Project: Bathroom Wing Rebuild at Waihaua Marae

449 Arapaoa Rd, Tinopai

For: Waihaua Marae



Drawing Index

2001

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Construciton Details Bathroom





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Notes:

Building Consent

<u>Issue Dates:</u>

27 October 2020 Preliminary Design Proposal Preliminary Design Two Preliminary Design Two Preliminary Design Three

Revision Schedule Description Date



279 Mountain Rd, RD 2, Maungaturoto 0587 Ph 09 431-2827 or mob 027 292-8820 email stephen@orcandesign.org

No: **CD 765** Bathroom Block Rebuild

Address: **Waihaua Marae** 449 Arapaoa Rd

Tinopai 0593

Drawn By: Stephen Orchard Scale: As indicated

Existing Site Plan





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Preliminary Design Proposal Preliminary Design Two Preliminary Design Two Preliminary Design Three

Revision Schedule

	Revision Schedule				
Ref.	Description	Date			

Orcan Design

279 Mountain Rd, RD 2, Maungaturoto 0587 Ph 09 431-2827 or mob 027 292-8820 email stephen@orcandesign.org

No: **CD 765**

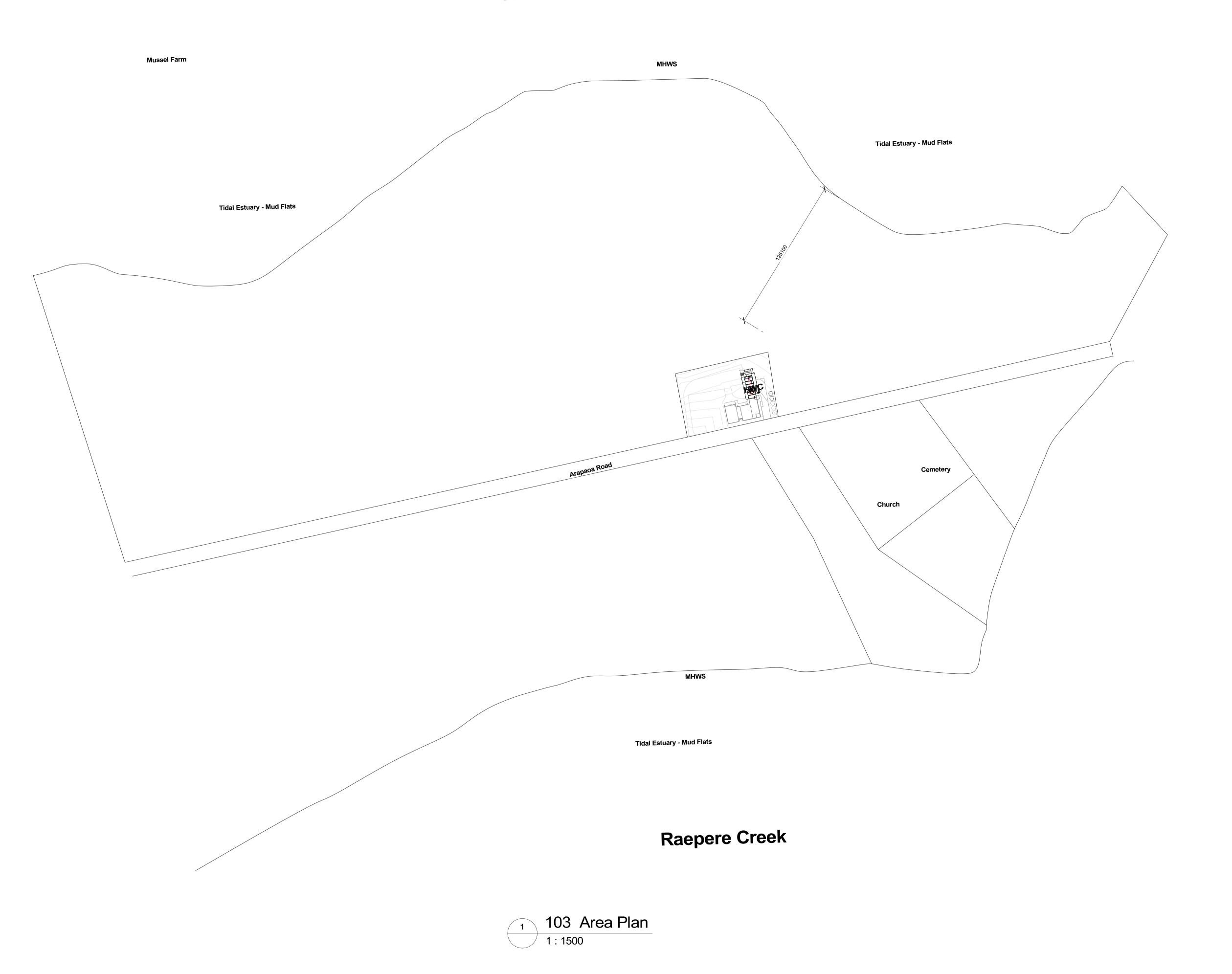
Bathroom Block Rebuild

Client: Waihaua Marae

Drawn By: Stephen Orchard

Site Plan with Aerial Phto

Kirikiri Inlet



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27 October 2020 24 May 2021

26 June 2021 24 October 2021 Preliminary Design Proposal Preliminary Design Two Preliminary Design Two Preliminary Design Three

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Address: **Waihaua Marae**

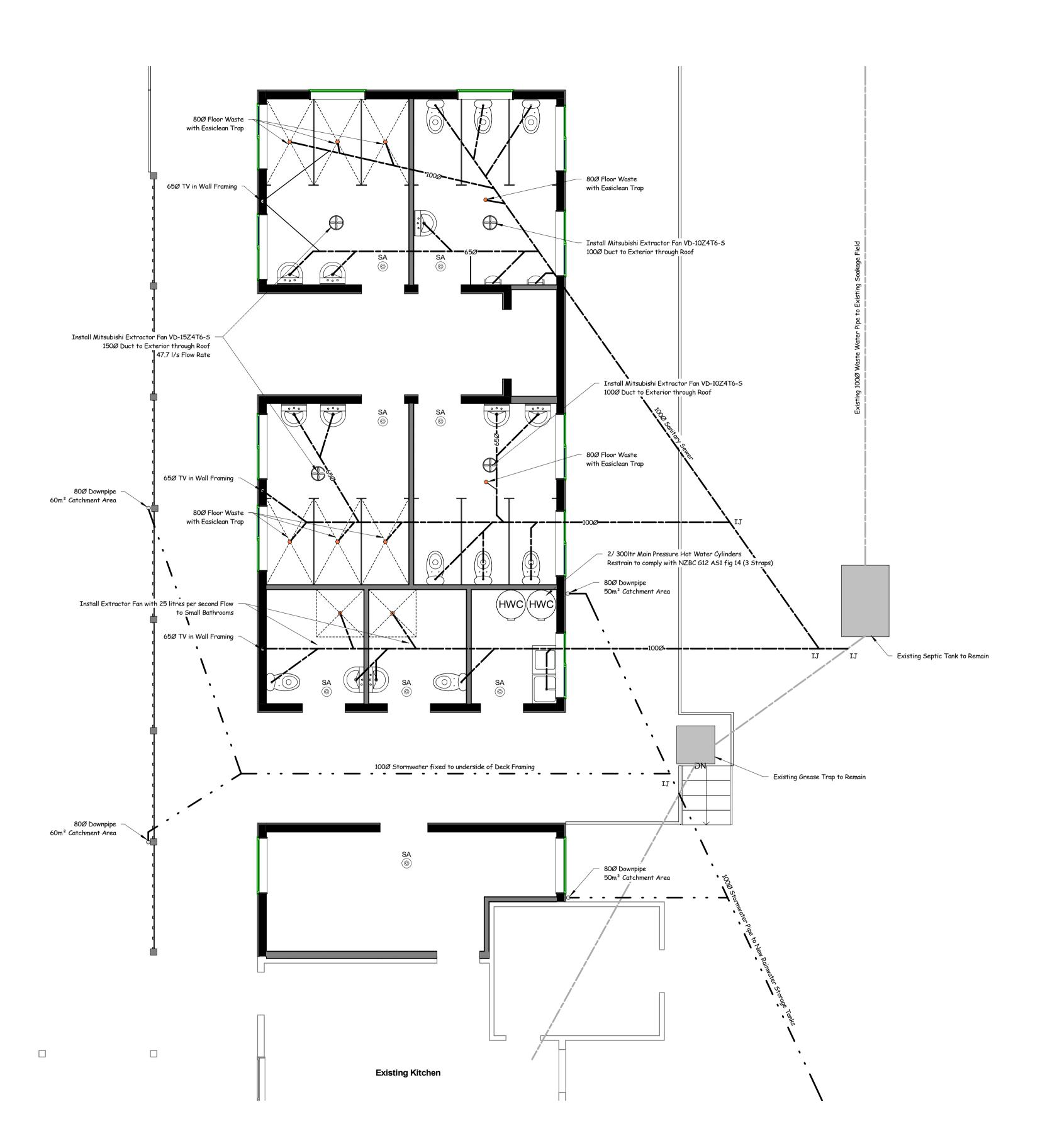
Waihaua Marae 449 Arapaoa Rd Tinopai 0593

Client: Waihaua Marae

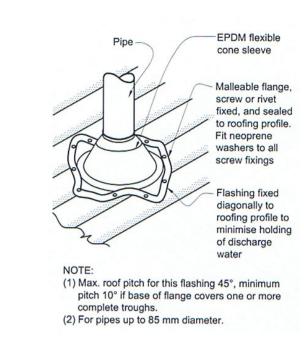
Drawn By: Stephen Orchard

Scale: 1:1500

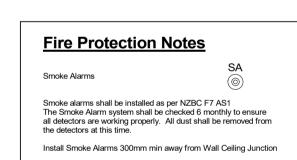
Area Plan



1 110 Services Plan 1:50



Terminal Vent Detail



Drinking Water Filtration

Filtration Type
Installed
Inline Cartridge
Combination Filtration UV Disinfection System
Installed between the first flush Diverter & Installed between the outlet and pump

Instruction of Maintenance Requirements to be provided to owner

Surface Finishes

Walls
Laundry & Storage
Bathrooms
Bathroom Partitions

Floors
All Floors
Decks

All Ceilings
All Ceilings

Semigloss Acrylic Enamel
2 Undercoats & 2 Top Coats
Prefinished Hale Compact 3mm Panel
Prefinished Hale Multipurpose 13mm Panel System

Tarkett Non Slip Vinyl with 100mm Cove & 50mm lap behind Panel
Outdure ClasaDeck

2 Undercoats & 2 Top Coats

<u>Notes</u> Plumbing Code AS/NZS 3500.2 <u>Plumbing Pipes Sizes</u> First Floor - Concrete Floor 100Ø 1:60 fall 65Ø 1:40 fall Shower 65Ø 1:40 fall Terminal Vents 650 in wall framing All bends underslab to be less than 45deg <u>Drainage Pipe Sizes</u> Sanitary Sewer 100Ø 1:60 fall 100Ø Sealed System Stormwater Downpipes 80Ø Marley from E1 AS1 & Continuous Spouting Website 100mm for a 10% probability of 100mm in 10 minutes from (Appedix A) Rainwater Calculations Rainfall Intensity 125mm Sq Spouting Size Roof Discharging to Gutter 60m² @ 100mm Rainfall for >25° Roof Pitch from (fig 15) 80mm dia Downpipe 85m² from (Table 5)

clarification.

Notes:

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Issue Dates:		

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Project: No: CD 765

Bathroom Block Rebuild

Address: Waihaua Marae 449 Arapaoa Rd Tinopai 0593

Client: Waihaua Marae

Drawn By: Stephen Orchard

Scale: As indicated

Services Plan

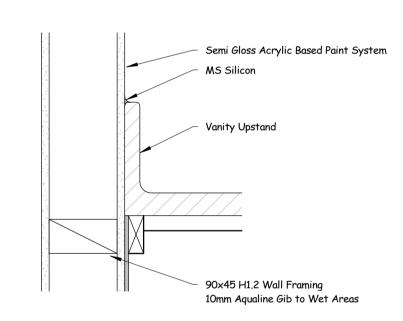
110a

Sheet:

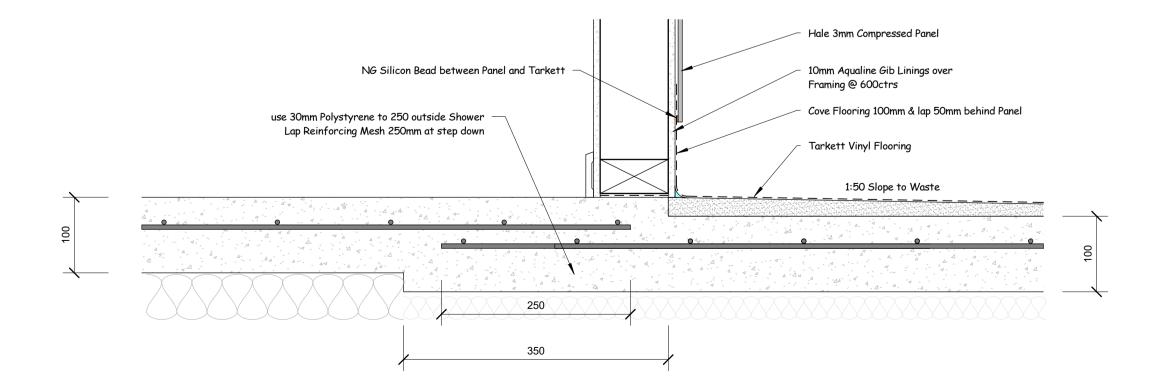


Toilet Installation

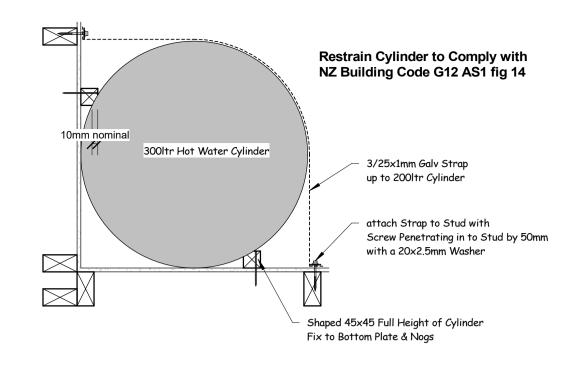
1:5



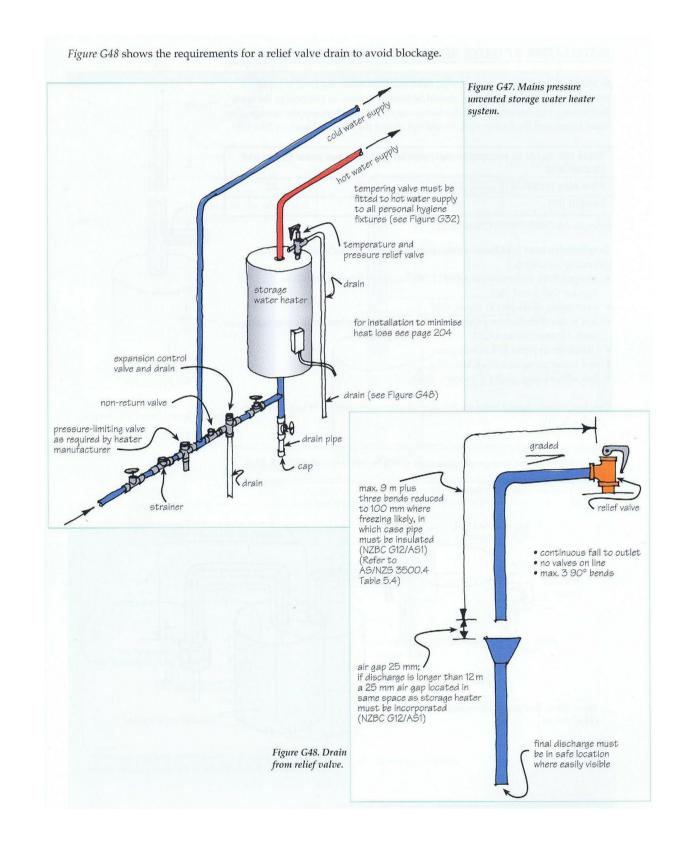
Vanity to Wall Detail



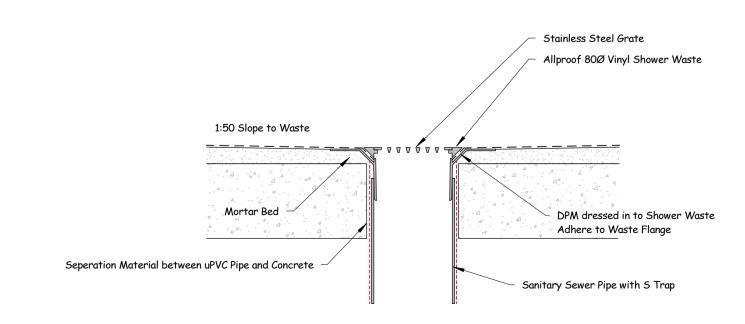
Tarkett to Wall Detail



HWC Restraint Detail
1:10



HWC Valve Train



Tarkett Shower Waste & Floor Waste Gully

1:5

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Orcan Design

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Tinopai 0593

Client: Waihaua Marae

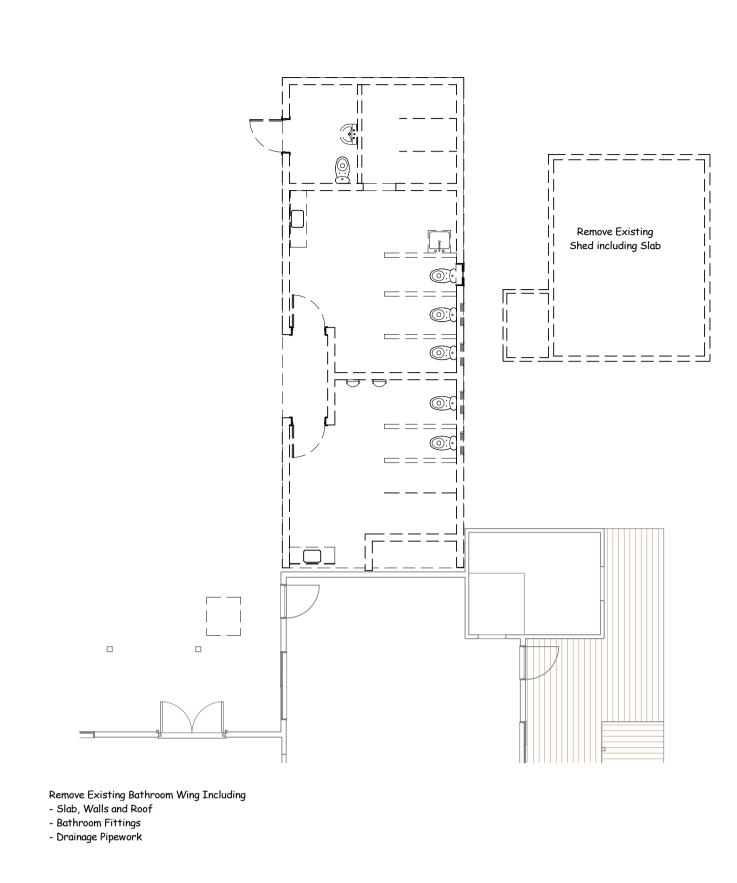
449 Arapaoa Rd

Drawn By: Stephen Orchard
Scale: As indicated

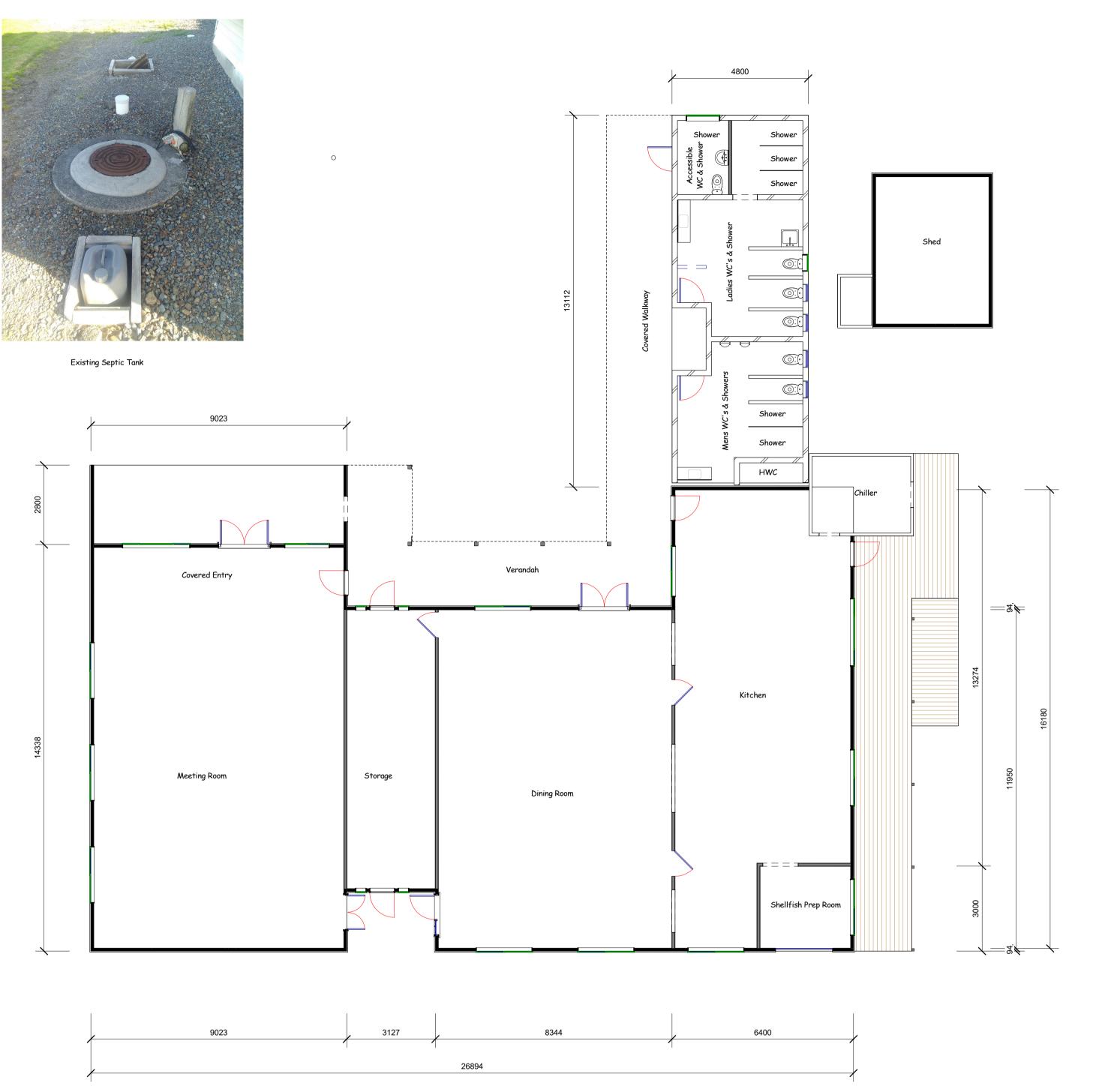
Service Plan Details

111a

Sheet:



300 Demolition Plan 1:100



200 Existing Floor Plan



Shed and End of Existing Bathroom Block All to be Demolished



Existing Kitchen showing end Wall where Bathroom Rebuild Joins



Existing Chiller - New Roof partially covers the Chiller Room



Existing Screened Walkway beside Toilet Block To be Demolished

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Building Consent

Issue Dates: Preliminary Design Proposal Preliminary Design Two Preliminary Design Two Preliminary Design Three 27 October 2020 24 May 2021 26 June 2021 24 October 2021

Revision Schedule

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Ref.	Description	Date



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No: **CD 765** Bathroom Block Rebuild

Waihaua Marae 449 Arapaoa Rd Tinopai 0593

Client: Waihaua Marae

Drawn By: Stephen Orchard Scale: **1:100**

Existing Floor Plan



Dwelling Window & Door Schedule Bottom Plate 1/140×45 + 1 Understud Type F W101 500×1200 140×90 *SG*8 Type F A Grade Toughened Safety Glass D102 2400×1000 1/140×45 + 1 Understud na Glazed Aluminium Door 140×90 *SG*8 A Grade Toughened Safety Glass A Grade Toughened Safety Glass D103 2400×900 1/140x45 + 1 Understud na 140×90 *SG*8 Type F Glazed Aluminium Door Type F D104 2400×900 140×90 *SG*8 Type F Type F 1/140×45 + 1 Understud na Glass above 2.0m D105 2400×900 140×90 *SG*8 Type F Type F 1/140×45 + 1 Understud na Glass above 2.0m Solid Aluminium Door Opaque A Grade Toughened Safety Glass W106 500×1400 140×90 *SG*8 $1/140 \times 45 + 1$ Understud $1/140 \times 45$ Type F 1/140×45 + 1 Understud 1/140×45 W107 500×1400 140×90 5G8 Opaque A Grade Toughened Safety Glass Ladies Shower Window Type F D108 2400×900 140×90 *SG*8 1/140×45 + 1 Understud na Type F 1/140x45 + 1 Understud na D109 2400×900 Solid Aluminium Door 140×90 *SG*8 1/140×45 + 1 Understud na 1/140×45 + 1 Understud na D111 2400×900 Solid Aluminium Door 140×90 SG8 Type F Type F 1/140×45 + 1 Understud D112 2400×900 Solid Aluminium Door 140×90 *SG*8 Type F Type F Opaque A Grade Toughened Safety Glass W113 500×1400 140×90 *SG*8 Type F $1/140 \times 45 + 1$ Understud $1/140 \times 45$ Mens Shower Window Type F 1/140×45 + 1 Understud W114 500×1400 Mens Shower Window 140×90 *SG*8 Opaque A Grade Toughened Safety Glass W115 500×1400 1/140×45 + 1 Understud 1/140×45 Opaque A Grade Toughened Safety Glass Mens Shower Window 140×90 *SG*8 Type F Type F W116 500×1400 Mens WC Window 140×90 *SG*8 Type F Type F 1/140×45 + 1 Understud 1/140×45 Opaque A Grade Toughened Safety Glass Opaque A Grade Toughened Safety Glass W117 500×1400 Mens WC Window 140×90 *SG*8 Type F Type F $1/140 \times 45 + 1$ Understud $1/140 \times 45$ W118 500×1400 Mens WC Window 140×90 *SG*8 $1/140 \times 45 + 1$ Understud $1/140 \times 45$ Opaque A Grade Toughened Safety Glass 1/140×45 + 1 Understud 1/140×45 W119 500×1400 140×90 *SG*8 Opaque A Grade Toughened Safety Glass Type F Ladies WC Window Type F 1/140x45 + 1 Understud 1/140x45 W120 500×1400 Ladies WC Window 140×90 *SG*8 Type F Type F Opaque A Grade Toughened Safety Glass Type F 1/140×45 + 1 Understud 1/140×45 W121 500×1400 140×90 *SG*8 A Grade Toughened Safety Glass Laundry Window Type F Type F W122 500×1400 Laundry Window 140×90 *SG*8 1/140×45 + 1 Understud 1/140×45 A Grade Toughened Safety Glass All Glazing to be Double Glazed Insulated Units All doors to be Key lockable externally and snib lockable internally. All Doors to be keyed alike All Glazing to meet requirement of NZBC F2 AS1 Section 1 & NZS 4223, Part 3 1999 Restrictor stays limiting the opening to 100mm to be used for all opening sashes see Mitek Lintel Detail for Lintel Hold Down Details see fig 8.5 NZ3604 2011 for clarification of Trimmer Stud requirements **Ground Floor Notes**

<u>Framing</u> Load Bearing Walls External 140×45 H1.2 KD SG8 @ 600 ctrs Non Load Bearing Walls 90x45 H1.2 KD SG8 @ 600 ctrs Internal 90x45 H1.2 KD *SG*8 @ 800 ctrs nogs Stud to Top Plate Fixings With Roof Load Type "B" for Roof Load Type "A" for Floor Areas Ceiling Strapping 70x32 @ 600 ctrs **Treatment** Wall Framing H1.2 Cladding Building Wrap **Ecoply Barrier** H3.2 Timber placed Vertical @ 600ctrs Cavity Batten Obique Weather Board over Cavity Soffits 6mm Hardiflex Sheet Wall & Ceiling Linings Store Ldy& Cpd 12mm Plywood with Gloss Acrylic Paint finish 10mm Gib Aqualine with Hales 3mm Compact Panel over Bathrooms Ceilings 13mm Gib Aqualine with Gloss Acrylic Paint finish **Insulation** Earthwool 3.2w 140mm Walls Ceiling Earthwool 3.6c 180mm Floor Coverings Tarkett Non Slip Vinyl All Rooms

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Orcan Design

No: **CD 765**

400a

279 Mountain Rd, RD 2, Maungaturoto 0587 Ph 09 431-2827 or mob 027 292-8820

Bathroom Block Rebuild

email stephen@orcandesign.org

Waihaua Marae

449 Arapaoa Rd

Client: Waihaua Marae

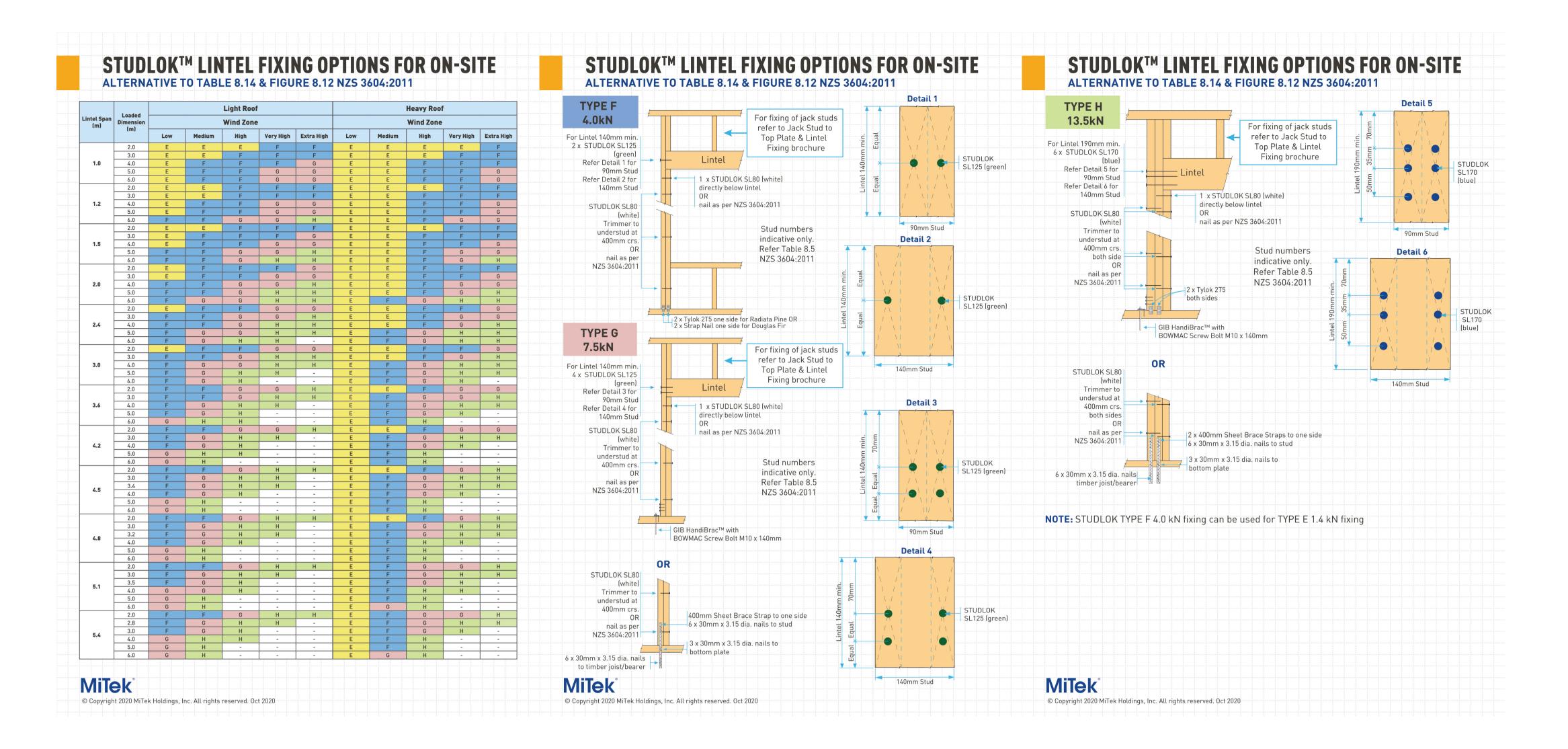
Drawn By: Stephen Orchard

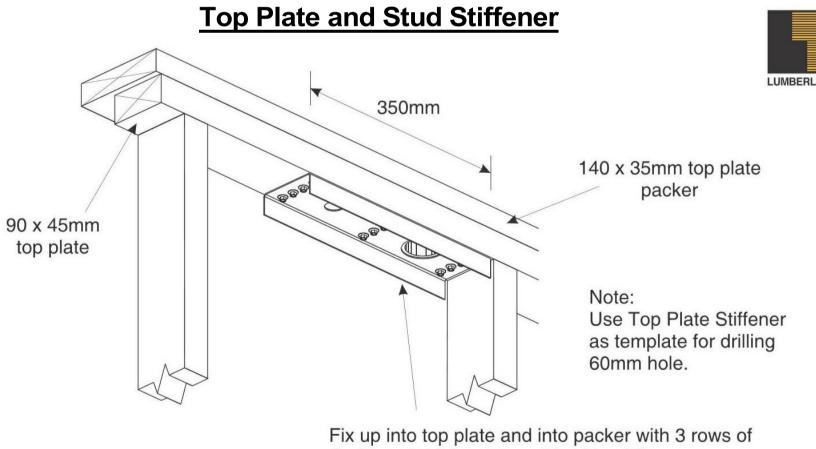
Proposed Floor Plan

Scale: As indicated

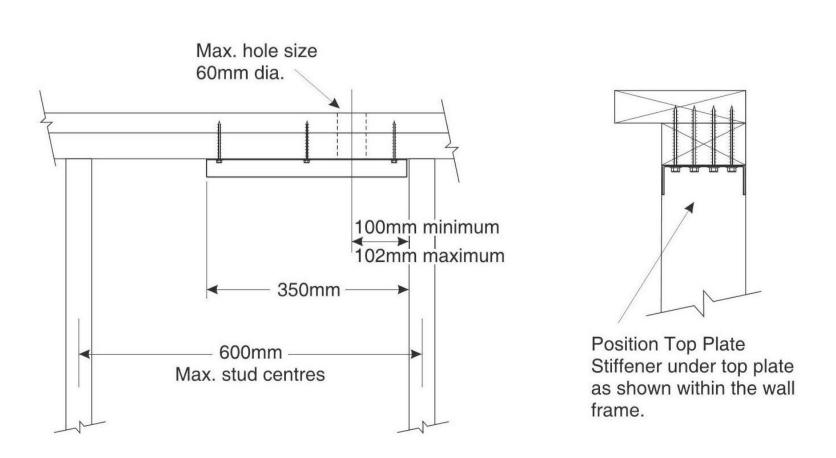
Tinopai 0593

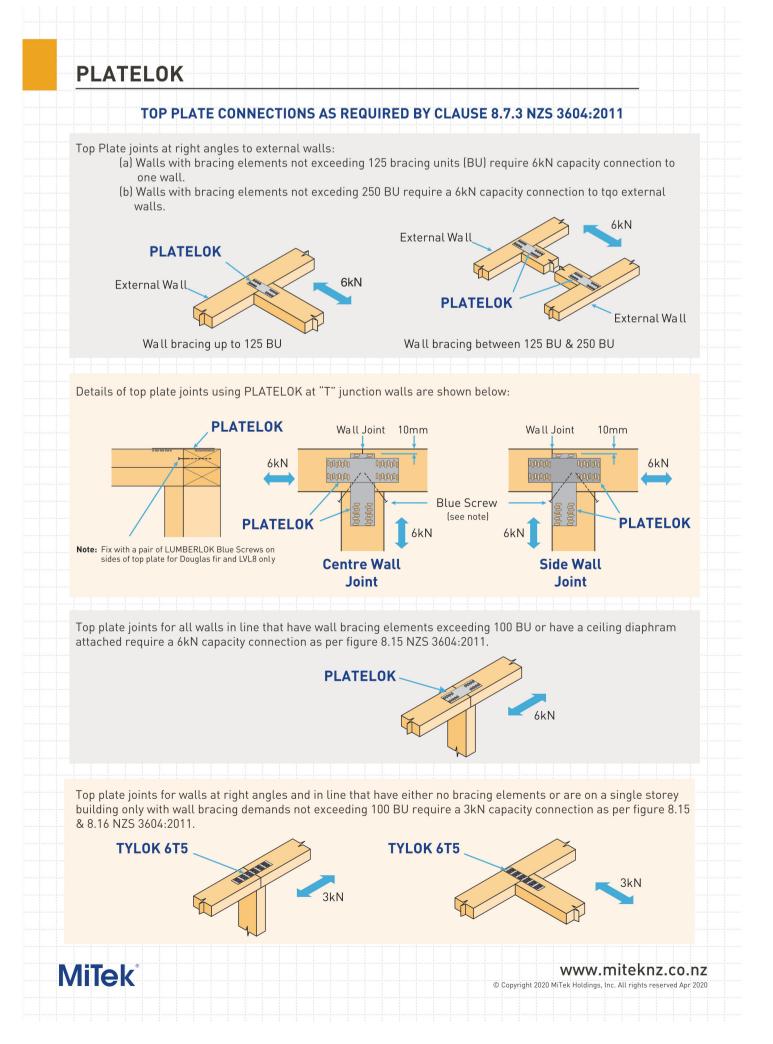
Sheet:





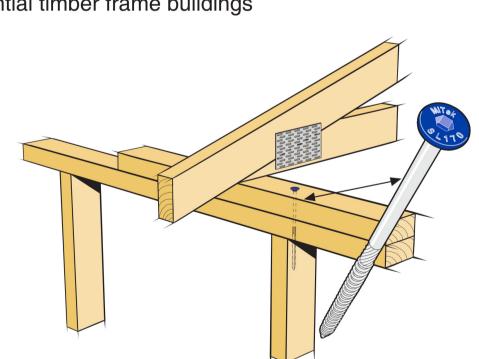
4 x Type 17-14g x 75mm Hex Head Screws (supplied). It may be advisable to drill pilot hole for each screw to assist installation.







Provides a solution for top plate to stud fixings for residential timber frame buildings



- ★ Complies with fixing requirements in Section 8 NZS 3604:2011
- ★ The BOWMAC® STUD-LOKTM forms an integral part of the MiTek Truss & Frame design and layout
- NOTE: ★ Refer to Table 8.19 NZS 3604:2011 for nailing schedule to resist lateral loads. ★ The STUD-LOK[™] connections assume that the correct choice of rafter/truss fixings have been made.
 - ★ Wall framing arrangements under girder trusses are not covered in this schedule. → All timber selections are as per NZS 3604:2011 and include LVL8 timber grades.

 All timber selections are as per N25 5004.2011 and include EVEC timber gr	a
Fixing through very top plate or capping plate to studs	



Very top plate or capping plate Single STUD-LOK[™] SL170 plus 2/ 90mm x 3.15 dia. nails or 100mm x 3.75 dia. framing nails

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12/2018

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ef.	Description	Date

Orcan Design

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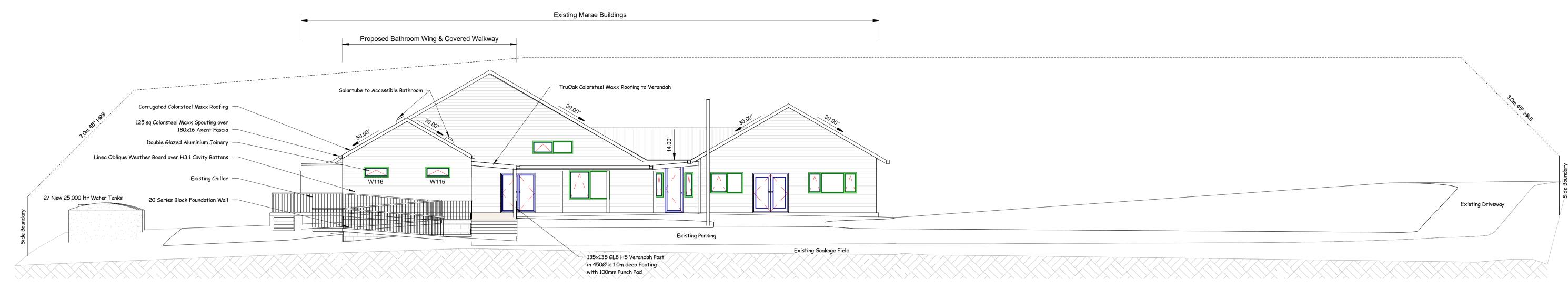
Waihaua Marae 449 Arapaoa Rd

Tinopai 0593

Client: Waihaua Marae

Drawn By: Stephen Orchard Scale: **1:5**

Floor Plan Notes



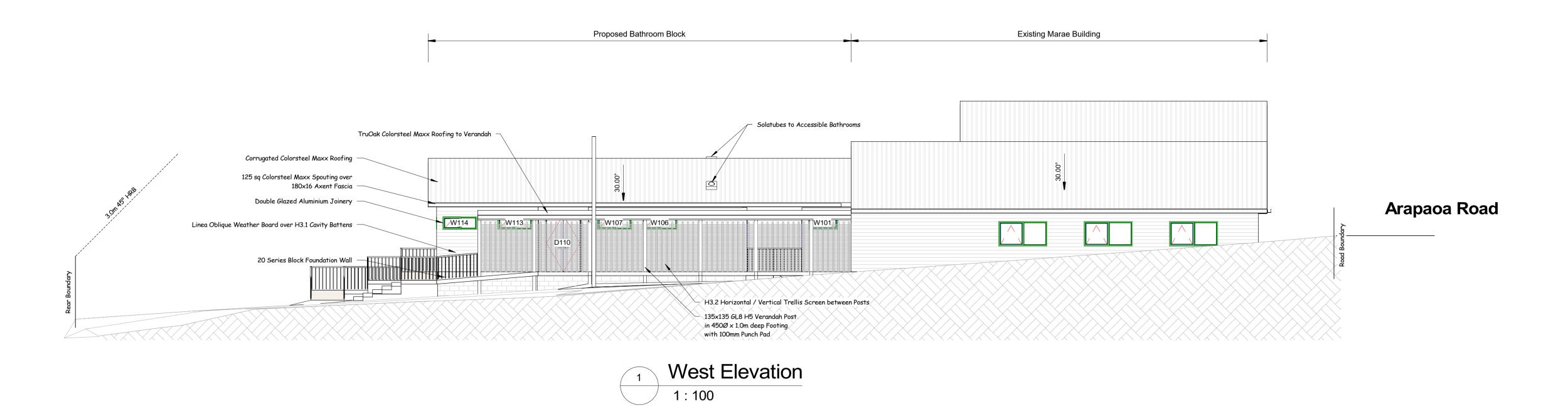
North Elevation
1:100



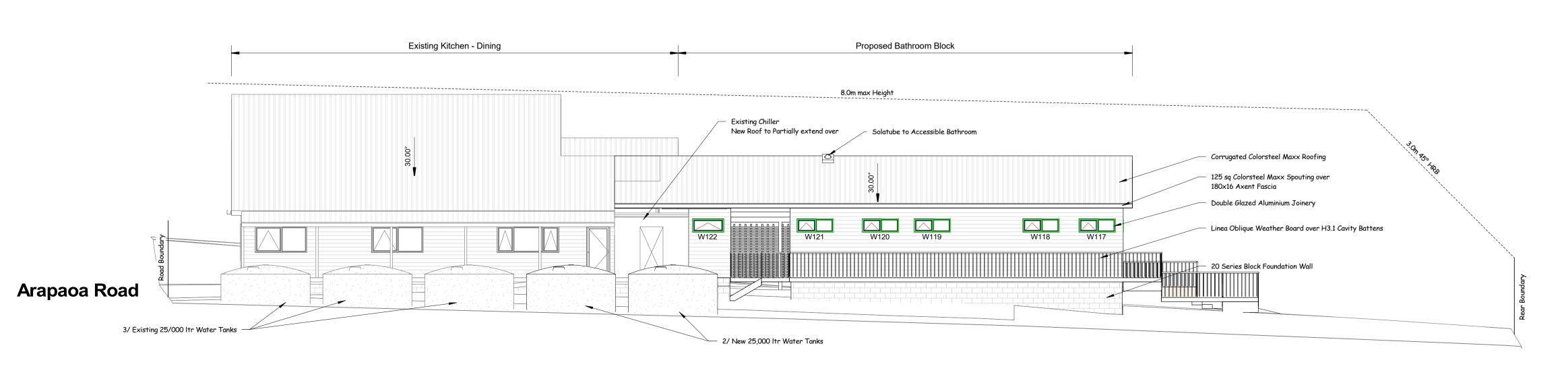
1 : 100



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East Elevation
1:100

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Bathroom Block Rebuild

Address:

Waihaua Marae 449 Arapaoa Rd Tinopai 0593

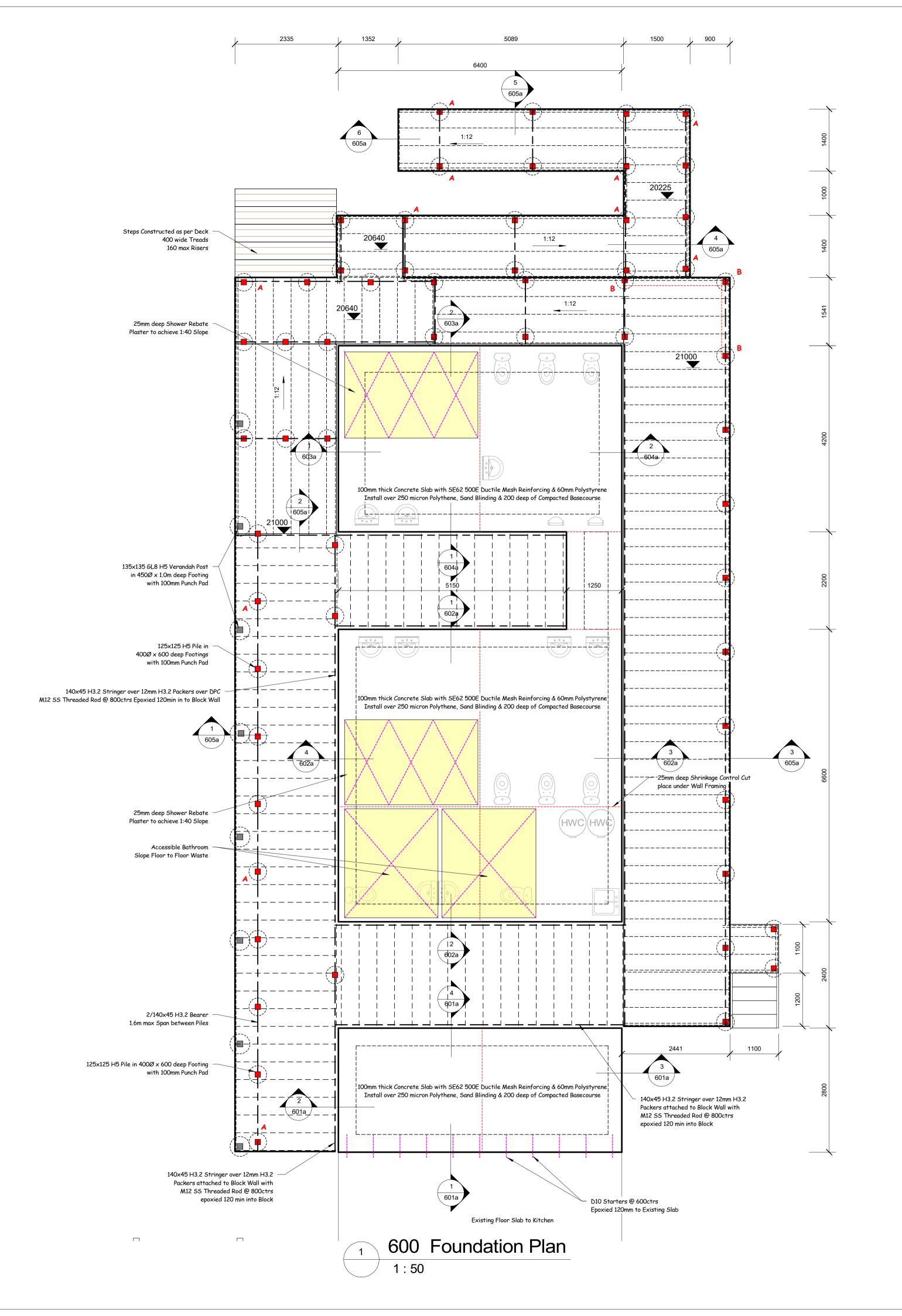
Client: Waihaua Marae

Drawn By: Stephen Orchard
Scale: As indicated

Elevations

501a

Sheet:



Deck & Ramp Notes See Plans and Details for all Pile Types 125×125 H5 RAD All Piles Pile Footings 400Ø x 600 400Ø × 600 Brace Piles 400Ø x 900 **Anchor Piles** 2/140x45 SG8 H3.2 All Bearers 140×45 SG8 H3.2 Stringers 140x45 SG8 H3.2 @ 400ctrs Joists All Joists 20 MPa 19mm Concrete Fixings All Fixings to be 304 Stainless Steel or Better 1pr of 90x3.15 SS Nails & 1pr of SS Wire Dogs Mitek SS 12kN Fixings Brace Piles Anchor Piles 400Ø x 600 Decking Outdure CasaDeck Decking and Fixings 90x90 H3.2 SG8 @ 1.0m ctrs Balustrade 140×45 H3.2 SG8 1.0m high Top Rail 90x70 H3.2 SG8 Bottom Rail 50x40 H3.2 SG8 with <100mm gap between Balustrade Similar construction to Decks Grab Rail @ 900mm above Ramp Surface

Table 3: Laps in concrete. The values for 300 grade differ from those in the current NZS 3604. They come from NZS 3101 (2006) and would be an Alternative

Diameter	Grade 300 laps (mm)	Grade 500 laps (mm)
R10 (plain round)	350 (with hooks)	-
D10 (deformed)	350	550
D12	400	650
D16	500	850

Table 4: Laps in concrete masonry. The values for 300 grade differ from those in the current NZS 3604. They come from NZS 4230 (2004) and would be an **Alternative Solution.**

Diameter	Grade 300 laps (mm)	Grade 500 laps (mm)
R10 (plain round)	800	=
D10 (deformed)	400	700
D12	480	840
D16	640	1,120

Table 5: Minimum bend diameters in mm for rebar (rounded up to the nearest 10 mm). From NZS 3101:2006 Tables 8.1 and 8.2 and clause 8.4.2.

	Rebar type	Bar diameter (mm)								
10000		6	10	12	16	20	25	28	32	40
	Plain bars	30	50	60	80	100	150	170	200	240
Bend (Pin)	Deformed bars	30	50	60	80	100	150	170	200	240
Diameter	Plain bars (stirrups and ties)	20	20	30	40	40	80	-	-	-
	Deformed bars (stirrups and ties)	30	40	50	70	80	150	-	-	-

Pipes & Wastes Through & Under The Floor Slab

Where a Pipe passes through a concrete slab it must:

- Rise through the slab vertically. - Be Sleeved or wrapped in a durable, flexible material

The exposed pipe above the slab should be protected from damage and capped prior to pouring.

Where a Pipe passes through a foundation Wall it must:

- Be a mininimum of 45° to the foundation - Be Sleeved or wrapped in a durable flexible material, with 25min clearance around the pipe

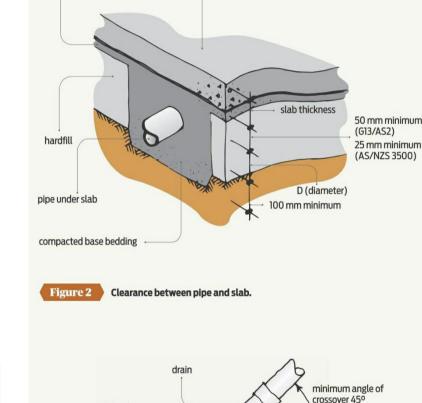
- the pipe should be located within the middle third of the foundation vertically

Where the pipe runs under the slab:

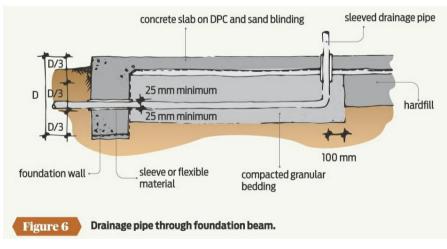
- Be laid straight and with an even gradient - It shall be a minimum of 50mm below the underside of the slab

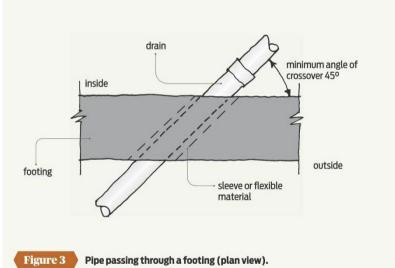
- There shall be 100mm min of sand under and beside the pipe

- All bends under the slab shall be a maximum of 45°



concrete slab on DPC





See Plans and Details for all Footing Information

20 Series Concrete Block

250 micron Polythene

25 MPa 19mm

75mm to earth

35mm above ground

50mm above ground

25mm deep @ 6.0m max ctrs

see NZS 3604 2011 7.5.8.6.1

see NZS3604 2011 fig 7.18

See Gib Details for Bracing Panels

shall not pass through a Shrinkage Control Joint

Mitek M10x140 Blue Bolt Screw Anchors @ 600ctrs

30mm for mesh

720mm HD12

850mm HD12

2/D12x1200long

Wireplus Ductile Plus 62 500E

HD12's @ 600ctrs Vertical and Horizontal

Foundation Notes

Concrete

Block Fill

Reinforcing Cover

Reinforcing Laps

Mesh to Starters

Shrinkage Cuts

Slab Internal Corners

Bottom Plate Fixings

Supplementary Reinforcing Bars

Reinforcing

thickness

Masonry

Mesh

Building Consent

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Address: Waihaua Marae 449 Arapaoa Rd Tinopai 0593

Client: Waihaua Marae

Drawn By: Stephen Orchard Scale: As indicated

Foundation Plan & Details

Sheet:

600a

Verandah Post Note

Table 9.2 & fig 9.3 of NZS 3604 2011

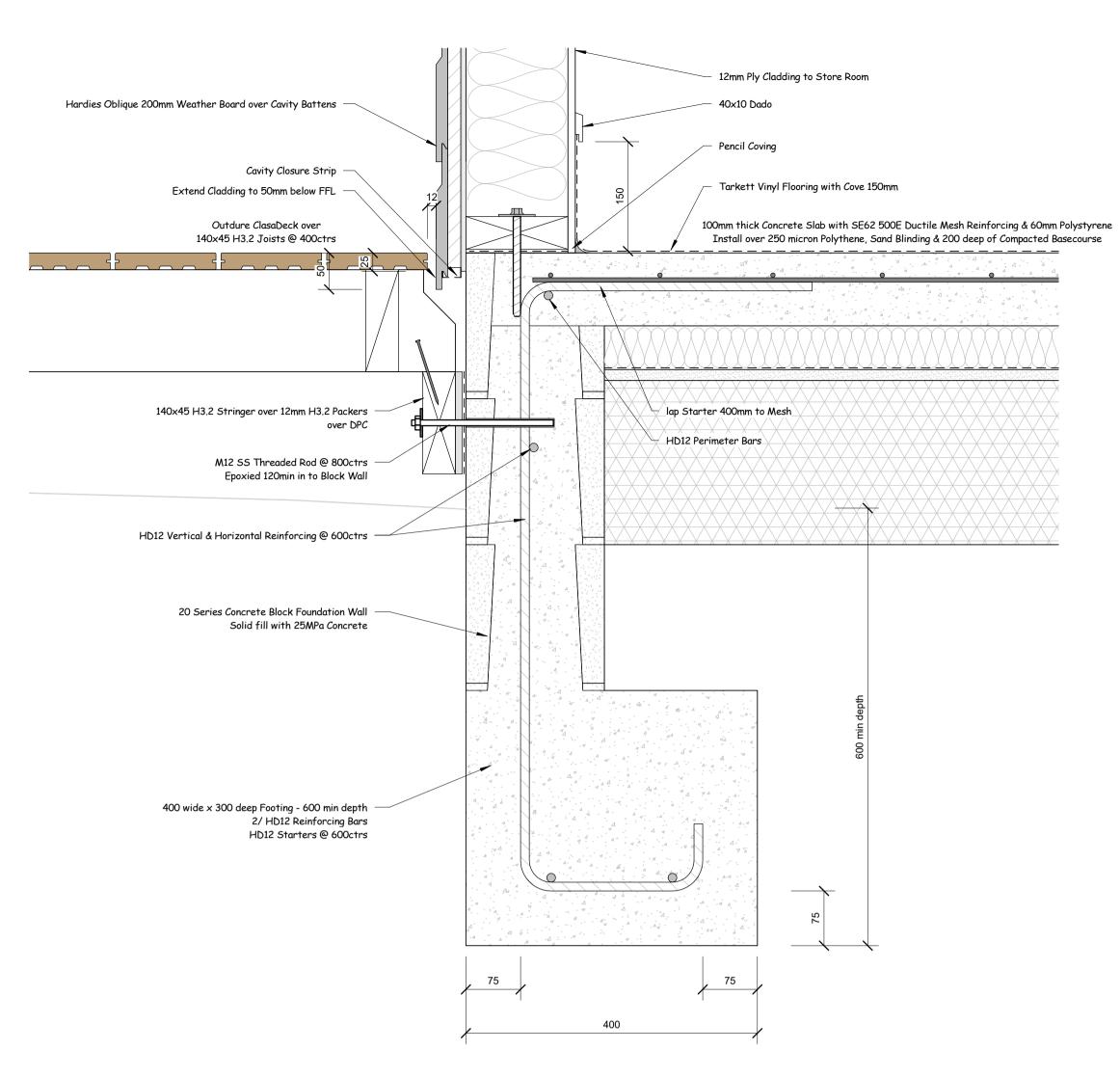
Verandah Post Footing volumes have been taken using Table 9.1 & fig 9.1 of NZS 3604 2011. Verandah Post to Beam connection rating have been taken using

Very High Wind Zone

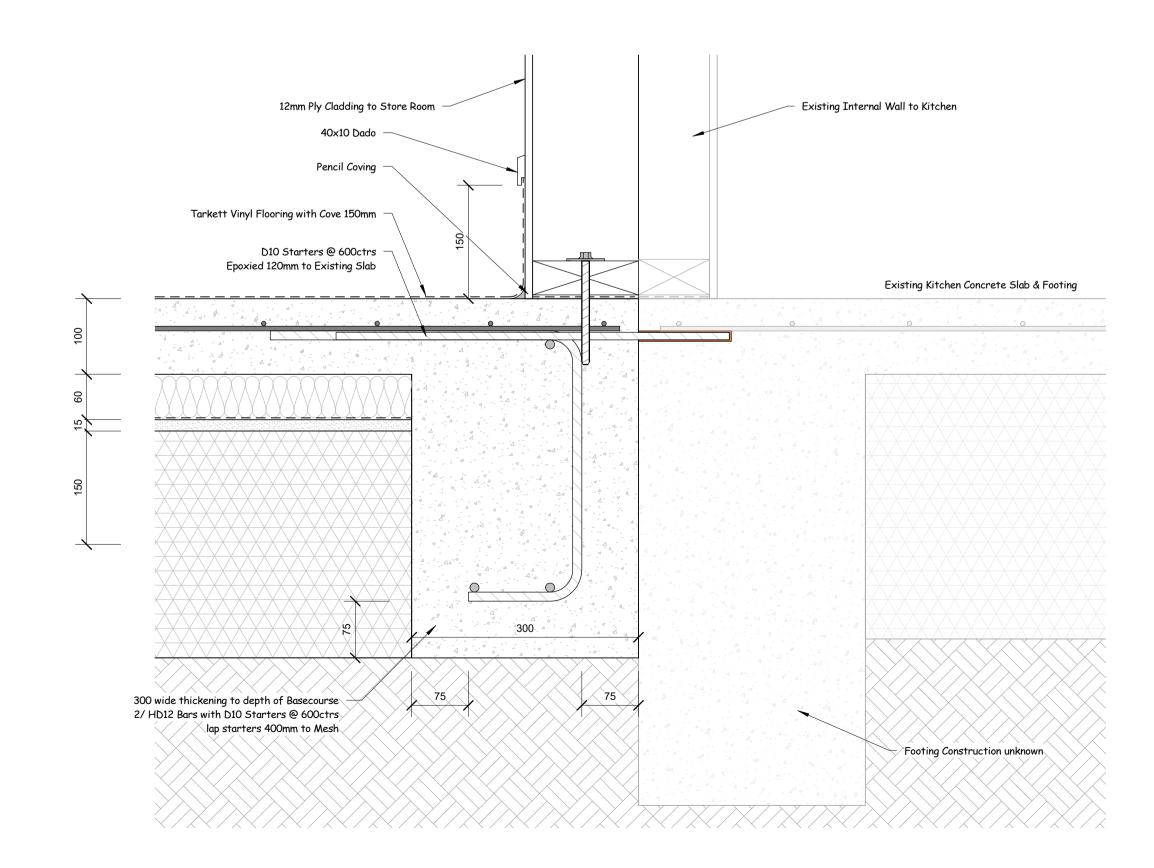
Carport Roof Post 1 Roof Area

2.5m²Footing Volume 450Ø x 1.0m deep Footing Size Uplift Resisting Post Embeded in Footing

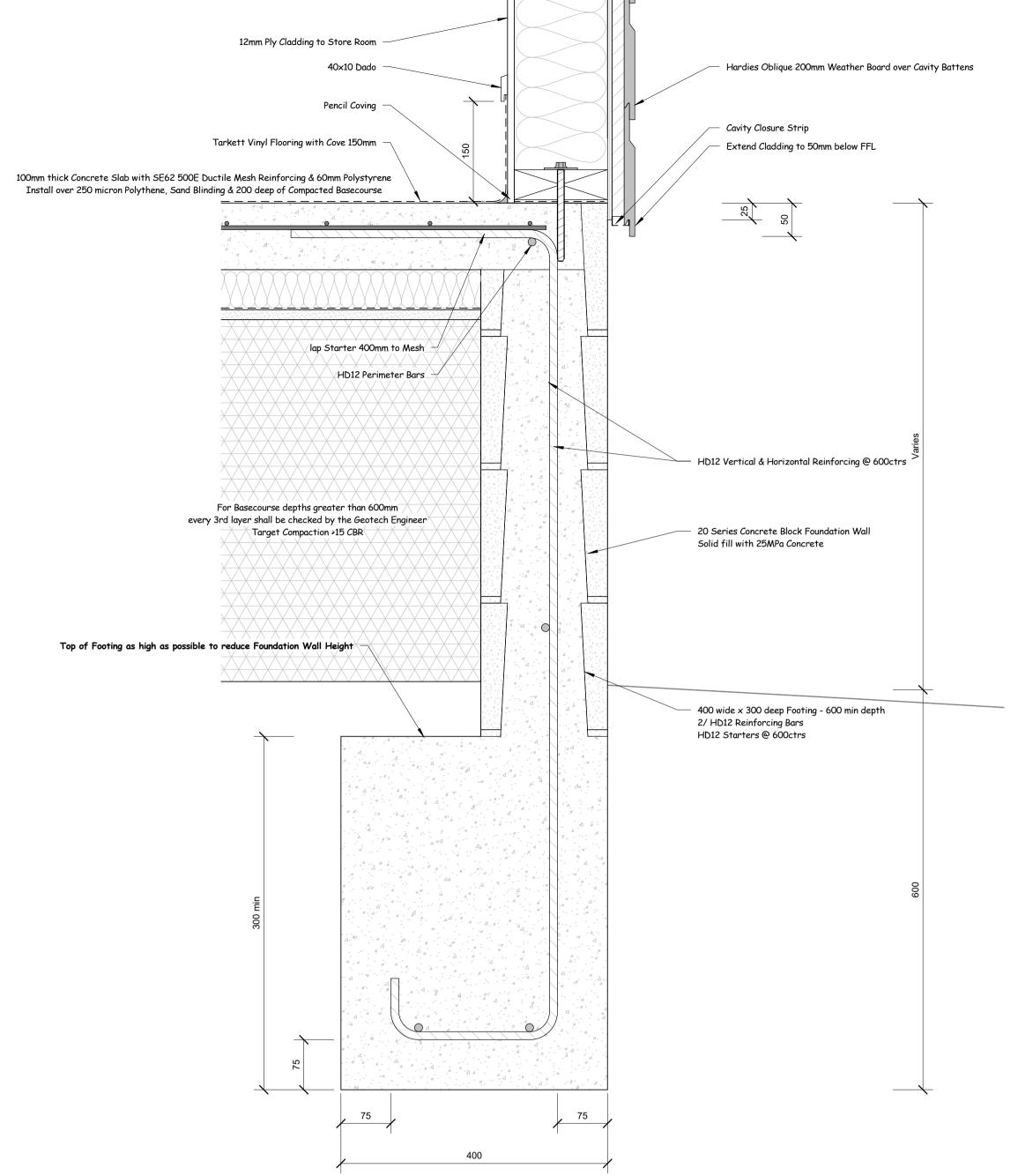
1pr BS85 Bowmac Brackets (6.0kN required)



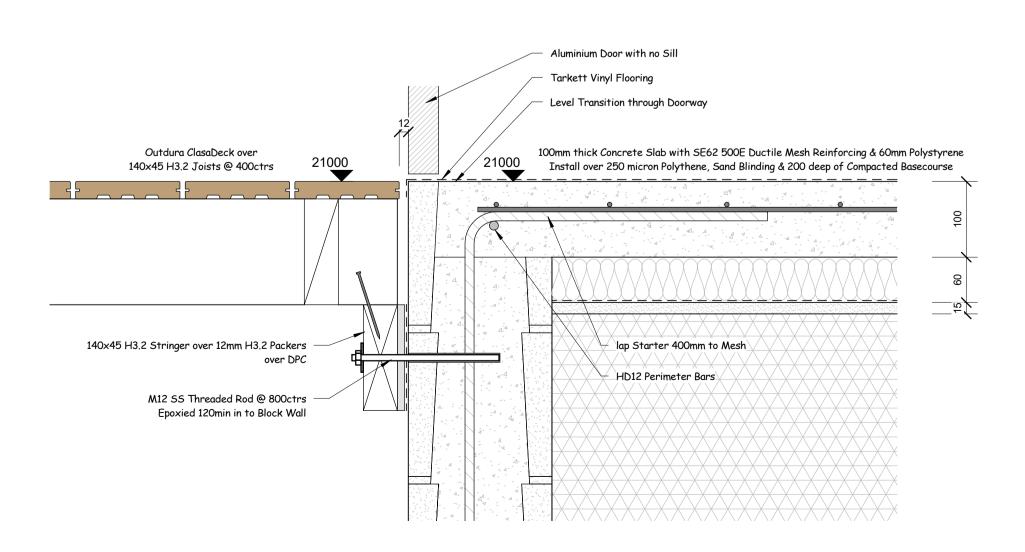
600 Storeroom to Walkway Footing 600a /



600 Storeroom to Kitchen Footing



600 Storeroom External Footing



600 Storage Room Doorwary Footing
1:5

Written Dimensions take precedent over scaled dimensions The Contractor shall check and verify all dimensions on site. Any discrepancy shall be referred to the designer for clarification. These Drawings shall be read in conjunction with the project and manufacturers specifications. Construction practices shall be accordance with the NZ Building Code and relevant NZ Standards. These Drawings and the Design are copyright to and remain the property of Orcan Ltd Notes:

Building Consent

Issue Dates:				

Revision Schedule

ef.	Description	Date

Orcan Design

279 Mountain Rd, RD 2, Maungaturoto 0587 Ph 09 431-2827 or mob 027 292-8820 email stephen@orcandesign.org

No: **CD 765** Bathroom Block Rebuild

Address: Waihaua Marae 449 Arapaoa Rd

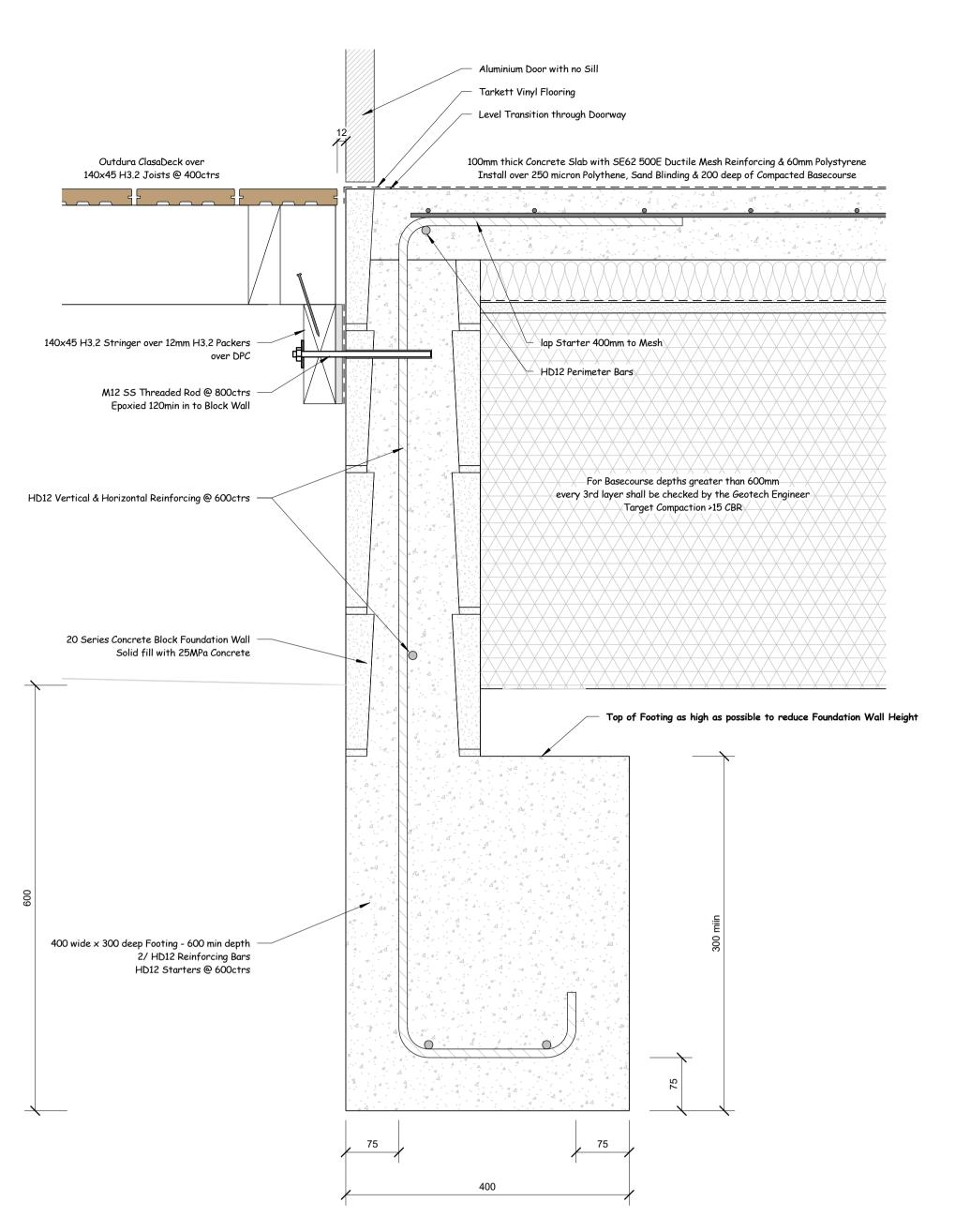
Tinopai 0593

Client: Waihaua Marae

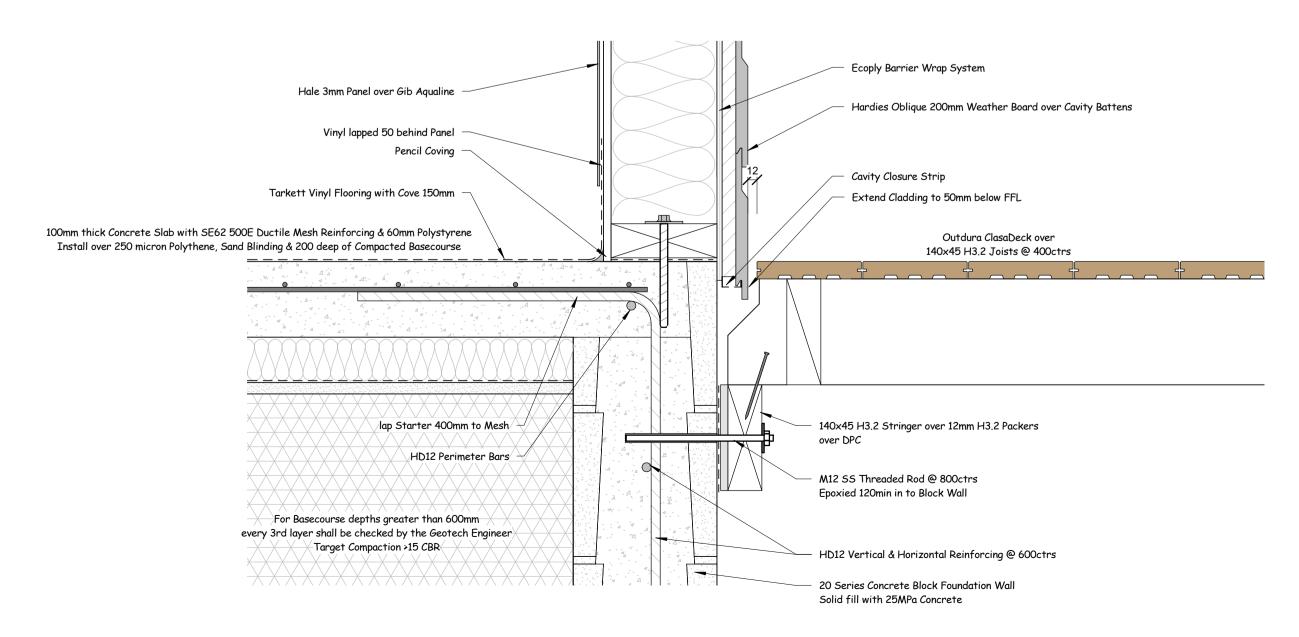
Drawn By: Stephen Orchard Scale: **1:5**

Foundation Details -Storeroom

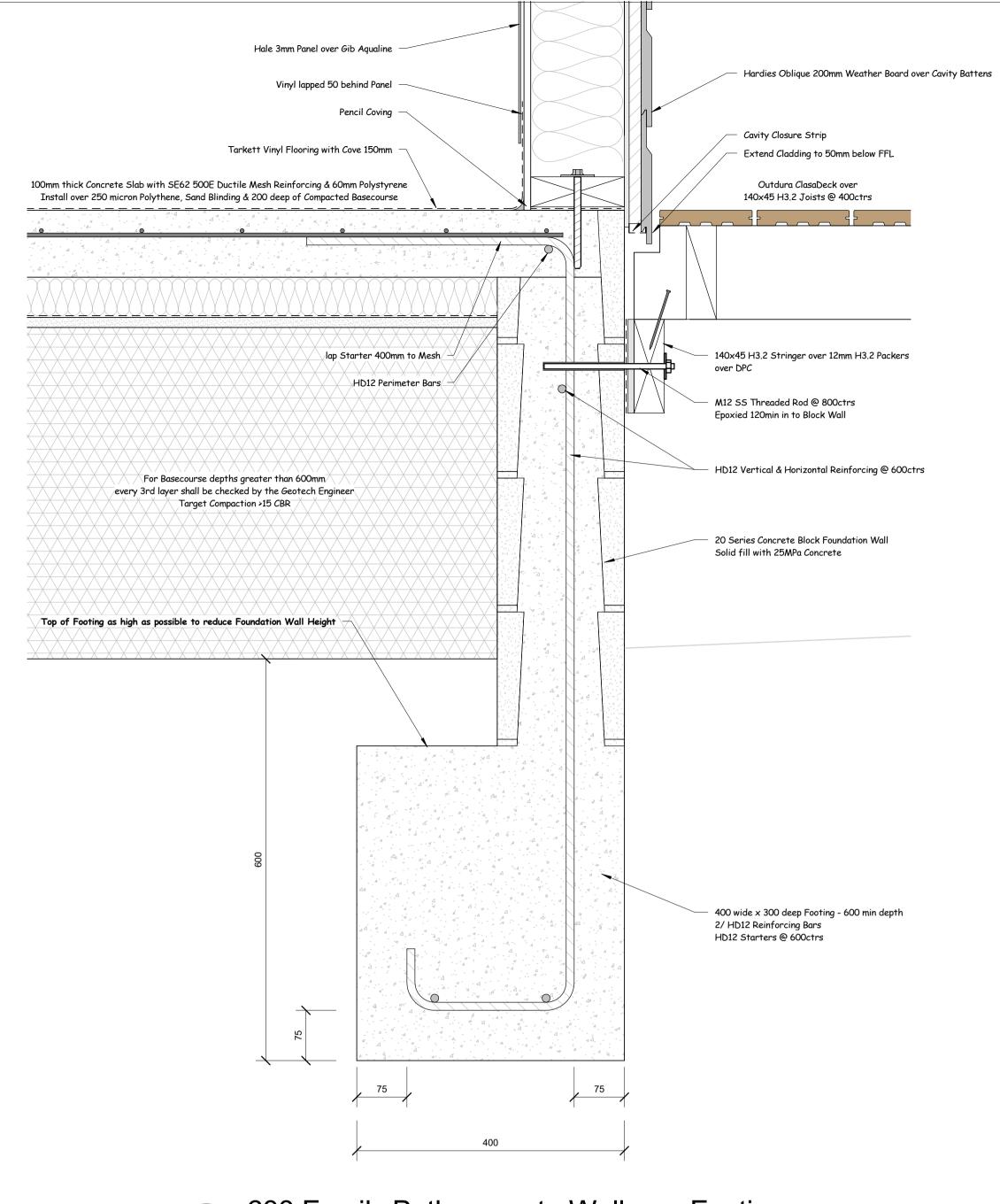
Sheet:



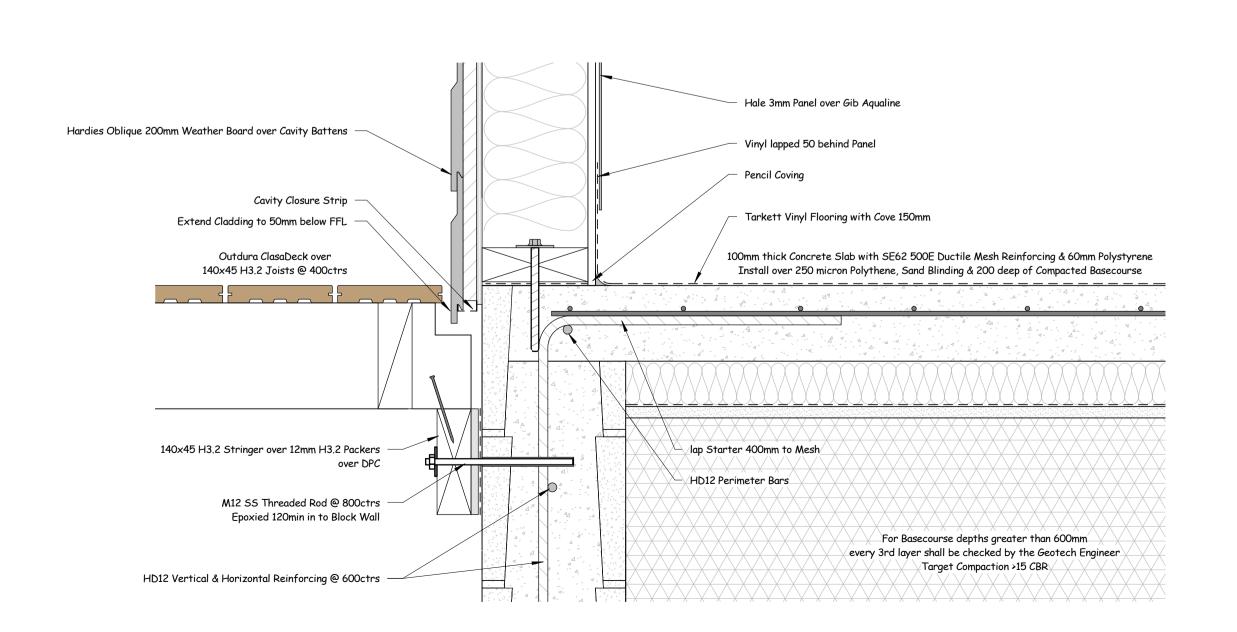
600 Ladies Shower Door Footing



600 Ladies Bathroom External Footing



600 Family Bathrooms to Walkway Footing



600 Ladies Bathroom to Walkway Footing
1:5

Ladies Bathroom

Sheet:

Address:

Waihaua Marae 449 Arapaoa Rd

Client: Waihaua Marae

Scale: **1:5**

Drawn By: Stephen Orchard

Foundation Details -

Tinopai 0593

602a

No: **CD 765**

Written Dimensions take precedent over scaled dimensions The Contractor shall check and verify all dimensions on

site. Any discrepancy shall be referred to the designer for

These Drawings shall be read in conjunction with the

Construction practices shall be accordance with the

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NZ Building Code and relevant NZ Standards.

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Revision Schedule

Description

279 Mountain Rd, RD 2, Maungaturoto 0587 Ph 09 431-2827 or mob 027 292-8820

Bathroom Block Rebuild

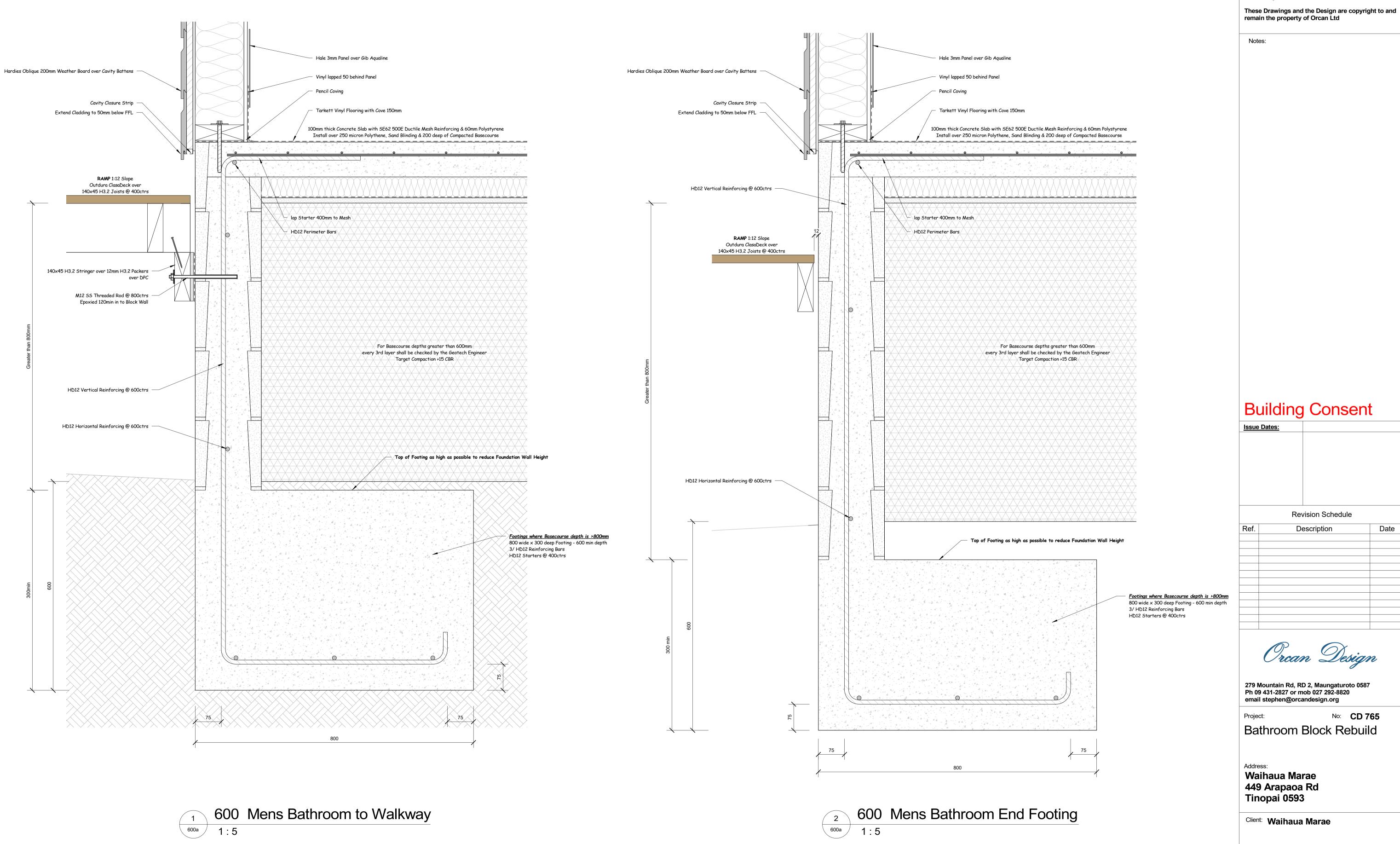
email stephen@orcandesign.org

Date

Issue Dates:

clarification.

Notes:



Written Dimensions take precedent over scaled dimensions The Contractor shall check and verify all dimensions on site. Any discrepancy shall be referred to the designer for clarification.

These Drawings shall be read in conjunction with the project and manufacturers specifications.

Construction practices shall be accordance with the NZ Building Code and relevant NZ Standards.

Building Consent

Date



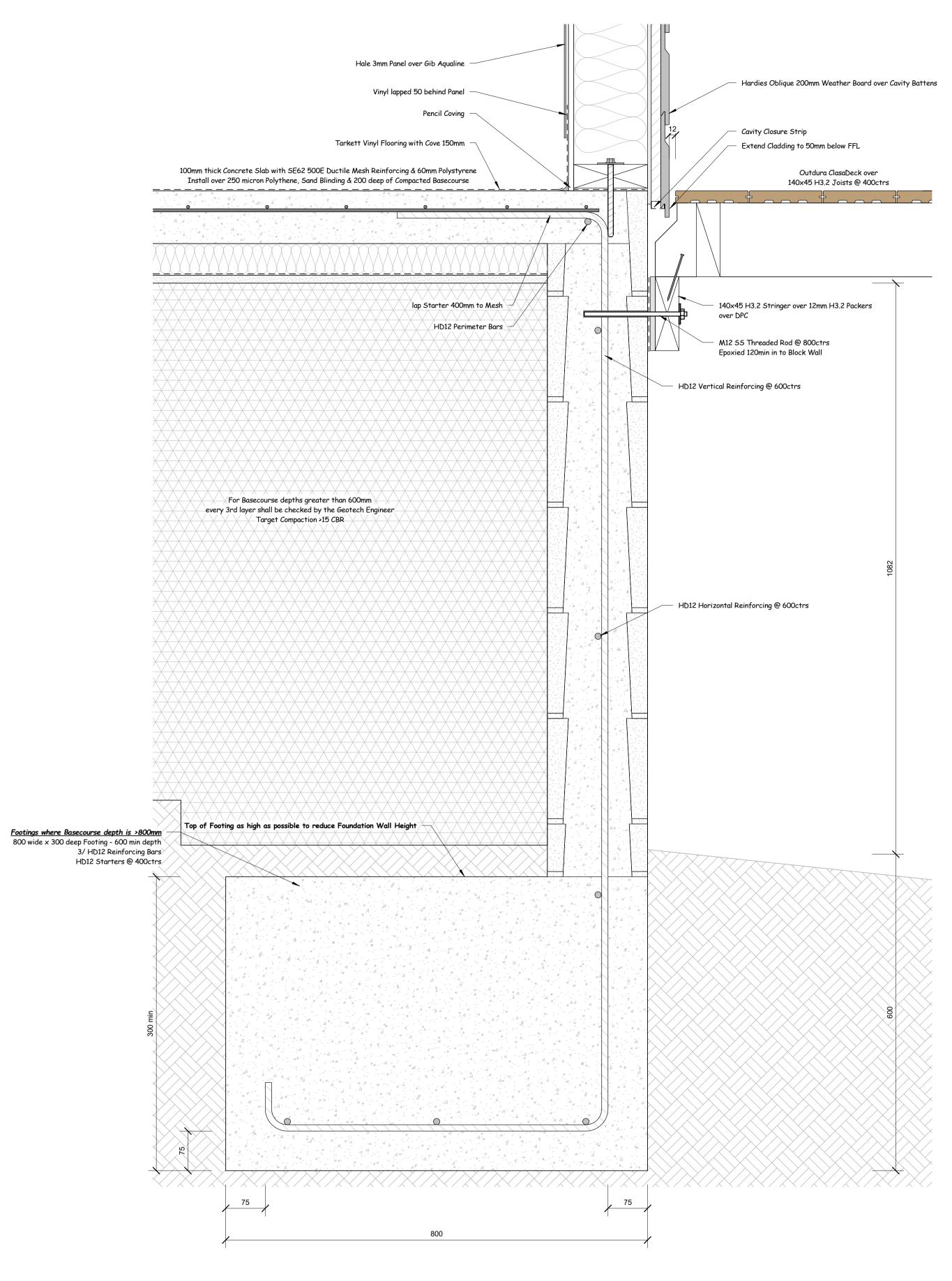
279 Mountain Rd, RD 2, Maungaturoto 0587 Ph 09 431-2827 or mob 027 292-8820 email stephen@orcandesign.org

No: **CD 765**

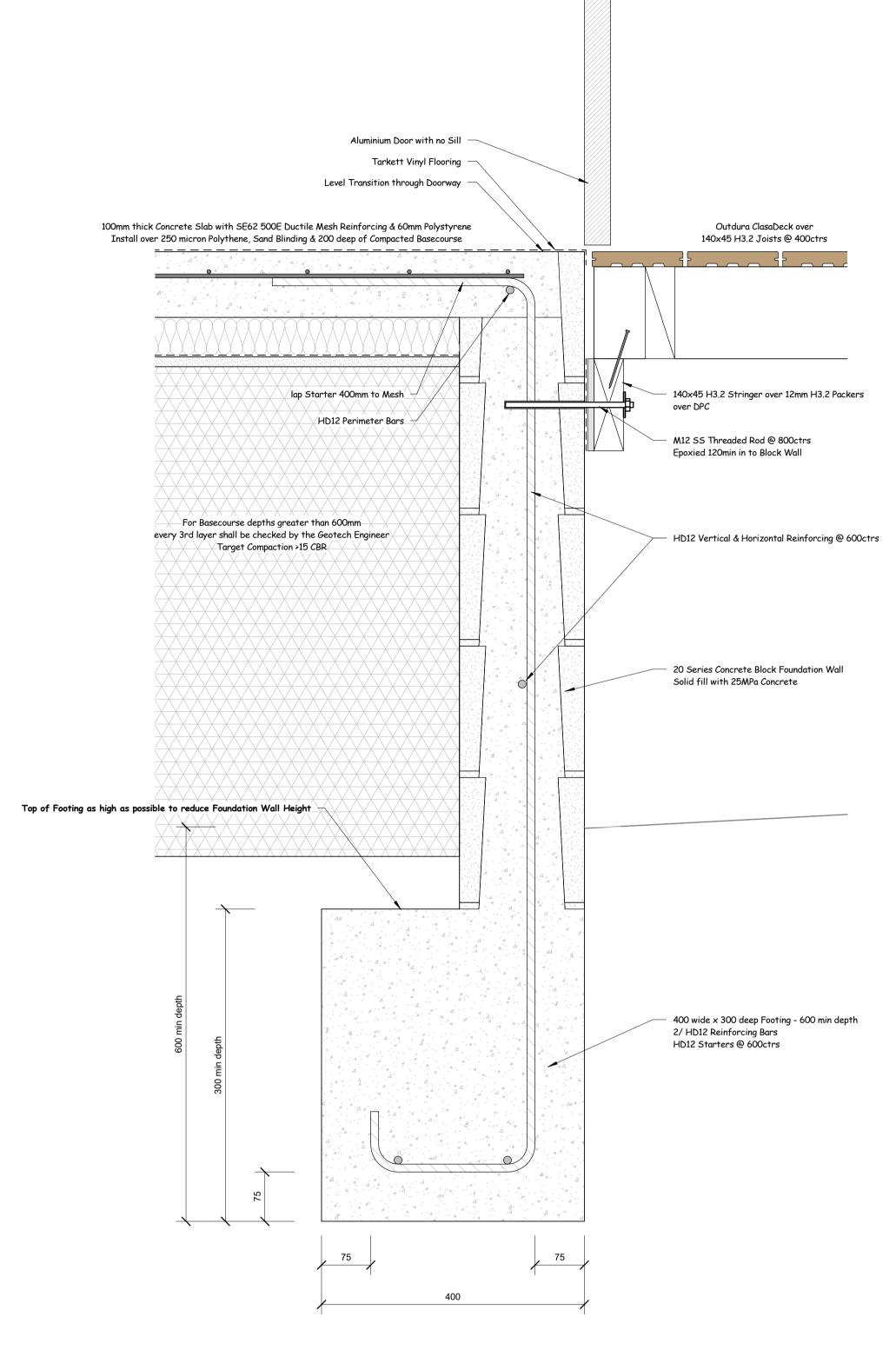
Drawn By: Stephen Orchard

Scale: **1:5** Foundation Details -

Mens Bathroom 603a



600 Mens Bathroom External Footing



600 Mens Bathroom Door Footing

site. Any discrepancy shall be referred to the designer for clarification. These Drawings shall be read in conjunction with the

project and manufacturers specifications.

Construction practices shall be accordance with the NZ Building Code and relevant NZ Standards.

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Written Dimensions take precedent over scaled dimensions The Contractor shall check and verify all dimensions on

Notes:

Building Consent

Issue Dates:

Revision Schedule

Date Description

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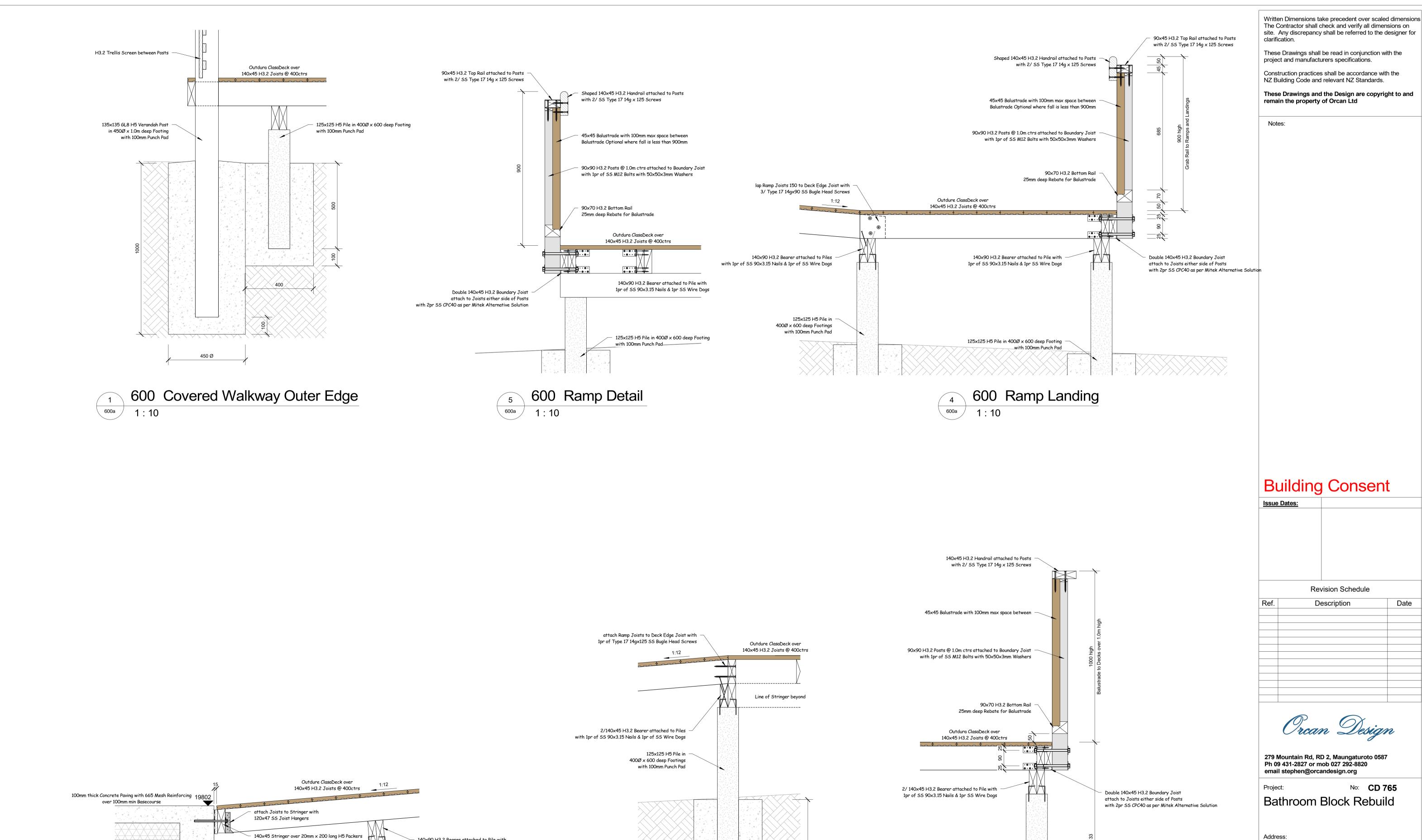
No: **CD 765** Bathroom Block Rebuild

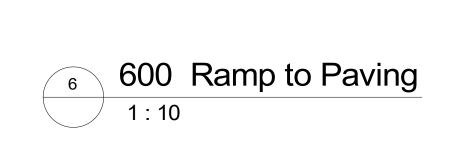
Waihaua Marae 449 Arapaoa Rd Tinopai 0593

Client: Waihaua Marae

Drawn By: Stephen Orchard Scale: 1:5

Foundation Details -Mens Bathroom





_120deep @ 700 ctrs

300min depth x 200 wide Footing

attach to Paving with M12 Threaded Rod epoxied

140x90 H3.2 Bearer attached to Pile with

1pr of SS 90x3.15 Nails & 1pr SS Wire Dogs

125×125 H5 Pile in 400Ø × 600 deep Footing

with 100mm Punch Pad





125×125 H5 Pile in 400Ø x 600 deep Footing

with 100mm Punch Pad

Tinopai 0593 Client: Waihaua Marae

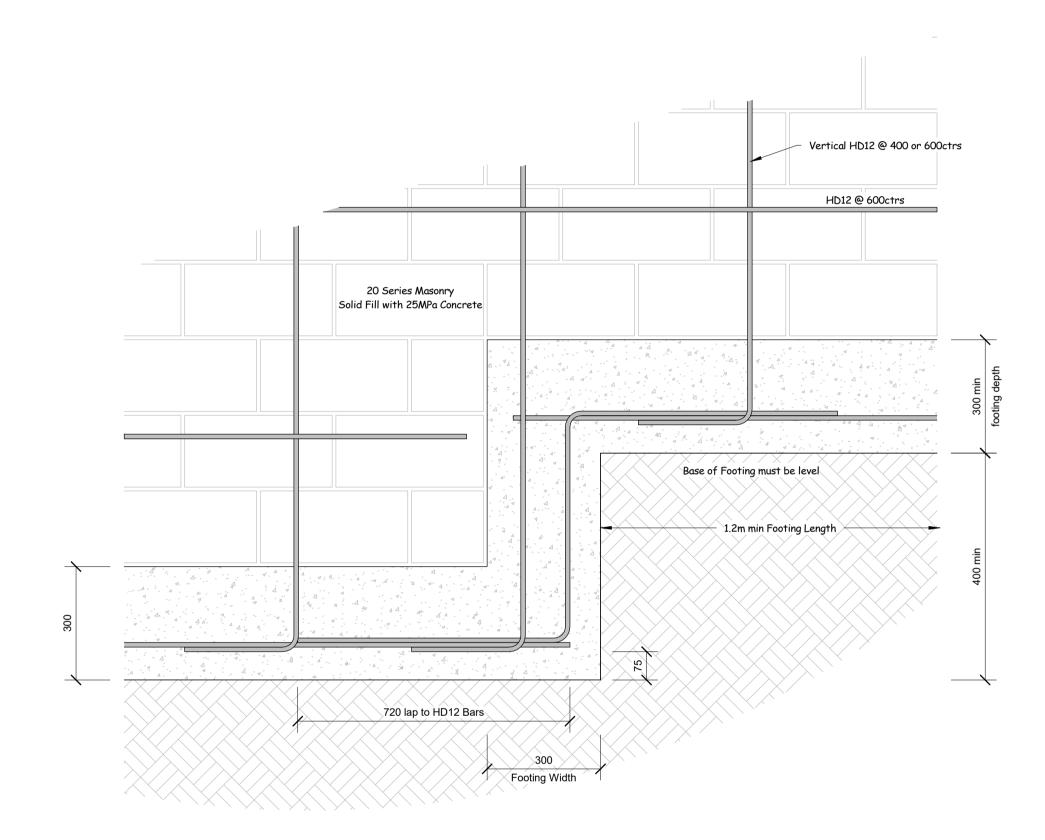
Waihaua Marae

449 Arapaoa Rd

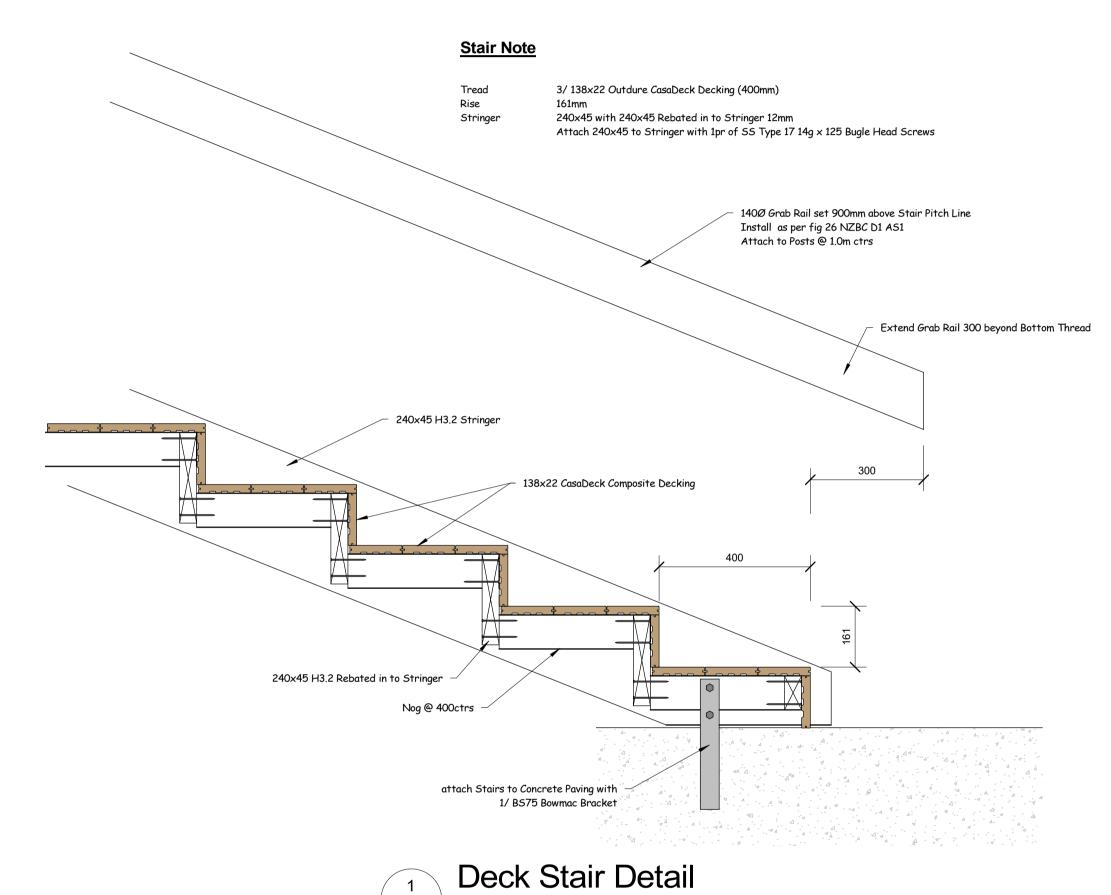
Sheet:

Drawn By: Stephen Orchard Scale: 1:10

Foundation Details -Decks and Ramps



2 600 Step In Footing 1:10



Building Consent

Written Dimensions take precedent over scaled dimensions

The Contractor shall check and verify all dimensions on site. Any discrepancy shall be referred to the designer for clarification.

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Construction practices shall be accordance with the NZ Building Code and relevant NZ Standards.

Notes:

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Dullall	g Consent
Issue Dates:	

Revision Schedule

Ref.	Description	Date



279 Mountain Rd, RD 2, Maungaturoto 0587 Ph 09 431-2827 or mob 027 292-8820 email stephen@orcandesign.org

No: **CD 765** Bathroom Block Rebuild

Waihaua Marae 449 Arapaoa Rd

Tinopai 0593

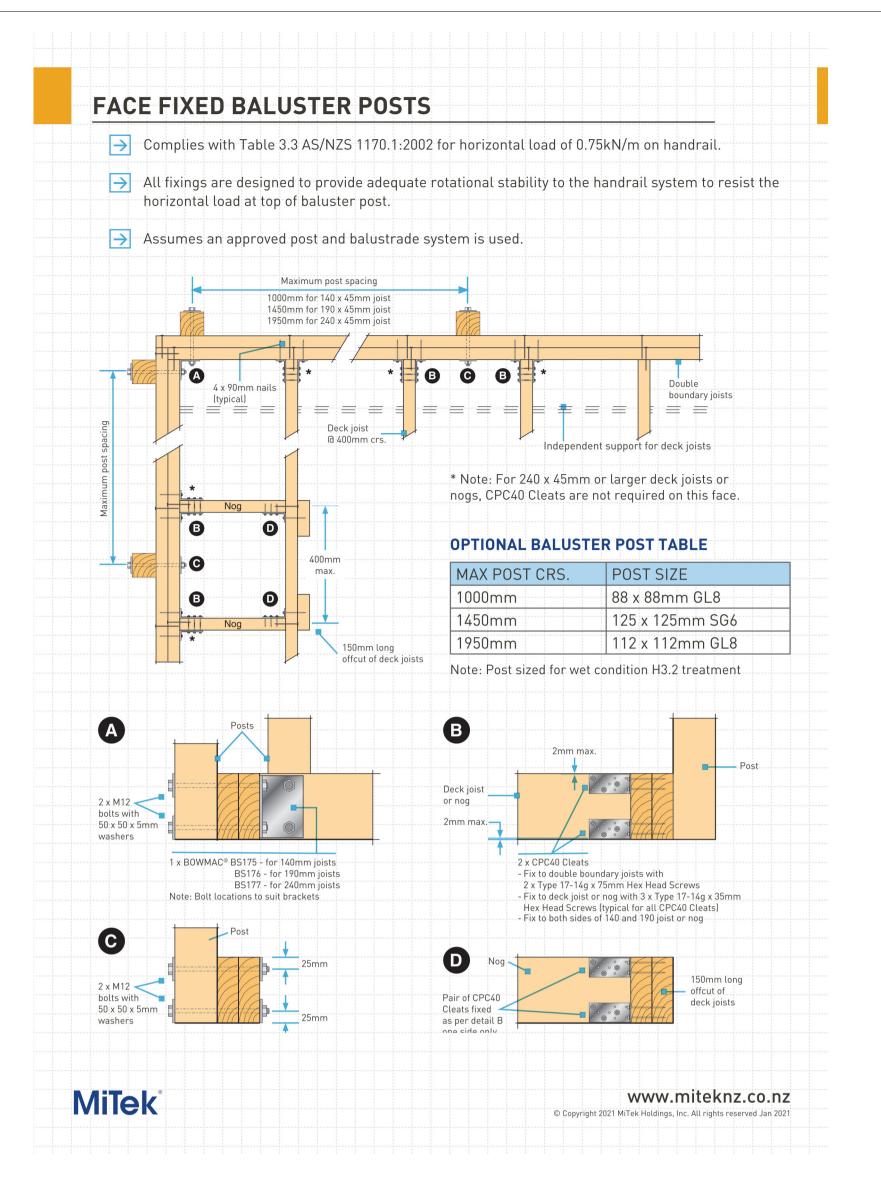
Client: Waihaua Marae

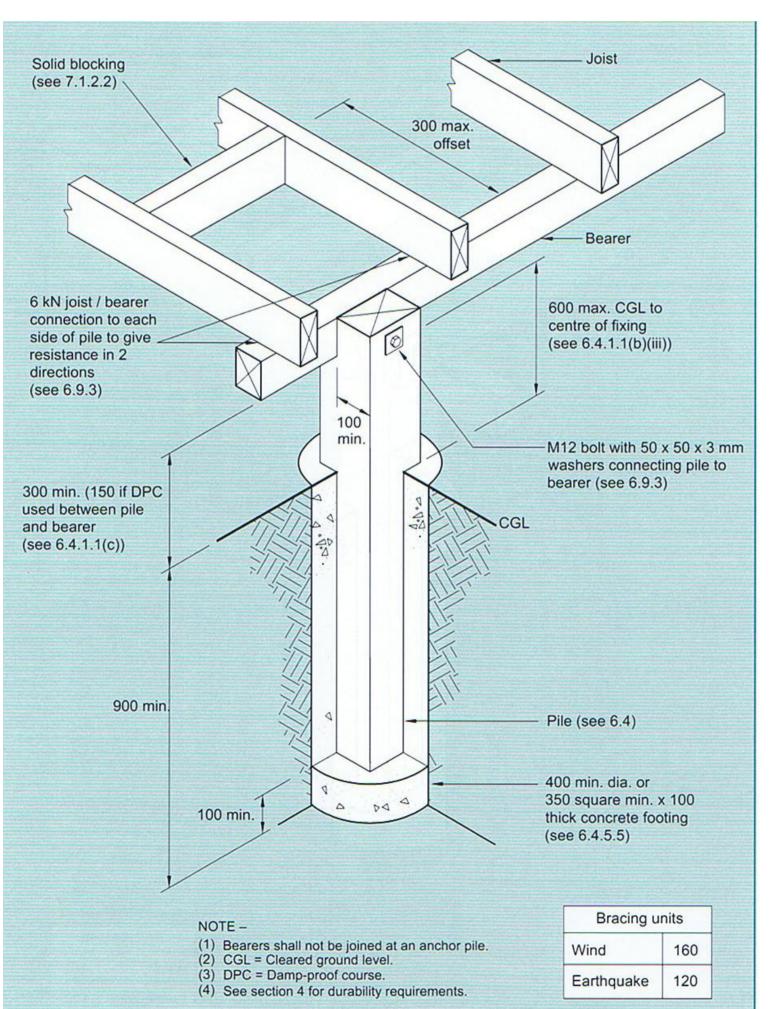
Drawn By: Stephen Orchard Scale: **1:10**

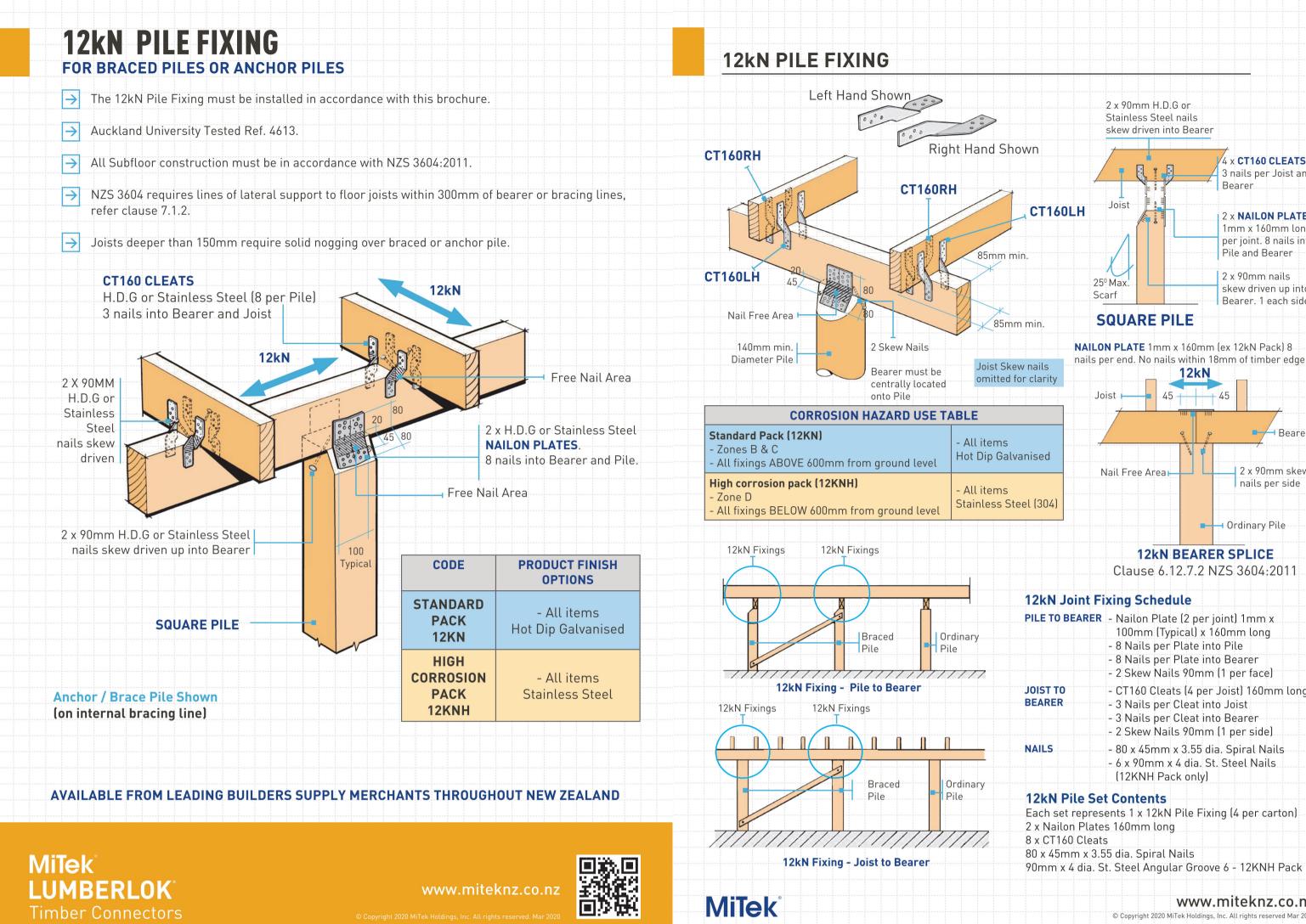
Foundation Details

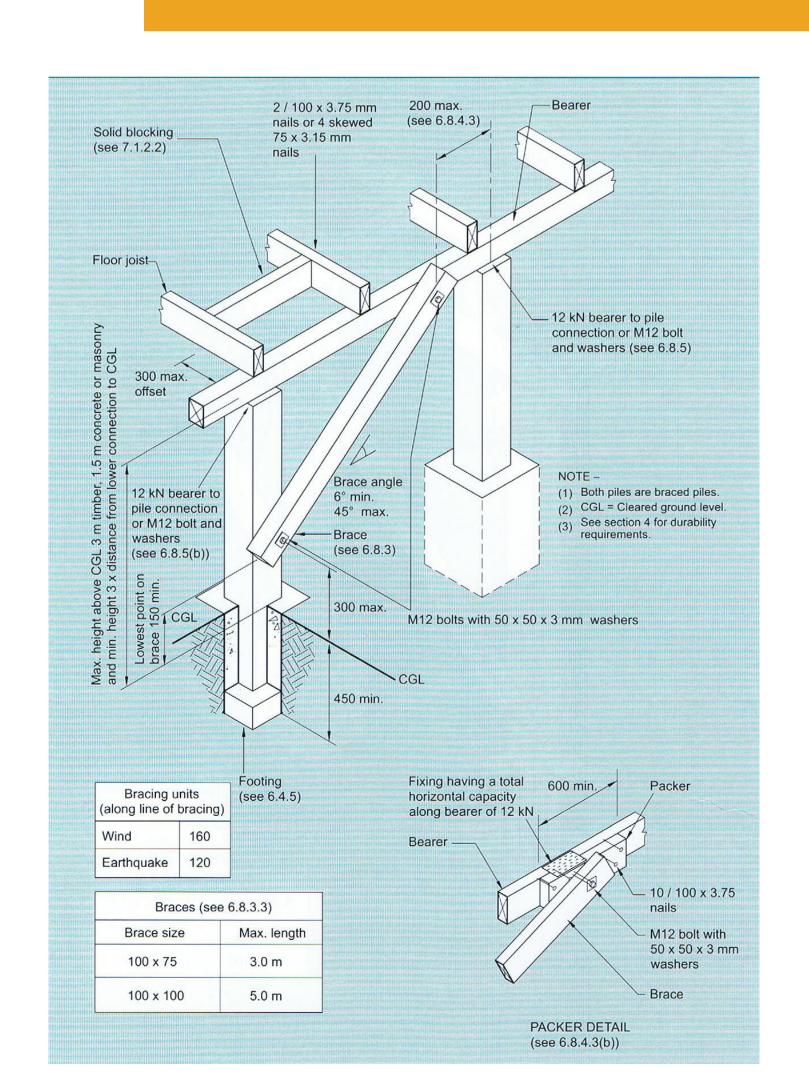
606a

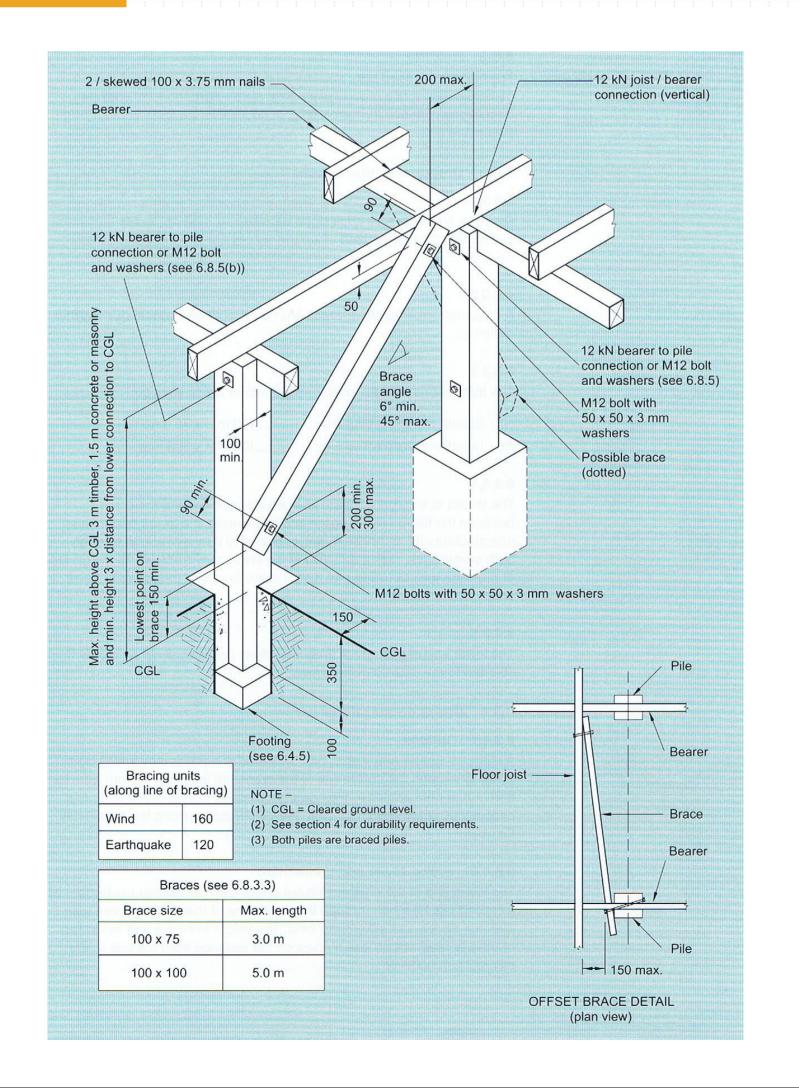
Sheet:











			Written Dimensions take precedent over scaled dimensi The Contractor shall check and verify all dimensions on site. Any discrepancy shall be referred to the designer f clarification.
			These Drawings shall be read in conjunction with the project and manufacturers specifications.
	2 x 90mm H.D.G or Stainless Steel nails skew driven into Beare	г	Construction practices shall be accordance with the NZ Building Code and relevant NZ Standards.
own		4 x CT160 CLEATS 3 nails per Joist and Bearer	These Drawings and the Design are copyright to and remain the property of Orcan Ltd
CT160	LH Joist	2 x NAILON PLATES 1mm x 160mm long per joint. 8 nails into Pile and Bearer	Notes:
	25º Max. Scarf	2 x 90mm nails skew driven up into Bearer. 1 each side	
m min.	SQUARE PILE		
ew nails or clarity	NAILON PLATE 1mm x 160mm nails per end. No nails within 12kN	18mm of timber edge	
	Joist 45	+ 45	

___ 2 x 90mm skew

nails per side

Ordinary Pile

12kN BEARER SPLICE

Clause 6.12.7.2 NZS 3604:2011

100mm (Typical) x 160mm long

- 8 Nails per Plate into Pile

- 8 Nails per Plate into Bearer

- 3 Nails per Cleat into Joist

(12KNH Pack only)

- 3 Nails per Cleat into Bearer

- 2 Skew Nails 90mm (1 per side)

- 80 x 45mm x 3.55 dia. Spiral Nails - 6 x 90mm x 4 dia. St. Steel Nails

- 2 Skew Nails 90mm (1 per face)

- CT160 Cleats (4 per Joist) 160mm long

www.miteknz.co.nz

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Nail Free Area

Bui	ldina	Consent

Issue Dates:	
Rev	vision Schedule

Ref.	Description	Date
	Orcan Design	
	Vrcan Design	2
	c court cong.	

279 Mountain Rd, RD 2, Maungaturoto 0587 Ph 09 431-2827 or mob 027 292-8820

email stephen@orcandesign.org No: **CD 765**

Bathroom Block Rebuild

Address:

Waihaua Marae

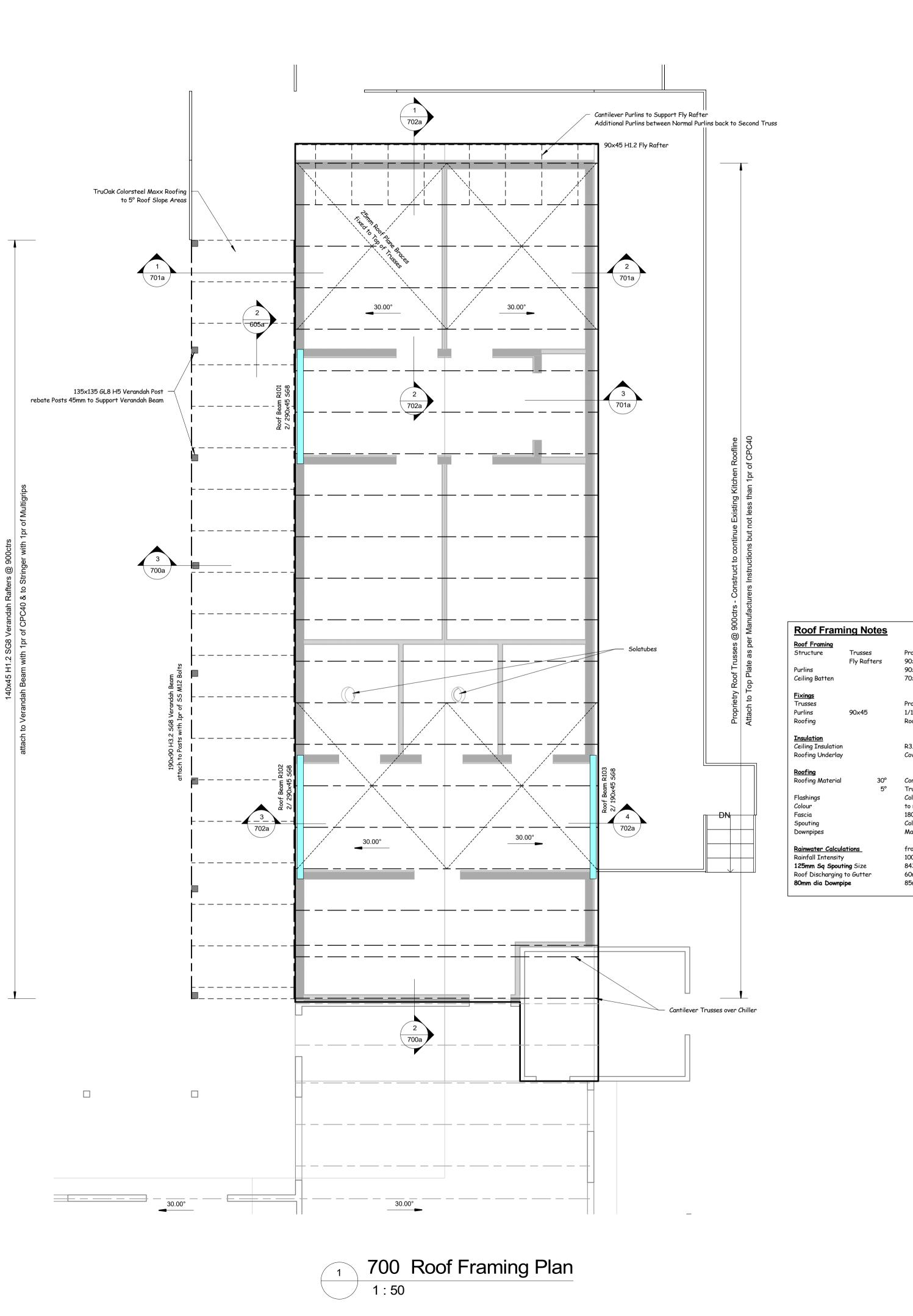
449 Arapaoa Rd

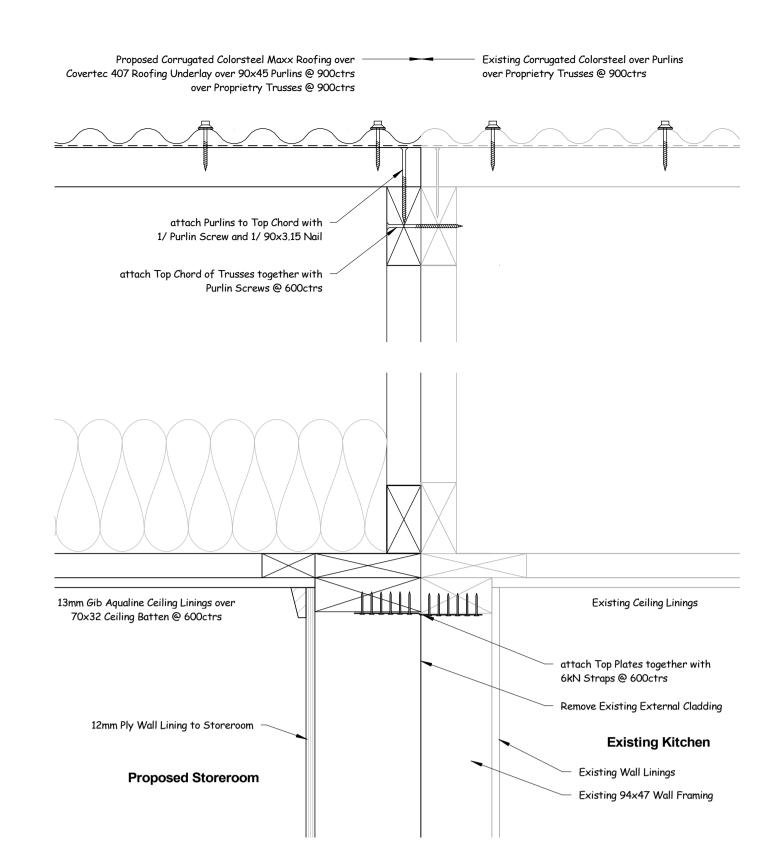
Tinopai 0593

Client: Waihaua Marae

Drawn By: Stephen Orchard Scale:

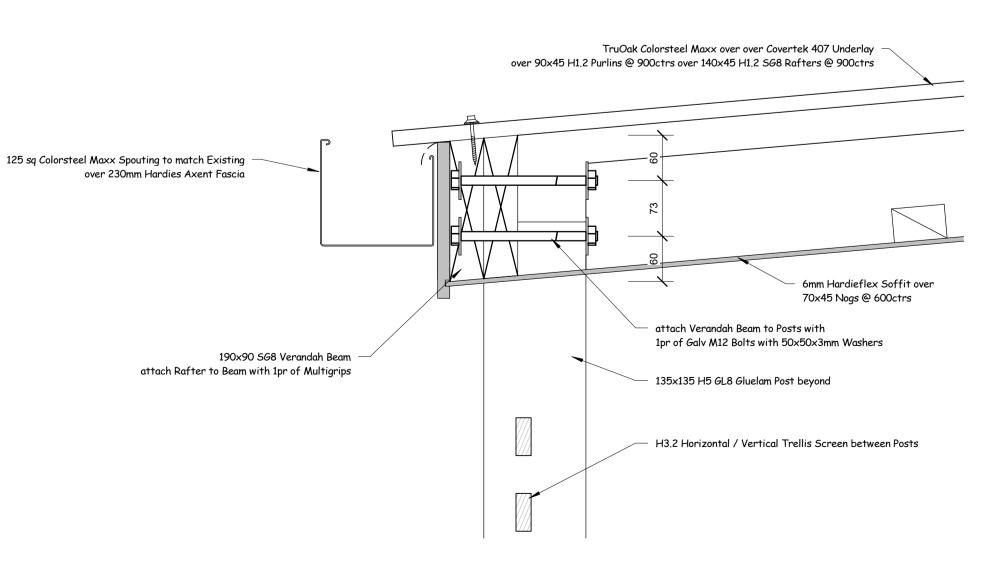
Foundation Details -**Alternative Solutions**





700 Proposed Roof to Existing Roof
1:5

Proprietry Trusses @ 900 ctrs 90x45 H1.2 SG8 90×45 H1.2 SG8 @ 600ctrs 70x32 H1.2 @ 600 ctrs Proprietry Trusses as per Manufacturers Details 1/10gx80 Purlin Screw & 1/90x3.15 Nail Roofing Screws colour matched to Roofing R3.6c Mammoth Covertec 407 Self Supporting Roofing Underlay placed Vertical Corrugated Coloursteel Maxx TruOak Colorsteel Maxx Colorsteel Maxx as required to waterproof roof to match existing Roof 180×18 H3.1 PP Coloursteel Maxx 125mm Square Marley 80mm PVC from E1 AS1 & Continuous Spouting Website 100mm for a 10% probability of 100mm in 10 minutes from (Appedix A) 60m² @ 100mm Rainfall for >25° Roof Pitch from (fig 15) 85m² from (Table 5)



700 Verandah Post to Fascia
1:5

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Notes:

Building Consent

Issue Dates:

Revision Schedule

Date Description

279 Mountain Rd, RD 2, Maungaturoto 0587 Ph 09 431-2827 or mob 027 292-8820 email stephen@orcandesign.org

No: **CD 765** Bathroom Block Rebuild

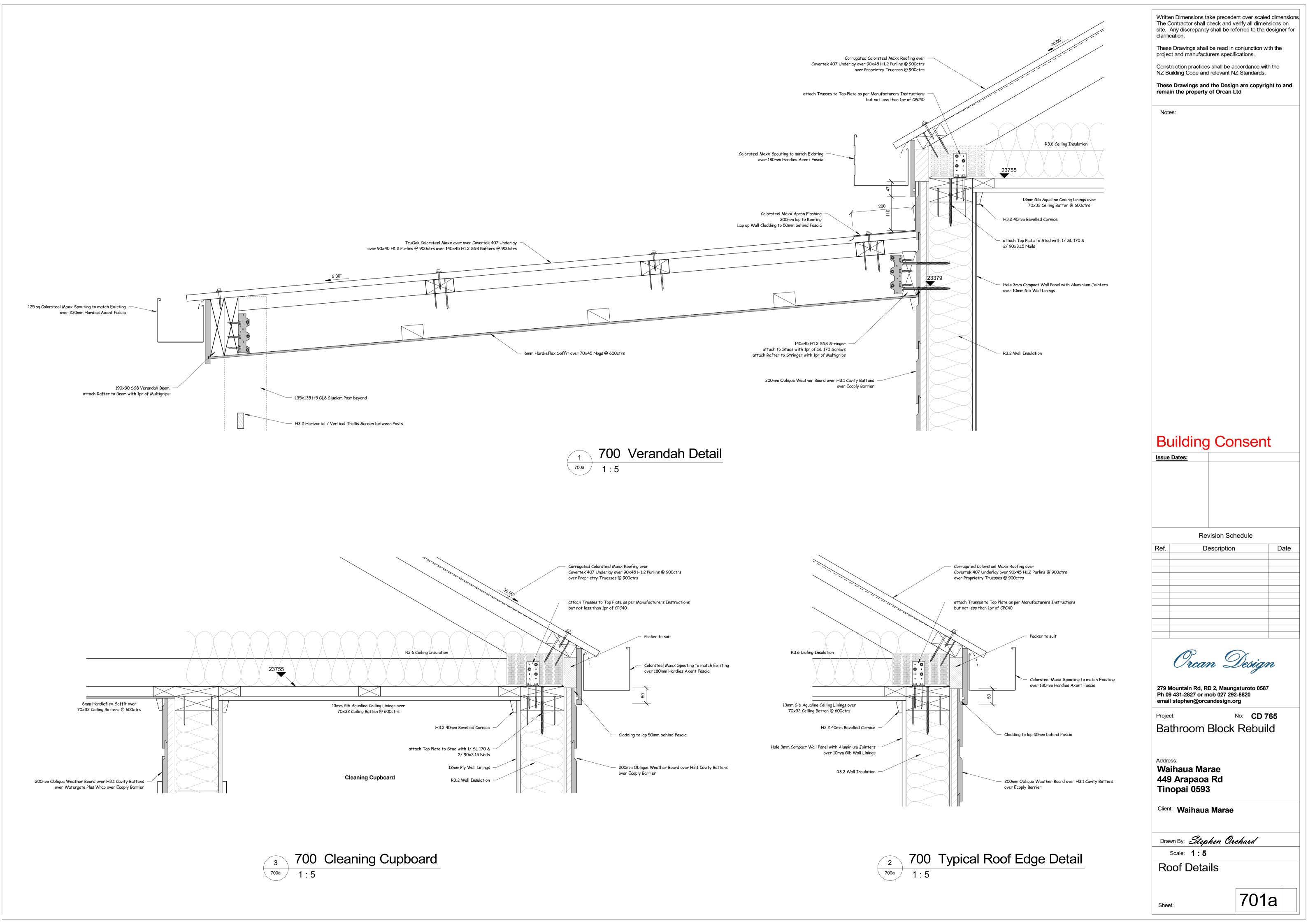
Waihaua Marae 449 Arapaoa Rd Tinopai 0593

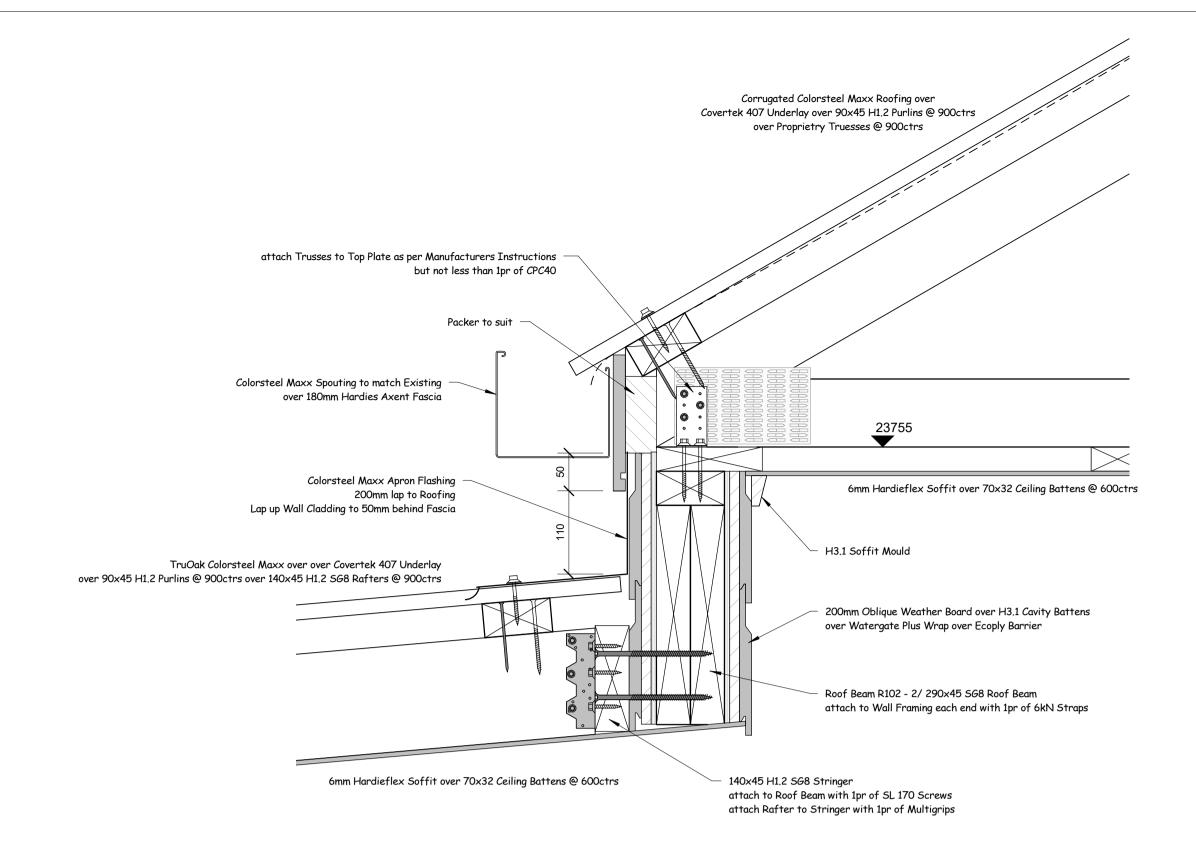
Client: Waihaua Marae

Drawn By: Stephen Orchard Scale: As indicated

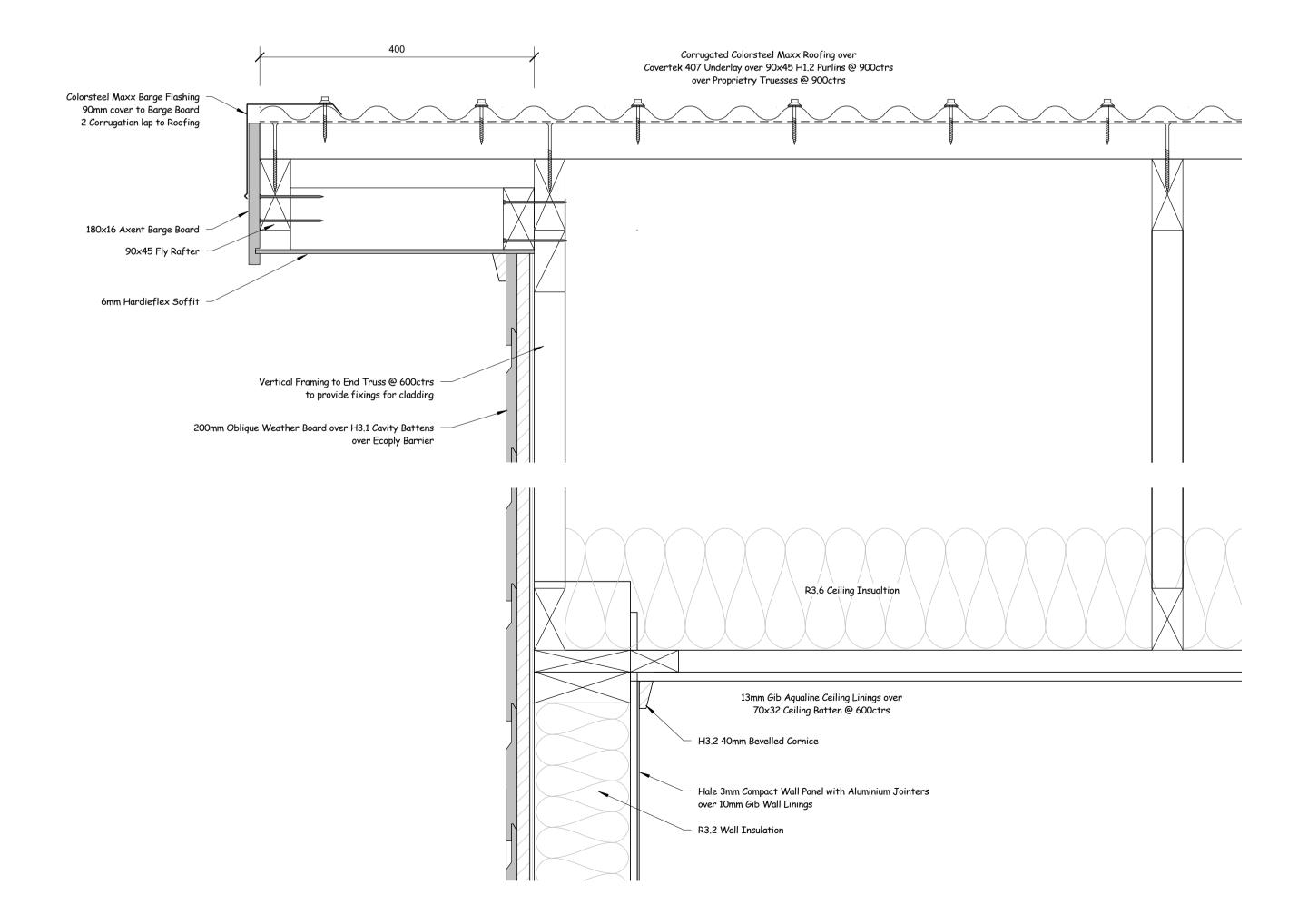
Roof Framing Plan

Sheet:

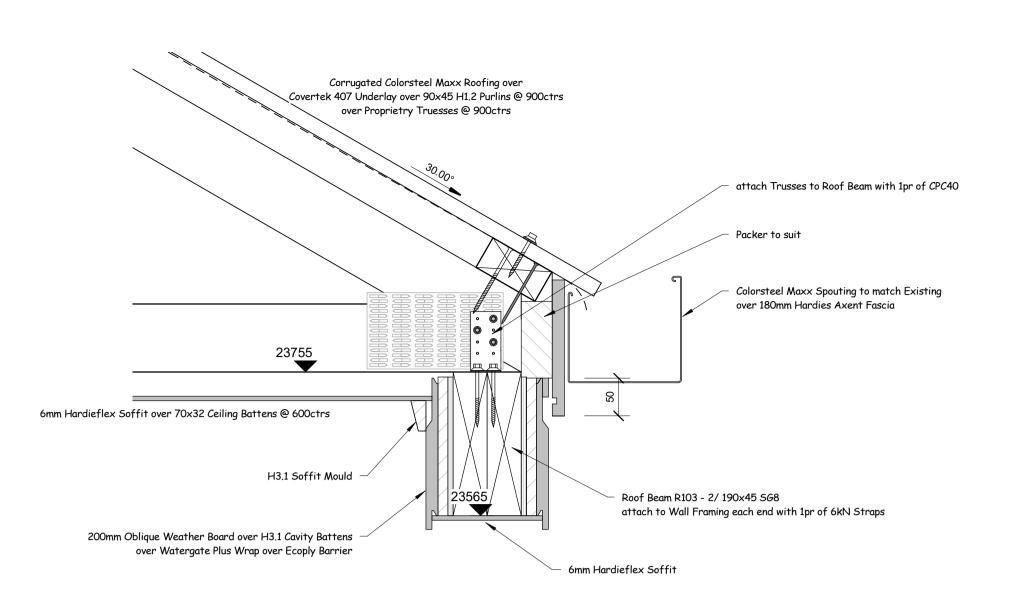




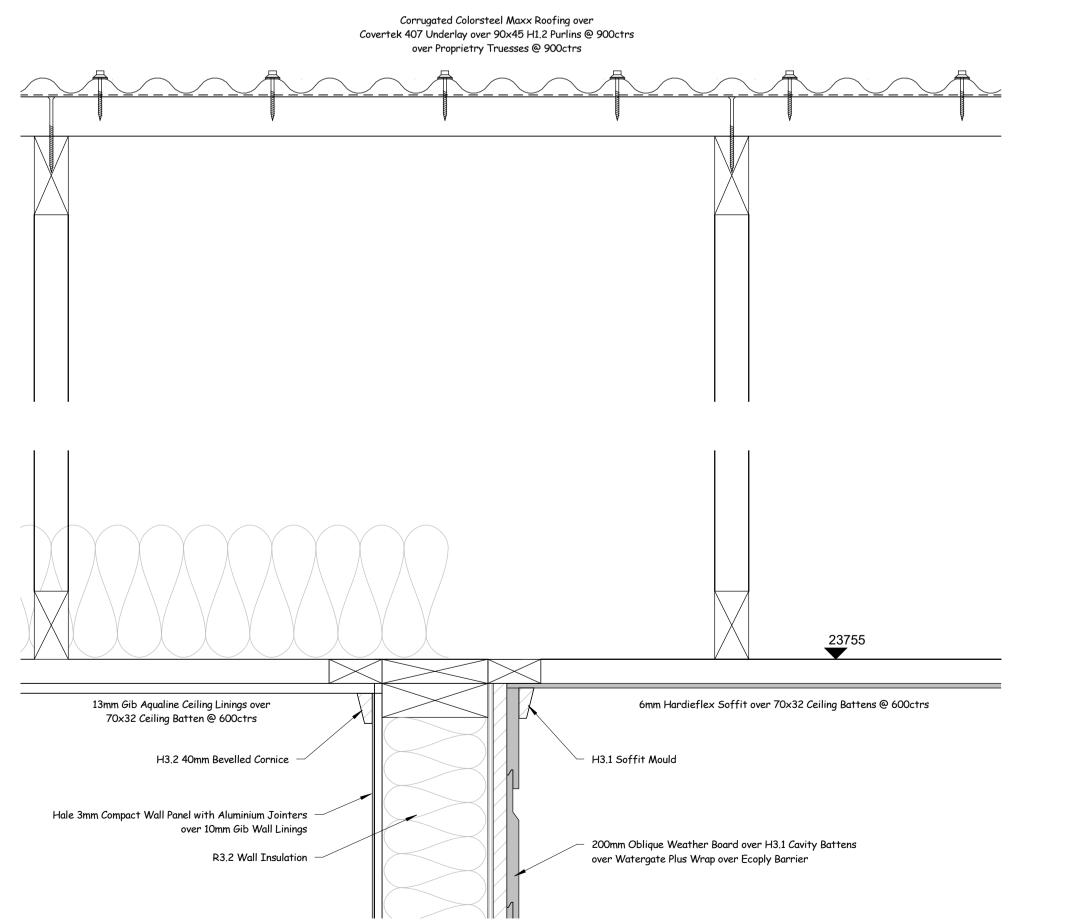




700 Gable End Detail







700 Mens Bathroom Entry Detail

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Construction practices shall be accordance with the NZ Building Code and relevant NZ Standards.

Notes:

Building Consent

Issue Dates:

Revision Schedule

Date Description

Orcan Design

279 Mountain Rd, RD 2, Maungaturoto 0587 Ph 09 431-2827 or mob 027 292-8820

email stephen@orcandesign.org No: **CD 765**

Bathroom Block Rebuild

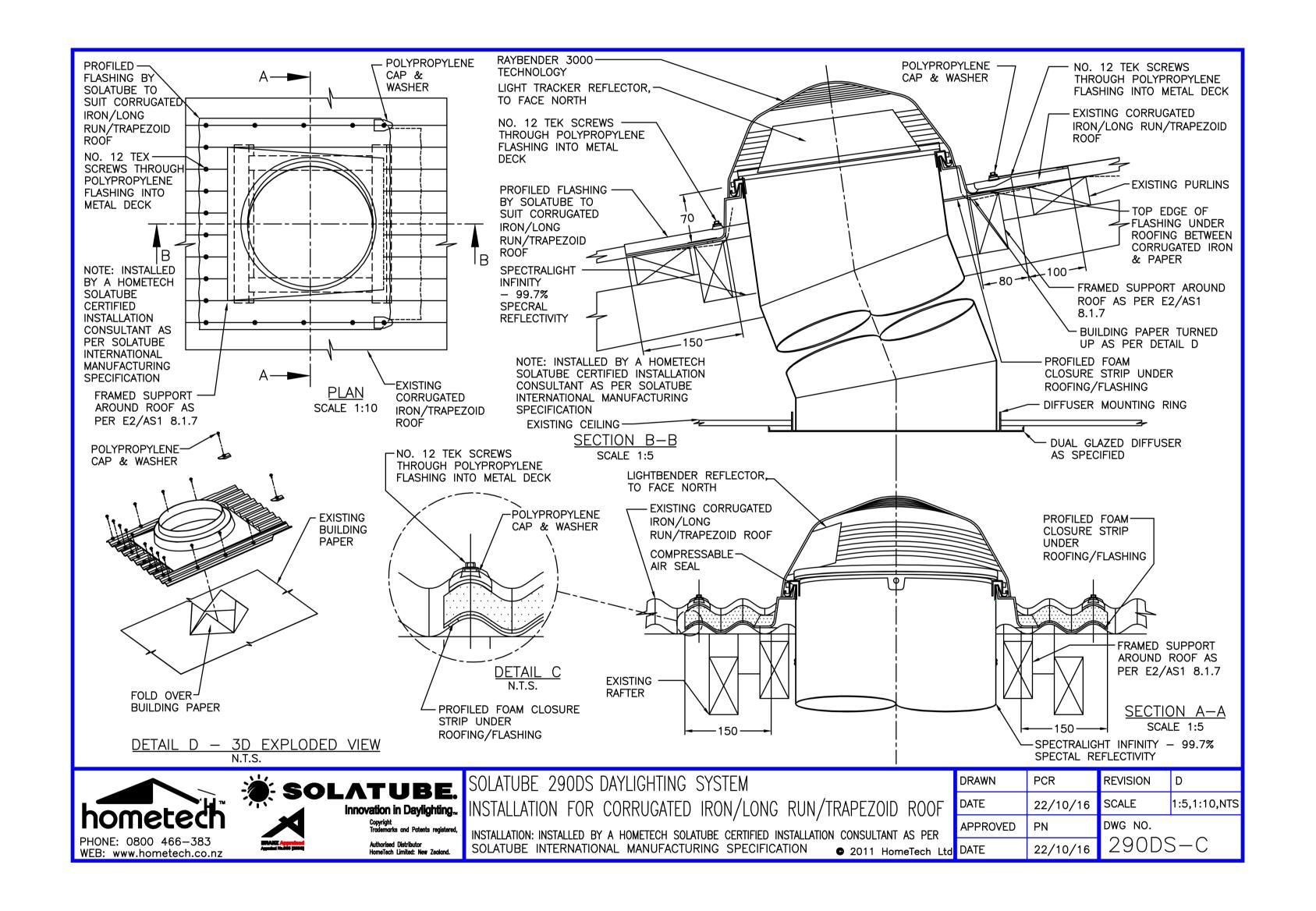
Waihaua Marae 449 Arapaoa Rd

Tinopai 0593 Client: Waihaua Marae

Drawn By: Stephen Orchard Scale: **1:5**

Roof Details

Sheet:



Written Dimensions take precedent over scaled dimensions The Contractor shall check and verify all dimensions on site. Any discrepancy shall be referred to the designer for clarification.

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Construction practices shall be accordance with the NZ Building Code and relevant NZ Standards.

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Notes:

Building Consent

Issue Dates:	

Revision Schedule

Ref.	Description	Date



279 Mountain Rd, RD 2, Maungaturoto 0587 Ph 09 431-2827 or mob 027 292-8820 email stephen@orcandesign.org

Project: No: CD 765

Bathroom Block Rebuild

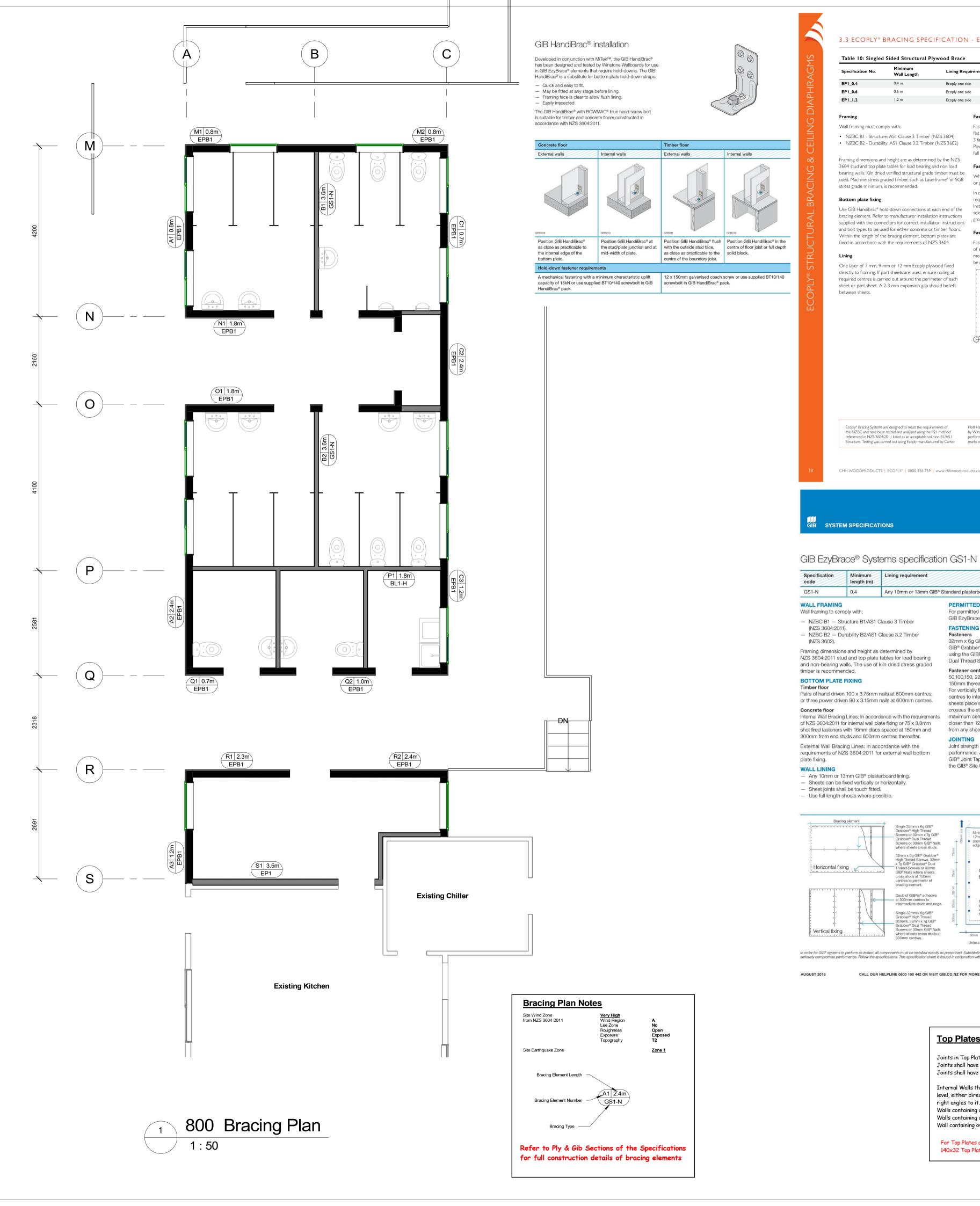
Address

Waihaua Marae 449 Arapaoa Rd Tinopai 0593

Client: Waihaua Marae

Drawn By: Stephen Orchard
Scale:

Roof Details - Solatube



3.3 ECOPLY® BRACING SPECIFICATION - EPI

Table 10: Singled Sided Structural Plywood Brace

Specification No.	Minimum Wall Length	Lining Requirements	BUs/m Wind	BUs/m Earthquake
EPI_0.4	0.4 m	Ecoply one side	80	95
EPI_0.6	0.6 m	Ecoply one side	95	105
EP1_1.2	1.2 m	Ecoply one side	120	135

Wall framing must comply with:

stress grade minimum, is recommended.

 NZBC B1 - Structure: AS1 Clause 3 Timber (NZS 3604) NZBC B2 - Durability: AST Clause 3.2 Timber (NZS 3602)

pecification No.	Minimum Wall Length	Lining Requirements	BUs/m Wind	BUs/m Earthquake
PI_0.4	0.4 m	Ecoply one side	80	95
P1_0.6	0.6 m	Ecoply one side	95	105
PI_I.2	1.2 m	Ecoply one side	120	135

Fastening the Ecoply® panels

Framing dimensions and height are as determined by the NZS 3604 stud and top plate tables for load bearing and non load bearing walls. Kiln dried verified structural grade timber must be used. Machine stress graded timber, such as Laserframe® of SG8

Use GIB Handibrac® hold-down connections at each end of the bracing element. Refer to manufacturer installation instructions supplied with the connectors for correct installation instructions and bolt types to be used for either concrete or timber floors. Within the length of the bracing element, bottom plates are fixed in accordance with the requirements of NZS 3604.

One layer of 7 mm, 9 mm or 12 mm Ecoply plywood fixed directly to framing. If part sheets are used, ensure nailing at required centres is carried out around the perimeter of each sheet or part sheet. A 2-3 mm expansion gap should be left

Fasten with 50×2.8 mm hot dipped galvanised or stainless steel flat head nails for direct fix. Place fasteners no less than 7 mm or 3 fastener diameters from sheet edges. Screws cannot be used. Power driven nails are suitable. Do not overdrive, nails must be

Fasteners for H3.2 CCA treated Ecoply® panels

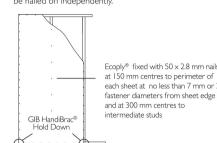
Where fasteners are in contact with $H3.2\ CCA$ treated timber

or plywood, fasteners shall be a minimum of hot dip galvanised. In certain circumstances stainless steel fasteners may be required. Refer to Table 8 of the Ecoply Specification and Installation Guide for these circumstances and further fastener

selection advice. Where stainless steel nails are required, annular

grooved nails must be used.

Fasteners are placed at 150 mm centres around the perimeter of each sheet and 300 mm centres to intermediate studs. Where more than one sheet forms the brace element each sheet must be nailed off independently.



Ecoply® Bracing Systems are designed to meet the requirements of the NZBC and have been tested and analysed using the P21 method referenced in NZS 3604:2011 listed as an acceptable solution B1/AS1 Structure. Testing was carried out using Ecoply manufactured by Carter

Holt Harvey and SG8 timber framing, and GIB® products manufactured performance of the system. GIB® and GIB HandiBrac® are registered trade marks of Fletcher Building Holdings Ltd.

CHH WOODPRODUCTS | ECOPLY® | 0800 326 759 | www.chhwoodproducts.co.nz

Any 10mm or 13mm GIB® Standard plasterboard to one side only

Fasteners

Dual Thread Screws.

Fastener centres

PERMITTED ALTERNATIVES

GIB EzyBrace® Systems literature.

FASTENING THE LINING

from any sheet end or cut edge.

the GIB® Site Guide.

For permitted GIB® plasterboard alternatives refer to p. 5 in

32mm x 6g GIB® Grabber® High Thread Screws, 32mm x 7g

GIB® Grabber® Dual Thread Screws or 30mm GIB® Nails. If

50,100,150, 225, 300mm maximum from each corner and

centres to intermediate sheet joints. For horizontally fixed

sheets place single fasteners to the sheet edge where it

Joint strength is important in delivering bracing system

GIB EzyBrace®

fastener pattern

using the GIBFix® Angle use only 32mm x 7g GIB® Grabber®

150mm thereafter around the perimeter of the bracing element.

For vertically fixed sheets place fasteners at 300mm maximum

crosses the stud. Use daubs of GIBFix® adhesive at 300mm

closer than 12mm from paper bound sheet edges and 18mm

maximum centres to intermediate studs. Place fasteners no

performance. All fastener heads stopped and all sheet joints

GIB® Joint Tape reinforced and stopped in accordance with

Minimum Lining requirement

performance. Follow the specifications. This specification sheet is issued in

CALL OUR HELPLINE 0800 100 442 OR VISIT GIB.CO.NZ FOR MORE INFO

length (m) 0.4

GIB SYSTEM SPECIFICATIONS

GIB EzyBrace® Systems specification BL1-H

7.7 ECOPLY® BARRIER BRACING SPECIFICATION – EPB1

Ecoply® Barrier one side

GIB HandiBrac®

Fasteners are placed at 150mm centres around the perimeter

of each sheet and 300mm centres to intermediate studs or

150mm centres in Extra High wind zones. Where more than

one sheet forms the brace element each sheet must be nailed off

7mm Ecoply® Barrier fixed with 50 x 2.8mm nails at 150mm centres to perimeter of each sheet or part sheet within the bracing element at no less than 7mm from sheet edge and at 300mm centres to intermediate studs or 150mm centres in Extra High wind zones.

Fastening Centres

Table 5: Sided Structural Plywood Brace

• NZBC B1 - Structure: AS1 Clause 3 Timber (NZS 3604).

Framing dimensions and height are as determined by the

NZBC B2 - Durability: AST Clause 3.2 Timber (NZS 3602).

NZS 3604 stud and top plate tables for load bearing and non

load bearing walls. Kiln dried verified structural grade timber

must be used. Machine stress graded timber of minimum SG8,

Use GIB HandiBrac® hold-down connections at each end of the

bracing element. Refer to manufacturer installation instructions

supplied with the connectors for correct installation instructions

and bolt types to be used for either concrete or timber floors.

Within the length of the bracing element, bottom plates are

fixed in accordance with the requirements of NZS 3604.

One layer of 7mm Ecoply® Barrier vertically fixed directly

part sheet. A 2-3mm expansion gap should be left

Do not overdrive, nails must be full round head In certain circumstances stainless steel fasteners may be required. Refer to section 7.1 in the Ecoply Barrier Specification and Installation Guide for these circumstances and further fastener selection advice. Where stainless steel nails are required, annular grooved nails must be used.

registered trade marks of Fletcher Building Holdings Ltd.

Fastening Ecoply® Barrier Panels

to framing. If part sheets are used, ensure nailing at required

centres is carried out around the perimeter of each sheet or

Fasten with 50×2.8 mm galvanised or stainless steel flat head nails direct fix. Place fasteners no less than 7mm from sheet edges. Screws cannot be used. Power driven nails are suitable.

Wall framing must comply with:

such as Laserframe®, is recommended.

Bottom Plate Fixing

between sheets.

Specification code	Minimum length (m)	Lining requirement	Other requirements
BL1-H	0.4	10mm or 13mm GIB Braceline® to one side only	Hold downs
ALL FRAMING		PERMITTED ALTERNATIVES	

Ecoply® Bracing Systems are designed to meet the requirements of the New Zealand Building Code and have been tested and analysed using the P21 method referenced in NZS 3604:2011 listed as an acceptable solution B1/AS1 Structure. Testing was carried out using Ecoply Barrier manufactured by CHH Woodproducts and SG8 timber

framing and GIB® products manufactured by Winstone Wallboards Ltd. Substituting materials may compromise performance of the system, GIB® and GIB HandiBrac® are

WALL FRAMING Wall framing to comply with;

(NZS 3602).

 NZBC B1 — Structure B1/AS1 Clause 3 Timber (NZS 3604:2011). NZBC B2 — Durability B2/AS1 Clause 3.2 Timber

Framing dimensions and height as determined by NZS 3604:2011 stud and top plate tables for load bearing and non-bearing walls. The use of kiln dried stress graded timber is recommended.

BOTTOM PLATE FIXING Timber floor

Use panel hold downs at each end of the bracing element. The GIB HandiBrac® is recommended. See details in GIB

EzyBrace® Systems or GIB® Site Guide. Pairs of hand driven 100 x 3.75mm nails at 600mm centres; or Three power driven 90 x 3.15mm nails at 600mm centres.

Concrete floor Use panel hold downs at each end of the bracing element.

The GIB HandiBrac® is recommended. See details in GIB EzvBrace® Systems or GIB® Site Guide. Within the length of the bracing element bottom plates are to be fixed in accordance with the requirements of NZS 3604:2011.

WALL LINING A layer of 10mm or 13mm GIB Braceline.

 Sheets can be fixed vertically or horizontally. Sheet joints shall be touch fitted.

Use full length sheets where possible.

For permitted GIB® plasterboard alternatives refer to p. 5 in GIB EzyBrace® Systems literature.

FASTENING THE LINING Fasteners

CHH WOODPRODUCTS | ECOPLY® BARRIER | 0800 326 759 | www.chhwoodproducts.co.nz

32mm x 6g GIB® Grabber® High Thread Screws or 32mm x 7g GIB® Grabber® Dual Thread Screws. If using the GIBFix® Framing System or if fastening through GIBFix® Angles use only 32mm x 7g GIB® Grabber® Dual Thread Screws.

Fastener centres

50,100,150, 225, 300mm from maximum each corner and 150mm thereafter around the perimeter of the bracing element. For vertically fixed sheets place fasteners at 300mm maximum centres to the sheet joint. For horizontally fixed sheets place single fasteners to the sheet edge where it crosses the stud. Use daubs of GIBFix® adhesive at 300mm maximum centres to intermediate studs. Place fasteners no closer than 12mm from paper bound sheet edges and 18mm from any sheet end or cut edge.

Joint strength is important in delivering bracing system performance. All fastener heads stopped and all sheet joints GIB® Joint Tape reinforced and stopped in accordance with the GIB® Site Guide.

GIB EzyBrace® Fastener pattern Note: For panels between 400mm and 450mm place this fastener centrally. 50mm 50mm 50mm 75mm 75mm Unless stated all fastener spacings are maximums.

CALL OUR HELPLINE 0800 100 442 OR VISIT GIB.CO.NZ FOR MORE INFO

Top Plates to Bracing Elements

Joints in Top Plates for Single Storey Building shall comply with NZS 3604: 2011 8.7.3.3 Joints shall have a 3kN capacity for up to 100 bracing units.

Internal Walls that contain one or more wall bracing elements shall be connected at the top plate level, either directly or through a framing member in the line of the wall, to the external wall at

Joints shall have a 6kn capacity for over 100 bracing units and those supporting Ceiling Diaphrams

Walls containing up to 125 bracing units shall be connected to at least one external wall with 6kN Fixing Walls containing up to 250 bracing units shall be connected to at least two external walls with 6kN Fixing Wall containing over 250 bracing units shall be connected to at least tow external walls with 2.4kN per 100 bracing units

For Top Plates of Internal Walls not adjoining External Walls carry the 140x32 Top Plate through to join with the 140x32 Top Plate Packer and fix as per above, as per arrows in Bracing Plans

Building Consent

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site. Any discrepancy shall be referred to the designer for

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Construction practices shall be accordance with the

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NZ Building Code and relevant NZ Standards.

clarification.

Notes:

Issue Dates:	

Revision Schedule

	revision coneduc		
Ref.	Description	Date	

279 Mountain Rd, RD 2, Maungaturoto 0587 Ph 09 431-2827 or mob 027 292-8820 email stephen@orcandesign.org

No: **CD 765** Bathroom Block Rebuild

Waihaua Marae 449 Arapaoa Rd

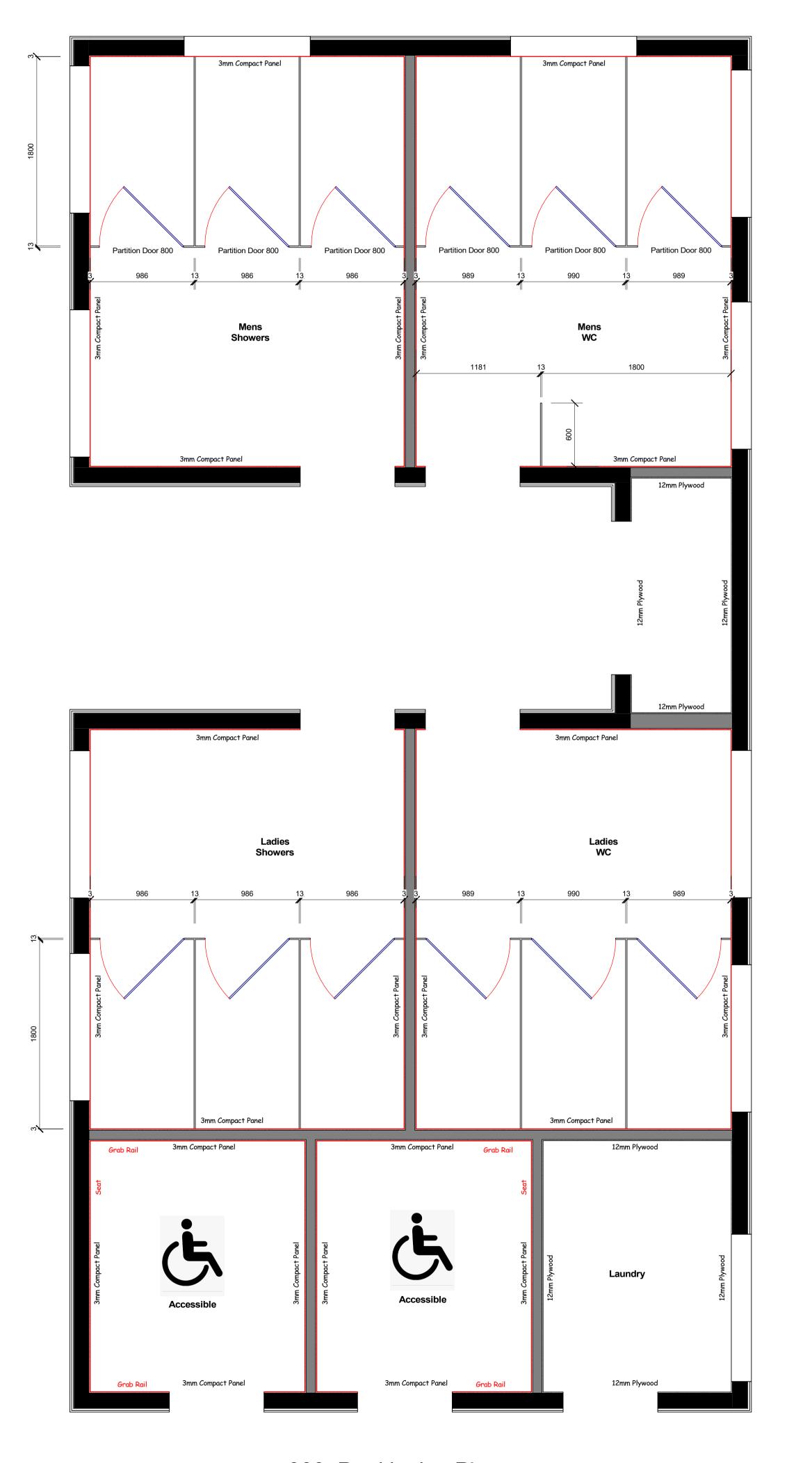
Tinopai 0593

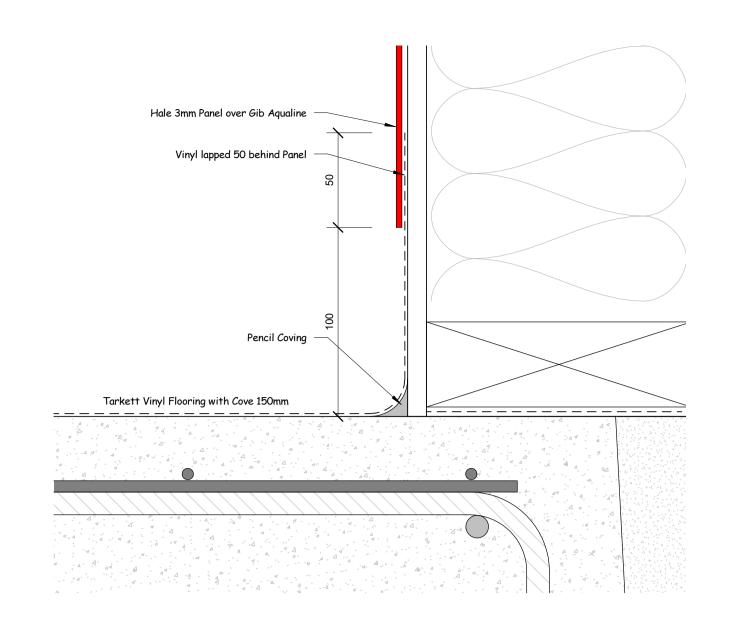
Client: Waihaua Marae

Drawn By: Stephen Orchard Scale: As indicated

Bracing Plan & Details

Sheet:





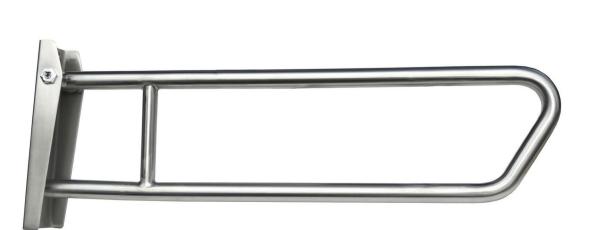
900 Coved Vinyl Detail



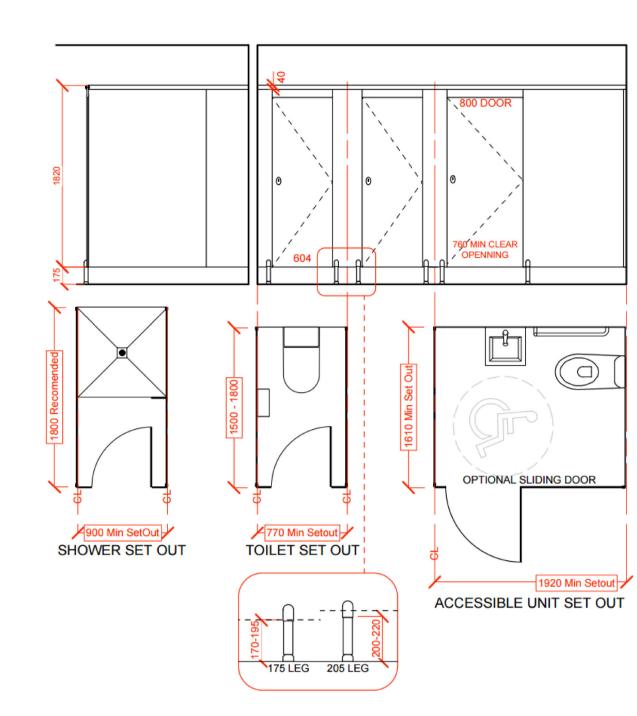




Accessible Bathroom Grab Rails
Allow 1 per WC & Shower









Paper Towel Dispenser - Allow 1 per Vanity



Toilet Roll Holder - Allow 1 per Stall



Accessible Bathroom Shower Seat Allow 1 per Shower



Fold Down Baby Change Table Allow 1 per Accessible Bathroom

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Revision Schedule

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No: **CD 765** Bathroom Block Rebuild

Address: Waihaua Marae 449 Arapaoa Rd

Tinopai 0593

Client: Waihaua Marae

Drawn By: Stephen Orchard Scale: As indicated

Partitioning Plan

PERSONAL HYGIENE Acceptable Solution G1/AS1

ccessible Toilet and Shower Compartment ragraph 4.2.2, Tables 1 and 2 Rail for sliding hand shower with 1500mm long flexible hose --mixing valve 750 x 750mm grab rail Soap holder. 30-40mm O.D Alternative Line of shower position is on shower rail. Edge of sloped upstand 760mm wide door 550mm Hinged seat, self draining and non slip drain without sudden change (a) Plan (b) Elevation A

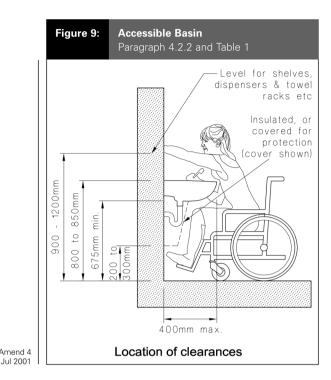
Figure 6: Accessible Toilet Compartment
Paragraph 4.2.2 and Table 1

1900mm min.
300mm 700 to wheelchair wheels each side of cistern

Alternative towel and soap dispenser zone

Alternative position for goal to the close door 900mm above floor execution of soap and towel dispensers between 1000 and 1200mm above floor level.

PERSONAL HYGIENE



4.2.3 For safety in an *accessible* shower compartment the shower slider rod, or the adjustable shower assembly integrated with the grab rail, shall be firmly fixed in place.

COMMENT:Sliding rod assemblies are used by *people with*

disabilities as a grab rail in an emergency and rods can come away in their hands leading to a fall.

4.2.4 Accessible showers shall have a level

threshold. **4.2.5** If two or more toilet compartments are provided for wheelchair users, at least one

provided for wheelchair users, at least one shall have a pan of the opposite hand.

4.2.6 The WC flushing control shall be easily operable, positioned on the centre line or

approach side of the WC pan, and no higher than 1200 mm above the finished floor level. Similarly, easily operable privacy bolts (to indicate whether the toilet is occupied) shall be located no more than 1200 mm above floor level.

Acceptable Solution G1/AS1

4.2.7 NZS 4121 Section 10 is also an acceptable solution for *people with disabilities*. **4.2.8** Where there is a wall hung pan or a

4.2.8 Where there is a wall hung pan or a concealed cistern, full access is required each side of the WC pan, as detailed in Figure 7, to allow for wheel-over access. The wall in front of a concealed cistern shall extend no less than 1.0 m above floor level to provide back support, and fold-up lid shall be provided.

5.0 Non-flushing Sanitary Fixtures

5.0.1 Soil fixtures that are not water flushed, such as those using chemicals or biological treatment, shall be located where they will not cause a nuisance.

COMMENT:

 "Nuisance" is a defined term under the Health Act 1956.

2. Some types of non-water borne toilets may require the provision of specific ventilation.

5.0.2 *Privies* are acceptable if located at least 3.0 m from any *building* having a classified use, other than outbuildings or ancillary buildings. Receptacles for excreta are to be constructed to exclude flies and be fitted with a hinged lid.

6.0 Privacy

6.1 Line of sight

6.1.1 There shall be no direct line of sight between an *access route* or *accessible route* and a WC, urinal, bath, shower or bidet. See Figure 10 for acceptable layouts.

DEPARTMENT OF BUILDING AND HOUSING

Building Consent

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Revision Schedule			
Ref.	Description	Date	



279 Mountain Rd, RD 2, Maungaturoto 0587 Ph 09 431-2827 or mob 027 292-8820 email stephen@orcandesign.org

Project: No: CD 765

Bathroom Block Rebuild

Address: Waihaua Marae 449 Arapaoa Rd

Client: Waihaua Marae

Tinopai 0593

Drawn By: Stephen Orchard

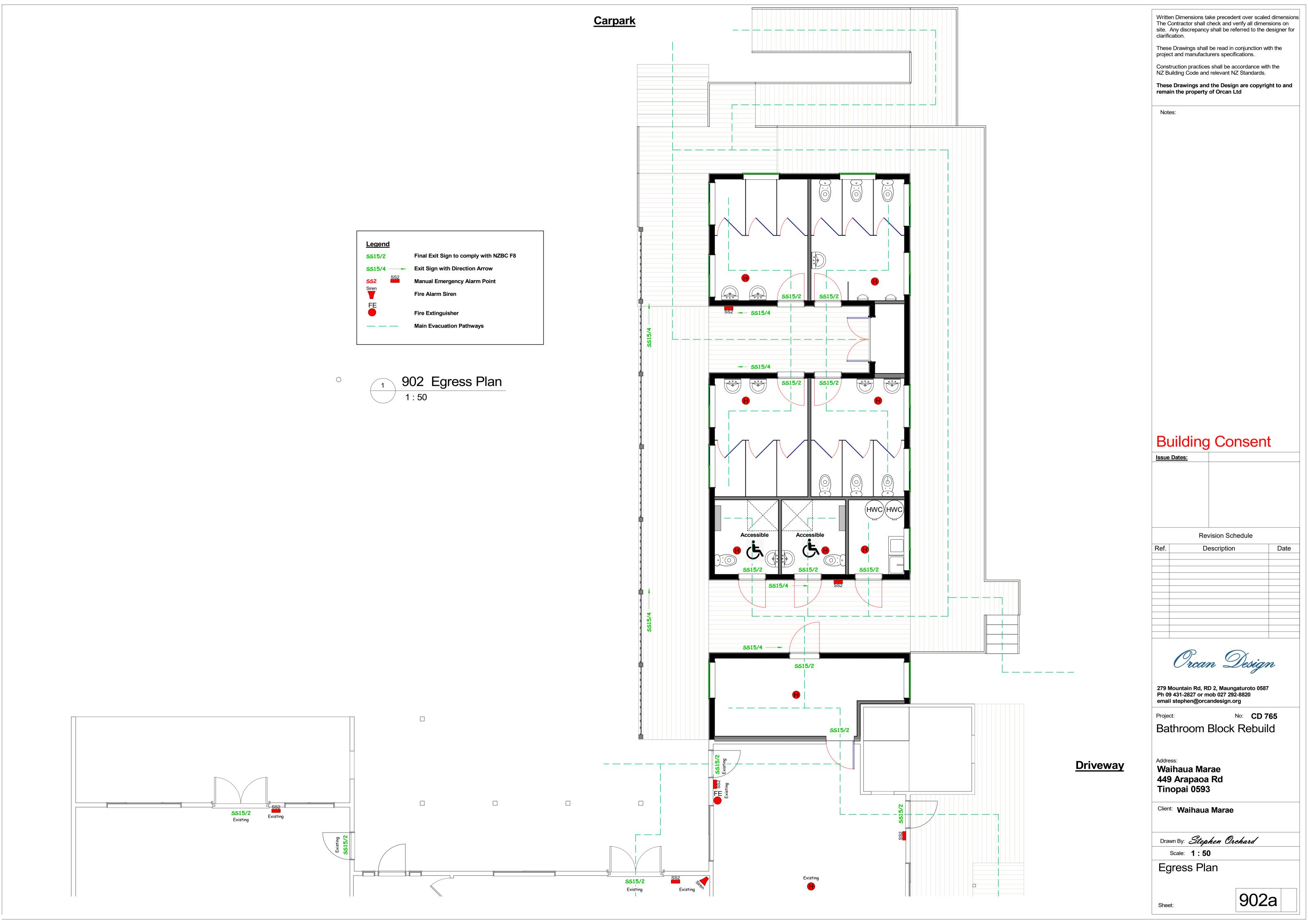
Accessible Fittings Details

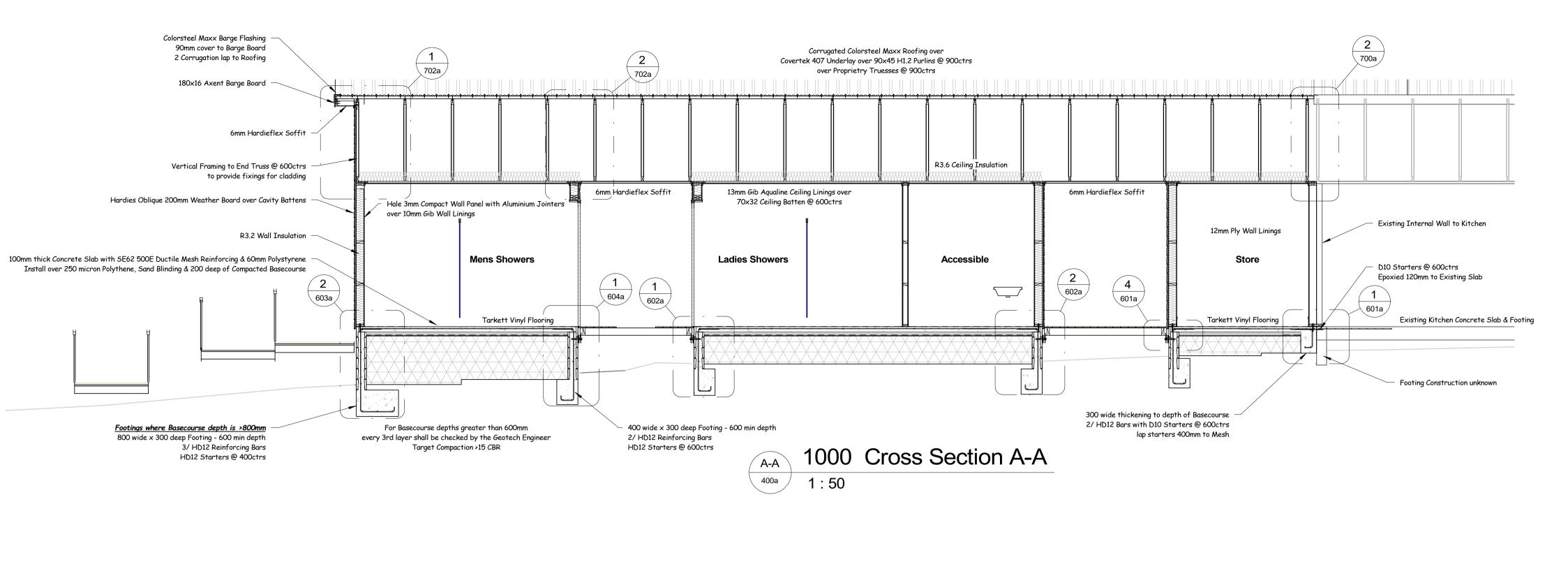
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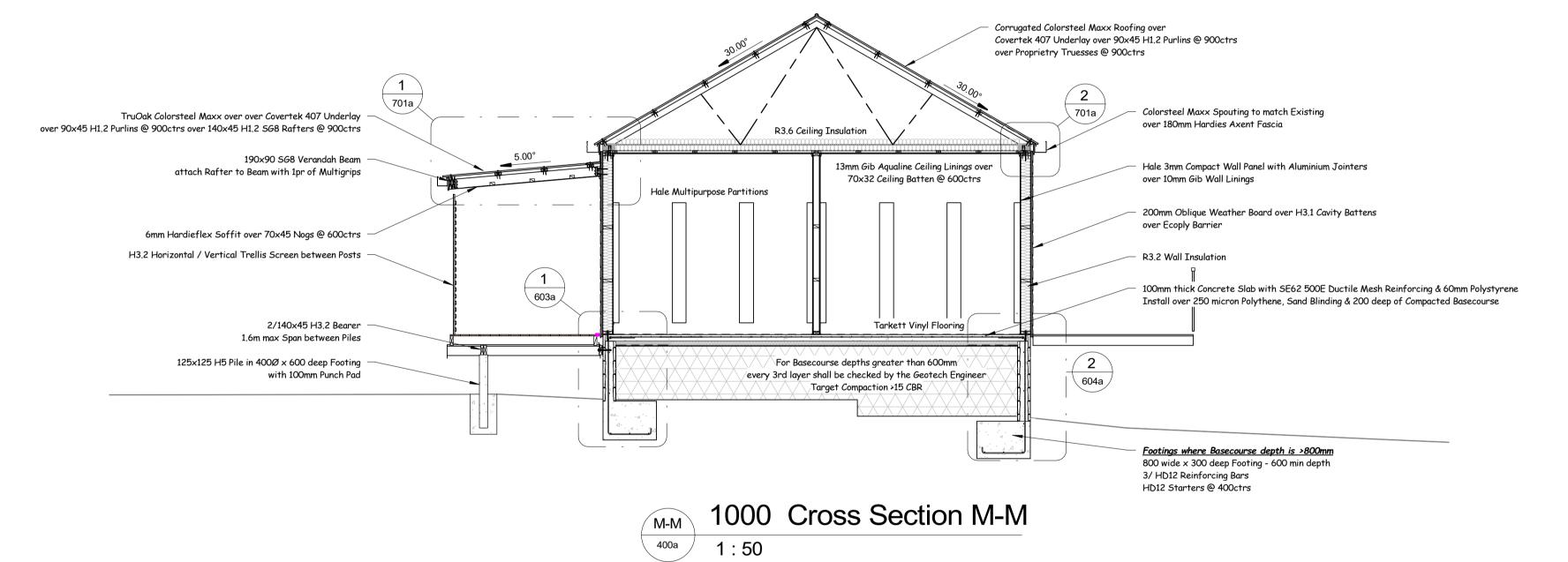
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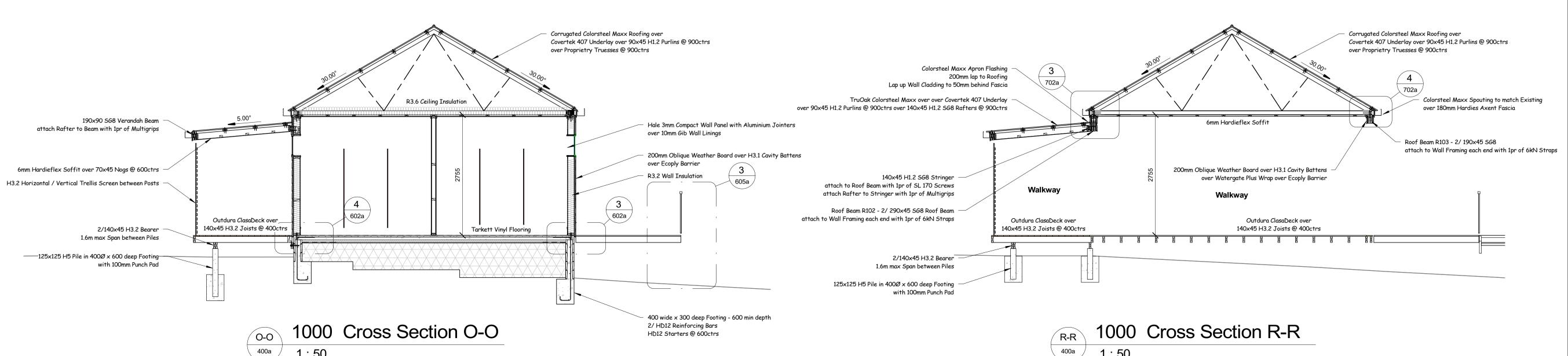
23 June 2007

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Notes:

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Issue Dates:

Revision Schedule

Ref.	Description	Date

Orcan Design

279 Mountain Rd, RD 2, Maungaturoto 0587 Ph 09 431-2827 or mob 027 292-8820 email stephen@orcandesign.org

Project: No: CD 765

Bathroom Block Rebuild

Address: **Waihaua Marae**

449 Arapaoa Rd Tinopai 0593

Client: Waihaua Marae

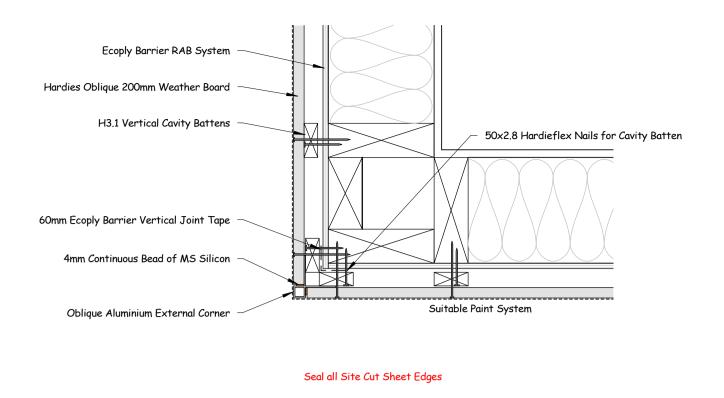
Drawn By: Stephen Orchard

Scale: 1:50

Cross Sections

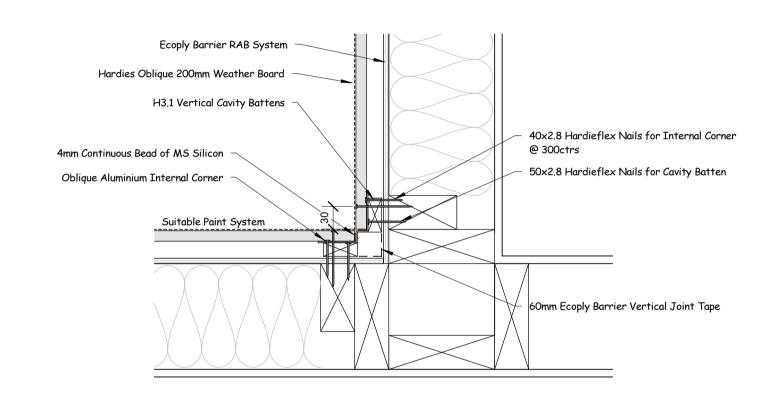
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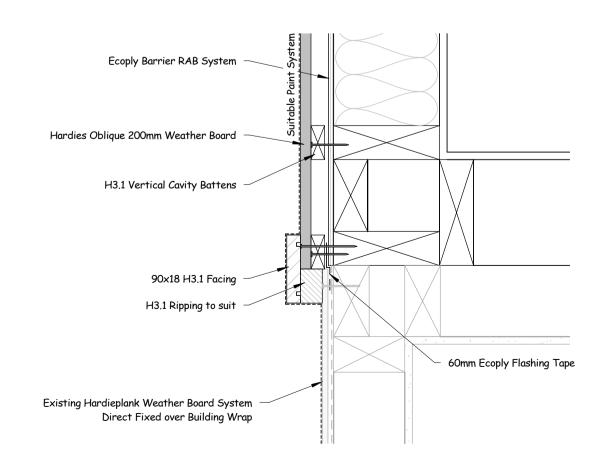




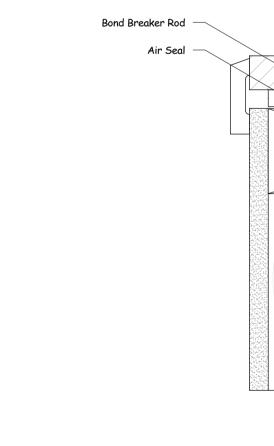
2 2000 Oblique External Corner 1:5



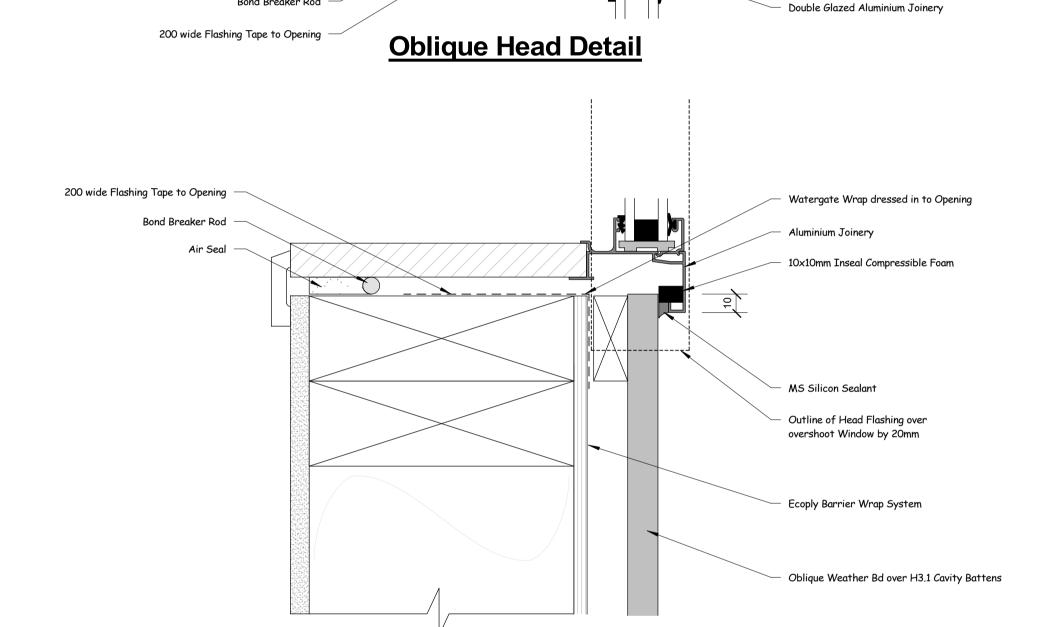
2000 Oblique Internal Corner



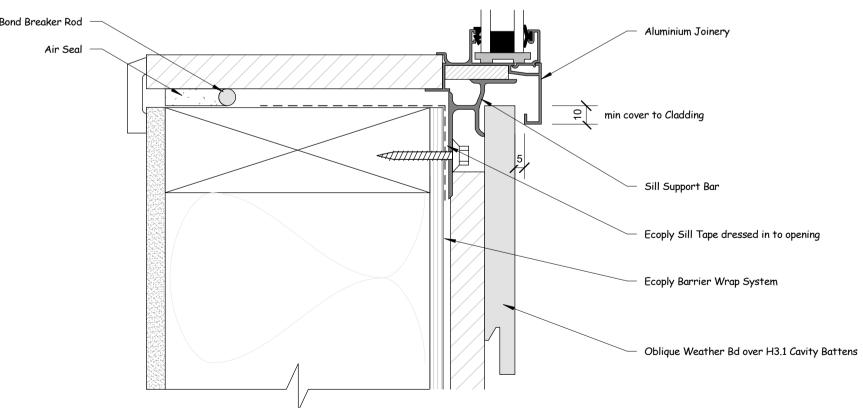
2000 Oblique Proposed to Existing



Bond Breaker Rod



Oblique Jamb Detail



Oblique Sill Detail

Window Details - Oblique Weather Bd

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Notes:

Oblique Weather Bd over H3.1 Cavity Battens

150mm Ecoply Barrier Tape to Head Flashing

Head Flashing with 15° Slope James Hardie uPVC Vent Strip

Stop End to Head Flashing

- Seal Cut Edge of Cladding

Seal between Flashing & Flange

10mm min lap over Joinery Flange

Building Consent

issue Dates.	
	l .

Date Description

Revision Schedule

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Client: Waihaua Marae

Sheet:

Drawn By: Stephen Orchard Scale: As indicated

Construction Details -Cladding