# Approved Building Consent documents

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

#### **Inspection booking timeframes**

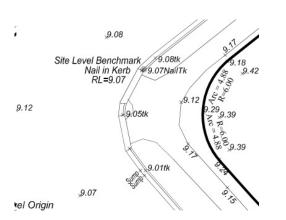
Call received	before 3pm inspection will be done	after 3pm inspection will be done
Monday	Wednesday	Thursday
Tuesday	Thursday	Friday
Wednesday	Friday	Monday
Thursday	Monday	Tuesday
Friday	Tuesday	Wednesday

Please ensure all work for inspection is ready the day before.

Incomplete work requiring re-inspection will incur an additional inspection fee.

For building inspections and enquiries phone ContactUs on: 03 347 2800.





#### **Planning Approved**

14/03/2025 amanda.duke

9.15 TK

9.26

3 200

9.47

# LEGEND. Sewer Pipe S/W Pipe Down Pipe DP Gully Trap GT Terminal Vent TV

**LEGEND** 

#### SITE PLAN NOTES

Refer to Drainage Plan for specific drainage information

Refer to sediment control plan in specification and implement where required.

Convey surface water from sealed drive areas to an appropriate approved outfall.

	SITE INFORMATION
Zone	5
Wind	High
Earthquake	2
Durability	С
Snow	As per truss design

BUILDING AREA AND S	ITE COVERAGE
Net Site Area =	790 m²
Building Area =	248 m²
Actual Site Coverage=	31.4 %

# 9.42 9.42 9.43 9.44 9.44 9.48 9.48 9.38

#### Level Datum:

LVD1937 (Local Datum) (prior to 2010/11 EQ's)

Whitehorn Drive

#### Origin of Levels:

MA7 DP608596 - RL=8.98

MA6 DP608596 - RL=9.23

MA8 DP608596 - RL=9.22

#### **Origin Source:**

Davie Lovell-Smith

Asbuilt plan E.20764 AB.FL01 R0 Nov 2024,

Produced for Flood Assessment

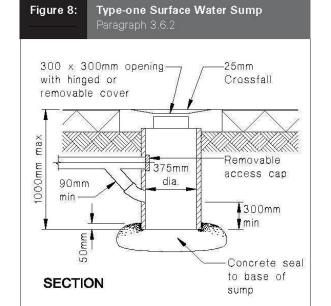
Certificiate CF240540 01/11/24.

(Verified by Davie Lovell-Smith as being the level datum to use for site levels

and FFL determination.)

Minimum FFL = 9.79

(Flood Assessment Certificiate FC240540 01/11/24)





J and A Design Ltd
12 Murfitt St
Pegasus 7612
Ph: 027 7715816
Email : admin@jandadesign.co.nz

Grant Property Group Ltd
Proposed Dwelling At:
Lot 870
75 Whitehorn Drive, Lincoln

Site Plan

Consent plans

Drawn:
Jeremy Harrison
LBP # 105491

Scale:

Date: 10/03/2025

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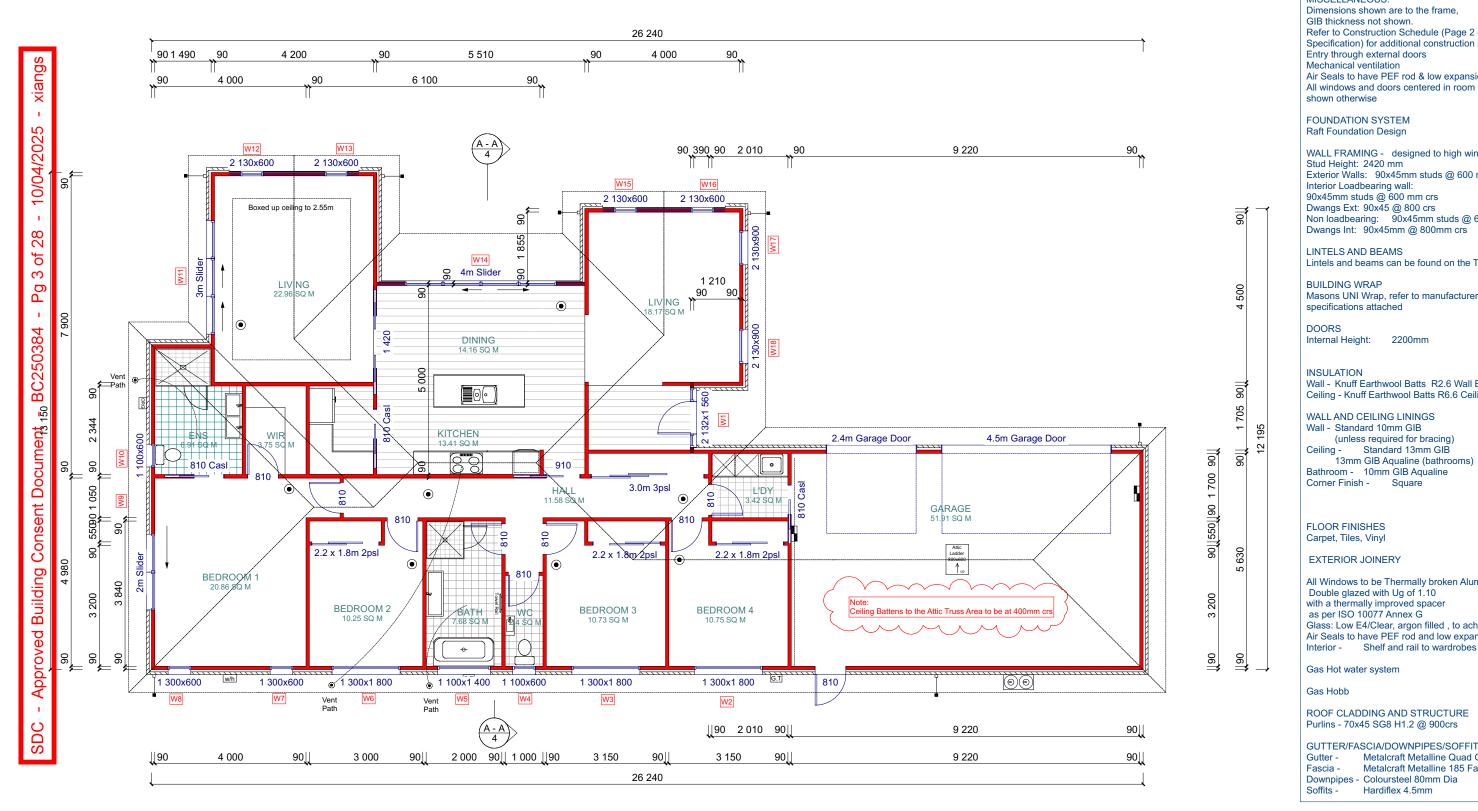
#### **ROOF & WALL CLADDING**

25 ° Corrugated Coloursteel Roof Walls -

70 Series Brick Veneer on a 50mm Cavity Vertical Cedar Shiplap on a 20mm Cavity

#### **BUILDING AREA**

AREA: 248 m<sup>2</sup> O/V Not Incl Covered Areas



#### **GENERAL FLOOR PLAN NOTES**

SMOKE ALARMS:

Domestic Smoke Alarms( Hush Type) to be Interconnected and Located in each bedroom, Hallway and Living Room Sapce. To Comply with: NZS4514 Alarms to be Not Less than 75dB(A)

Battery Operated Alarms to have a 10 Year Life. MISCELLANEOUS:

and Not more than 110dB(A)

Dimensions shown are to the frame,

GIB thickness not shown. Refer to Construction Schedule (Page 2 & 3 of Specification) for additional construction information.

Entry through external doors Mechanical ventilation

Air Seals to have PEF rod & low expansion foam All windows and doors centered in room unless

FOUNDATION SYSTEM

WALL FRAMING - designed to high wind zone

Stud Height: 2420 mm

Exterior Walls: 90x45mm studs @ 600 mm crs Interior Loadbearing wall:

90x45mm studs @ 600 mm crs Dwangs Ext: 90x45 @ 800 crs

Non loadbearing: 90x45mm studs @ 600 mm crs

Dwangs Int: 90x45mm @ 800mm crs

LINTELS AND BEAMS

Lintels and beams can be found on the Truss Design

**BUILDING WRAP** 

Masons UNI Wrap, refer to manufacturers specifications attached

DOORS

Internal Height: 2200mm

INSULATION

Wall - Knuff Earthwool Batts R2.6 Wall Batts Ceiling - Knuff Earthwool Batts R6.6 Ceiling Batts

WALL AND CEILING LININGS

Wall - Standard 10mm GIB

(unless required for bracing) Ceiling -Standard 13mm GIB

13mm GIB Aqualine (bathrooms)

Bathroom - 10mm GIB Aqualine Corner Finish -Square

FLOOR FINISHES

Carpet, Tiles, Vinyl

EXTERIOR JOINERY

All Windows to be Thermally broken Aluminium frame

Double glazed with Ug of 1.10 with a thermally improved spacer

as per ISO 10077 Annex G Glass: Low E4/Clear, argon filled , to achieve R0.5. Air Seals to have PEF rod and low expansion foam

Gas Hot water system

Gas Hobb

ROOF CLADDING AND STRUCTURE Purlins - 70x45 SG8 H1.2 @ 900crs

GUTTER/FASCIA/DOWNPIPES/SOFFITS

1:100

Metalcraft Metalline Quad Gutter Metalcraft Metalline 185 Fascia

Downpipes - Coloursteel 80mm Dia

Soffits -Hardiflex 4.5mm



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Layer of R3.6 Batts to

ne perimeter 500mm

of of the soffit

ends)

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Pg

Approved Building Consent Document

#### **LEGEND**

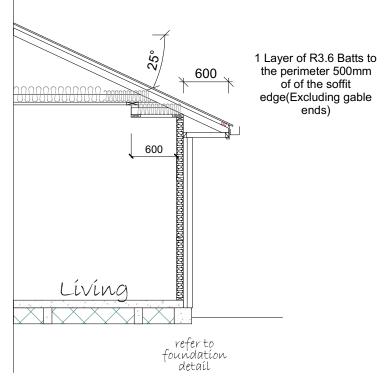
Refer to the Construction Schedule (Page 2 & 3) in the Specification for sizing of Building Elements. General Notes:

- Corrugated Colorsteel roofing by Metalcraft on self supporting ThermaKraft 215 roof underlay on 70x45mm SG8 H1.2 Purlins @ 900crs fixings 1/10g self-drilling screw,
- Metalcraft fascia & quad gutter system with 4.5mm Hardies soffit lining on 70x35mm H1.2 eaves bearers on edge fixed to ribbon board.
- 3 4.5mm Hardies Soffit lining

Roof cladding

Wire mesh

- 4 13mm Standard GIB ceiling lining to underside of Timber ceiling battens @ 600 crs with R6.6 Pink Batts insulation.
- 5 70 Series Brick Veneer on a 50mm cavity (refer to specification) Masons UNI building
- wrap on stud framing with R2.6 Pink Batts insulation & 10mm Std. GIB wall lining (Agualine to wet areas).
- 6 Cedar Shiplap with 20mm cavity (refer to manufacturers details). Masons UNI wrap on stud framing with R2.6 Pink Batts insulation & 10mm Std. GIB wall lining (Aqualine to wet
- (Dwangs to Cedar areas @ 480mm crs)
- 7 Bottom Plate fixings: Lumberlok bottom plate fixing anchors as per manufacturers spec's @ 900mm crs on all external walls and within 150mm of each end of the plate.
- 75mmx4mm dia shot fired fasteners @ 600mm crs and within 150mm of each end of the bottom plate to interior load bearing walls.
- DPC between bottom plate & floor slab (Refer to Mi Tek spec's attached for specific bottom plate fixing details required for bracing lintels)
- 8 Studs 90x45 @ 600crs SG8, Dwangs @ 800crs. (exterior walls) unless otherwise stated
- 9 Studs 90x45 @ 600crs SG8, Dwangs @ 800crs. 2 min. (interior loadbearing & non-loadbearing walls) unless otherwise stated



#### **PROTECTION OF FIXINGS**

Fixings shall comply with NZS 3604:2011 Section Durability Tables 4.1-4.3

#### **CONCRETE STRENGTH**

All concrete to comply with NZS3604:2011 Secti 4 Durability Clause 4.5.2

#### **TIMBER GRADE**

Timber members specified on these drawings are to be a minimum of SG8 strength graded as per



J and A Design Ltd 12 Murfitt St Pegasus 7612 Ph: 027 7715816 Email: admin@jandadesign.co.nz

Grant Property Group Ltd Proposed Dwelling At: Lot 870 75 Whitehorn Drive, Lincoln

**Cross Section** 

Consent plans

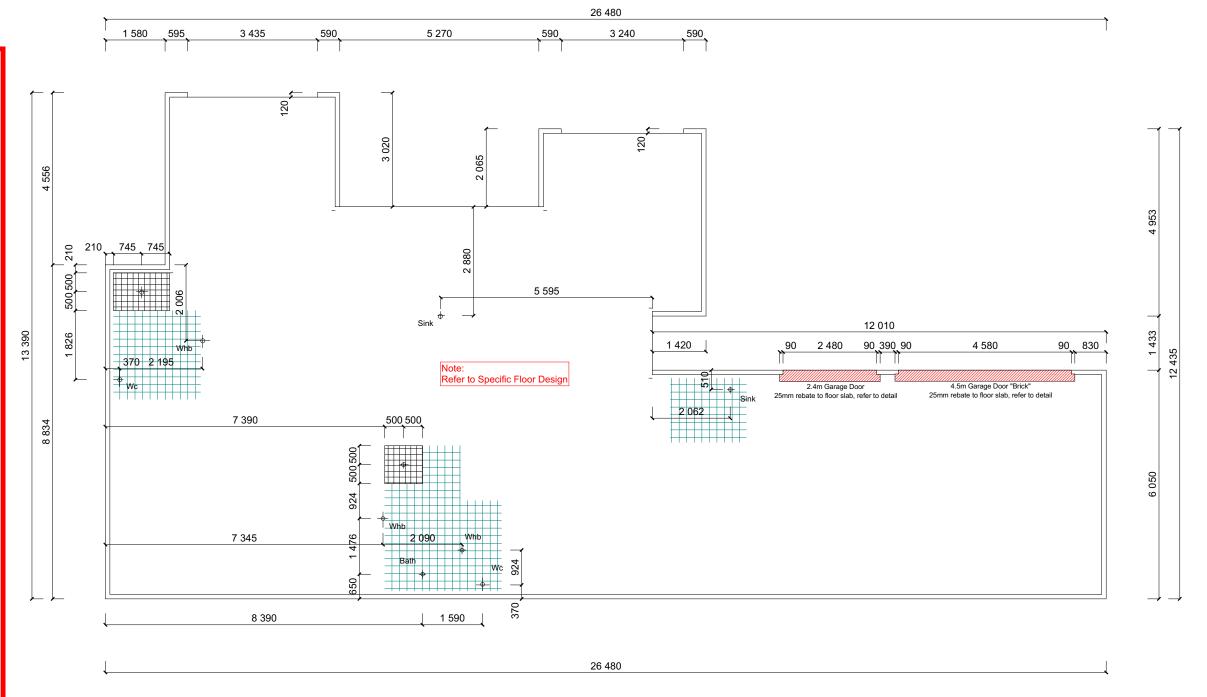
LBP # 105491

1:50

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10/03/2025

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Grant Property Group Ltd Proposed Dwelling At: Lot 870 75 Whitehorn Drive, Lincoln

#### **Foundation Plan**

Consent plans

Jeremy Harrison LBP # 105491 1:100

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**GENERAL FOUNDATION NOTES** 

Gully trap positions indicated on ground floor plan.
 Earth bar to be bonded to the reinforcing mesh
 Refer to Truss design for exact location of slab

**BOTTOM PLATE FIXING** Bottom Plate fixings: Lumberlok bottom plate fixing

anchors as per manufacturers spec's @ 900mm crs on all external walls and within 150mm of each end

75mmx4mm dia shot fired fasteners @ 600mm crs and within 150mm of each end of the bottom plate to interior load bearing walls.
DPC between bottom plate & floor slab (Refer to Mi

Tek spec's attached for specific bottom plate fixing

details required for bracing lintels)

1) All dimensions over foundation face. W/C location indicated on plan has assumed a 160mm 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.

thickenings

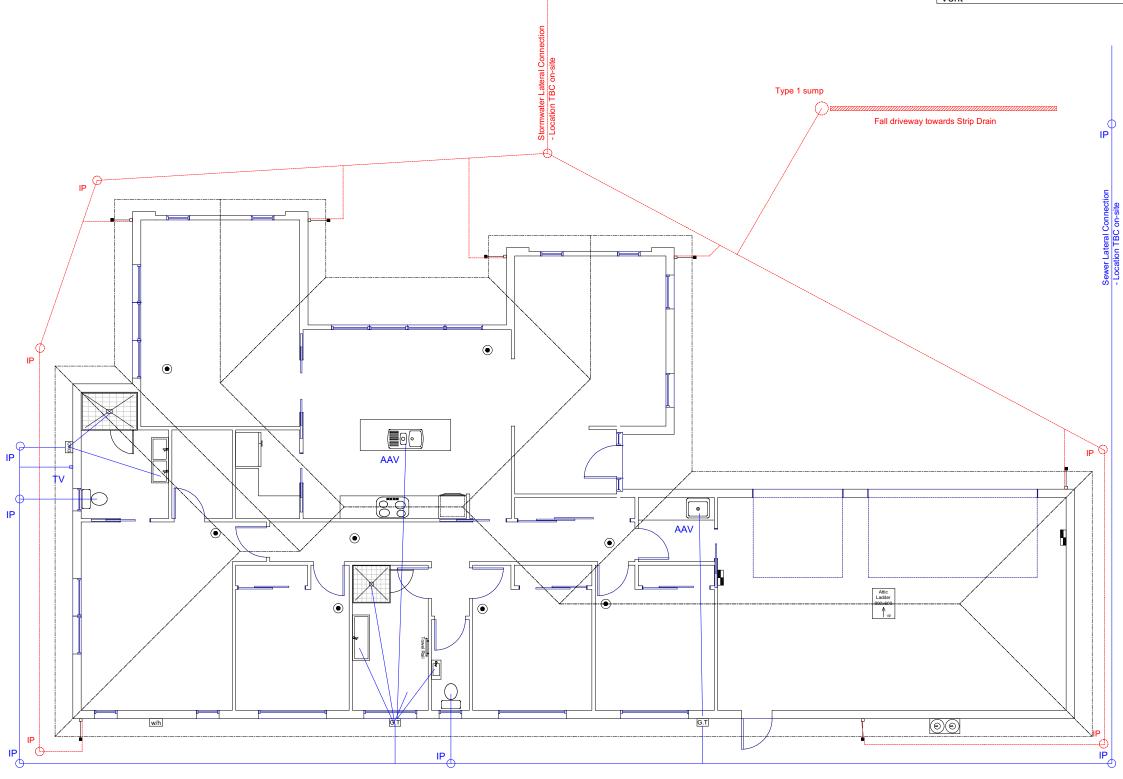
of the plate.

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SDC

Drainage Schedule	NZBC G13	
(Drainage as per Schedule unless specified otherwise)		
Kitchen		
Sink:	Ø65mm @1:40	(3 discharge units)
Bathrooms		
Vanity:	Ø40mm @ 1:40	(1 discharge units per basin)
Shower:	Ø40mm @1:40	(2 discharge units)
Bath:	Ø40mm @1:40	(4 discharge units)
WC:	Ø100mm @1:40	(4 discharge units)
Laundry		
Sink:	Ø65mm @1:40 min	(5 discharge units)
Main Foulwater Drain	Ø100mm @1:60	
Stormwater Drain	Ø100mm @1:60 (1:120min)	
Terminal Vent	Ø80mm	
Vent	Ø50mm	



LEGEND.	
Sewer Pipe	
S/W Pipe	
Down Pipe	DP
Gully Trap	GT
Terminal Vent	TV
Vent	V
Inspection Point	IP
Air Admittance Valve	AAV



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Grant Property Group Ltd Proposed Dwelling At: Lot 870 75 Whitehorn Drive, Lincoln **Drainage Plan** Consent plans Jeremy Harrison LBP # 105491 1:100

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10/03/2025

140 x 35 extra top plate when used (see 8.7.4.2)

Connection rated as per table below

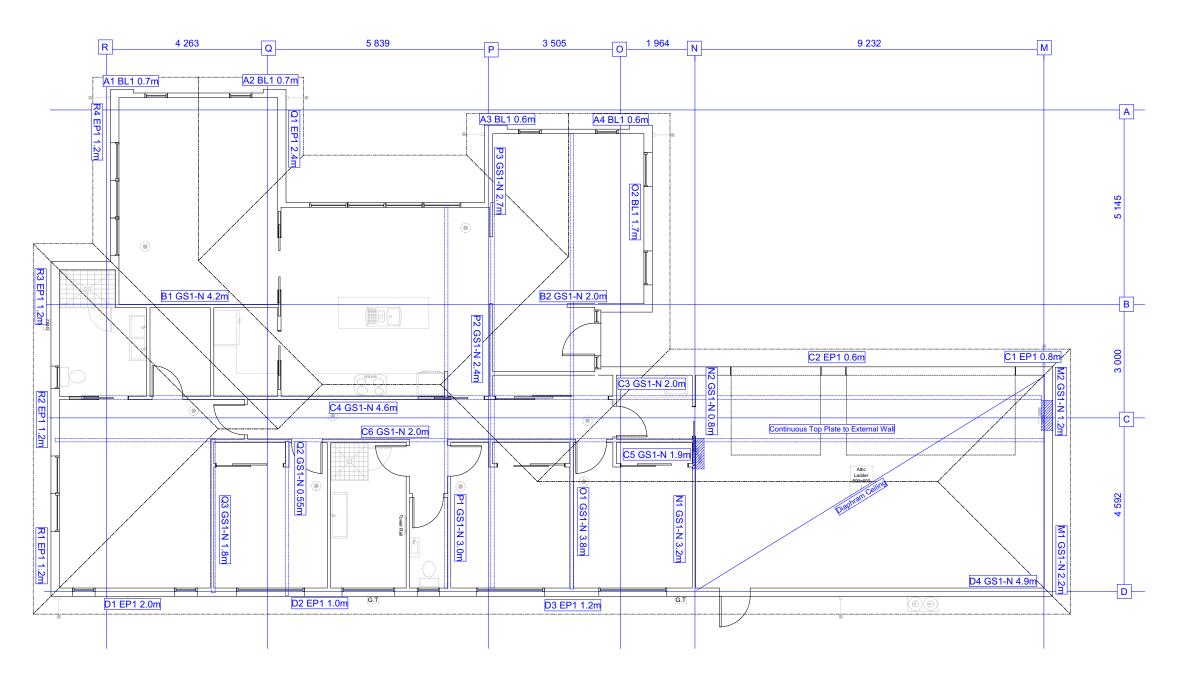
(A) BUTT JOINT

Unless otherwise stated, all dimensions are in mm

Capacities of metal plate joints

Up to 3 kN 3 / 30 x 3.15 mm nails per side Up to 6 kN | 6 / 30 x 3.15 mm nails per side

NOTE - See section 4 for durability requirements.



#### **GENERAL BRACING NOTES**

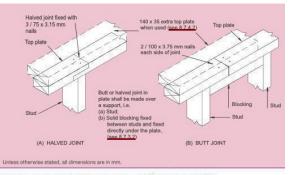
Bracing plan to be read in conjunction with supplementary bracing calculations

Refer to the supporting documents in the specification for purlin/batten fixing, truss fixing, stud to top plate fixing & lintel fixing schedules.

To be read in conjunction with minimal length bracing detail TAJ002AWA

#### **BRACING SYSTEM** Wall bracing designed in accordance with NZS 3604:2011 & GIB Ezybrace system

Designed to: Wind: High Earthquake:



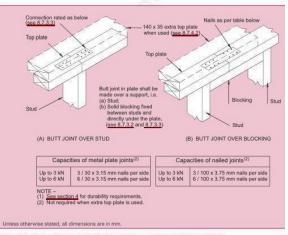
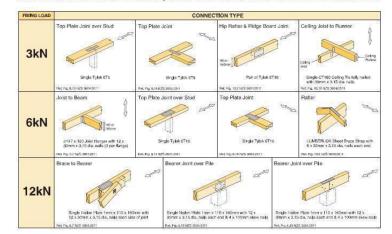
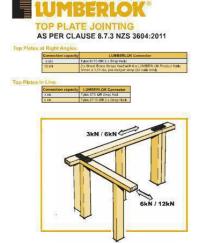


Figure 8.15 - Connecting top plates in line - Walls containing bracing (see 8.7.3.3)

#### **LUMBERLOK® EASY-FIX**

#### A SIMPLE ON-SITE GUIDE FOR 3kN, 6kN & 12kN LOADS AS SPECIFIED IN NZS 3604:2011







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Grant Property Group Ltd Proposed Dwelling At: Lot 870 75 Whitehorn Drive, Lincoln **Bracing Plan** 

Jeremy Harrison LBP # 105491

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

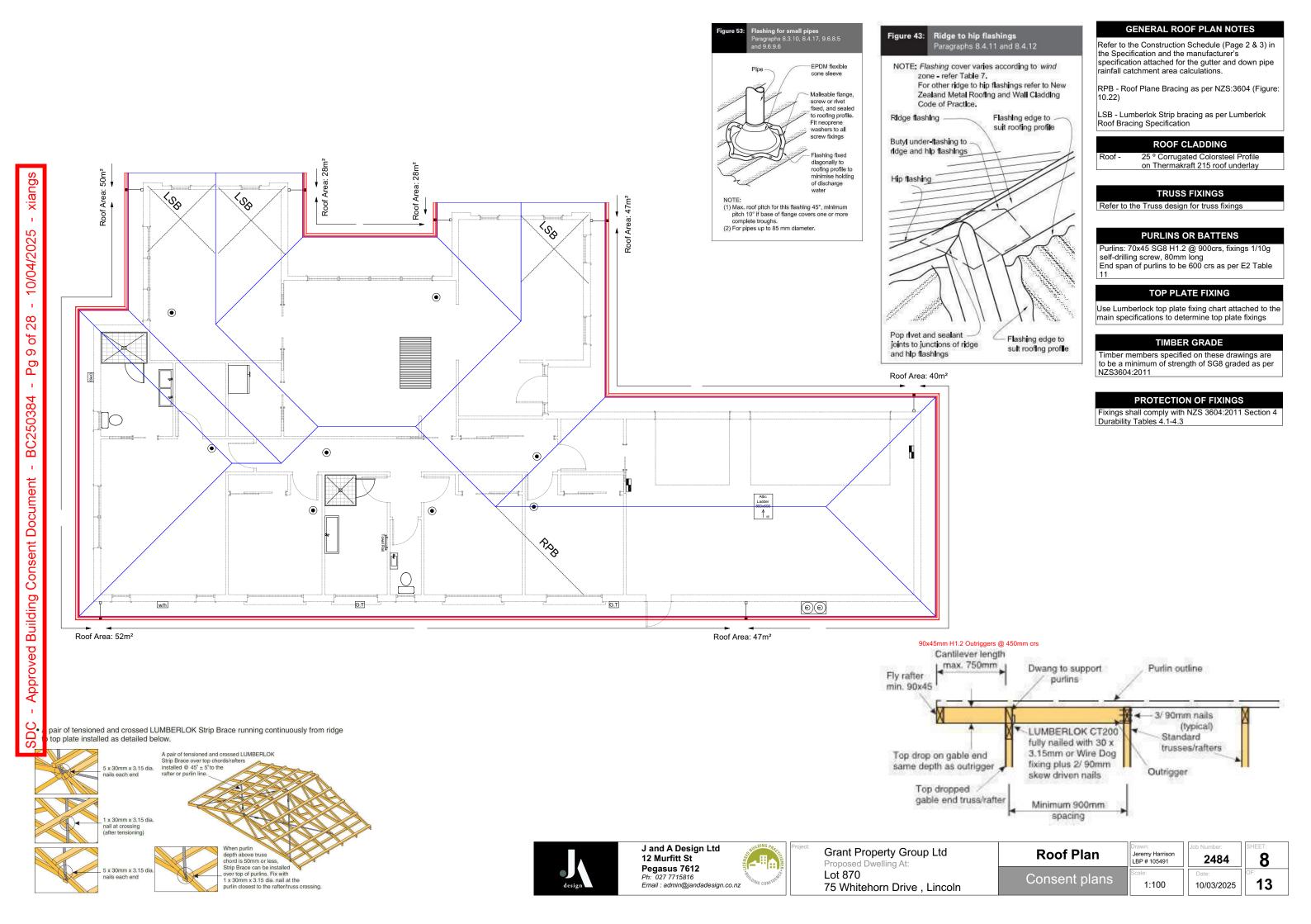
Ceiling joi

450 long blocking fixed to each plate with connection capacity in tables below. Fix blocking to top plate and to ceiling joist

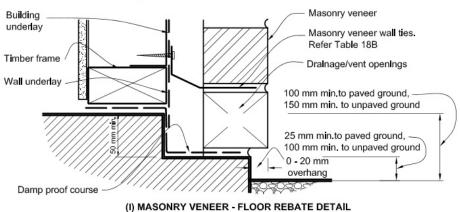
(B) BUTT JOINT (WITH CEILING JOIST)

Capacities of nailed joints Up to 3 kN 3 / 100 x 3.75 mm nails per side Up to 6 kN 6 / 100 x 3.75 mm nails per side

Email: admin@jandadesign.co.nz





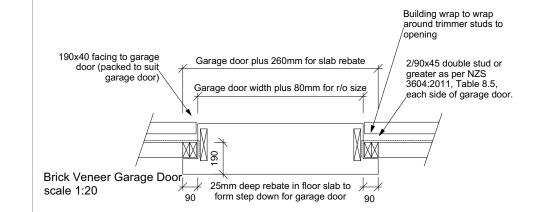


125mm x 12mm thru bolt with 50mm square washer at 900mm crs on all external walls (600mm crs when used on slab edges formed by masonry header blocks) and interior load bearing walls (Bolts also 150mm for each end of bottom plate) minimum cover 40mm. DPC between bottom plate & floor slab centres) Refer to specific

Building wrap staple fixed to studframe @ 300crs max, wrap to be fixed horizontally with upper sheets to lap over lower sheet, allow 75mm cover min. End laps to be over stud, allow 150mm min lap (Support building wrap with Polypropylene tape at 300 mm

Exterior stud framing to slab (Building Paper) Scale 1:20

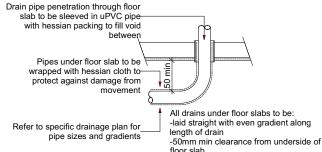
Building wrap continuous



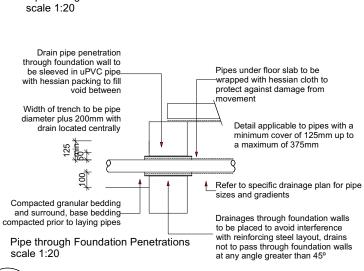
D01

D02

D03



Pipe through Floor Slab Penetrations

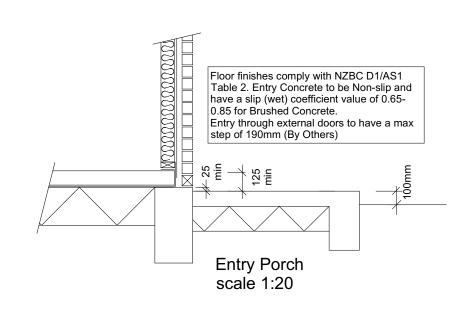


7-13mm mortar joint Recommend 10mm +/-2mm Rake joints max 6mm. Tool Joints smooth 5 screw fixed ties per sq.m 600mm horizontally, 400mm vertically, or within 400mm of the

#### **Brick Veneer External Corner Detail**

Building wrap continuous 7-13mm mortar joint Recommend 10mm +/-2mm Rake joints max 6mm, Tool Joints smooth 5 screw fixed ties per sa.m 600mm horizontally, 400mm vertically, or alternatives. First brick tie within 400mm of the foundation

scale 1:5 D05





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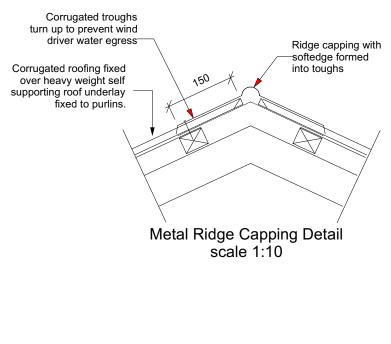
Consent plans

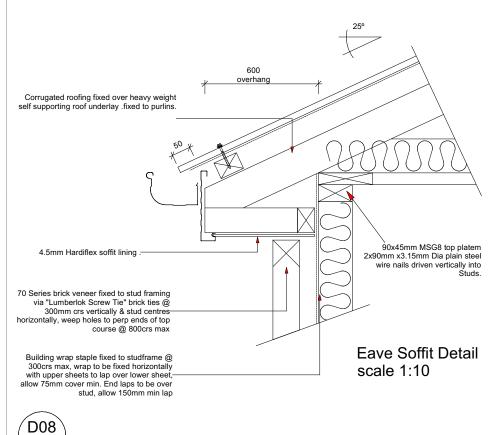


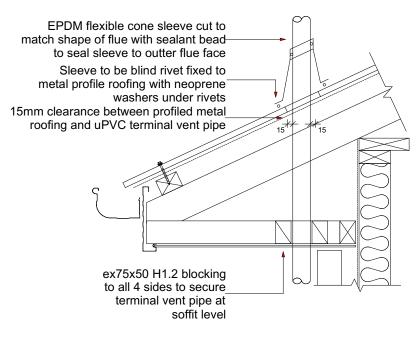
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Email: admin@jandadesign.co.nz

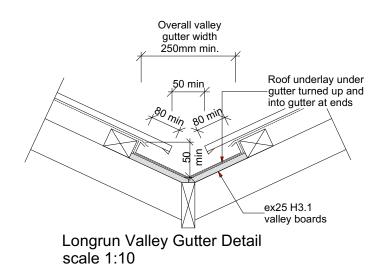




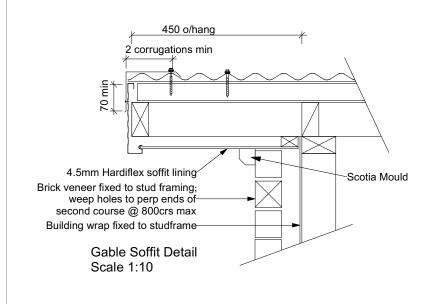


**Terminal Vent to Roofing Penetration Detail** "Section" scale 1:10

D09



D10











Building wrap to be wrapped

joinery and u/s soffit lining Low Expansion foam sealant & pef rod to form air seal

between reveal & lintel

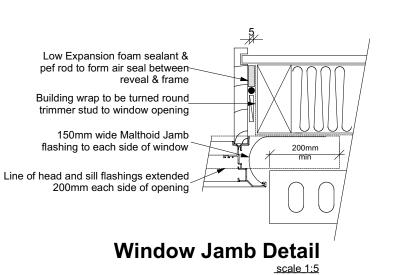
Sealant bead between aluminium

under lintel

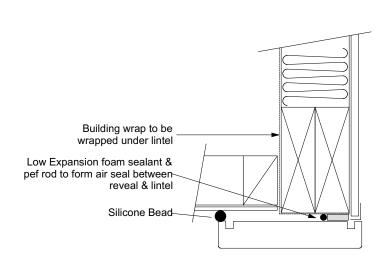
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D11`



Low Expansion foam sealant & pef rod to form air seal between reveal & frame Continuous Support bracket segments for windows over 1200mm wide. Sill flashing tape over building wrap to be continuous along entire sill\_ length and turned down 50mm min down exterior face of framing Building wrap to be turned up and over sill trimmer of window opening Mathoid Sill flashing with drip edge, extend 200mm each side of window Form drip edge with H3.2 timber kick-out fillet **Window Sill Detail** 

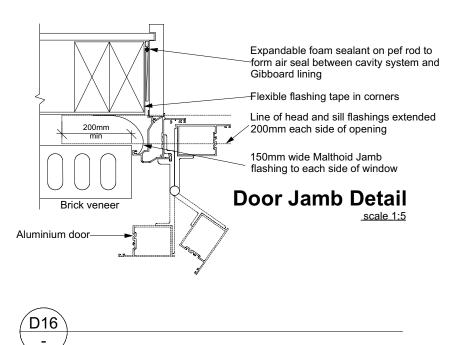


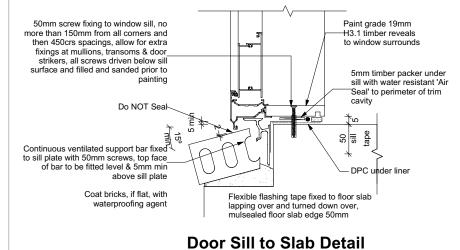
Garage Door Head to Soffit Detail

scale 1:5

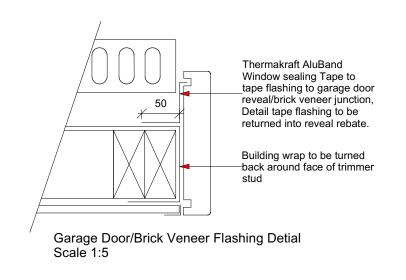
D13 -

D14





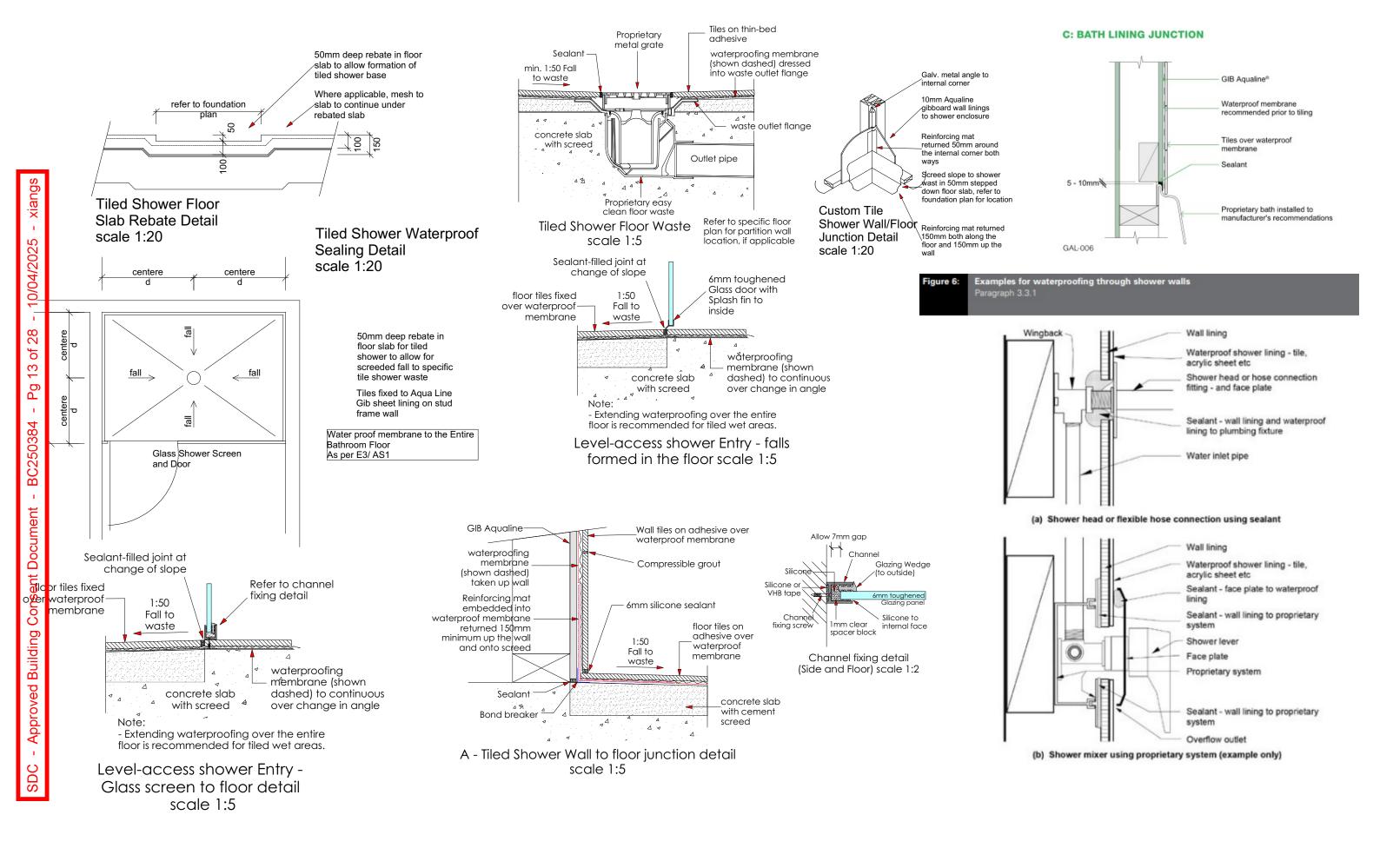
D17 -



<del>D</del>18

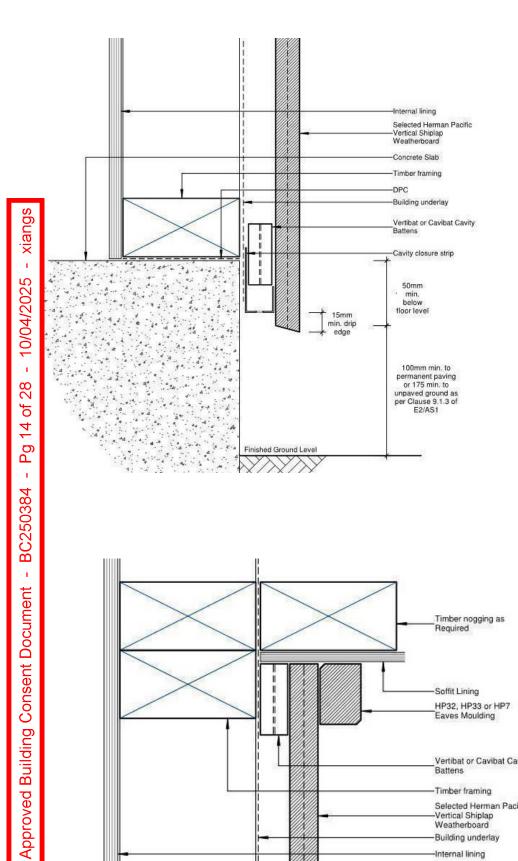


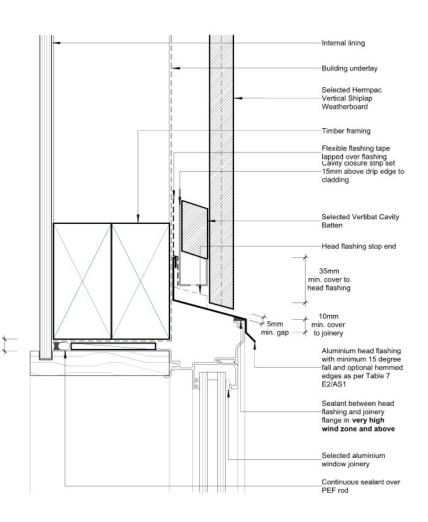


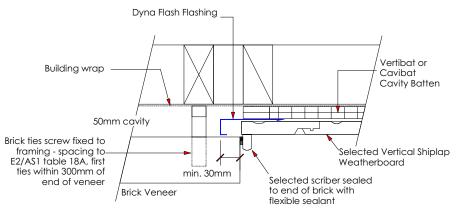




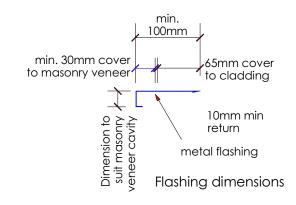
9/04/2025

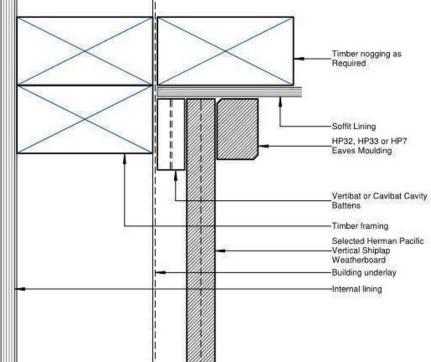


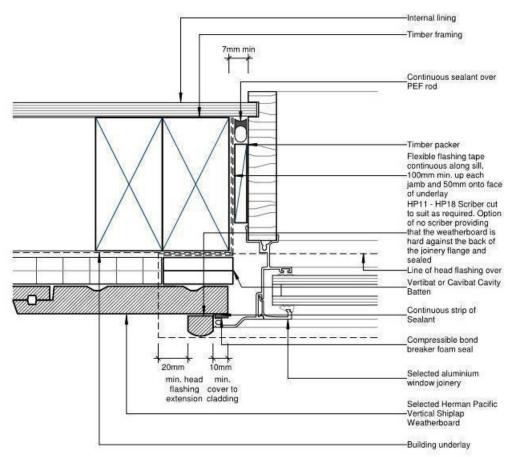




Weatherboard/Brick "vertical junction" detail below window Scale 1:5









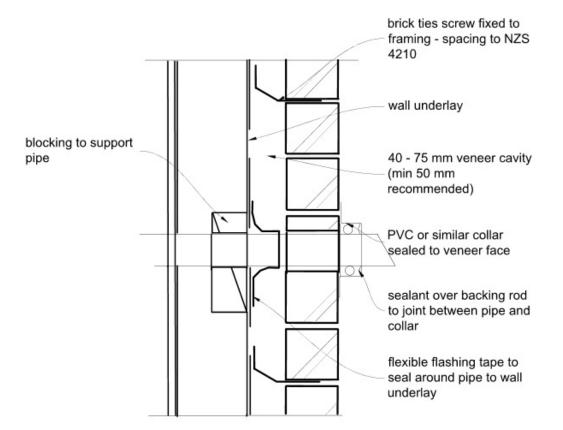
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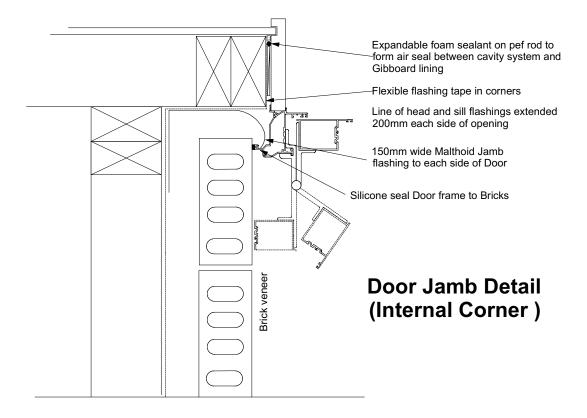
Grant Property Group Ltd Proposed Dwelling At: Lot 870 75 Whitehorn Drive, Lincoln

Jeremy Harrison LBP # 105491 Consent plans

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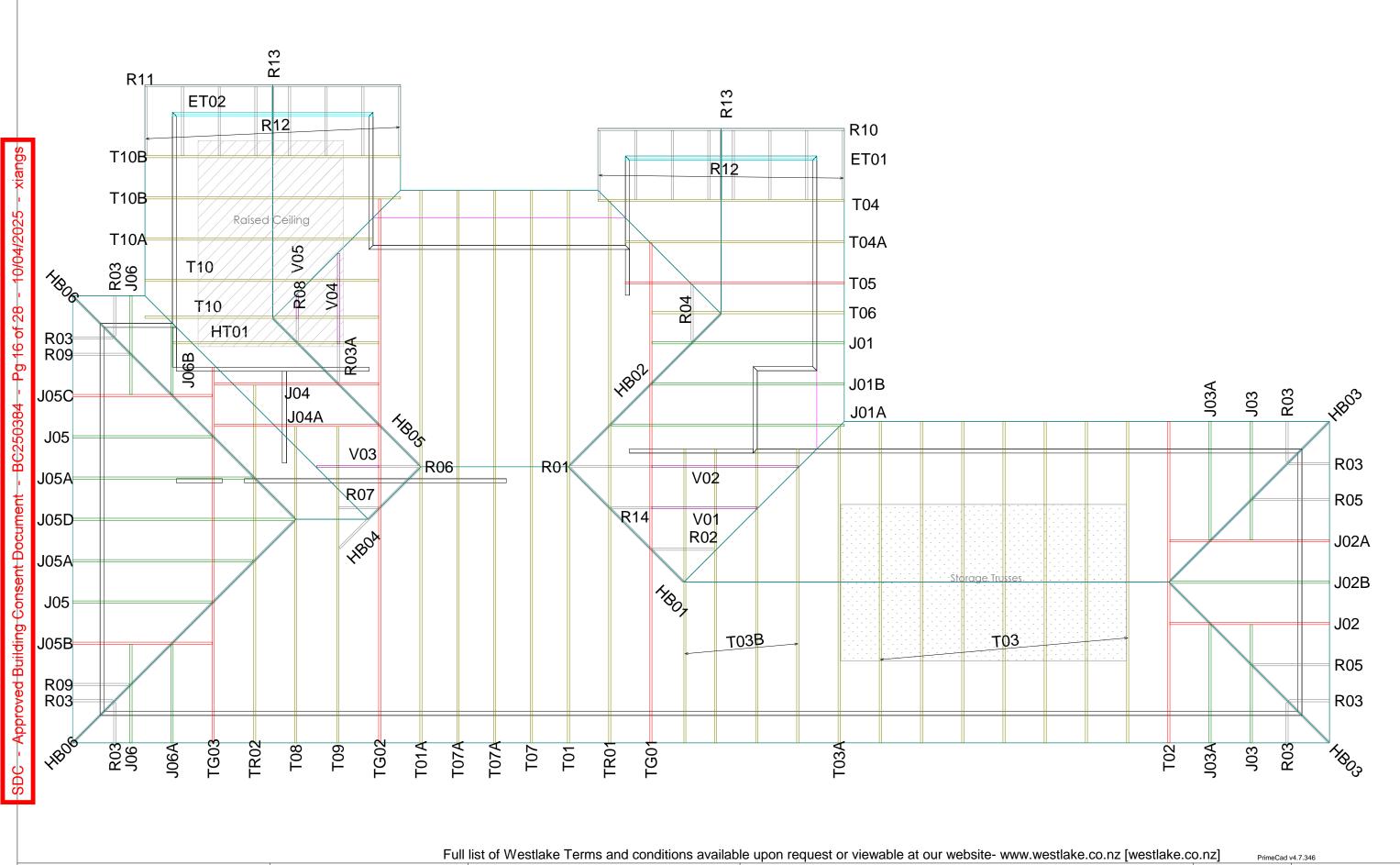
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Grant Property Group Ltd Proposed Dwelling At: Lot 870 75 Whitehorn Drive, Lincoln Consent plans

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14 13

9/04/2025



(03) 348 3401 sales@westlake.co.nz www.westlake.co.nz 17 Frank Coxon Road, Belfast,

**Grant Property Group Itd** Lot 870 75 Whitehorn Drive Lincoln

For Building Consent Buildable Truss Layout

: 25.00deg Roof Pitch : Galv Iron .5mm Roof Material Ceiling Material: Standard Plaster Board 13mmoor Live Load:

Truss Centres : 900mm Roof Live Load: 0.250kPa

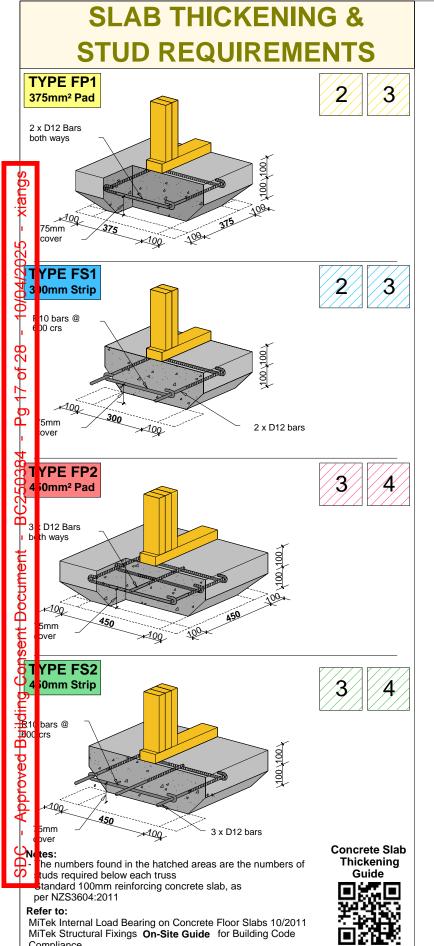
Overhang

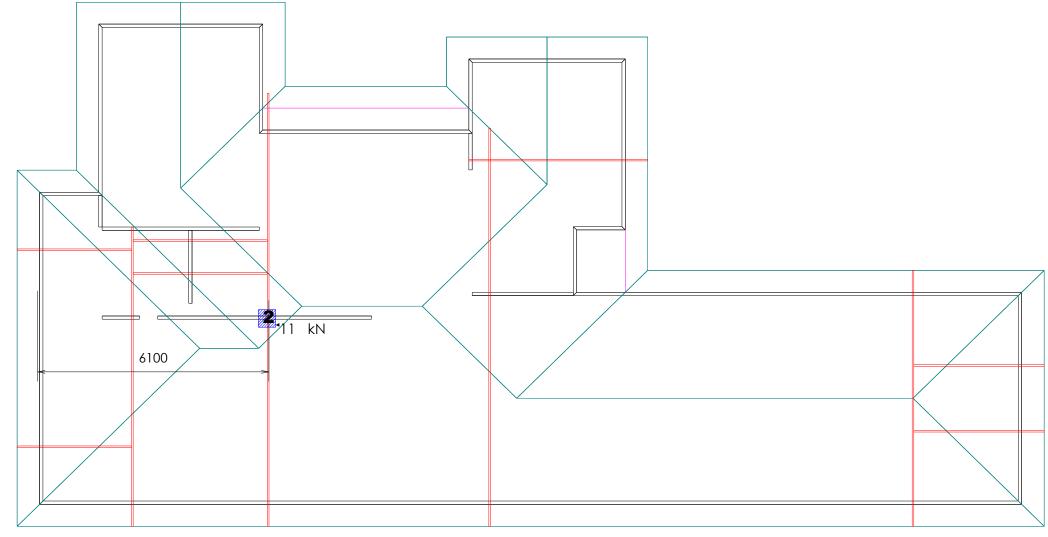
Wind Speed : 44m/s : 600mm

Job Title : 250085 Revision Number

: High Roof Snow Load: 0.441kPa

Wind Zone Date: 19 Feb,2025 Drawn: Michael Woodrow Scale : 1: 150 System : MiTek 20/20





Full list of Westlake Terms and conditions available upon request or viewable at our website- www.westlake.co.nz [westlake.co.nz]

FRAME

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17 Frank Coxon Road, Belfast,

**Grant Property Group Itd** Lot 870 75 Whitehorn Drive Lincoln

For Building Consent

Slab Thickening

Date: 19 Feb,2025 Drawn: Michael Woodrow System : MiTek 20/20

Roof Pitch : 25.00deg Roof Material : Galv Iron .5mm

Roof Snow Load: 0.441kPa

Roof Live Load: 0.250kPa Ceiling Material: Standard Plaster Board 13mmoor Live Load: Wind Zone : High

PrimeCad v4.7.346 Job Title : 250085 Revision Number

Wind Speed : 44m/s Overhang : 600mm

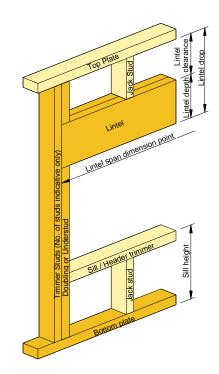
Truss Centres : 900mm

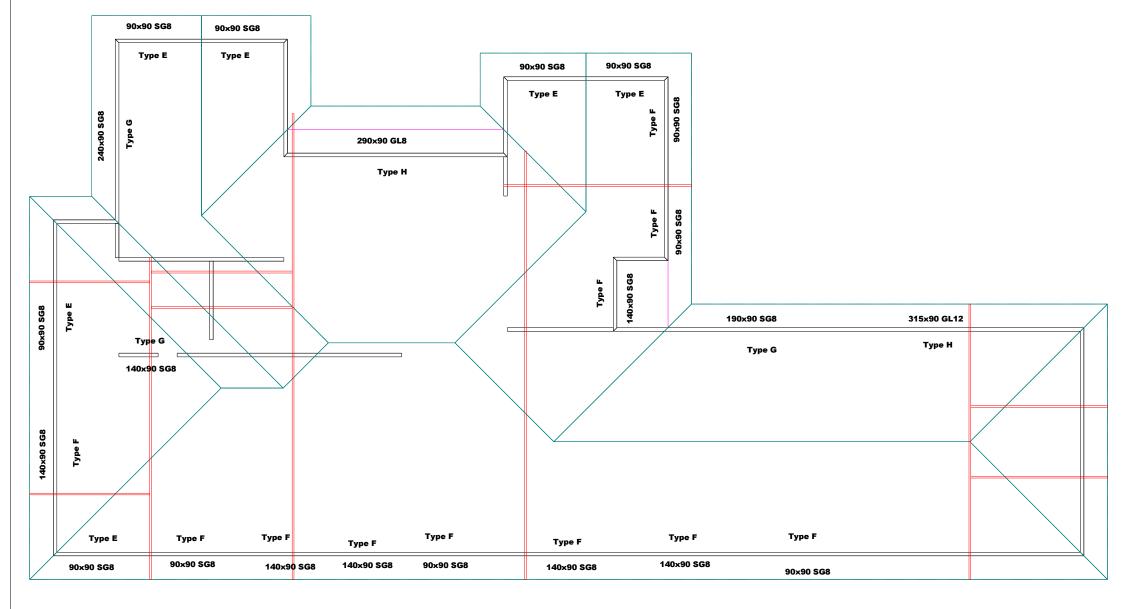
TYPE G 7.5 kN

- 10/04/2025

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TYPE H 13.5 kN





#### **Timber Lintels Designed Using Ganglam Chart 2008.**

Roof Snow Load: 0.441kPa

LUMBERLOK Lintel Fixing Schedule 10/2011
MiTek Structural Fixings **On-Site Guide** for Building Code Compliance
(Alternative to Table 8.14 & Figure 8.12 NZS 3604:2011)

FRAME

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17 Frank Coxon Road, Belfast,

**Grant Property Group Itd** Lot 870 75 Whitehorn Drive Lincoln

For Building Consent Lintel Fixing

System : MiTek 20/20

Roof Pitch Roof Material Wind Zone 19 Feb,2025 Drawn: Michael Woodrow

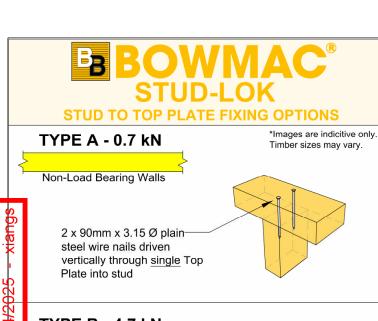
: 25.00deg : Galv Iron .5mm Ceiling Material: Standard Plaster Board 13mmoor Live Load: : High

Truss Centres : 900mm Roof Live Load: 0.250kPa Wind Speed : 44m/s

: 600mm

Overhang

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#### **TYPE B - 4.7 kN** Load Bearing Walls

#### STUD-LOK SL125 Yellow Head • 125mm long

1 x STUD-LOK SL125screwed vertically through single Top Plate into stud.

2 x 90mm x 3.15 Ø plainsteel wire nails driven vertically into stud.

Max.Top Plate Depth = 45mm

#### STUD-LOK SL170

 Blue Head • 170mm long

1 x STUD-LOK SL170screwed vertically through

single or double Top Plate into stud. Max.Top Plate

Depth = 90mm

2 x 90mm x 3.15 Ø plainsteel wire nails driven vertically into stud. OPTION 2

OPTION 1

**Grant Property Group Itd** Lot 870 75 Whitehorn Drive Lincoln

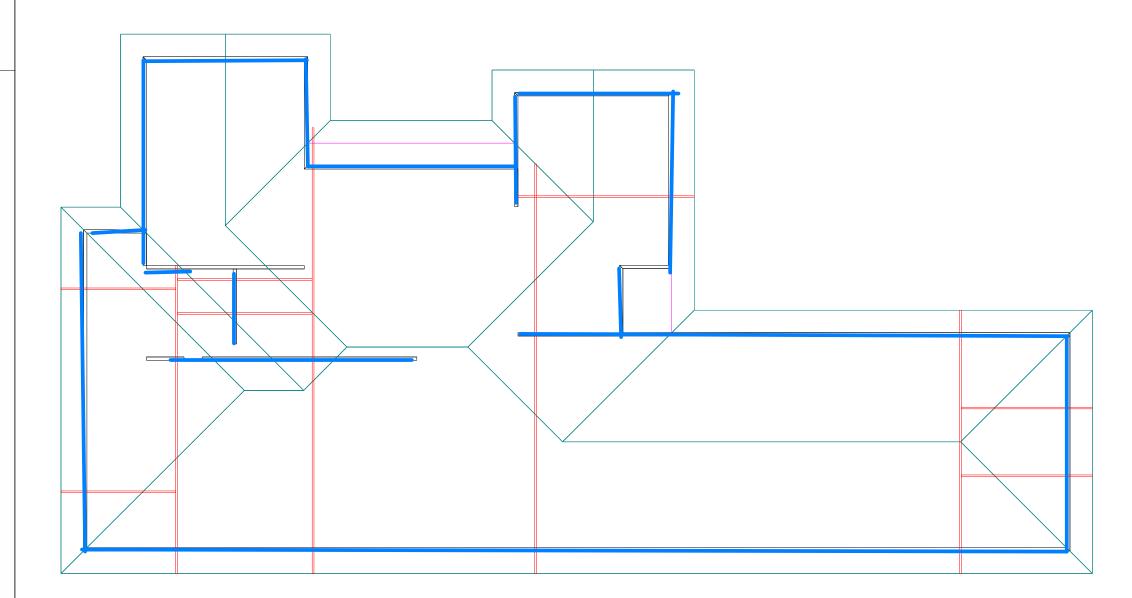
For Building Consent Stud To Top Plate Fixing

Date: 19 Feb,2025 Drawn: Michael Woodrow Scale : 1: 150 System : MiTek 20/20

Truss Centres : 900mm : 25.00deg Roof Pitch

Roof Material Ceiling Material: Standard Plaster Board 13mmoor Live Load:

: High Wind Speed : 44m/s Overhang Roof Snow Load: 0.441kPa : 600mm PrimeCad v4.7.346 Job Title : 250085 4 Revision Number



(Alternative to NZS 3604:2011 Section 8)

## FRAME

(03) 348 3401 sales@westlake.co.nz www.westlake.co.nz

17 Frank Coxon Road, Belfast,

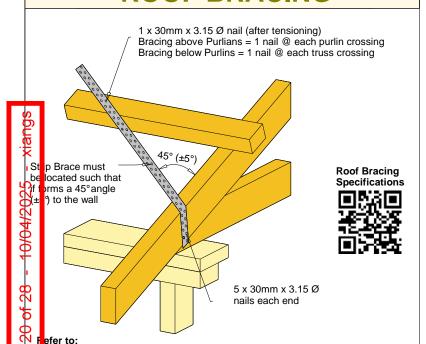
Full list of Westlake Terms and conditions available upon request or viewable at our website- www.westlake.co.nz [westlake.co.nz] Job Details:

Wind Zone

: Galv Iron .5mm

Roof Live Load: 0.250kPa

# **ROOF BRACING**



# TRUSS FIXINGS

IiTek Structural Fixings On-Site Guide for Building Code Compliance

Pair of Wire Dogs and 2 x 90mm 3.15mm skew nails

LUMBERLOK JH47x90 Joist Hanger

LUMBERLOK JH47x120 Joist Hanger

UMBERLOK Roof Bracing Specifications 10/2011

LUMBERLOK JH47x190 Joist Hanger

LUMBERLOK JH95x165 Joist Hanger

LUMBERLOK CT200 Ceiling Tie

Pair of LUMBERLOK CT200 Ceiling Ties

H LUMBERLOK CT400 Cyclone Tie

LUMBERLOK CT600 Cy LUMBERLOK Multi Grip LUMBERLOK CT600 Cyclone Tie

As per NZS 3604:2011)

Pair of LUMBERLOK Multi Grips

- LUMBERLOK Nailon Plate

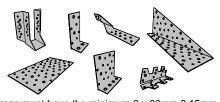
LUMBERLOK N21 Diagonal Cleat

LUMBERLOK CPC40 Cleat

- Pair of LUMBERLOK CPC40 Cleats

LUMBERLOK TTP 16kN Truss to Top Plate set

LUMBERLOK TTP 9kN Truss to Top Plate set



Joist Hanger



CT200 Truss to Top Plate Fixing



16kN & 9kN Truss to Top Plate Fixing



All other areas must have the minimum 2 x 90mm 3.15mm skew nails and 2 x wire dogs for truss to top plate connections

LUMBERLOK Timber Connectors Characteristic Loadings Data Brochure

FRAME

(03) 348 3401 sales@westlake.co.nz

17 Frank Coxon Road, Belfast,

**Grant Property Group Itd** Lot 870 75 Whitehorn Drive Lincoln

For Building Consent Truss Fixings & Roof Bracing Ceiling Material : Standard Plaster Board 13miffloor Live Load :

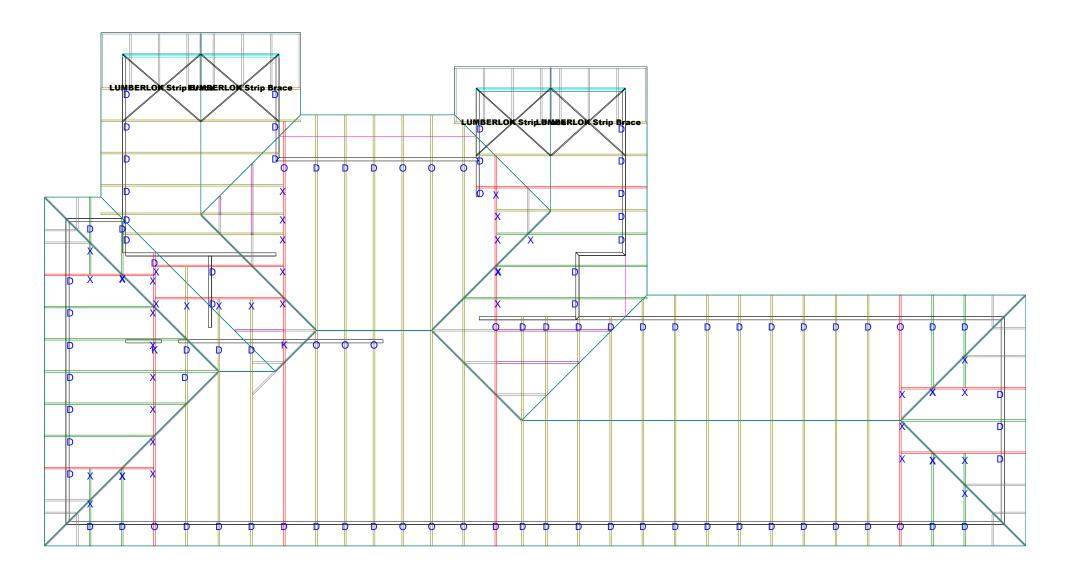
19 Feb.2025 Drawn : Michael Woodrow Scale: 1: 150 System : MiTek 20/20

Job Details: Truss Centres : 900mm

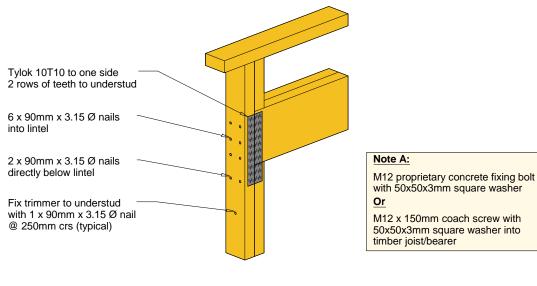
Roof Pitch : 25.00deg Roof Live Load: 0.250kPa Roof Material : Galv Iron .5mm

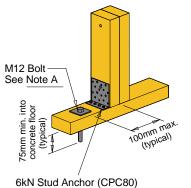
Wind Zone : High Wind Speed : 44m/s Roof Snow Load: 0.441kPa Overhang : 600mm

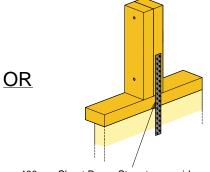




Full list of Westlake Terms and conditions available upon request or viewable at our website- www.westlake.co.nz [westlake.co.nz]

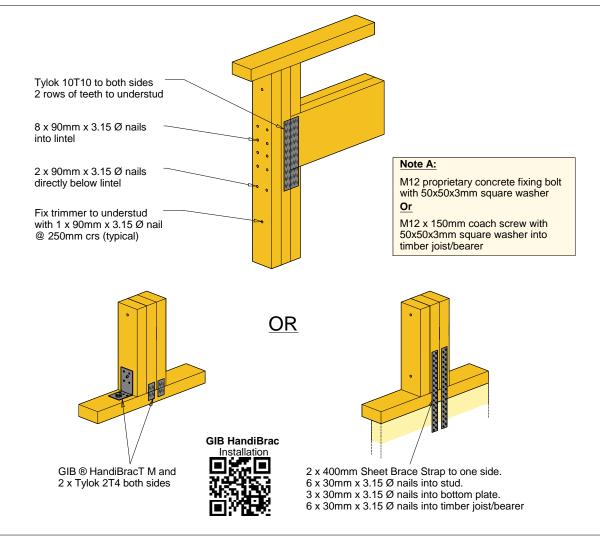






400mm Sheet Brace Strap to one side. 6 x 30mm x 3.15 Ø nails into stud. 3 x 30mm x 3.15 Ø nails into bottom plate. 6 x 30mm x 3.15 Ø nails into timber joist/bearer

#### TYPE H 13.5 kN



# **Grant Property Group Limited NEW HOUSE**

Lot 870, 75 Whitehorn Drive, Lincoln File Number 25000.008



#### TC2 RIBRAFT DRAWINGS

#### Issue Register

Rev	Date	Description
_	05.03.2025	Consent Issu

#### **Sheet List**

Sheet No.	Rev	Date Issued	Sheet Title
S1	-	05.03.2025	General Notes
S2	-	05.03.2025	RibRaft Layout Foundation Plan
S3	-	05.03.2025	Typical Foundation Sections
S4	-	05.03.2025	Typical Foundation Sections
<b>S</b> 5	-	05.03.2025	Typical Foundation Sections
S6	-	05.03.2025	Typical Services Penetration Details

All reinforcing shall be New Zealand sourced and conform to AS/NZS 4671 :2001

• Grade 500E deformed bars shall be designated 'H', Grade 300E deformed bars

shall be designated 'D' and Grade 300E round bars shall be designated 'R'.

900mm

H12 bars H16 bars

• All reinforcement to be fixed & tied where necessary in its specified position

Refer:

Ref. No: 25000.008 Dated: 30 January 2025

Bearing: 200kPa

- 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**

**GEOTECHNICAL REFERENCE:** 

**ENGCO Consulting Engineers** 

75 Whitehorn Drive, Rosemerryn, Lincoln

Geotechnical Report

- 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.

#### 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

100mm Floor Slab - 220mm pods (25MPa 5TC2 Dramix 4D 80/60 Fibre Mix) G500E SE62 Ductile mesh on 50mm 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.

#### **INSPECTIONS**

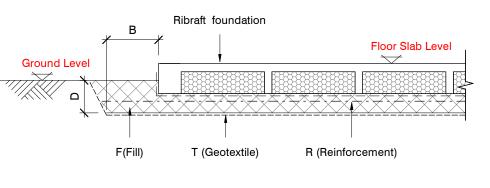
Inform ENGCO Consulting 48 hours in advance of any inspections required for code compliance certification. Contact ENGCO - Ph. 03 366 7955 & quote ENGCO Ref. No.

#### **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**

	BUILDING PLATFORM TABLE:
В	500mm
D	400mm below ground level (approximately). Remove organic topsoil.
Т	N/A
R	N/A
F	AP40 or AP65 - 95% Dry Density. Compact in 150mm layers max.

Refer Architectural drawings for Finished Floor Level

#### min. lap min. lap Provide (2) lapping bars Top Return all bars & Btm to beam corners. 300mm from loadbearing rib Intermediate bar (if present) can terminate straight Intermediate bar At beam intersections (if present) extend bottom reinforcing can terminate straight to far side of intersected beam Return all bars min. lap Return all bars 300mm 300mm from from load bearing rib loadbearing rib Extend top & bottom reinforcing from adjacent intersecting perimeter foundation beams into internal rib. Ensure NO bar laps or bends at At beam intersections, the intersection extend reinforcing to far side of intersected beam Typical Corner Steel & Min. Lapping Requirements N.T.S.

REINFORCEMENT

Minimum bar lap.

Spacers:

lenath).

in grade 300E or grade 500E.

· Welding of steel is not permitted.

requirements exceeding 10%.

- Internal one on each side of pod (typically).

· All bends to be made cold without fracture.

· All reinforcing shall be deformed type unless otherwise stated.

720mm

- Edge at 1200mm ctrs (one on edge & two on corners, typically).

· All mesh shall comply with AS/NZS 4671 & shall conform with elongation

• All mesh shall lap a minimum of 250mm (end extensions not included in lap

**NEW HOUSE** 



Lot 870, 75 Whitehorn Drive, Lincoln





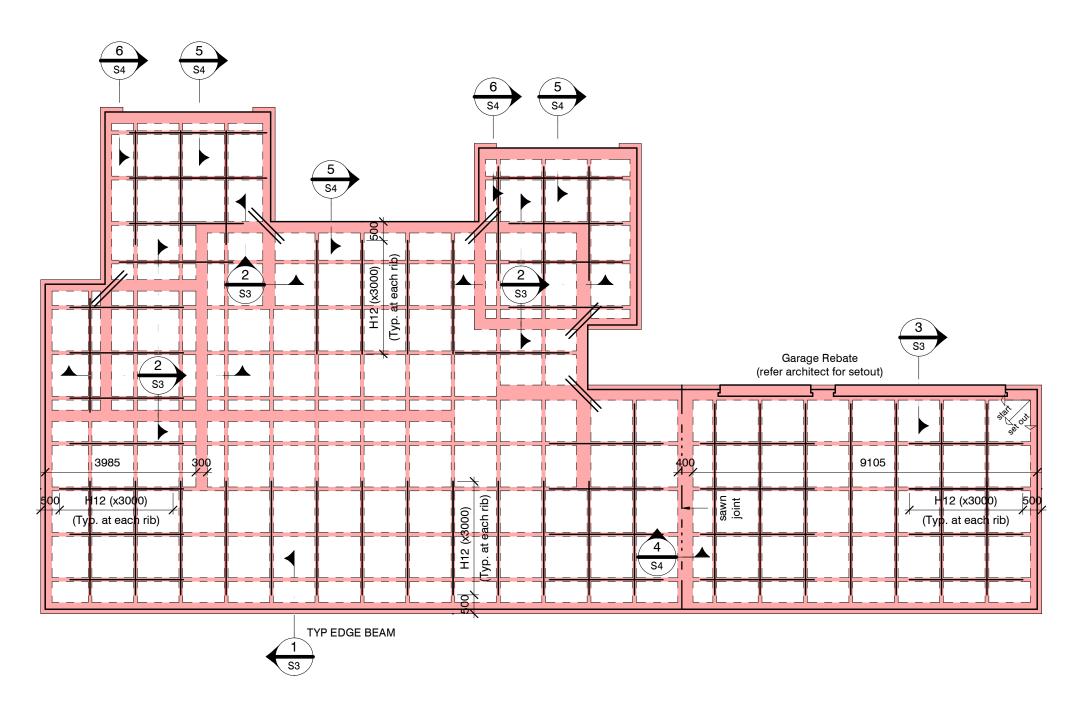
05.03.2025 Consent Issue



#### SLAB PLAN SETOUT:

Slab drawn to Architectural framing and DOES NOT ACCOUNT FOR ANY OVERHANG.

Use Architectural drawings for any framing overhang information which may affect slab dimensions.



#### RIBRAFT FOUNDATION LAYOUT PLAN

Refer Architects drawings for slab dimensions

contractor shall verify all dimensions before commencing work

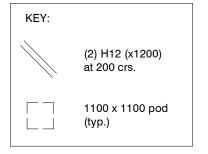
#### **GENERAL NOTES:**

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.

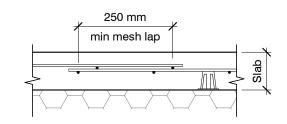
Refer to Architects drawings for floor slab, set downs, steps, rebates, holding down bolts, cast-in componentry and the like.



100mm Floor Slab - 220mm pods (25MPa 5TC2 Dramix 4D 80/60 Fibre Mix) G500E SE62 Ductile mesh on 50mm chairs

The design Fibre mix shall be supplied so that the residual flexural tensile stresses  $f_{R,1}\ \&\ f_{R4,K}$ shall be 1.5 MPa & 1.0 MPa respectively.

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







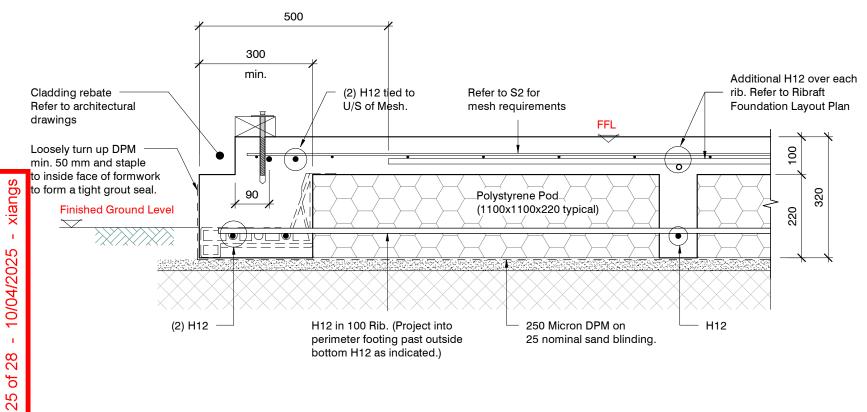
#### **NEW HOUSE**

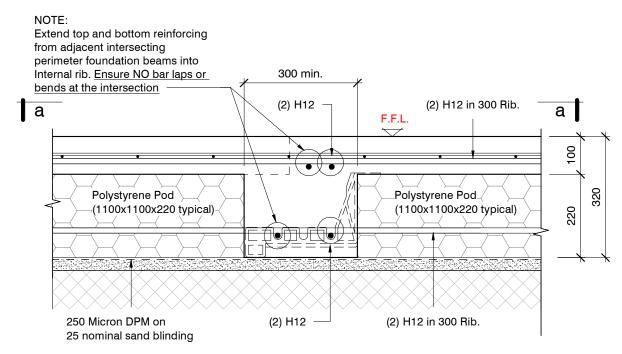
Lot 870, 75 Whitehorn Drive, Lincoln

RibRaft Layout Foundation Plan

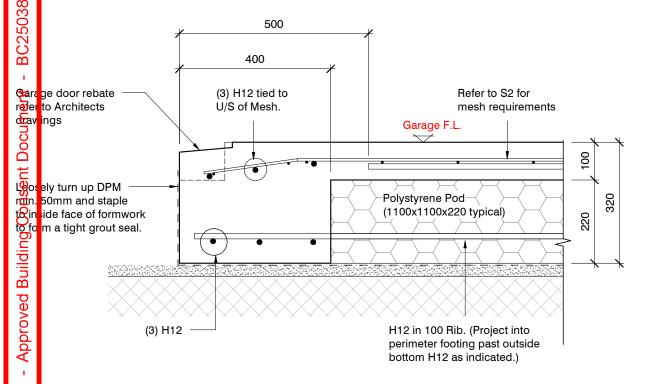
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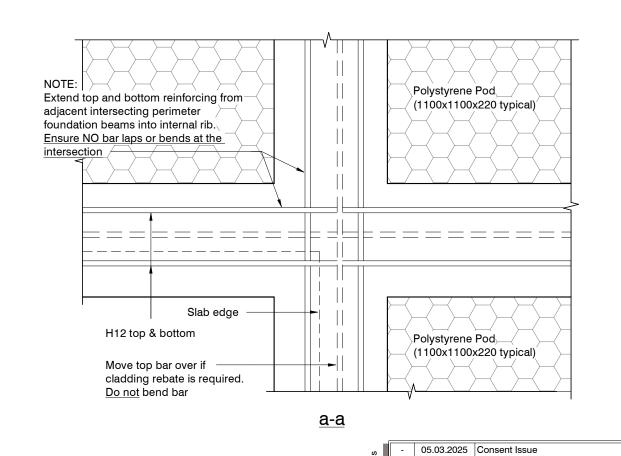


## SECTION 1 TYPICAL REBATED 300 WIDE EDGE BEAM 1:10





#### TYPICAL 300 WIDE CORNER BEAM



SECTION 3 GARAGE DOOR REBATE
1:10 S2 1:10

#### **NEW HOUSE**

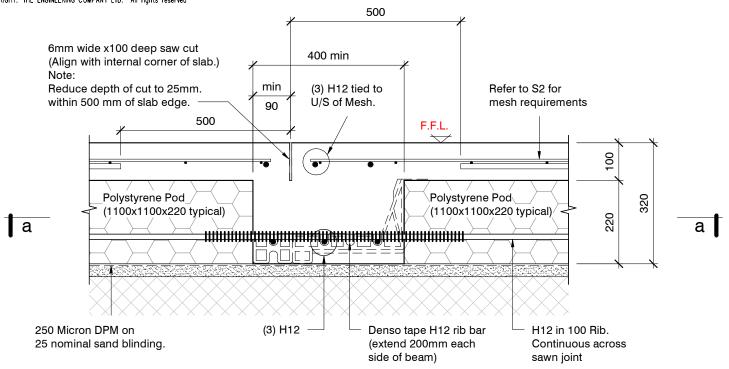
Lot 870, 75 Whitehorn Drive, Lincoln

Typical Foundation Sections

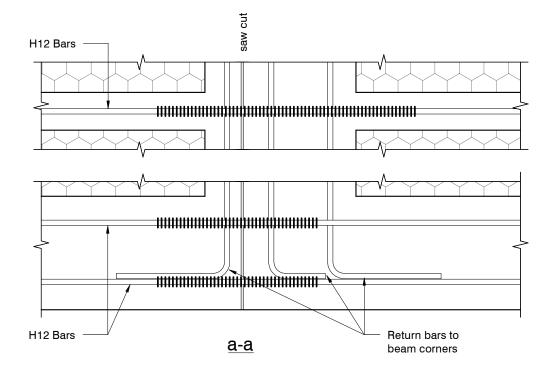
design T. Scott
drawn C. de Mesa
appvd M. Cusiel
date March 2025

file 25000.008
dwg rev.
S3 -



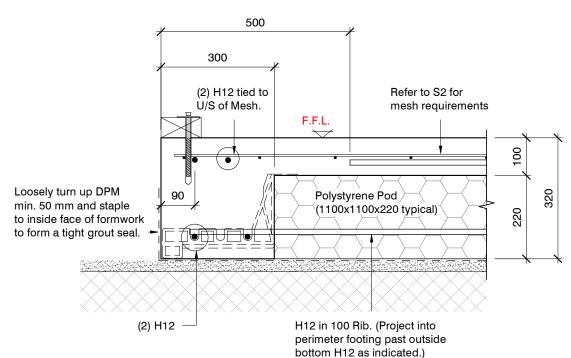


## TIED SAWN JOINT (aligned with internal corners)

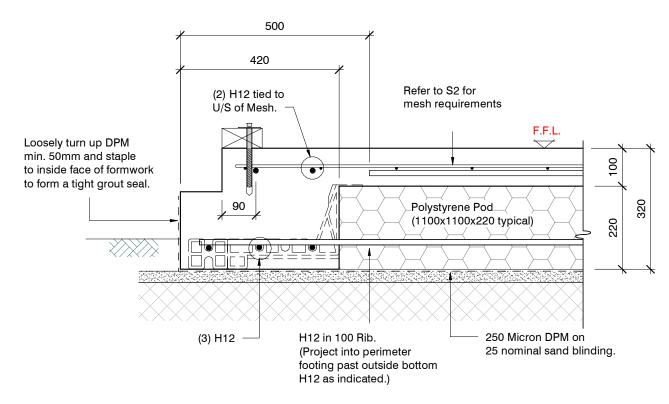


03 366 7955

office@engco.nz



## TYPICAL 300 WIDE EDGE BEAM



#### TYPICAL 420 WIDE REBATED EDGE BEAM S2

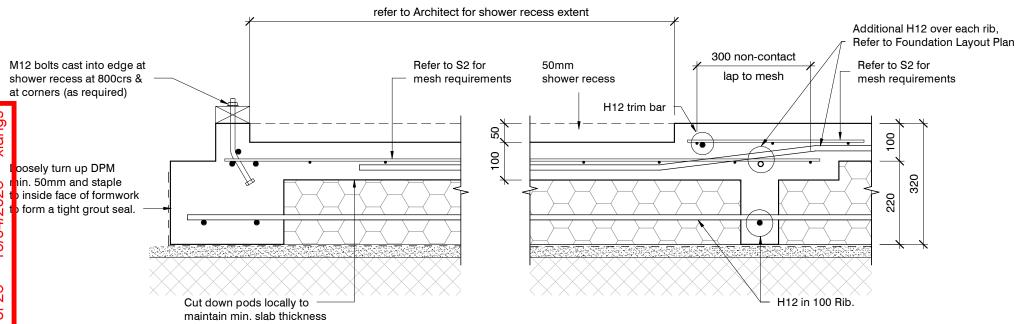
**Typical Foundation Sections** 

05.03.2025 Consent Issue 25000.008 design T. Scott C. de Mesa M. Cusiel **S4** 

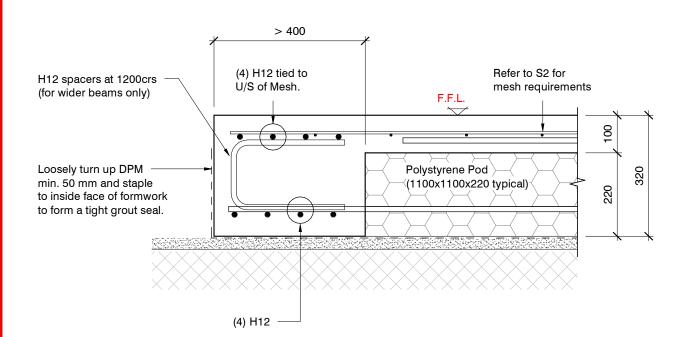
March 2025

## **NEW HOUSE**

Lot 870, 75 Whitehorn Drive, Lincoln



#### TYPICAL SHOWER RECESS (if needed)



EDGE BEAM > 400mm IN WIDTH (if needed)

> 400 Refer to S2 for H12 spacers at 1200crs mesh requirements (4) H12 (for wider beams only) 100 Polystyrene Pod Polystyrene Pod (1100x1100x220 typical) (1100x1100x220 typical) 250 Micron DPM on H12 in 100 Rib. 25 nominal sand blinding. (4) H12 -

INTERNAL BEAM > 400mm IN WIDTH (if needed)

**Sections** 

**Typical Foundation** 

**NEW HOUSE** 

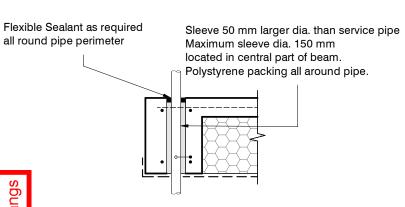
Lot 870, 75 Whitehorn Drive, Lincoln

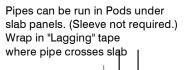
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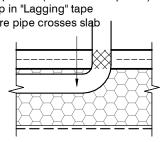
CHRISTCHURCH | NELSON | QUEENSTOWN

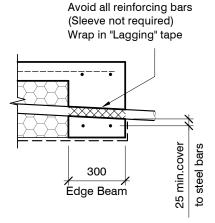
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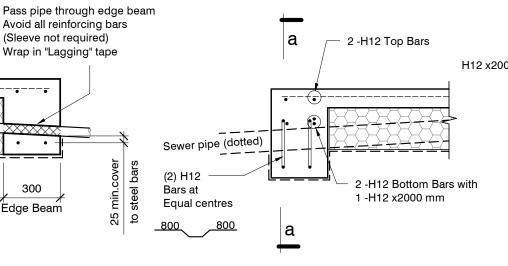
05.03.2025 Consent Issue

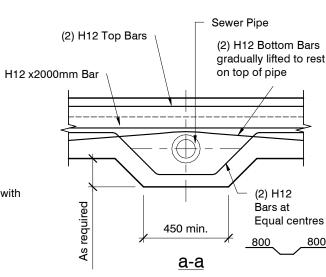












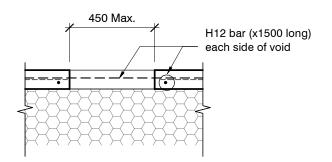
#### SLAB SERVICES PENETRATION DETAIL

#### 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:

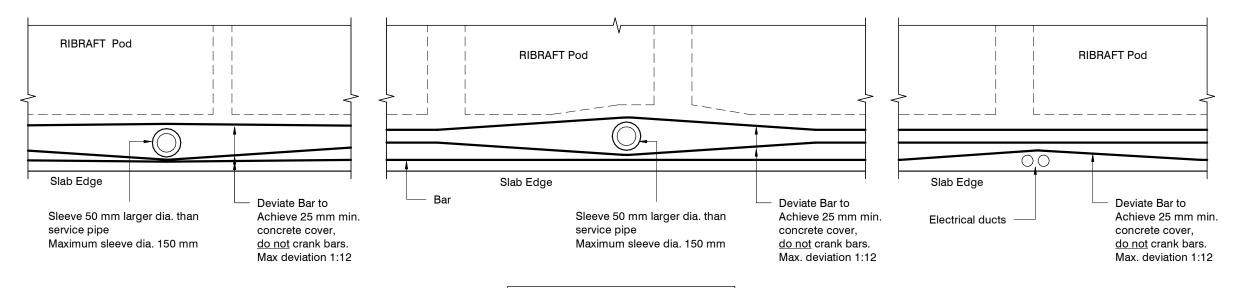
Where penetrations through Floor Slab exceed 450 mm Square, Crack Control Bars will be required.



#### TYPICAL SECTION

LOCALISED DEEPENING OF FOUNDATION BEAM TO ACCOMMODATE TOILET WASTE PIPE

#### LARGE SLAB PENETRATION DETAIL



Do not cut longitudinal reinforcement bars.

#### FOUNDATION SERVICES PENETRATION DETAILING.

Services shall not run along ribs or edge beams.

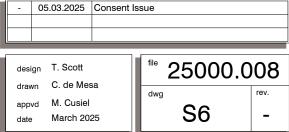




#### **NEW HOUSE**

Lot 870, 75 Whitehorn Drive, Lincoln

**Typical Services Penetration Details** 



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