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Family Trust
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Belfast Development
Belfast, Christchurch

 Job Number:
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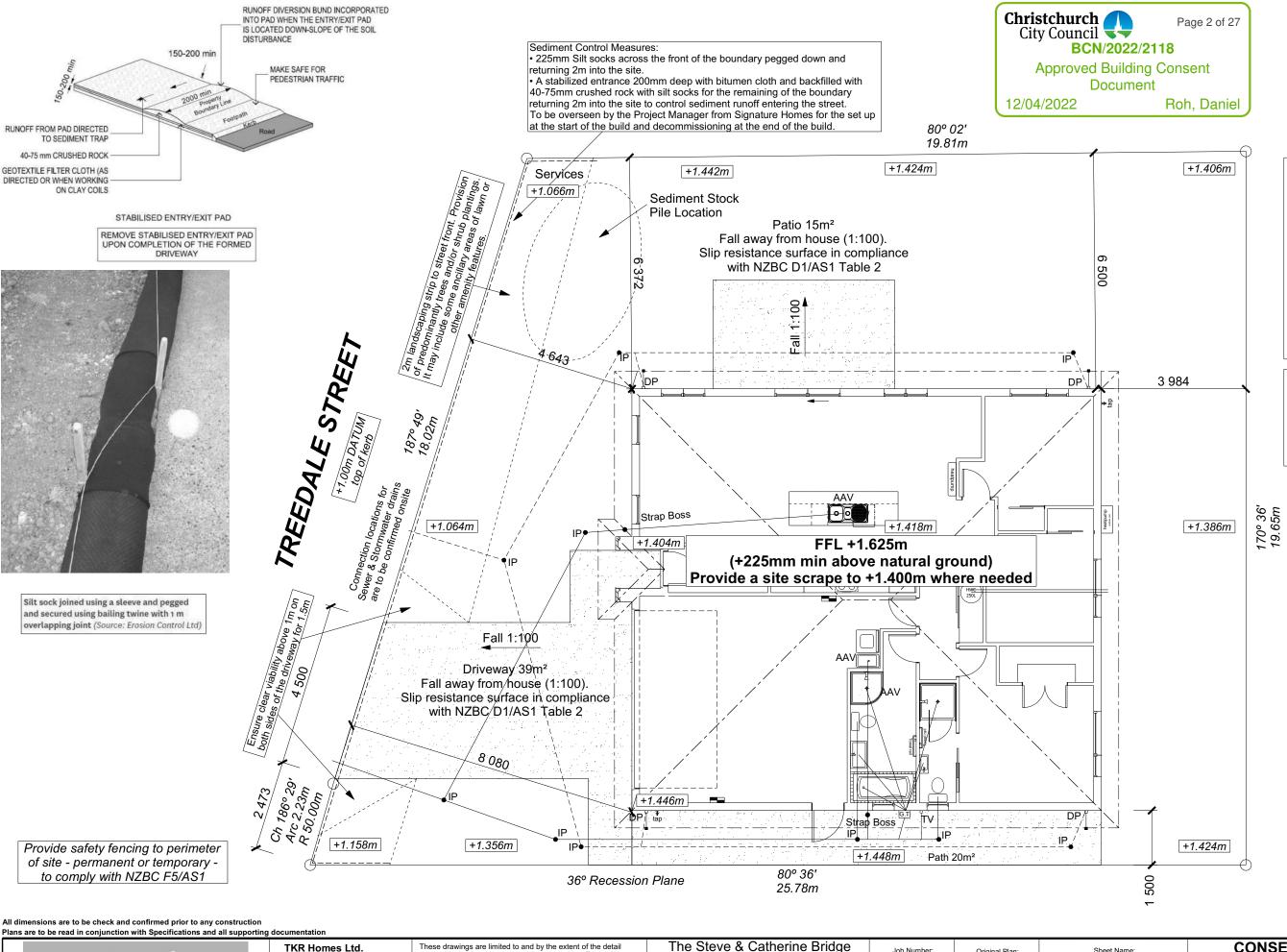
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SITE INFORMATION

Site Area 445m<sup>2</sup> Floor Area (VENEER) : 149.64m<sup>2</sup> 33.62% Site Coverage

Wind Earthquake Exposure

(up to 1kPa)

Note: The dimensions shown are from cladding to boundary. Refer to sheet 8 for foundation to boundary dimensions

Sediment control and site safety requirements are noted in the attached Specifications.

#### DRAINAGE LEGEND

-- Stormwater DN100mm uPVC Sewer Drain DN100mm uPVC Downpipe GT ORG TV AAV Gully Trap Overflow Relief Gully Terminal Vent Air Admittance Valve Inspection Point

**DRAWING NOTES** 

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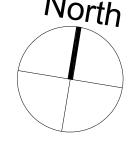
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12/04/2022 Roh, Daniel





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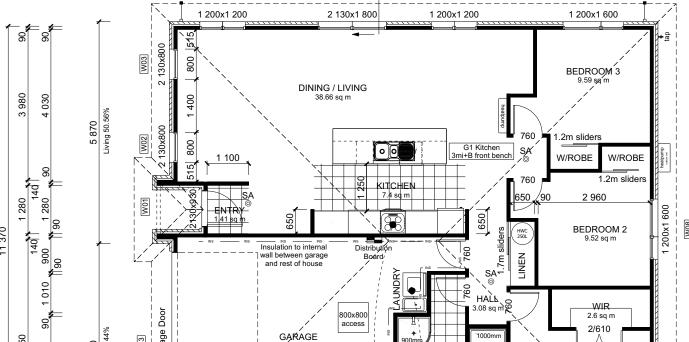
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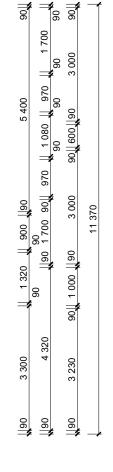
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90





**DWELLING AREAS** 

**ROOF & WALL CLADDINGS** 

Roof: 25° Pressed Metal Tiles Walls: 70 Series Brick Veneer

with a 50mm cavity

Framing Area: 143.40m² (Perimeter: 51.50m) Veneer Area: 149.64m² (Perimeter: 52.46m) Roof Area: 175.88m² (Perimeter: 53.82m)

SMOKE ALARMS (hush type) Domestic Smoke Alarms to be fitted within 3.0m of sleeping areas and on Escape routes as indicated on plan. To comply with one of the following standards: UL 217, ULC-S531, AS 3786, BS 5446 (part 1)

#### **FLOOR PLAN NOTES**

Dimensions shown are to the frame GIB thickness not shown. Mechanical ventilation to comply with G4/AS1
Air Seals to have PEF rod & low expansion foam
All windows and doors centered in room unless shown otherwise
Laundering facilities provided complying

with G2/SA1 1.0

Provide sealant under skirting and paint to concrete around tub & W/M fixtures

WALL FRAMING Stud Height: 2400 mm (2455mm to u/s of bottom chord)

FLOOR FINISHES

KITCHEN HOB

DOORS Internal Height: 1980mm (leaves) Type: Hollow core flush panel Front Door Type: Latitude Aluminium

INTERNAL TRIMS Scotia: 55mm GIB Coving (excluding garage) Skirting: 60x12mm Pine, single bevel edge Architrave: N/A

SHELVING Shelf & Rails to all wardrobes 4 shelves to Linen cupboard

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3 610

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90, 700, 90

450

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BEDROOM 1 13.05 sq m

2 600

D Ryan

M Glynn

3 700

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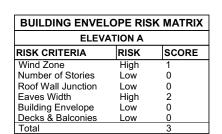
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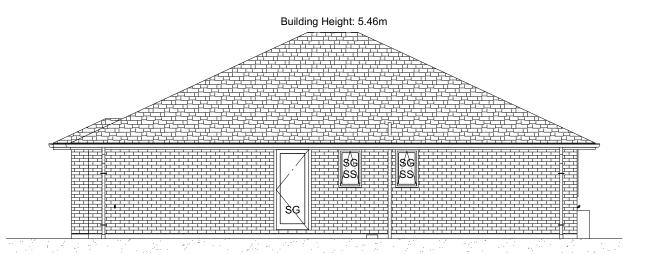
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# **ELEVATION A**



# BUILDING ENVELOPE RISK MATRIX ELEVATION B RISK CRITERIA RISK SCORE Wind Zone High 1 Number of Stories Low 0 Roof Wall Junction Low 0 Eaves Width Medium 1 Building Envelope Low 0 Decks & Balconies Low 0 Total 2

# **ELEVATION B**

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ROOF & WALL CLADDINGS
Roof: 25° Pressed Metal Tiles
Walls: 70 Series Brick Veneer
with a 50mm cavity

Safety Stays Safety Glass

Meter Box

Gutter : Coloured Steel Quad Gutter Fascia : Coloured Steel185 Fascia Downpipes : Colorsteel Rectangular 75x55mn Soffits : Hardiflex 4.5mm

Joinery: Double glazed aluminum

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Terminal Vent

All egress points to have a maximum step down of 190mm.

Access routs to have slip resistance surface

and to have a 1:100 fall away from the building

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Roh, Daniel

in compliance with NZBC D1/AS1 Table 2

**ELEVATION LEGEND** 

**ELEVATION NOTES** 

MB

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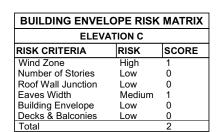
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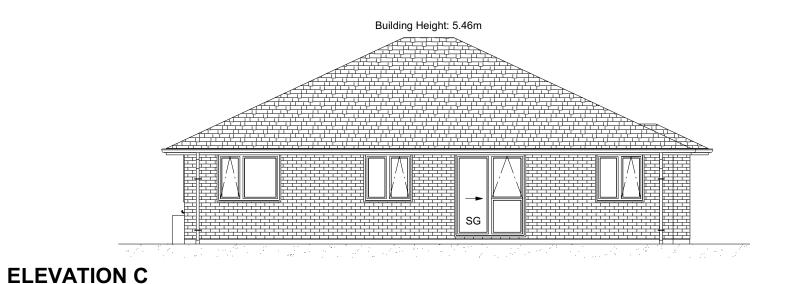
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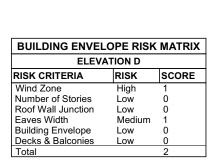
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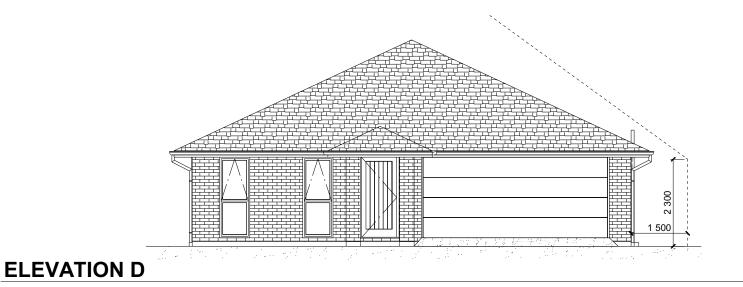
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ROOF & WALL CLADDINGS

Roof: 25° Pressed Metal Tiles

Walls: 70 Series Brick Veneer
with a 50mm cavity

**ELEVATION LEGEND** 

**ELEVATION NOTES** 

MB

TV

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Safety Stays Safety Glass

Meter Box

Gutter : Coloured Steel Quad Gutter Fascia : Coloured Steel185 Fascia Downpipes : Colorsteel Rectangular 75x55mn Soffits : Hardiflex 4.5mm

Joinery: Double glazed aluminum

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in compliance with NZBC D1/AS1 Table 2

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ROOF & WALL CLADDINGS

Roof: 25° Pressed Metal Tiles Walls: 70 Series Brick Veneer with a 50mm cavity

**CROSS SECTION NOTES** 

Building wrap is to comply with E2/AS1 & NZS 3604:2011.

Flashing materials must be selected based on environmental exposure. Refer to NZS 3604:2011 & table 20 of E2/AS1.

Flashing tape must have proven compatibility with the selected wrap & other materials with which it comes into contract as per table 21 of E2/AS1.

Fixings shall comply with NZS 3604:2011 Section 4 Durability Tables 4.1-4.3 Unless stated otherwise, timber members on drawings are to be a minimum of SG8 strength graded as per NZS3604:2011.

INSULATION

Ceiling: Pink Batts R3.6 Ceiling Batts Wall: Pink Batts R 2.6 Wall Batts

Pressed metal tile roofing on self supporting ThermaKraft 215 roof underlay and tile battens 50x40 SG8 H1.2 @ 370crs, fixings 2/90 x 3.15 gun nail

13mm Std. GIB ceiling lining (Aqualine to wet areas) to underside of 70x35mm H1.2 ceiling battens @ 600mm crs with R3.6 Pink Batts insulation.

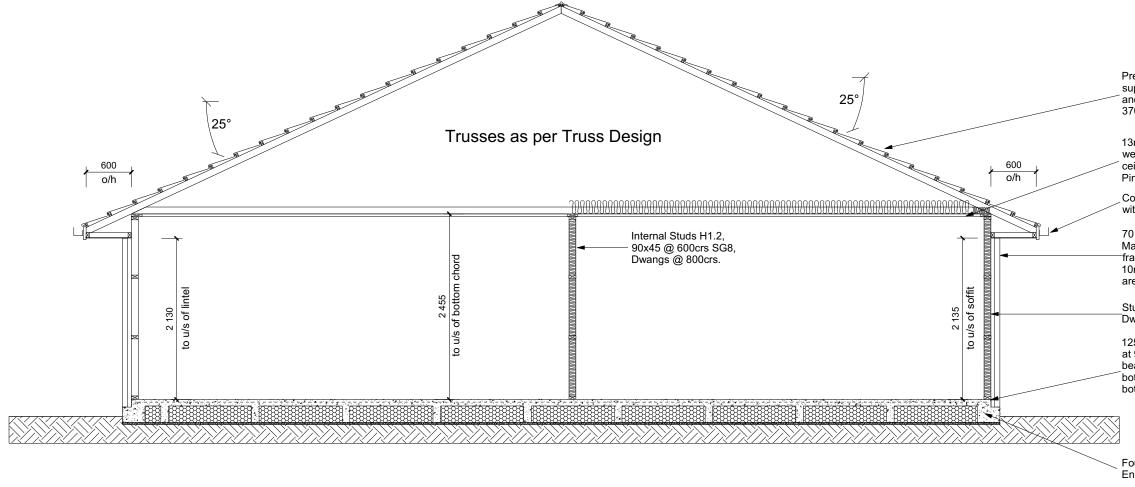
Coloured steel fascia & gutter system with 4.5mm Hardies soffit lining.

70 Series brick veneer with a 50mm cavity. Masons Barricade building wrap on stud framing with R2.6 Pink Batts insulation & 10mm Std. GIB wall lining (Aqualine to wet areas).

Studs H1.2, 90x45 @ 600crs SG8, Dwangs @ 800crs. (exterior walls)

125mm x 12mm thru bolt with 50mm square washer at 900mm crs on all external walls and interior load bearing walls (Bolts also 150mm for each end of bottom plate) minimum cover 40mm. DPC between bottom plate & floor slab.

Foundation as per Engineers Design



**CROSS SECTION A-A** 

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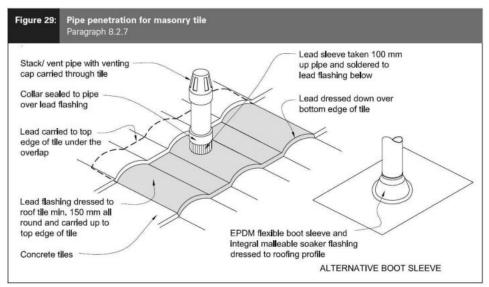
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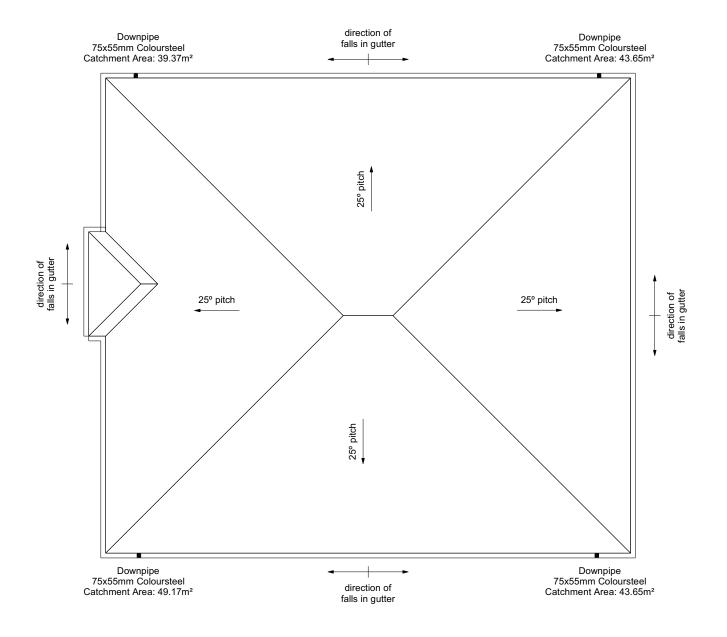
M Glynn



# 8.3.10 Roof penetrations

Pipe penetrations shall be flashed using *EPDM flashings* similar to that shown for masonry tiles, Figure 29.

Metal Tile Penetration Detail Scale NTS



ROOF CLADDING

Roofing: 25° Pressed Metal Tiles Tile Battens: 50x40 SG8 H1.2 @ 370crs, fixings 2/90 x 3.15 gun nail

## ROOF PLAN NOTES

Gutter: Coloured Steel Quad Gutter Fascia: Coloured Steel 185 Fascia Downpipes: Colorsteel Rectangular 75x55mm Soffits: Hardiflex 4.5mm

Underlay: Thermakraft 215 roof underlay

Downpipes: 75x55 Rectangle Colorsteel As per NZBC E1/AS1 Table 5 75x55 down pipes can collect up to 60m² of 0-25° roof plan area.

Use Coloured steel Quad Gutter
As per NZ Metal Roof and Wall Cladding
Code of Practice Version 2 section 8 the
above gutter with a cross sectional area
of 5550mm² can collect up to 60m² of
0-25° roof plan area. Refer to the
specifications for exact calculations.

Use Lumberlock top plate fixing chart attached to the main specifications to determine top plate fixings.



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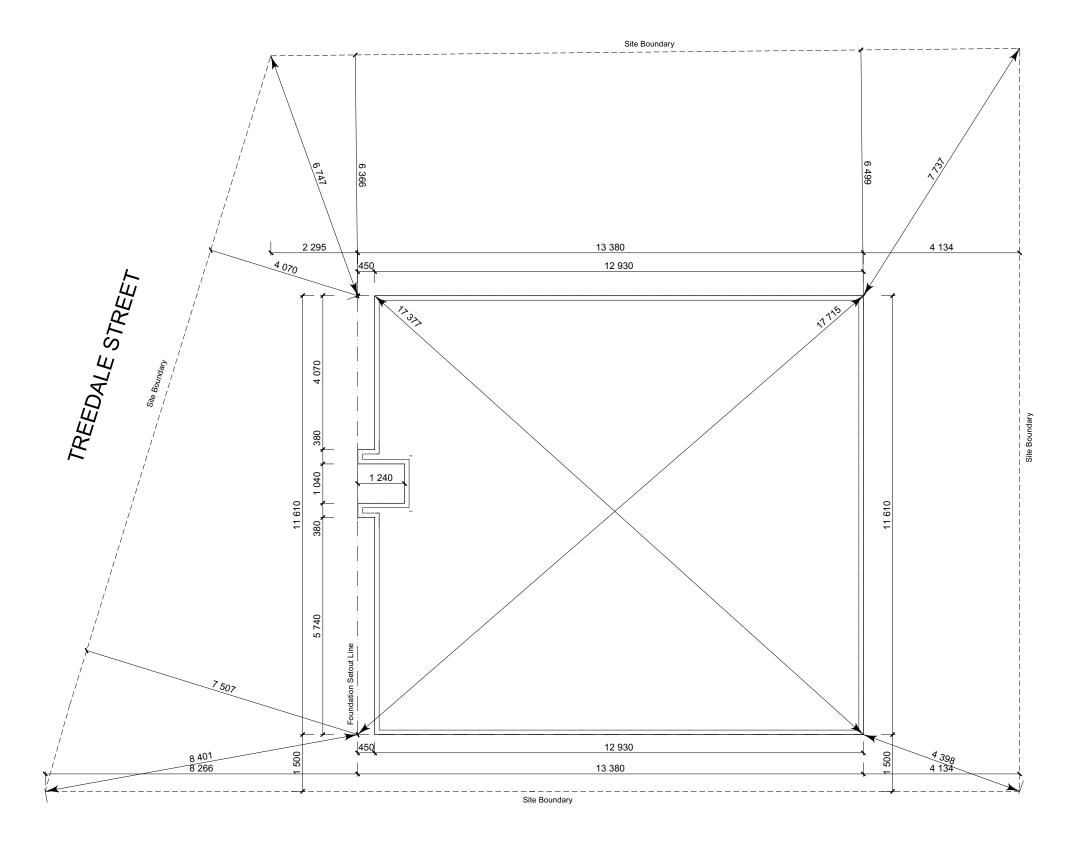
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# SET OUT PLAN NOTES

All dimensions over foundation face. Allow (120mm rebate) 70mm veneer & 50mm cavity, Brick to overhang foundation face by 0-20mm max as per NZBC E2/AS1. All reinforcing is to be Ductility Class E, in accordance with NZS 4671.
All concrete to comply with NZS3604:2011
Section 4 Durability Clause 4.5.2.

These foundations are design to the findings and recommendations in the site specific Geotech report.

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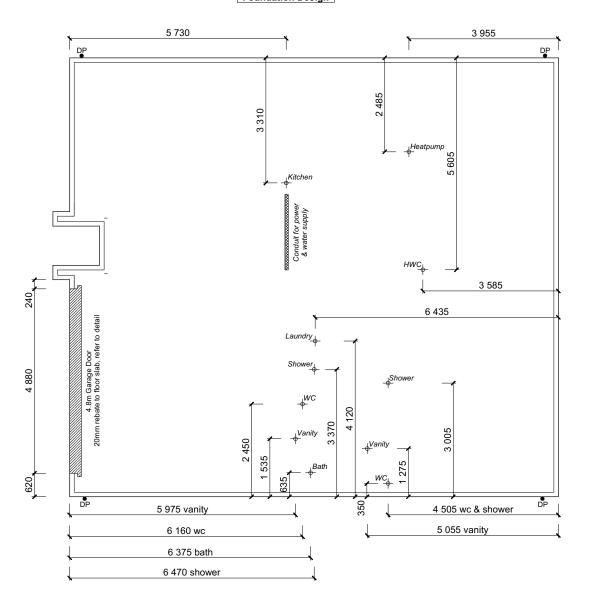
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**CONSENT PLANS** SETOUT DIMENSIONS No. Date: Reason: 1 08-12-2021 Initial Consent Plans

# FFL +1.625m (+225mm min above natural ground) Provide a site scrape to +1.400m where needed

Refer to Engineers Foundation Design



# FOUNDATION PLAN NOTES

All dimensions over foundation face. Allow (120mm rebate) 70mm veneer & 50mm cavity, Brick to overhang foundation face by 0-20mm max as per NZBC E2/AS1. W/C location indicated on plan has assumed a 140mm offset from internal frame line, please consult manufacturer's documentation to confirm offset.

Contractor to consult manufacturer's documentation to determine the correct location for all wastes positioned through floor slabs.
Earth bar to be bonded to the reinforcing

mesh Refer to Truss design for exact location of

All reinforcing is to be Ductility Class E, in accordance with NZS 4671. All concrete to comply with NZS3604:2011 Section 4 Durability Clause 4.5.2.

These foundations are design to the findings and recommendations in the site specific Geotech report.



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M Glynn

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Kitchen Ø50mm @1:40 Sink: (3 discharge units) Bathrooms Ø40mm @ 1:40 Ø40mm @1:40 Ø40mm @1:40 Ø100mm @1:40 Ø40mm @1:30 Vanity: (1 discharge units per basin) (2 discharge units) (4 discharge units) (4 discharge units) (5 discharge units) Shower: Bath: WC: Laundry Sink: Drainage Schedule NZBC G13 Main Foulwater Ø100mm @1:60 Ø100mm @1:60 (1:120max) Vented Drain Stormwater Drain Ø80mm Terminal Vent Ø50mm Vent Heatpump Drain over GT Overflow Relief Gully min 20mm Drain over GT ORG Hot water Cylinder

NZBC G13

Plumbing Schedule

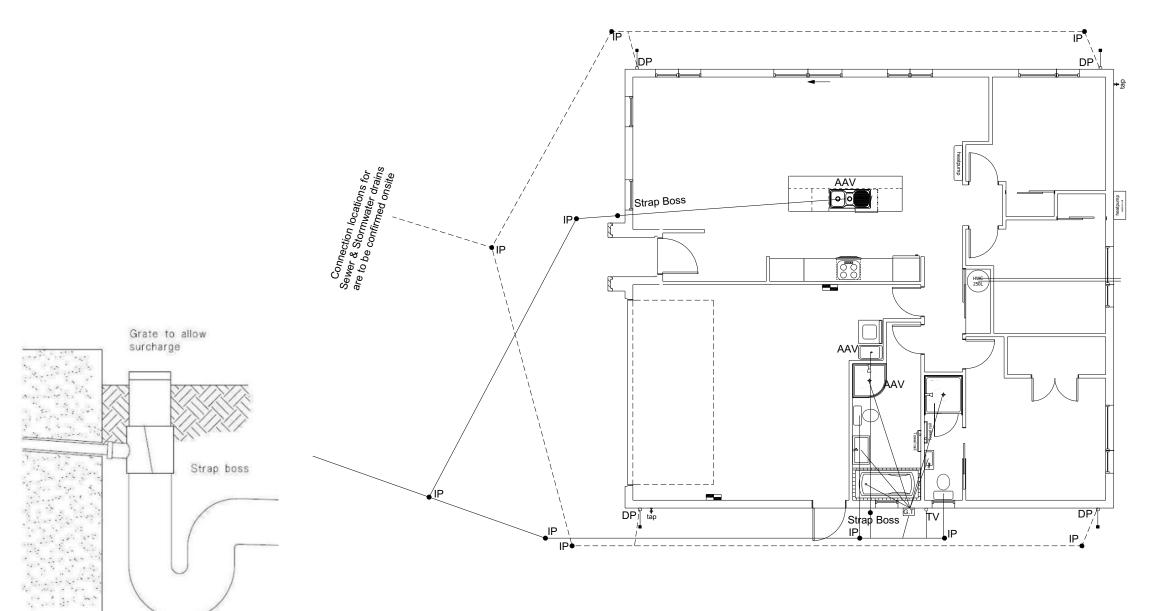
Notes: All plumbing and drainage to comply with NZBC G13.

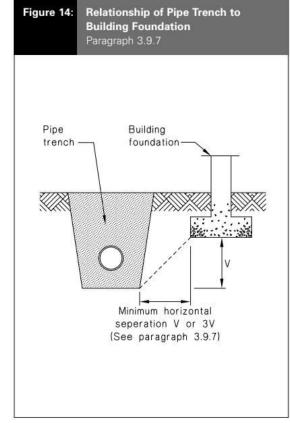
ORG to be positioned so the top of gully dish is no less than 150mm below

overflow level of lowest fixture
Sewer & Stormwater to connect to existing connections.
All drains passing through concrete, provide sleeve or wrap in durable

and flexible to allow for expansion and contraction. (as per G13/AS2 5.8.1) HWC: Safe tray to HWC with 50mm overflow drain to exterior to comply with G12/AS1.

> **DRAINAGE LEGEND** ----- Stormwater DN100mm uPVC
> Sewer Drain DN100mm uPVC Downpipe Gully Trap Overflow Relief Gully GT ORG Terminal Vent Air Admittance Valve Inspection Point





## c) Strap boss to riser

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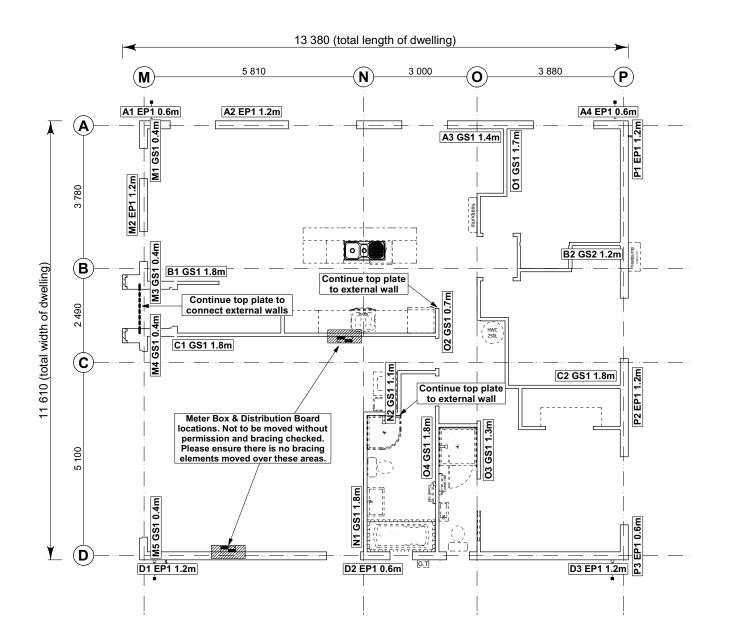
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Waste sleeved

foundation

through concrete



#### 8.7.3.4

Each wall that contains 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 external walls at right angles to it. Top plate fixing(s) of the capacity in tension or compression along the line of the wall bracing element are given as follows:

- For each wall containing wall bracing elements with a total bracing capacity of not more than 125 bracing units: to at least one such external wall by a fixing as shown in figure 8.16 of 6 kN capacity;
- (b) For each wall containing wall bracing elements with a total bracing capacity of not more than 250 bracing units: to at least 2 external walls by fixings as shown in figure 8.16 each of 6 kN capacity;
- For each wall containing wall bracing elements with a total bracing capacity of more than 250 bracing units: to at least 2 external walls by fixings as shown in figure 8.16 each having a rating of not less than 2.4 kN per 100 bracing units.

## **BRACING PLAN NOTES**

Wall bracing designed in accordance with NZS 3604:2011 & GIB Ezybrace system Refer to attached calculations.

Bracing Designed to: Wind: High Earthquake: 2

# BRACING LEGEND A Brace Line Label Brace Length Brace Type

Brace Number

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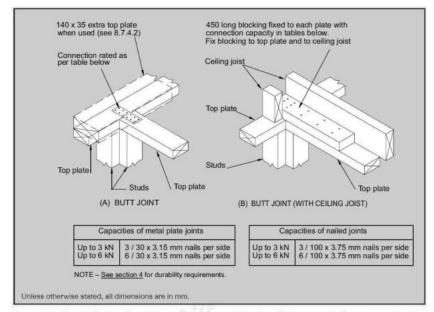


Figure 8.16 - Connecting top plates to external walls at right angles - Walls containing bracing (see 8.7.3.4)

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**Document** 

# Single Level Across Resistance Sheet

Job Name: Steve & Catherine Bridge Family Trust Achieved 127% 128% 1.20 2.4 EP1 1.2 0.40 2.4 2.4 GS1-N GIB® 21 23 229 OK 255 OK 198 OK 174 OK 0.70 1.30 2.4 GS1-N GIB® 373 OK 329 OK 1.20 2.4 EP1 1.2 144 162

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Single Level Along Resistance Sheet

EP1 1.2

GS1-N

GIB®

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EQ

902

132%

355 OK 372 OK

242 OK 211 OK

174%

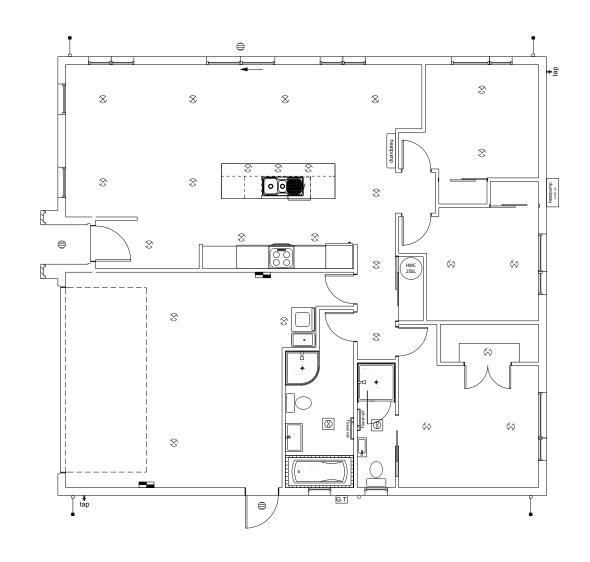
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of 21 sheets



	LEGEND				
Refer to Electric for further details	al Section in Specification s				
$\bigcirc$	Ceiling Pan				
8	CA Approved Down Light				
	Exterior Bulkhead Light				
€	Exterior Wall Light				
	Fluorescent Double				
c'	Light Switch				
5	Two Way Light Switch				
Υ.	Single Power Socket				
<b>Y</b> 2	Double Power Socket				
$\bigcirc$	Outside Waterproof Plug				
▼	Telephone/Data Outlet				
TV	TV Jack				
SKY	Sky Connection				
	Bathroom Heater				
	Bathroom Extractor/Light				
Electrical Plan in indicative only and is to be confirmed onsite with electrician and client					

All dimensions are to be check and confirmed prior to any construction

Plans are to be read in conjunction with Specifications and all supporting documentation



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The Steve & Catherine Bridge Family Trust Lot 21 **Belfast Development** Belfast, Christchurch

D Ryan

M Glynn

Original Plan: 141538 Dove **LIGHTING PLAN** Print Date:

1:100 @ A3

**CONSENT PLANS** Sheet No.: No. Date: Reason:
1 08-12-2021 Initial Consent Plans **12** of 21 sheets Heavy Roof



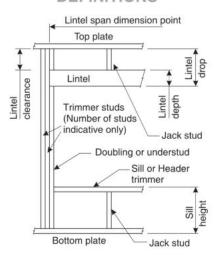
# LINTEL FIXING SCHEDULE

# **ALTERNATIVE TO TABLE 8.14 & FIGURE 8.12 NZS 3604:2011**

# NOTE:

- All fixings are designed for vertical loads only. Dead loads include the roof weight and standard ceiling weight of 0.20kPa.
- ★ Refer to Table 8.19 NZS 3604:2011 for nailing schedule to resist horizontal loads.
- ★ These fixings assume the correct choice of rafter/truss to top plate connections have been made.
- ★ All fixings assume bottom plate thickness of 45mm maximum. Note: TYLOK options on timber species.
- ★ Wall framing arrangements under girder trusses are not covered in this schedule.
- ★ All timber selections are as per NZS 3604:2011.

# **DEFINITIONS**



Li	ntel Sup	porting	Girder	Trusses		
Roof Tributary	L	ight Roo	of	He	eavy Ro	of
Area	V	ind Zon	ie	W	ind Zon	е
	L, M, H	VH	EH	L, M, H	VH	EH
8.6m²	G	G	Н	G	G	Н
11.6m²	G	Н	Н	G	G	Н
12.1m²	G	Н	Н	G	Н	Н
15.3m²	Н	Н	1-	G	Н	Н
19.1m²	Н	Ψ.	82	G	Н	-
20.9m <sup>2</sup>	Н	0 1	YiSt	Н	Н	- 21
21.8m <sup>2</sup>	Н	-	1.5	Н	-	-
34.3m <sup>2</sup>	18.0	-		Н	-	-

## NOTES:

- Roof Tributary Area = approx. 1/2 x (Total roof area on girder and rafter trusses supported by lintel)
- 2. Assumed girder truss is at mid-span or middle third span of lintel
- 3. Use similar fixings for both ends of lintel
- 4. All other cases require specific engineering design

Lintel	Loaded			nd Z					avy F nd Z		
Span (m)	Dimension (m) (See Fig. 1.3 NZS 3604:2011)	L	М	Н	VH	EH	L	М	Н	VH	EH
	2.0	Е	Е	Е	F	F	Е	Е	Е	Е	F
	3.0	E	E	F	F	F	E	E	E	F	F
1.0	4.0	E	F	F	F	G	E	E	F	F	F
	5.0	Е	F	F	G	G	E	E	F	F	G
	6.0	E	F	F	G	G	E	E	F	F	G
	2.0	E	E	F	F	F	E	E	Е	F	F
	3.0	E	E	F	F	F	E	E	F	F	F
1.2	4.0	E	F	F	G	G	E	E	F	F	G
100	5.0	E	F	F	G	G	E	E	F	F	G
	6.0	F	F	G	G	Н	E	E	F	G	G
	2.0	E	E	F	F	F	Ē	E	Е	F	F
	3.0	E	F	F	F	G	E	E	F	F	F
1.5	4.0	Ē	F	F	G	G	E	E	F	F	G
1.0	5.0	F	F	G	G	Н	Ē	E	F	G	G
	6.0	F	F	G	Н	Н	E	E	F	G	Н
	2.0	E	F	F	F	G	E	E	F	F	F
	3.0	E	F	F	G	G	E	E	F	F	G
2.0	4.0	F	F	G	G	Н	Ē	E	F	G	G
2.0	5.0	F	F	G	Н	Н	E	E	F	G	Н
	6.0	F	G	G	Н	Н	E	F	G	Н	Н
	2.0	E	F	F	G	G	E	E	F	F	G
		F	F	G	G	Н	E	E	F	G	G
2.4	3.0	F	F			Н	E		F		
2.4	4.0	F		G	Н			E		G	H
	5.0		G	G	Н	Н	E		G	H	Н
	6.0	F	G	Н	Н	-	E	F	G	H	H
	2.0	E	F	F	G	G	E	E	F	F	G
3.0	3.0	F	F	G	Н	Н	E	E	F	G	Н
	4.0	F	G	G	Н	Н	E	F	G	Н	Н
	5.0	F	G	Н	Н	-	E	F	G	Н	Н
	6.0	F	G	Н	-	-	E	F	G	Н	-
	2.0	F	F	G	G	Н	E	E	F	G	G
3.6	3.0	F	F	G	Н	Н	E	F	G	G	Н
	4.0	F	G	Н	Н	*	E	F	G	Н	Н
	5.0	F	G	Н	-	7.5	E	F	G	Н	-
	6.0	G	Н	Н	-	-	E	F	Н	-	-
	2.0	F	F	G	G	Н	E	E	F	G	G
	3.0	F	G	Н	Н	-	E	F	G	Н	Н
4.2	4.0	F	G	Н	-	*	E	F	G	Н	-
	5.0	G	Н	Н	-	*	E	F	Н	-	-
	6.0	G	Н	-	-	-	E	F	Н	-	-
	2.0	F	F	G	Н	Н	E	E	F	G	Н
	3.0	F	G	Н	Н	-	E	F	G	Н	Н
4.5	3.4	F	G	Н	Н	-	E	F	G	Н	Н
4.5	4.0	F	G	Н	-	-	E	F	G	Н	-
	5.0	G	Н	-	-	-	E	F	Н	-	-
	6.0	G	Н	1-	-	-	E	F	Н	-	-
	2.0	F	F	G	Н	Н	E	E	F	G	Н
	3.0	F	G	Н	Н	-	E	F	G	Н	Н
4.8	3.2	F	G	Н	Н	2	E	F	G	Н	Н
4.0	4.0	F	G	Н	-	2	E	F	Н	Н	-
	5.0	G	Н	-	-	2	E	F	Н	-	-
	6.0	G	Н	-	-	2	E	F	Н	-	
	2.0	F	F	G	Н	Н	E	F	G	G	Н
	3.0	F	G	Н	Н	-	E	F	G	Н	Н
E 4	3.5	F	G	Н	-	21	E	F	G	Н	-
5.1	4.0	G	G	Н	-	2	E	F	Н	Н	-
	5.0	G	Н	-	-	-	E	F	Н	-	-
	6.0	G	Н	-	-		E	G	Н	-	-
	-19	F	F	G	Н	Н	Ē	F	G	G	Н
	2.0						E	F	G	Н	Н
	2.0		G	Н	H	-					
	2.8	F	G	H	H -	-					_
5.4	2.8 3.0	F	G	Н	-	-	E	F	G	Н	-
5.4	2.8	F									_

These drawings are limited to and by the extent of the detail

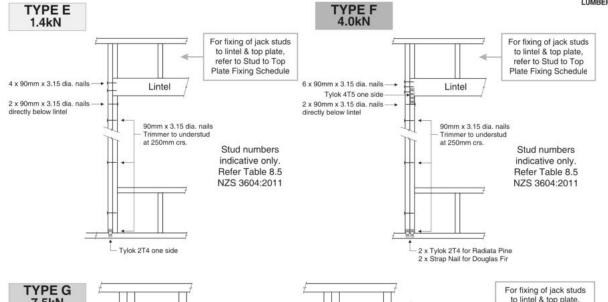
Building Code (NZBC). Where detail it required for construction

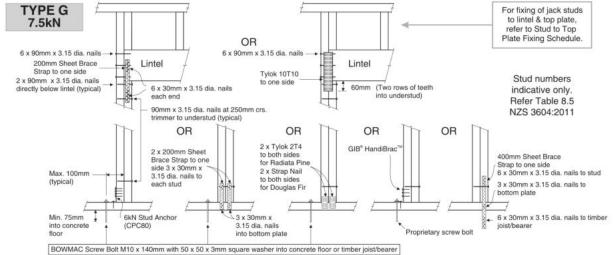
covered in the drawings to meet the current New Zealand

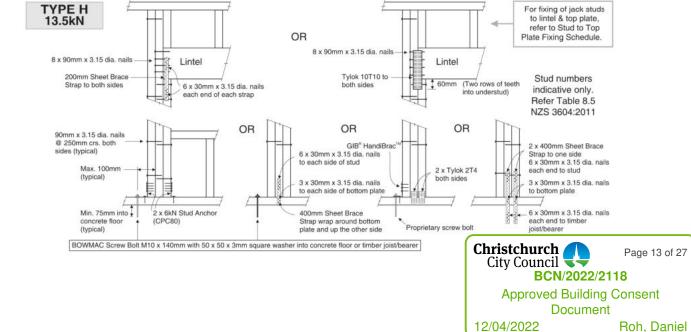
Light Roof

# LINTEL FIXING OPTIONS









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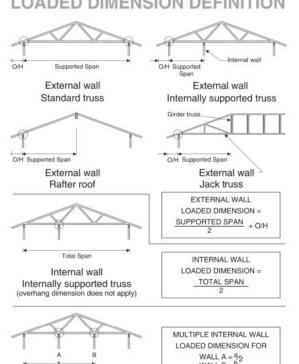


# STUD TO TOP PLATE FIXING SCHEDULE

# **ALTERNATIVE TO TABLE 8.18 NZS 3604:2011**

- \* All fixings are designed to resist vertical loads only. Dead loads include the roof weight and standard ceiling weight
- ★ Refer to Table 8.19 NZS 3604:2011 for nailing schedule to resist lateral loads.
- \* These fixings assume the correct choice of rafter/truss to top plate connections have been made.
- ★ For gable end walls where the adjacent rafter/truss is located within 1200mm and with a maximum verge overhang of 750mm, select stud to top plate fixing using a loaded dimension of 1.5m.
- \* All fixings assume top plate thickness of 45mm maximum.
- \* Wall framing arrangements under girder trusses are not covered in this schedule.
- ★ All timber selections are as per NZS 3604:2011.

# LOADED DIMENSION DEFINITION



## FIXING SELECTION CHART

Multiple internal walls

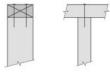
(Suitable for walls supporting roof members at 600, 900 or 1200mm crs.) Wind Zones L, M, H, VH, EH, as per NZS 3604:2011

Loaded Dimension (m) Stud Centres				Light Roof Wind Zone			Heavy Roof Wind Zone					
300mm	400mm	600mm	L	M	н	VH	EH	L	M	Н	VH	EH
3.0	2.3	1.5	Α	Α	В	В	В	Α	Α	В	В	В
4.0	3.0	2.0	Α	Α	В	В	В	Α	Α	В	В	В
5.0	3.8	2.5	Α	В	В	В	В	Α	Α	В	В	В
6.0	4.5	3.0	Α	В	В	В	В	Α	Α	В	В	В
7.0	5.3	3.5	Α	В	В	В	В	Α	Α	В	В	В
8.0	6.0	4.0	Α	В	В	В	В	Α	Α	В	В	В
9.0	6.8	4.5	В	В	В	В	В	Α	Α	В	В	В
10.0	7.5	5.0	В	В	В	В	В	Α	Α	В	В	В
11.0	8.3	5.5	В	В	В	В	В	Α	Α	В	В	В
12.0	9.0	6.0	В	В	В	В	В	Α	Α	В	В	В

# **FIXING OPTIONS**



2 x 90mm x 3.15 dia. plain steel wire nails driven vertically into stud.



Christchurch City Council Page 14 of 27 BCN/2022/2118 **Approved Building Consent** Document 12/04/2022 Roh, Daniel

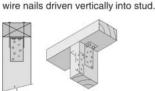
# FIXING TYPE B CHOOSE ANY OF THE 3 OPTIONS BELOW

2 x 90mm x 3.15 dia. plain steel wire nails driven vertically into stud.







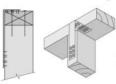


2 x 90mm x 3.15 dia. plain steel

2 x LUMBERLOK

Recommended for internal wall options to avoid lining issues

2 x 90mm x 3.15 dia. plain steel wire nails driven vertically into stud.





Plus LUMBERLOK Stud Strap (one face only)

To calculate the number of B type fixings required, divide the wall length by the stud centres, add 1 to this figure and locate this number of fixings as evenly as possible along the wall length. This figure includes the start and end studs in each wall length.



SCAN FOR INSTALLATION VIDEO

https://vimeo.com/117353604

sions are to be check and confirmed prior to any construction

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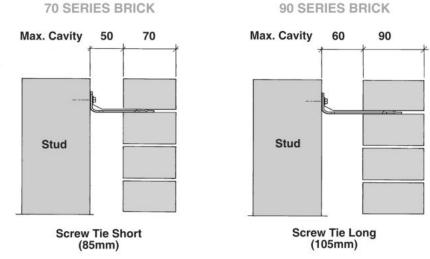
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The Steve & Catherine Bridge **Family Trust** Lot 21 **Belfast Development** 

Belfast, Christchurch

## 70 SERIES BRICK



- ★ All brick work must be constructed in accordance with NZS 4210:2001 Masonry Construction: Materials and Workmanship. Screw Ties must be applied accordingly and are not to be hammered into timber framing.
- \* Water shedding shoulder prevents transfer of the moisture from tie to building.
- \* Nail hole for Oamaru Stone.
- \* Angled neck encourages increased tie embedment in mortar.

1.2mm NZCC-SD Hot Dip Galvanised Steel

Type 17-12g x 35mm Hex Head Hot Dip Galvanised Screws

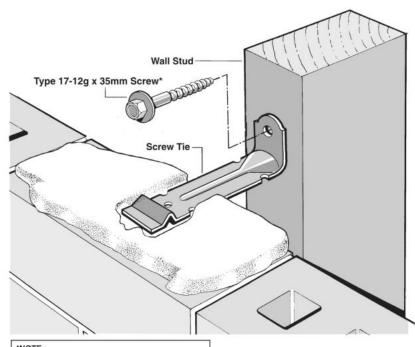
250 ties per box including screws Packed:

Also available in Stainless Steel Grade 316 for Zone D.

# **SCREW TIES**

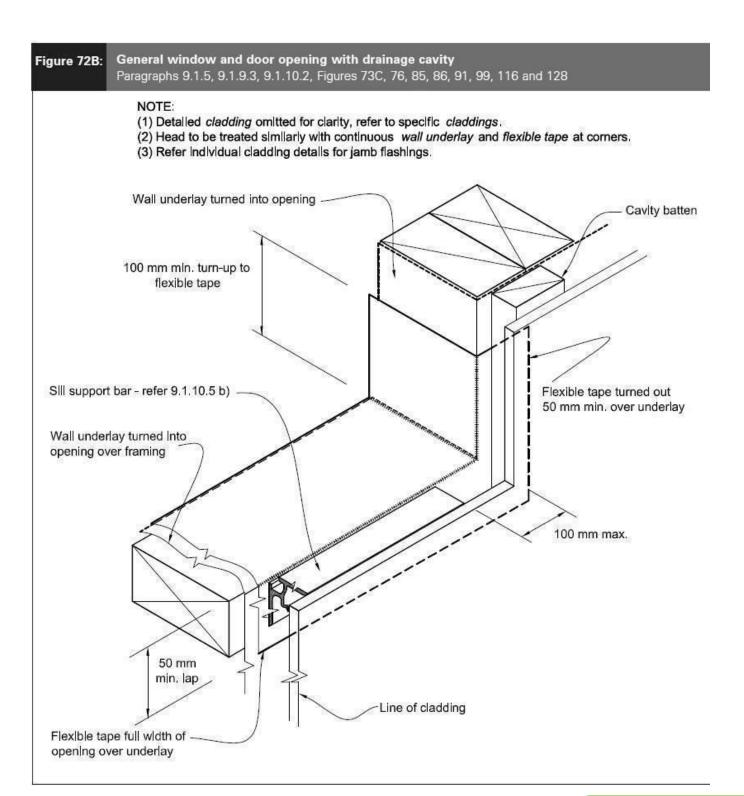
# FOR BRICK VENEER FIXING

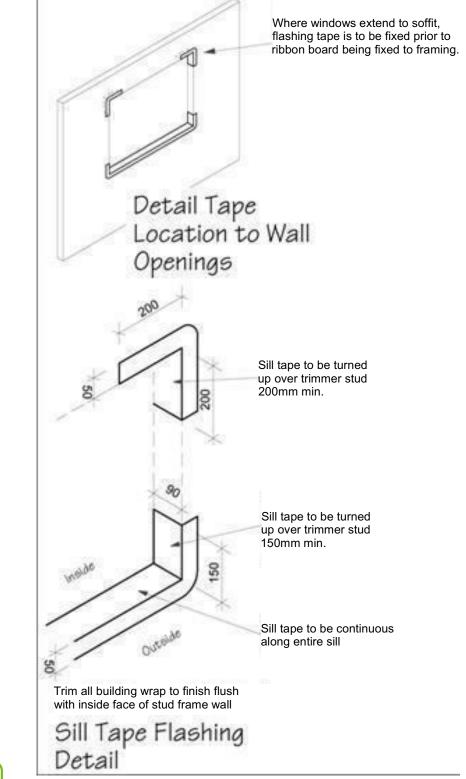
- Medium duty (EM) classification
- ★ Tested by BRANZ in accordance with AS/NZS 2699.1:2000
- \* BRANZ test report No. ST0725 November 2007
- \* Suitable for both 'dry bedding' and encapsulated mortar \* Hot Dip Galvanised ties for Zones B & C, and Stainless Steel Grade 316 ties for Zone D meet NZS 3604:2011 Sect. 4 Durability
- ★ Available in 85mm and 105mm sizes



Use longer screws for fixing through Rigid Air Barrie (RAB). Maintain 35mm embedment in studs

**CONSENT PLANS** Sheet No. Original Plan: Dove Date: Reason: 08-12-2021 Initial Consent Plans 141538 FRAMING DETAILS 14 Print Date of 21 sheets 21/12/2021 NTS





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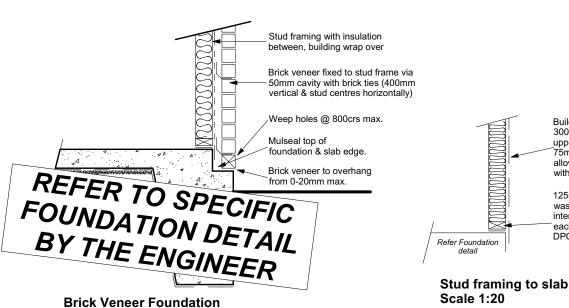
Christchurch 8443 P: +64 3 342 7788 These drawings are limited to and by the extent of the detail covered in the drawings to meet the current New Zealand Building Code (NZBC). Where detail it required for construction and to demonstrate compliance with the current NZBC, a specific request should be made for the required detail to be supplied. No liability will be accepted for any detail or construction not covered in these drawings and/or carried out by persons other than the designer producing these documents.

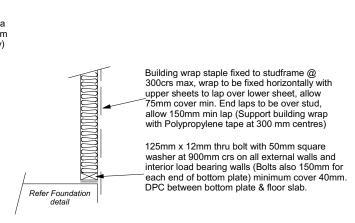
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Family Trust
Lot 21
Belfast Development
Belfast, Christchurch

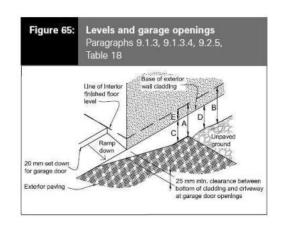
Roh, Daniel

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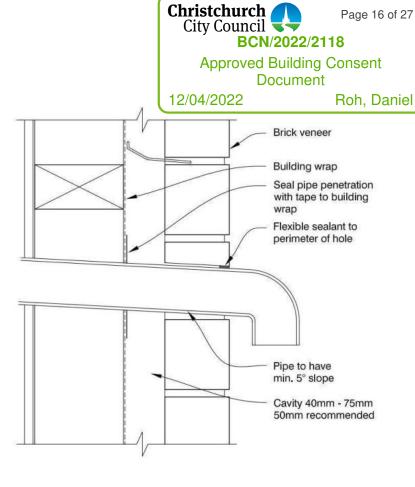
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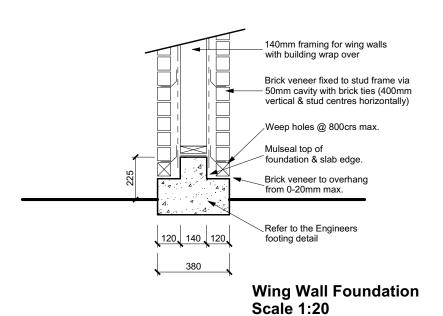


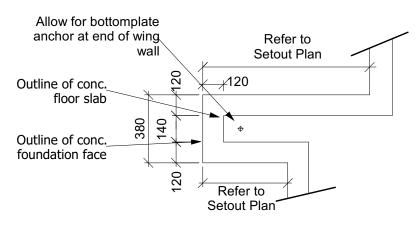




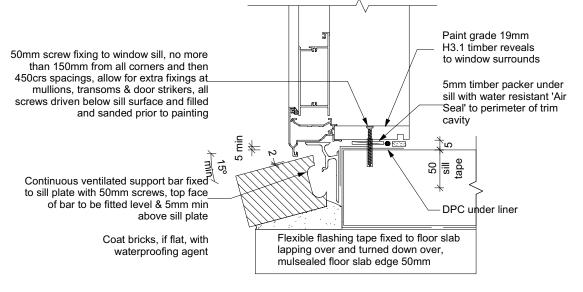








Wing Wall Foundation Detail scale 1:20



**Door Sill to Slab Detail Scale 1:20** 

All dimensions are to be check and confirmed prior to any construction

**Scale 1:20** 

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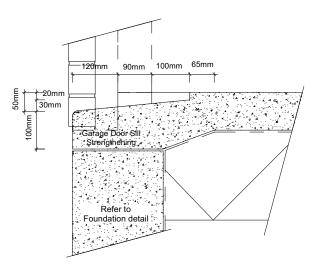
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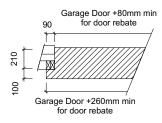
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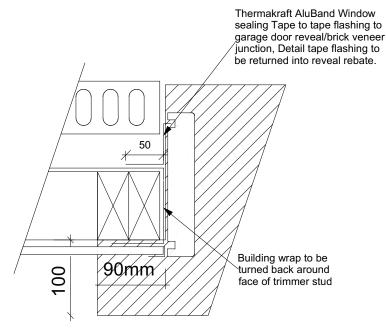
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**CONSENT PLANS** Sheet No.: Date: Reason:
08-12-2021 Initial Consent Plans 16 of 21 sheets

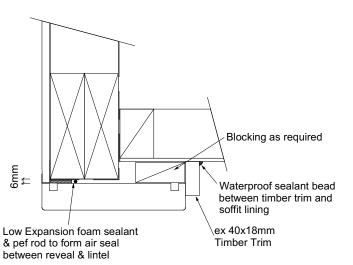


Garage Door Rebate Details Scale 1:10

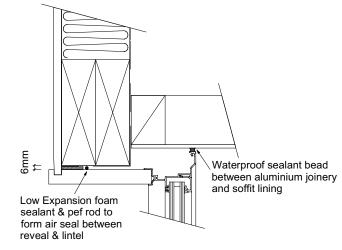




Garage Door Jamb Detail Scale 1:5



Garage Door Head to Soffit Scale 1:5



Window Head to Soffit Detail Scale 1:5

# 9.1.10.8 Attachments for windows and doors

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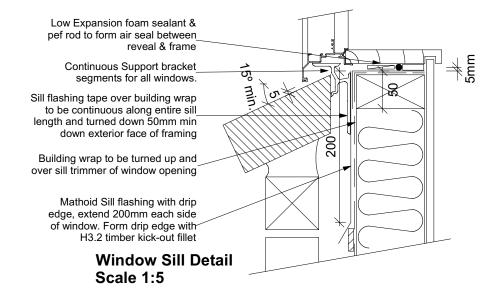
Page 17 of 27

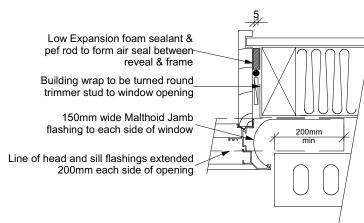
Roh, Daniel

Install windows and doors using pairs of minimum 75 x 3.15 galvanised jolt head nails or 8 gauge x 65 mm stainless steel screws, through reveals into surrounding *framing* at:

- a) Maximum 450 mm centres along sills, jambs and heads, and
- b) Maximum 150 mm from reveal ends.

Install packers between reveals and *framing* at all fixing points, except between head reveals and lintels.





Window Jamb Detail Scale 1:5

200mm Lin 200mm Min 200mm Aluminium door

Expandable foam sealant on pef rod to form air seal between cavity system and Gibboard lining

Flexible flashing tape in corners

Line of head and sill flashings extended 200mm each side of opening

150mm wide Malthoid Jamb flashing to each side of window

Door Jamb Detail Scale 1:5

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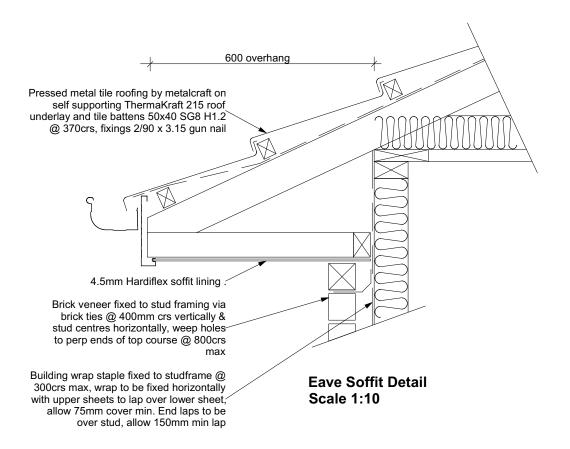
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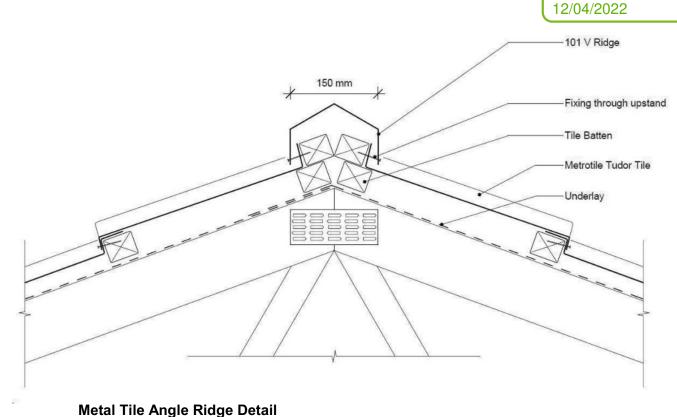
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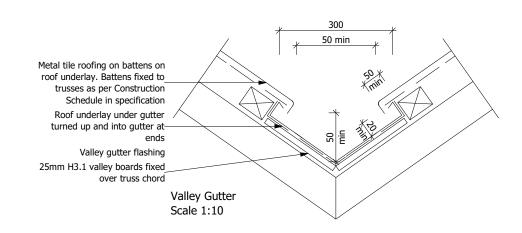
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		Dove	Drawn: QS: Print Date:

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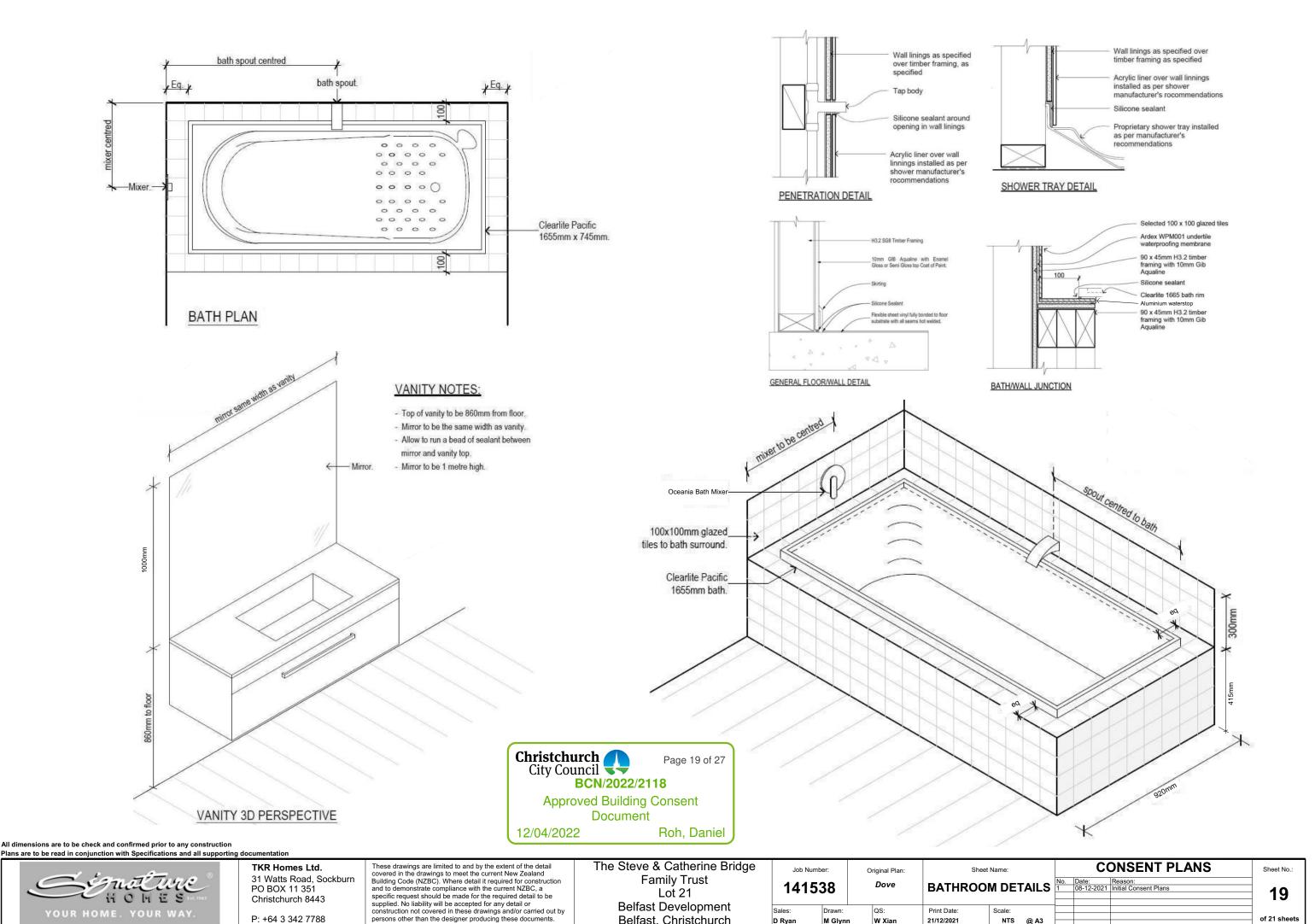
These drawings are limited to and by the extent of the detail covered in the drawings to meet the current New Zealand Building Code (NZBC). Where detail it required for construction and to demonstrate compliance with the current NZBC, a specific request should be made for the required detail to be supplied. No liability will be accepted for any detail or construction not covered in these drawings and/or carried out by persons other than the designer producing these documents.

The Steve & Catherine Bridge
Family Trust
Lot 21
Belfast Development
Belfast, Christchurch

**Scale NTS** 

Job Number 14153		Original Plan: <b>Dove</b>	CONS	STRUCTION ETAILS
	Drawn:	QS:	Print Date:	Scale:
D Ryan	M Glynr	n W Xian	21/12/2021	As Shown @ A3

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).	Date:	Reason:	
	08-12-2021	Initial Consent Plans	40
			18
			of 21 shee



**Belfast Development** 

Belfast, Christchurch

D Ryan

M Glynn

Print Date:

21/12/2021

NTS

of 21 sheets

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# **BUILDABLE CONSENT LAYOUT**



For valley/saddle truss fixing unless stated otherwise use a pair of wire dogs at 900mm centres for up to and including a very high wind zone. Or a pair of CT200's at 900mm centres for extra high wind zone. This fixing is to meet the minimum requirements as per NZS3604

# **CARTERS**

# **Building Partner**



## JOB No **351827C1**

Client: TKR Homes Limited | T/A Signature H Job: Bridge

Site: Lot 21 Belfast Development

Belfast

Pitch: 25.0dea Roof Type: Metal Tiles Overhang: 600mm Wind Area: High Roof Snow: 0.441kPa Ceiling Restraint Centres:600mm

Trusses and rafters at 900mm max centres unless stated otherwise. This layout is to be read in conjunction with the Architectural plans.

## DRAWN Rebecca Lofroth 27 Aug, 2021

# **FIXINGS**

- A = 47x90 Joist Hanger
- B = 47x120 Joist Hanger
- C = CT200 (pair)
- D = 47x190 Joist Hanger
- E = 95x165 Joist Hanger
- F = SH-140 Split Hanger G = SH-180 Split Hanger
- H = SH-220 Split Hanger
- J = 2x6kN Strap (12kN Total)
- K = 6kN Strap
- L = Multigrip (single)
- M = Multigrips (pair)
- N = Nailon Plate (240x110x1)
- P = 16kN Pack
- Q = 9kN Pack
- S = CPC 40 Single Cleat
- T = CPC 40 Short (pair)
- U = CPC 80 Single Cleat
- V = 16kN Uplift
- W= 24kN Uplift
- X = 25kN Uplift
- Y = 35kN Uplift
- Z = 45kN Uplift

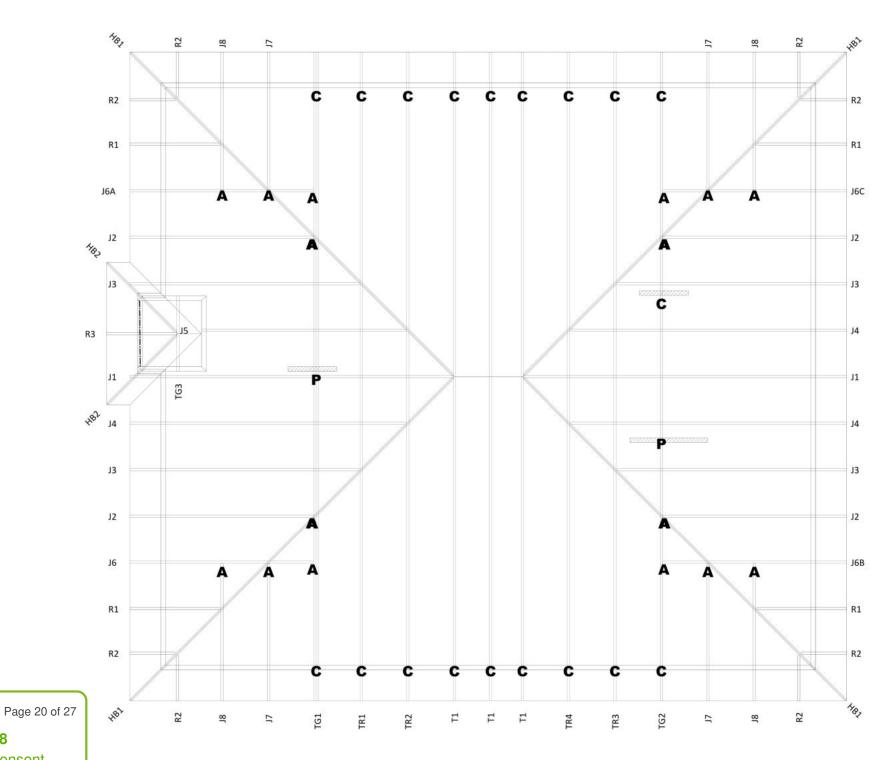
Unless otherwise indicated, all specified truss fixings are to use L/Lok product nail fasteners (as per the MiTek On-site Guide) when the choice of using screws or nails is optional.

All truss to frame fixings require 2 additional 2/90x3.15dia skew nails

All truss fixings not indicated as above must have 2 wire dogs for cross joints and 2/90x3.15dia nails for butt joins.

Fixings shown are for fixing trusses to the top plate. Any other point load uplift fixings down through the framing stud to top plate, stud to bottom plate, bottom plate to floor remain the responsibility of the architect / draughtsman.

**Truss Layout** 



Roh, Daniel

PLEASE NOTE: All gable trusses are designed to suit cladding manufacturer's framing requirements. If a gable truss requires a windbeam brace, the type of MiTek brace will be noted as such on the layout.

All dimensions are to be check and confirmed prior to any construction Plans are to be read in conjunction with Specifications and all supporting documentation

BCN/2022/2118

**Approved Building Consent** Document

TKR Homes Ltd. 31 Watts Road, Sockburn PO BOX 11 351 Christchurch 8443

P: +64 3 342 7788

These drawings are limited to and by the extent of the detail covered in the drawings to meet the current New Zealand Building Code (NZBC). Where detail it required for construction and to demonstrate compliance with the current NZBC, a specific request should be made for the required detail to be supplied. No liability will be accepted for any detail or construction not covered in these drawings and/or carried out by persons other than the designer producing these documents

The Steve & Catherine Bridge **Family Trust** Lot 21 **Belfast Development** Belfast, Christchurch

Sheet Name: Original Plan: Dove 141538 TRUSS DESIGN

M Glynn

Print Date

NTS

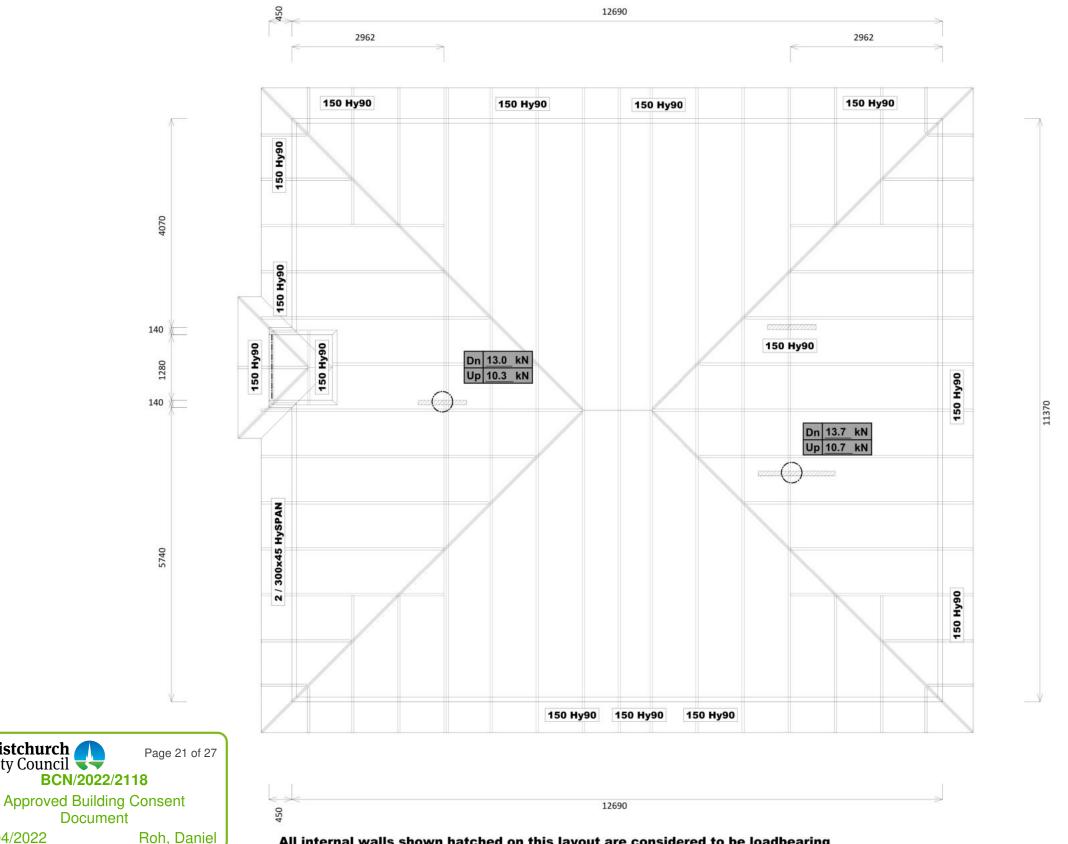
**CONSENT PLANS** Sheet No. Date: Reason: 08-12-2021 Initial Consent Plans 20 of 21 sheets

Christchurch City Council

12/04/2022

# **BUILDABLE CONSENT LAYOUT**





Carters National Support Office 0800 Carters

## JOB No **351827C1**

Client: TKR Homes Limited | T/A Signature F

Job: Bridge

Site: Lot 21 Belfast Development

Belfast

Pitch: 25.0deg Roof Type: Metal Tiles Overhang: 600mm Wind Area: High Roof Snow: 0.441kPa

Trusses and rafters at 900 mm max centres unless stated otherwise. This layout is to be read in conjunction with the Architectural plans.

DRAWN Rebecca Lofroth 27 Aug,2021





Ultimate Limit State Loads

Notification of point loaded lintels or point loads on internal walls where the downward load is higher than 8kN (85mm raft type slab) or 10kN (100mm standard slab), or the upward load is greater than 10kN.

Any roof loads as stated on this layout over 16kN up or down are outside the scope of NZS3604, and the architect / draughtsperson is responsible for the design to transfer the loads to the ground.

If no loads are shown, no thickening is required.

The lintels have been sized using one of the following:

hy90, hyONE and hySPAN lintels have been sized using the designIT for houses - New Zealand series 6 software.

**GANGLAM and FLITCH BEAMS** have been sized using the MiTek Beam Program V1.10 June 2011.

Unless otherwise stated the timber grade for all lintels is SG8. Lintels not shown are to be selected as per NZS3604: 2011



All internal walls shown hatched on this layout are considered to be loadbearing Lintel fixing specification remains the responsibility of the architect / draughtsperson

All dimensions are to be check and confirmed prior to any construction

Document

Plans are to be read in conjunction with Specifications and all supporting doc



TKR Homes Ltd. 31 Watts Road, Sockburn PO BOX 11 351 Christchurch 8443

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These drawings are limited to and by the extent of the detail covered in the drawings to meet the current New Zealand Building Code (NZBC). Where detail it required for construction and to demonstrate compliance with the current NZBC, a specific request should be made for the required detail to be supplied. No liability will be accepted for any detail or construction not covered in these drawings and/or carried out by persons other than the designer producing these documents.

The Steve & Catherine Bridge **Family Trust** Lot 21 **Belfast Development** Belfast, Christchurch

Sheet Name: Original Plan: Dove 141538 TRUSS DESIGN

M Glynn

Print Date

NTS

**CONSENT PLANS** Date: Reason: 08-12-2021 Initial Consent Plans

Christchurch City Council

12/04/2022

# **Proposed New Dwelling**



Lot 21 Belfast Subdivision, Christchurch

RIBRAFT DRAWINGS

File Number 21008.218

Sheet No.	Rev	Date Issued	Sheet Title
S1	-	24/11/2021	General Notes
S2	-	24/11/2021	RibRaft Foundation Plan
S3	-	24/11/2021	Typical Foundation Sections
S4	-	24/11/2021	Typical Foundation Sections
S5	-	24/11/2021	Typical Services Penetration Details

Issue Register

Date Descriptio

24/11/2021 For Consent

Christchurch Page 22 of 27
City Council BCN/2022/2118
Approved Building Consent Document
12/04/2022 Roh, Daniel

#### **GENERAL**

- These drawings are not to be used for construction until the plan (sheet S2) is signed by the main contractor.
- · Do not scale. Refer any discrepancies to the Architect.
- These drawings are to be read in conjunction with the Architects drawings.
- The builder shall be responsible for any damage to works during construction.
- The sand blinding layer shall be 20mm min. & 50mm max. to aid levelling & to prevent rocking of pods.
- Vapour barrier to be 0.25mm (250 micron) polythene complying with NZS 4229 / NZS 3604 .
- Finished ground level adjacent to slab to be protected from wind, water erosion and undermining.

## **FOUNDATIONS**

- For assumed allowable bearing capacity refer to calculations/installer guide. Unless otherwise noted in documentation.
- · If there is any doubt about the integrity of the material on which the slab is to be founded -Supervising Engineer must be notified immediately.

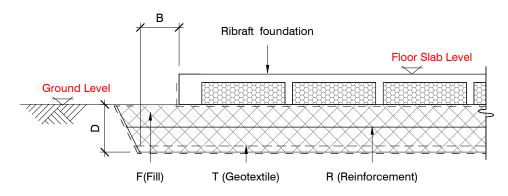
#### GEOTECHNICAL REFERENCE:

Refer: ENGEO - Lot Specific Geotechnical Report

Ref. No: 19120.000.001 21

Dated: 4-Nov-21

Confirm Ultimate Bearing Capacity after site stripping > 200 kPa



# **BUILDING PLATFORM**

#### CONCRETE

- All workmanship & materials to conform to NZS 3109, NZS 4210 & local authority regulations.
- Minimum covers to reinforcement:
  - Exposed to earth 75mm.
- Protected by vapour barrier 50mm.
- Not exposed to weather except for a brief period during construction 25mm.
- No holes or chases other than those specified are to be made in the slab without the approval of Engco.
- All concrete shall have 20mm nominal maximum aggregate size & 120mm slump & shall comply with NZS 3109.
- All concrete to be mechanically vibrated & carefully worked around the reinforcement & into the corners of the formwork.
- Ribraft make-up to be

100 mm Floor Slab - 220 mm pods (25MPa TC2 Dramix 4D 80/60 Fibre mix Concrete) G500 E SE62 Ductile mesh on 65 mm chairs.

The design Fibre mix shall be supplied so that the residual flexural tensile stresses f<sub>R.1</sub> & f<sub>R4.K</sub> shall be 1.5 MPa & 1.0 MPa respectively.

#### REINFORCEMENT

City Council 🔜 BCN/2022/2118
 All reinforcing shall be New Zealand sourced and conform to AS/NZS 4671:2001 Approved Building Consent in grade 300 or grade 500E. Document

contractor shall verify all dimensions before commencing work Christchurch Page 23 of 27

All bends to be made cold without fracture.
12/04/2022

Roh, Daniel

Page 23 of 27

All reinforcing shall be deformed type unless otherwise stated.

- Grade 500E deformed bars shall be designated 'H', Grade 300 deformed bars shall be designated 'D' and Grade 300 round bars shall be designated 'R'.
- Minimum bar splice 720mm. (or unless otherwide noted).
- All reinforcement to be fixed & tied where necessary in its specified position.
- Welding of steel is not permitted.
- Spacers:

720

- Edge at 1200mm ctrs (one on edge & two on corners, typically).
- Internal one on each side of pod (typically).
- All mesh shall comply with AS/NZS 4671 & shall conform with elongation requirements exceeding 10%.
- All mesh shall lap a minimum of 250mm (end extensions not included in lap length).

#### **INSPECTIONS**

Inform ENGCO consulting 48 hours in advance of any inspections required for code compliance certification.

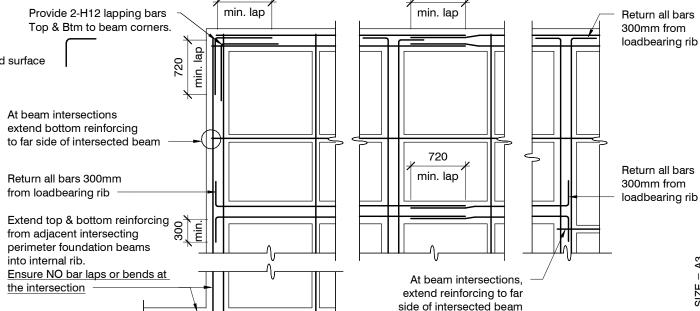
Contact ENGCO - Ph. 03 366 7955 & quote ENGCO Ref. No.

## **INSPECTIONS REQUIRED**

- 1. Confirm bearing at excavation by ENGCO
- 2. Contractor to supply (4) N.D> Tests at finished compacted surface - if depth of fill is greater than 400mm.
- 3. Pre-pour of slab by ENGCO

BUILDING PLATFORM TABLE:					
В	500mm				
D	350mm approx. (remove all top soil and organics)				
Т	N/A				
R	N/A				
F	AP 40/AP65 fill 95% Dry Density. Compact in 200mm layers (max.)				

Refer Architectural drawings for Finished Floor Level



N.T.S.

24/11/2021 For Consent

Typical Corner Steel & Min.

Lapping Requirements

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# **Proposed New Dwelling**

Lot 21 Belfast Subdivision, Christchurch

**General Notes** 

21008.218 R Maia M. Cusiel 24/11/2021

■A U C K L A N D - P H: (0 9) 3 7 7 7 9 5 5 ■ C H R I S T C H U R C H - P H: (0 3) 3 6 6 7 9 5 5 ■ N E L S O N - P H: (0 3) 3 6 6 7 9 5 5 ■ Q U E E N S T O W N - P H: (0 3) 4 4 2 4 2 5 5 ■ E - M A I L: O F F I C E 👽 E N G C O . C O . N Z ■ W W W. E N G C O . C O . N Z

12930

RIBRAFT FOUNDATION PLAN

Confirm all dimension with Architects drawings

Christchurch City Council Page 24 of 27 BCN/2022/2118 **Approved Building Consent** Document

12/04/2022 Roh, Daniel contractor shall verify all dimensions before commencing work

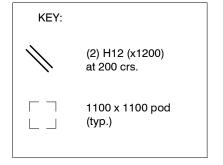
#### **GENERAL NOTES:**

Locations shown of internal floor beam thickenings are indicative only. It shall be the responsibility of the Contractor to ensure that they are located centrally under the load bearing walls to which they pertain.

Under no circumstance should pipework for services be run longitudinally in 100mm ribs. Similarly they should not be run along perimeter foundations nor internal floor beam thickenings

Vertical or horizontal penetrations through the foundation edge beam or floor beam thickenings must be made through the middle third of the member. Vertical penetrations should not be made through 100 mm ribs.

Refer to Architects drawings for floor slab, set downs, steps, rebates, holding down bolts, cast-in componentry and the like.



100 mm Floor Slab - 220 mm pods (25MPa TC2 Dramix 4D 80/60 Fibre mix Concrete) G500 E SE62 Ductile mesh on 65 mm chairs.

The design Fibre mix shall be supplied so that the residual flexural tensile stresses f<sub>R,1</sub> & f<sub>R4,K</sub> shall be 1.5 MPa & 1.0 MPa respectively.

All Mesh shall lap a minimum of 250mm (end of extensions not included.

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400

# **Proposed New Dwelling**

Lot 21 Belfast Subdivision, Christchurch

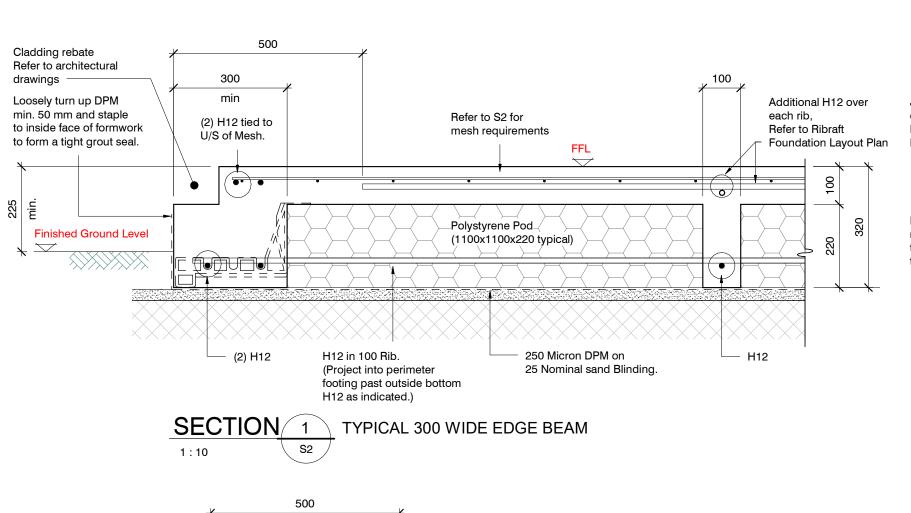
RibRaft Foundation Plan

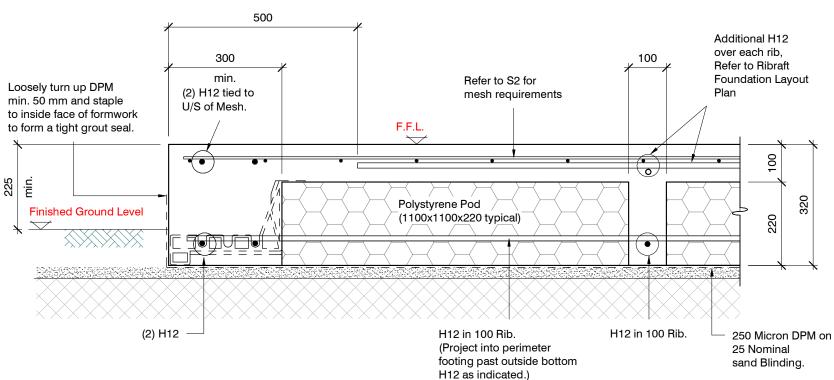
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	design	K. Zareei		file
	drawn	R. Maia		
	appvd	M. Cusiel		u
	date	24/11/2021		

24/11/2021 For Consent

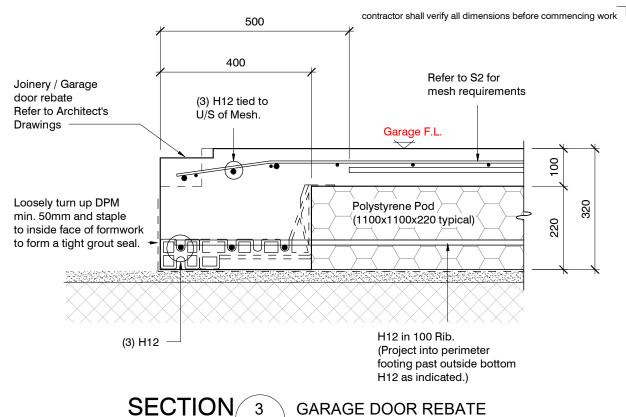
21008.218 S2

■AUCKLAND - PH: (09) 3777955 ■ CHRISTCHURCH - PH: (03) 3667955 ■ NELSON - PH: (03) 3667955 ■ QUEENSTOWN - PH: (03) 4424255 ■ E - MAIL: OFFICE ⊕ ENGCO.CO.NZ ■ W W W. ENGCO.CO.NZ

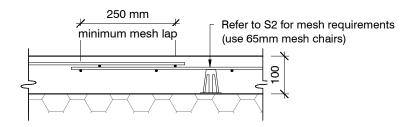




TYPICAL 300 WIDE EDGE BEAM



**GARAGE DOOR REBATE** 



# TYPICAL MESH LAP & CHAIR REQUIREMENTS

1:10



1:10

24/11/2021 For Consent

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SECTION 2

1:10



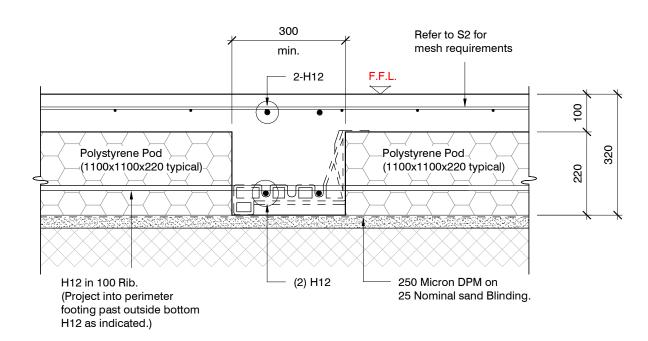
# **Proposed New Dwelling**

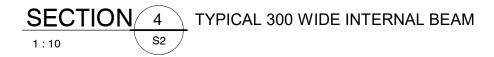
Lot 21 Belfast Subdivision, Christchurch

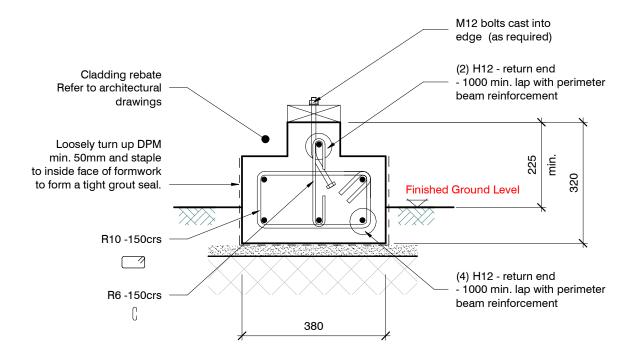
**Typical Foundation Sections** 

21008.218 R. Maia M. Cusiel appvd **S**3 24/11/2021 date

■A U C K L A N D - P H: (0 9) 3 7 7 7 9 5 5 ■ C H R I S T C H U R C H - P H: (0 3) 3 6 6 7 9 5 5 ■ N E L S O N - P H: (0 3) 3 6 6 7 9 5 5 ■ Q U E E N S T O W N - P H: (0 3) 4 4 2 4 2 5 5 ■ E - M A I L: O F F I C E 👽 E N G C O . C O . N Z ■ W W W. E N G C O . C O . N Z









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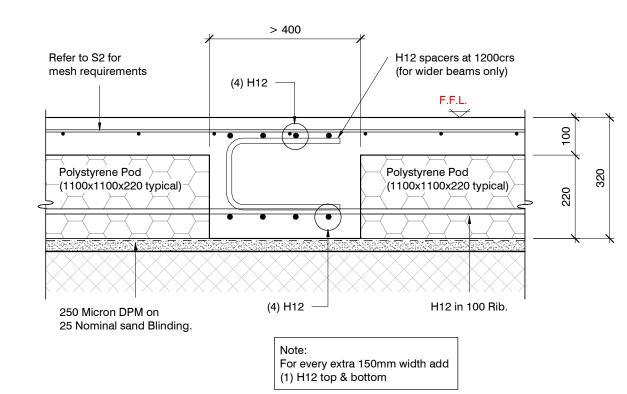


# **Proposed New Dwelling**

Lot 21 Belfast Subdivision, Christchurch

**Typical Foundation Sections** 

R. Maia M. Cusiel appvd 24/11/2021

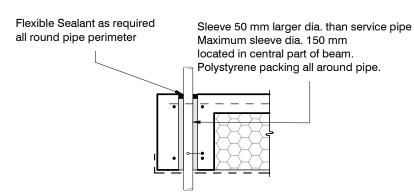


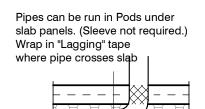
SECTION/ TYPICAL MORE THAN 300 WIDE INTERNAL BEAM S2

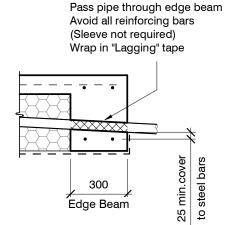


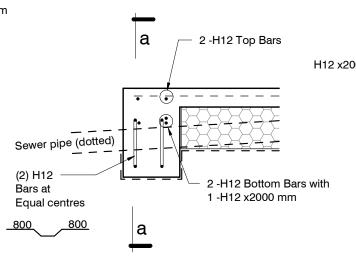
24/11/2021 For Consent 21008.218 S4

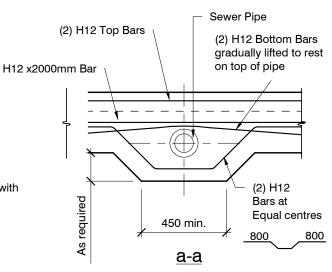
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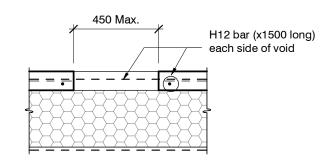
# SLAB SERVICES PENETRATION DETAIL

PIPE NOTE:

No separation required where pipes are fully contained within slab. Sleeve all drains that pass through the base of the slab.

PENETRATIONS NOTE:

Where penetrations through Floor Slab exceed 450 mm Square, Crack Control Bars will be required.



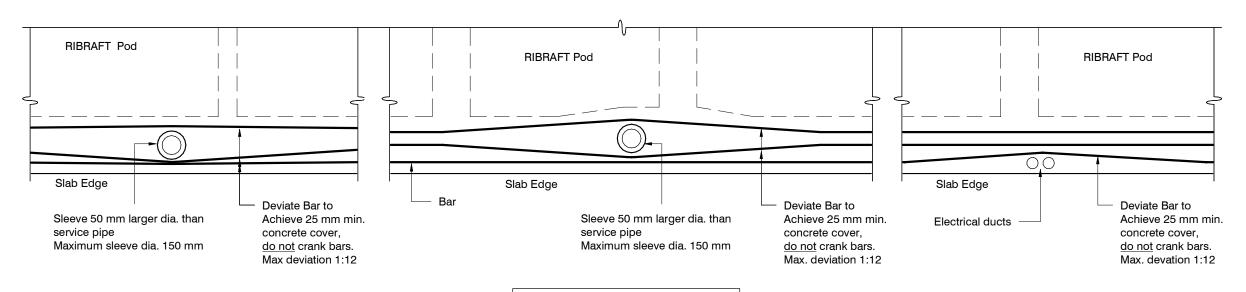
# LARGE SLAB PENETRATION DETAIL

TYPICAL SECTION

LOCALISED DEEPENING OF FOUNDATION BEAM

TO ACCOMMODATE TOILET WASTE PIPE





FOUNDATION SERVICES PENETRATION DETAILING.

Do not cut longitudinal reinforcement bars.

Services shall not run along ribs or edge beams

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Consulting Engineers



**Proposed New Dwelling** 

Lot 21 Belfast Subdivision, Christchurch

Typical Services
Penetration Details

- 24/11/2021 For Consent

| design K. Zareei | file 21008.218 | dwg | rev. | feld | dwg | feld | fel

ORIGINAL SIZE

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