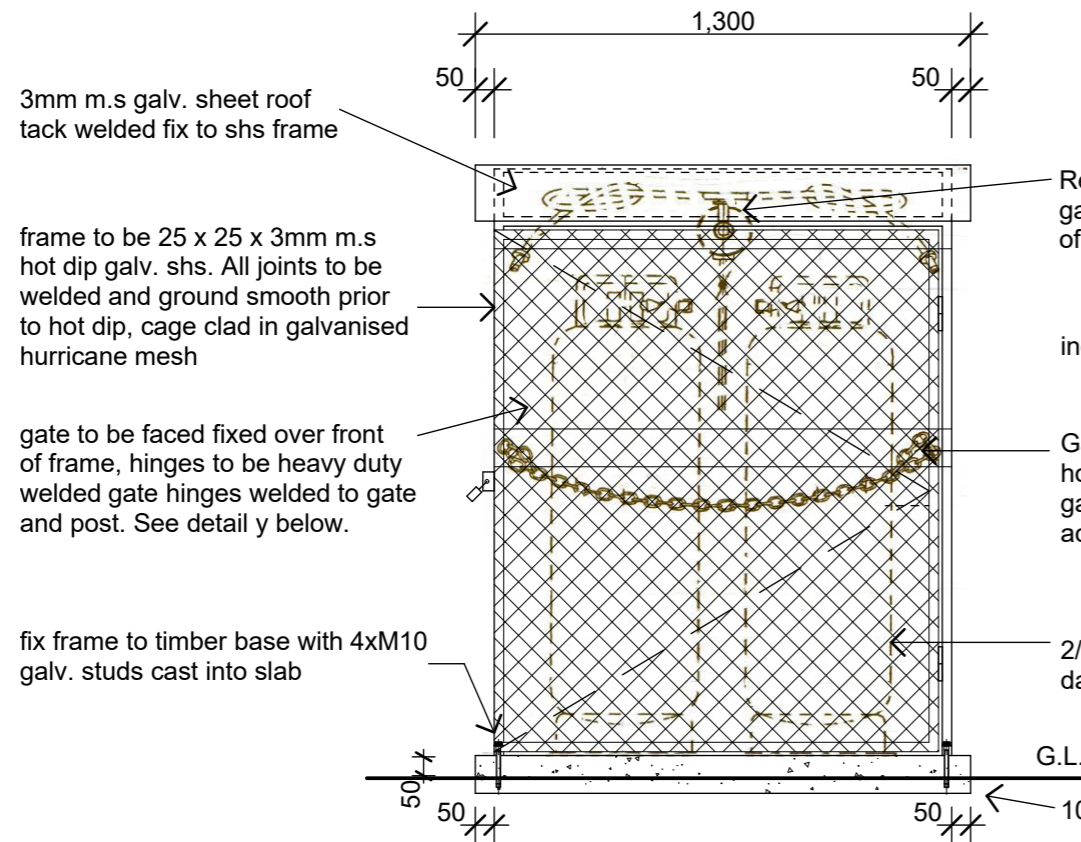
Detailed Design

Drawing Name: Water Tank Stand

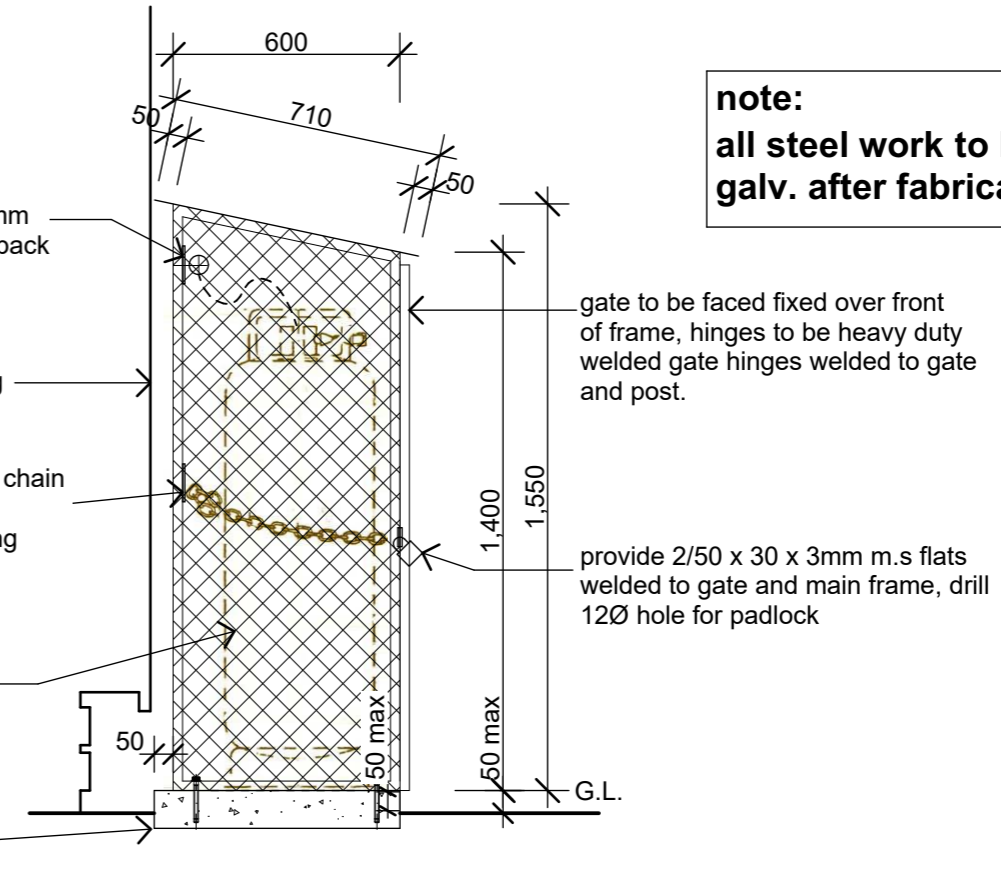
Scale @ A3: 1:50, 1:10, 1:200

Drawing No: 47 Revision: B

B

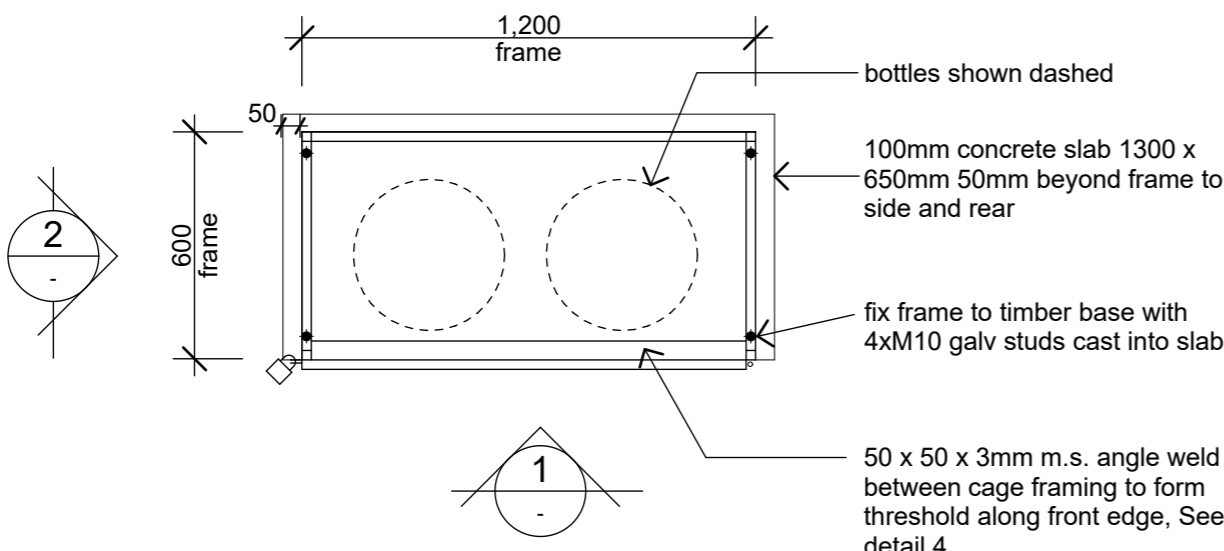


1 Gas Bottle Store - Front Elevation
02 Scale 1:20



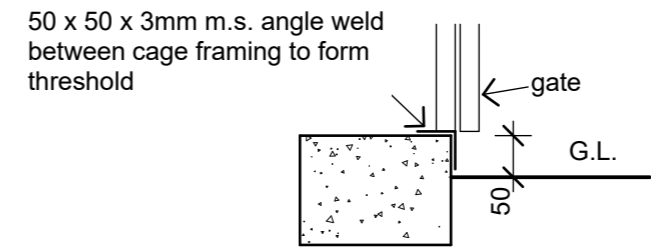
2 Gas Bottle Store - Side Elevation
- Scale 1:20

note:
all steel work to be hot dip galv. after fabrication

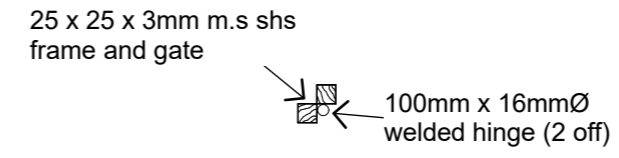


Plan of Gas Bottle Store
1:20

3 Gas Bottle Store - Plan
- Scale 1:20



4 Threshold Detail
Scale 1:20



5 Hinge Detail
Scale 1:20

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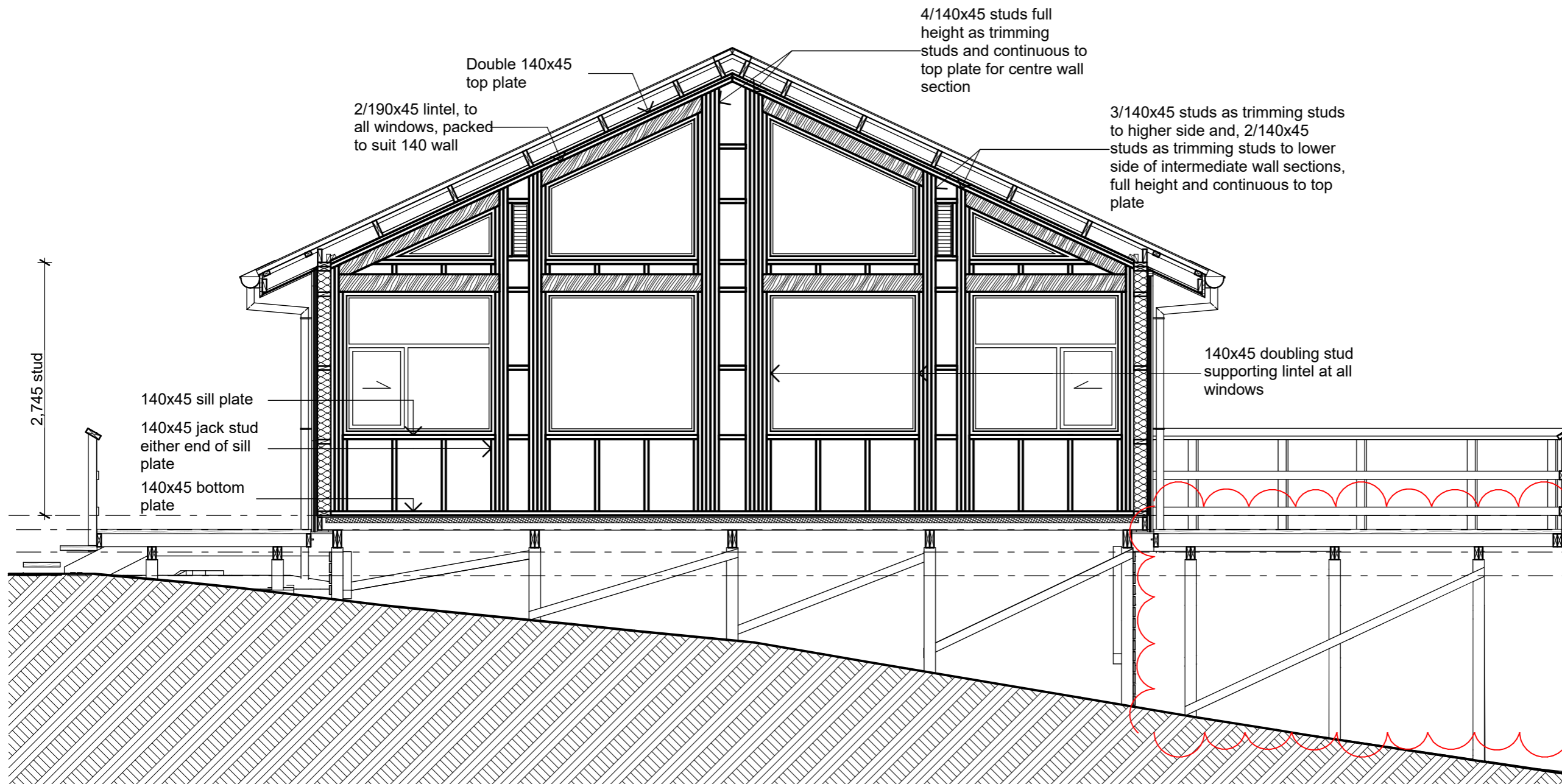


Client: Department of Conservation
Project Name: Project No: 1772
Mintaro Hut
Milford Track Fiordland National Park

Detailed Design
Drawing Name: Gas Bottle Storage

Revisions		
B	Structure & Details	6/09/2019
A	Detail Design	14/06/2019

Scale @ A3: 1:20
Drawing No: 48
Revision: B



North Wall Framing

1:50

All framing for north wall to be LVL 'J' Framing

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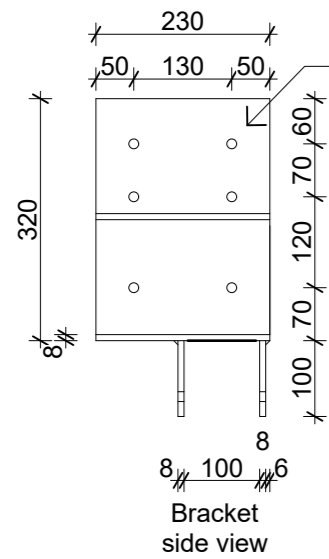
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Client: Department of Conservation
Project Name: Mintaro Hut
Project No: 1772
Milford Track Fiordland National Park

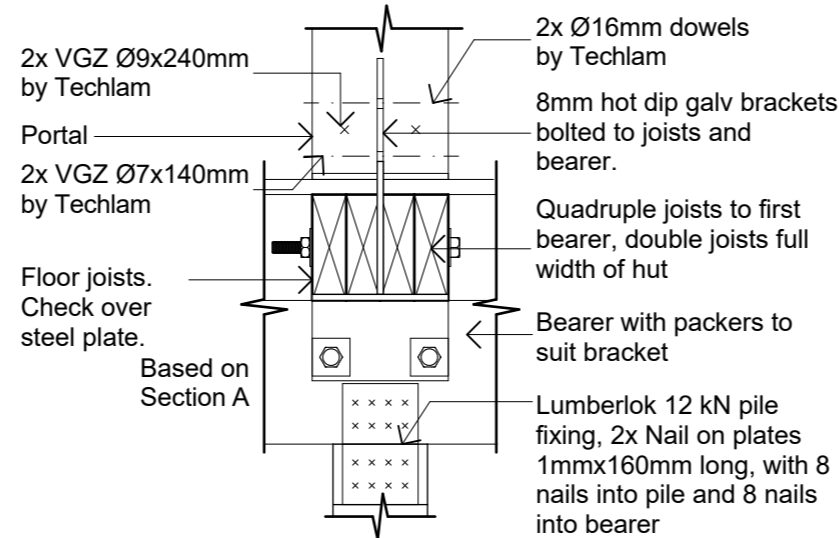
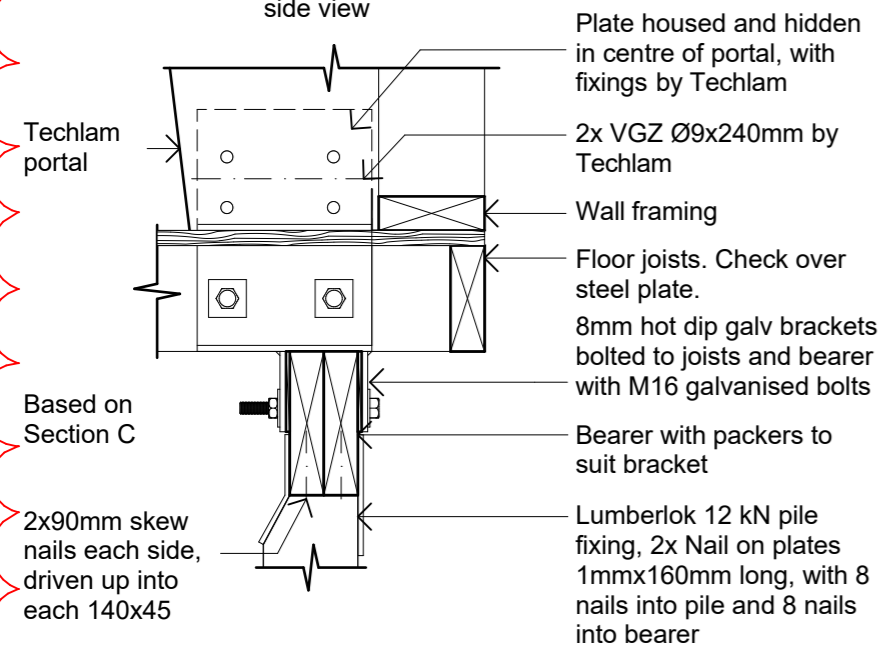
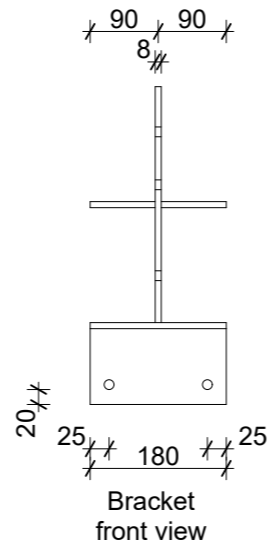
Detailed Design
Drawing Name: North Wall Framing

Revisions		
B	Glulam Beam	25/09/2019
A	Structure & Details	6/09/2019

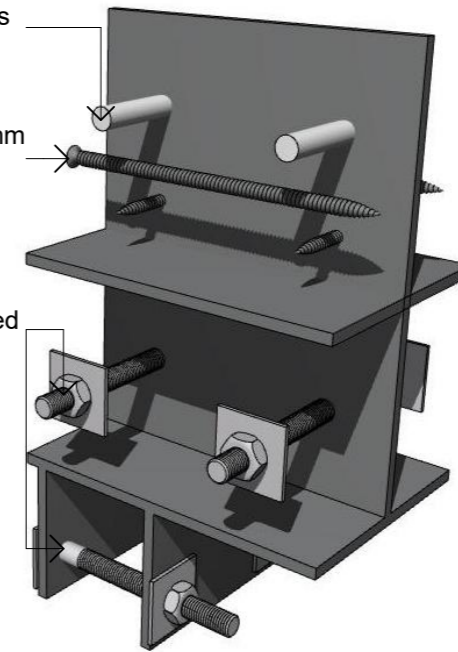
Scale @ A3: 1:50
Drawing No: 49
Revision: B



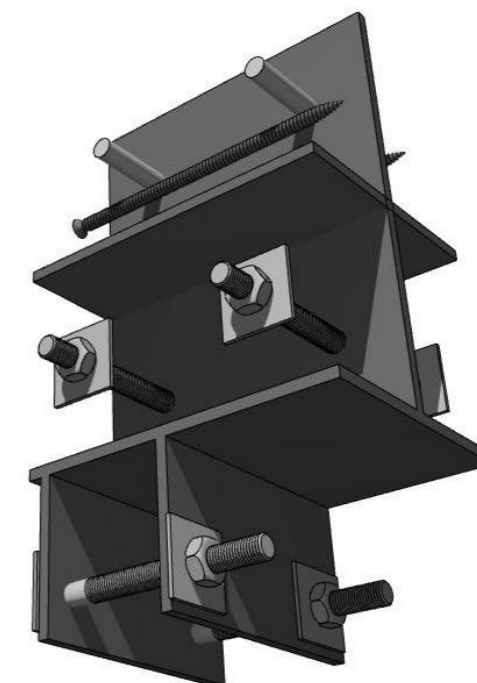
Confirm portal fixing with Techlam prior to forming holes, for portal connection



2x Ø16mm dowels by Techlam
2x VGZ Ø7x140mm by Techlam
4xM16 galvanised bolts



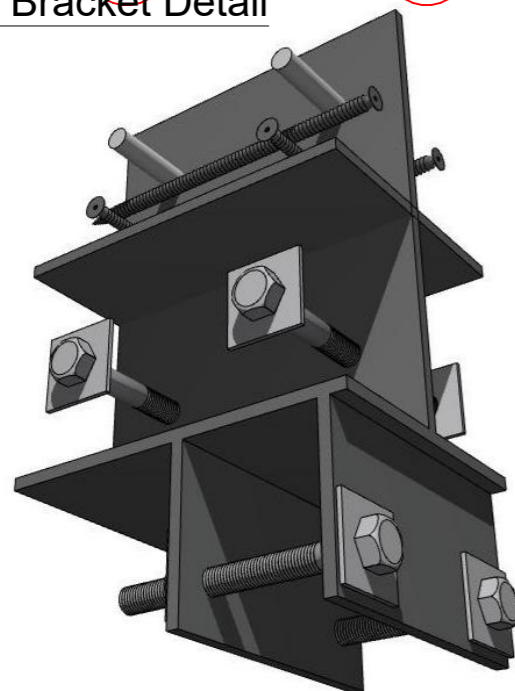
2 Portal Bracket 1



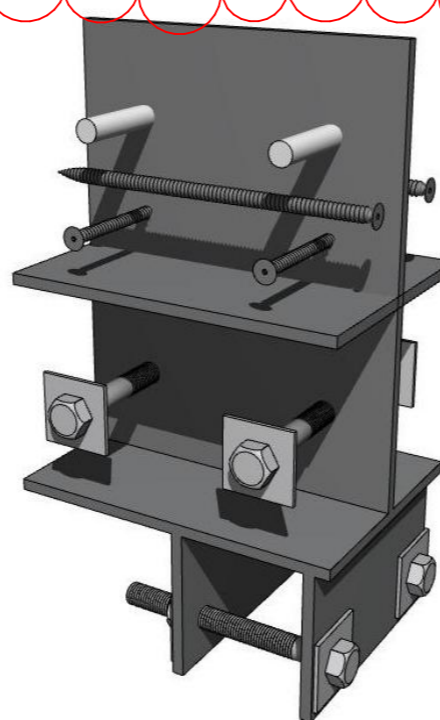
3 Portal Bracket 2

1 Portal Bracket Detail

Scale 1:10



5 Portal Bracket 4



4 Portal Bracket 3

Material Notes:

- a COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
- a2 COLORCOTE Zinacore Dimond Solar Rib roofing over SISALATION SUREWRAP roofing underlay over 190 x 45 H3.2 purlins on edge @ 900c/c max. evenly spaced, with end purlins @ 500mm c/c. Refer specification for fixings of roofing and purlins.
- b COLORCOTE Zinacore 0.40 BMT CORRUGATE PROFILE cladding over cavity battens over Sisalation SureWrap wall underlay over 4.5mm HomeRAB Pre-Cladding board system over timber framing
- c CHH 9mm ECOPLY BD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
- d CHH 9mm ECOPLY BD grade untreated wall lining with 10mm gap to flooring.
- e CHH 19mm ECOPLY CD grade H3.2 CCA 2400x1200 LS flooring over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f 150x50 rough sawn H3.2 Radiata with top edges arised with webforge insert at doors Tensar SS20 Geogrid over exterior decking, fixed with stainless steel staples
- g 4.5mm Hardiflex with PVC jointers
- h1 CHH 9mm Ecoply BD grade untreated ply over 1 layer 10mm Gib Fyreline, with ply finished with Fireshield IFR clear intumescent coating
- h2 CHH 9mm Ecoply BD grade untreated ply over 1 layers 16mm Gib Fyreline, with ply finished with Fireshield IFR clear intumescent coating
- i 1 layer 16mm Gib Fyreline

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Client:
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Project Name: **Mintaro Hut** Project No: **1772**
Milford Track Fiordland National Park

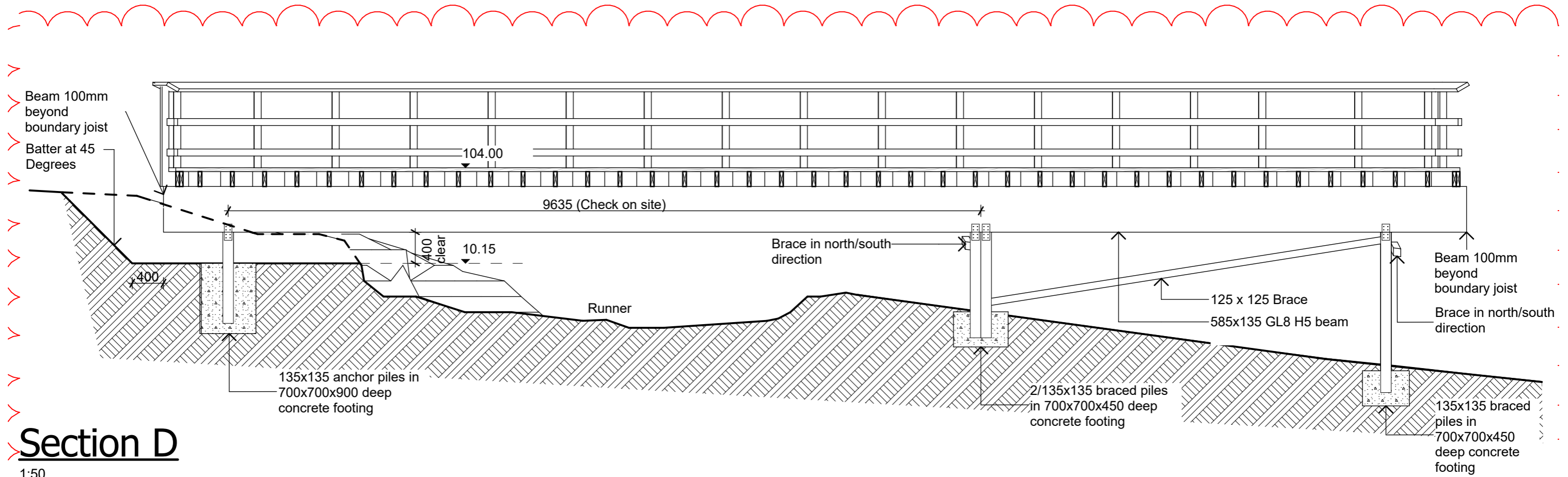
Detailed Design

Drawing Name:
Portal Bracket

Revisions		
A	Structure & Details	6/09/2019

Scale @ A3: 1:10, 1:114.9242

Drawing No: **50** Revision: **A**

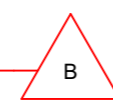
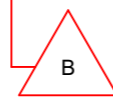


Section D

1:50

NOTES

1. Pile/Beam connection to be lumberlok 12kN pile fixing. 2 x Nail on plates 1mm x 160mm long each side, with 8 nails into piles and 8 nails into bearer. 2 x 90mm skew nails each side in line of beam, driven up into beam.



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Client:
Department of Conservation

Project Name: Project No: 1772

Mintaro Hut
Wardens Quarters
Milford Track Fiordland National Park

Detailed Design

Drawing Name:

North Deck Beam Elevation / Section

Revisions

B	Glulam Beam	25/09/2019
A	Structure & Details	6/09/2019

Scale @ A3: 1:50

Drawing No: Revision:

51

B



1772 Mintaro Hut - Cooking



Hut Corridor



1772 Mintaro Hut - Seating



Hut Bunkrooms

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Client:
Department of Conservation

Project Name: **Mintaro Hut** Project No: **1772**
Milford Track Fiordland National Park

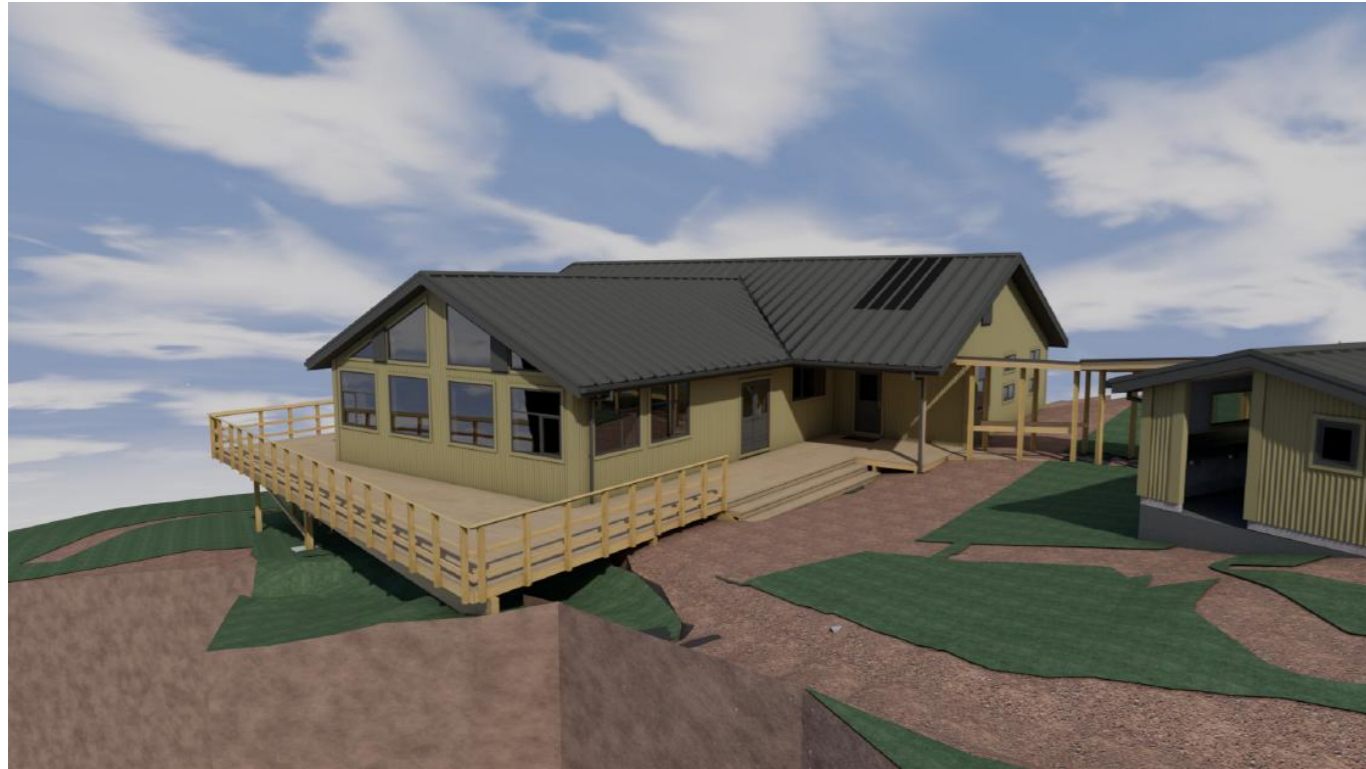
Detailed Design

Drawing Name:
3D Interiors

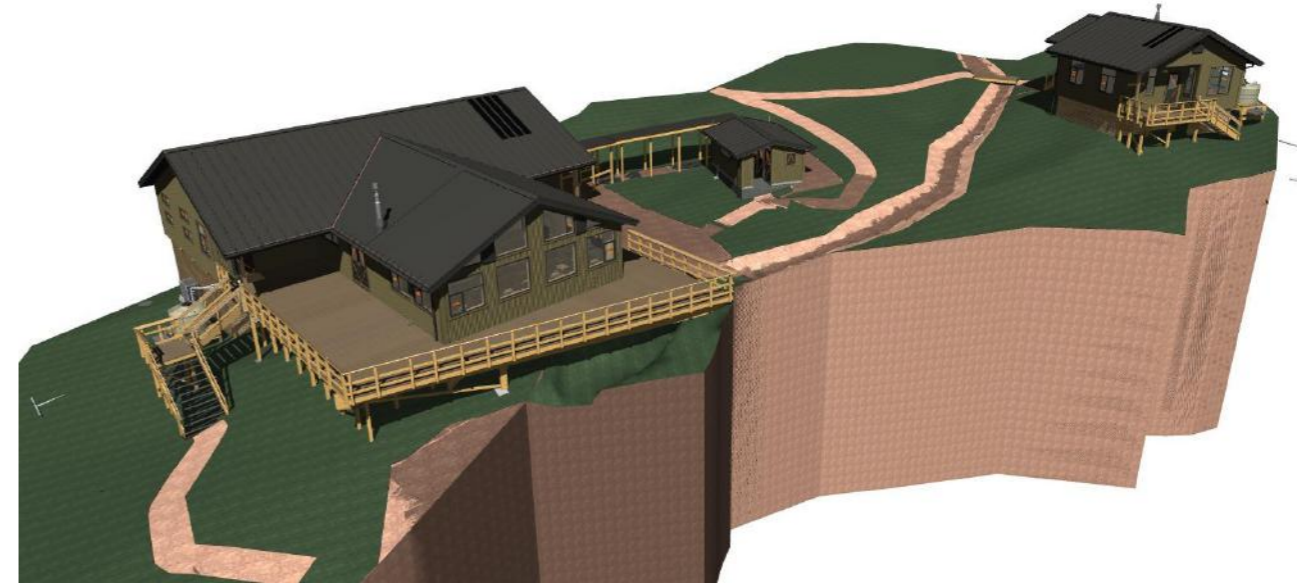
Revisions		
D	Glulam Beam	25/09/2019
C	Detail Design	14/06/2019
B	Developed Design	22/03/2019

Scale @ A3:

Drawing No: **60** Revision: **D**



Hut North West



Site Overall



Hut North East

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Client:
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Project Name: Project No: **1772**

Mintaro Hut
Milford Track Fiordland National Park

Detailed Design

Drawing Name:
3D Exteriors

Revisions		
D	Glulam Beam	25/09/2019
C	Detail Design	14/06/2019
B	Developed Design	22/03/2019

Scale @ A3:

Drawing No: **61** Revision: **D**