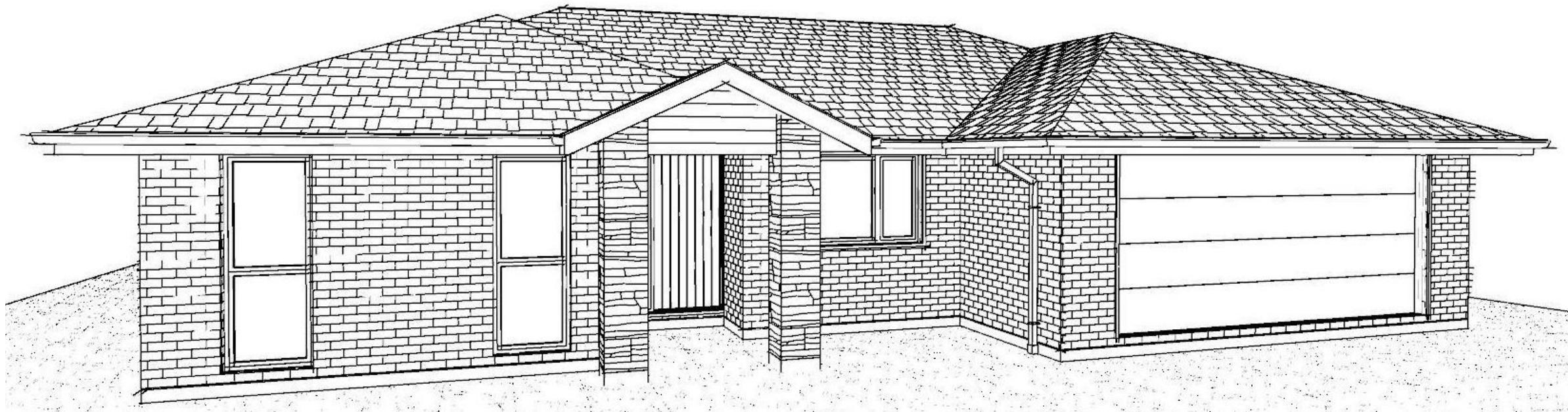


07/07/2022

Maher, Kevin

Contents:



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



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PO BOX 11 351
Christchurch 84443

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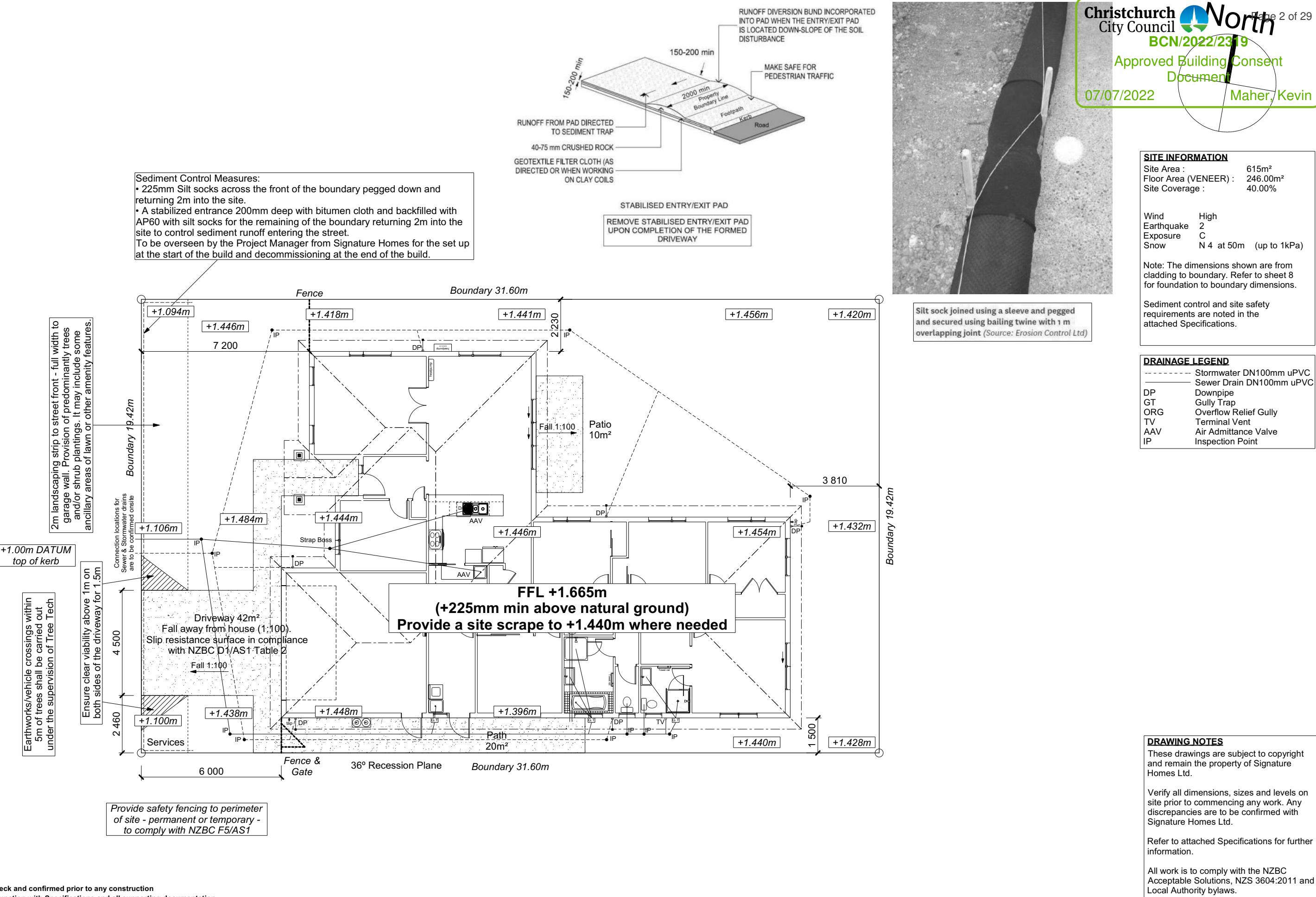
Deepu Sudha & Jisha Sheela
Lot 171
Belfast Development
Belfast, Christchurch

Job Number:
139466

Original Plan

Sheet Name:
COVER PAGE

MEADOW VIEW DRIVE



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Lot 171
Belfast Development
Belfast, Christchurch

Job Number:
139466

Original Plan:
Harrier

Sheet Name:

SITE PLAN



DRAWING NOTES

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Refer to attached Specifications for further information.

Approved Building Consent Document

07/07/2022

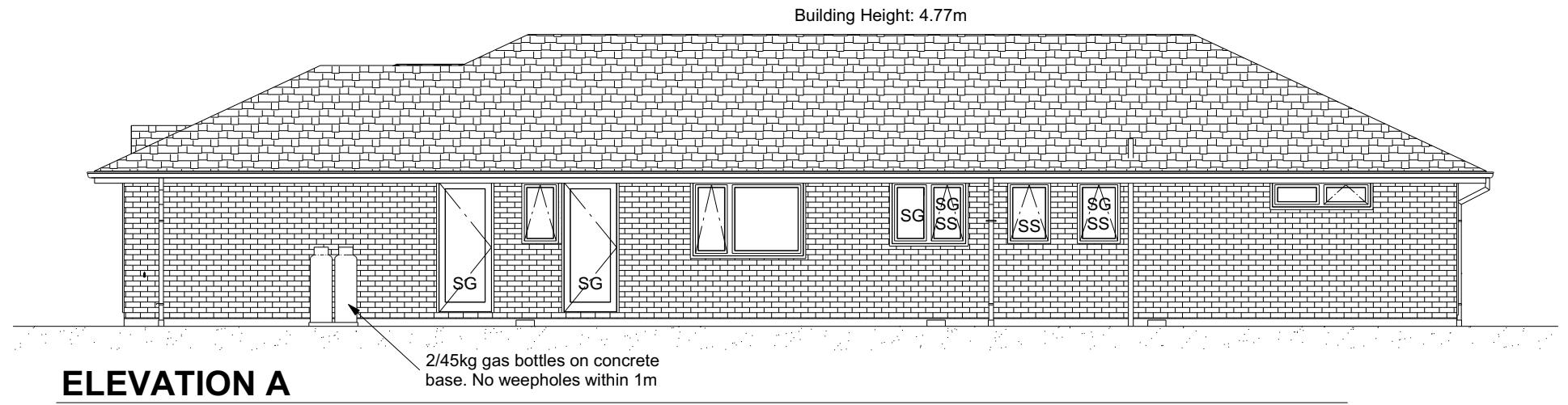
Maher, Kevin

ELEVATION NOTES

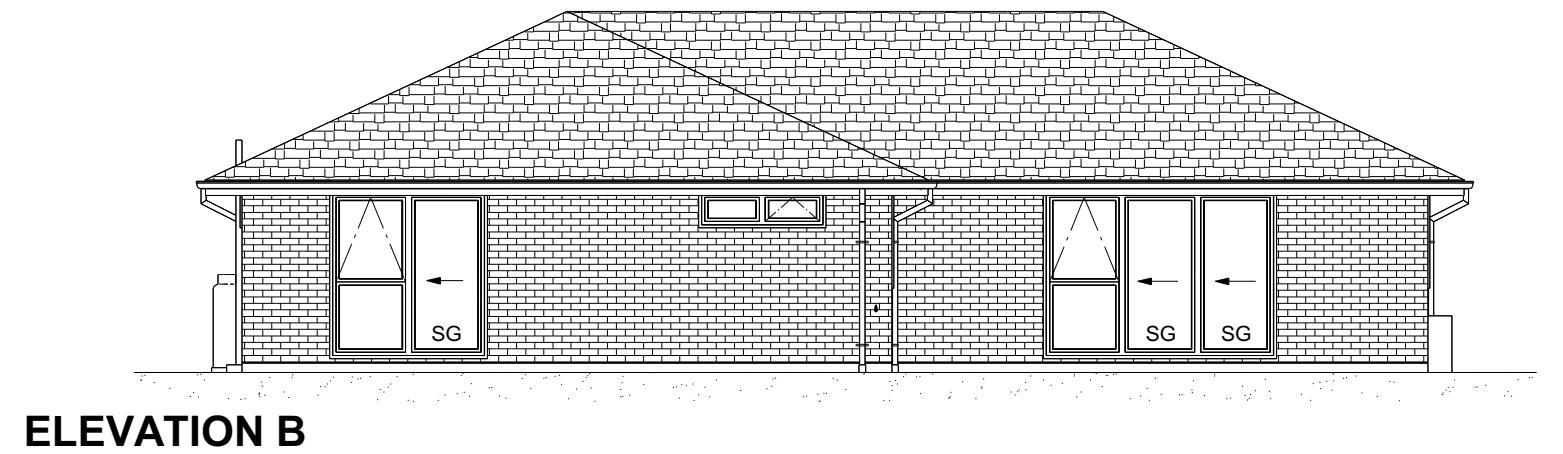
Gutter : Coloured Steel Quad Gutter
Fascia : Coloured Steel 185 Fascia
Downpipes : Colorsteel Rectangular 75x55mm
Soffits : Hardiflex 4.5mm
Joinery : Double glazed aluminum

All egress points to have a maximum step down of 190mm.
Access routes to have slip resistance surface in compliance with NZBC D1/AS1 Table 2 and to have a 1:100 fall away from the building

BUILDING ENVELOPE RISK MATRIX		
ELEVATION A		
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



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



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Deepu Sudha & Jisha Sheela
Lot 171
Belfast Development
Belfast, Christchurch

Job Number:
139466

Original Plan:
Harrier

Sheet Name:
ELEVATIONS

Sales: L Caldwell Drawn: M Glynn QS: S Liu Print Date: 16/11/2021 Scale: 1:100 @ A3

CONSENT PLANS

No.	Date:	Reason:
1	16-11-2021	Initial Consent Plans

Sheet No.:
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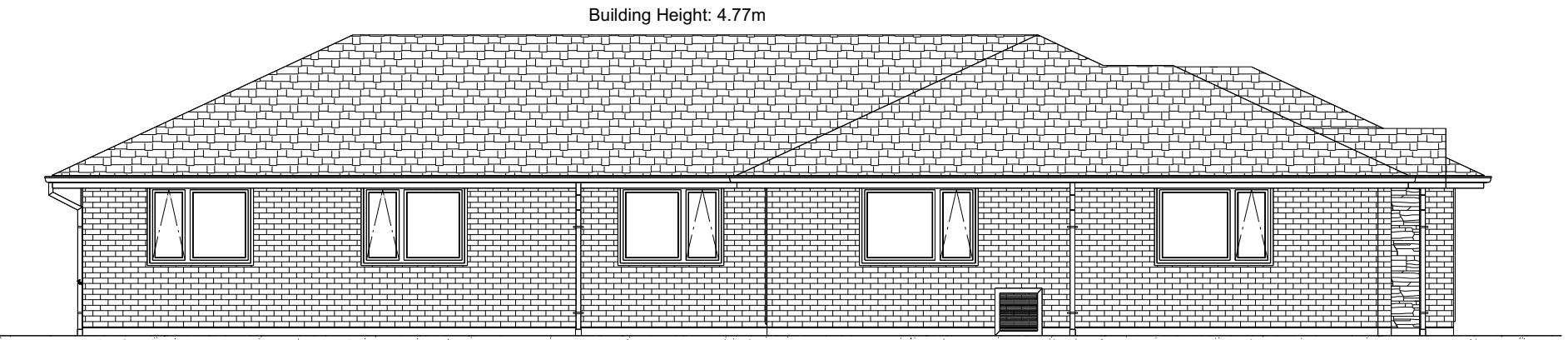
of 23 sheets

Christchurch City Council		ROOF & WALL CLADDINGS Roof : 30° Profiled Metal Tiles Walls : 70mm Brick Veneer With 50mm cavity Weatherboards With a 20mm cavity
		BCN2022/319
		Approved Building Consent Document
		07/07/2022 Maher, Kevin

ELEVATION NOTES
Gutter : Coloured Steel Quad Gutter
Fascia : Coloured Steel 185 Fascia
Downpipes : Colorsteel Rectangular 75x55mm
Soffits : Hardiflex 4.5mm
Joinery : Double glazed aluminum

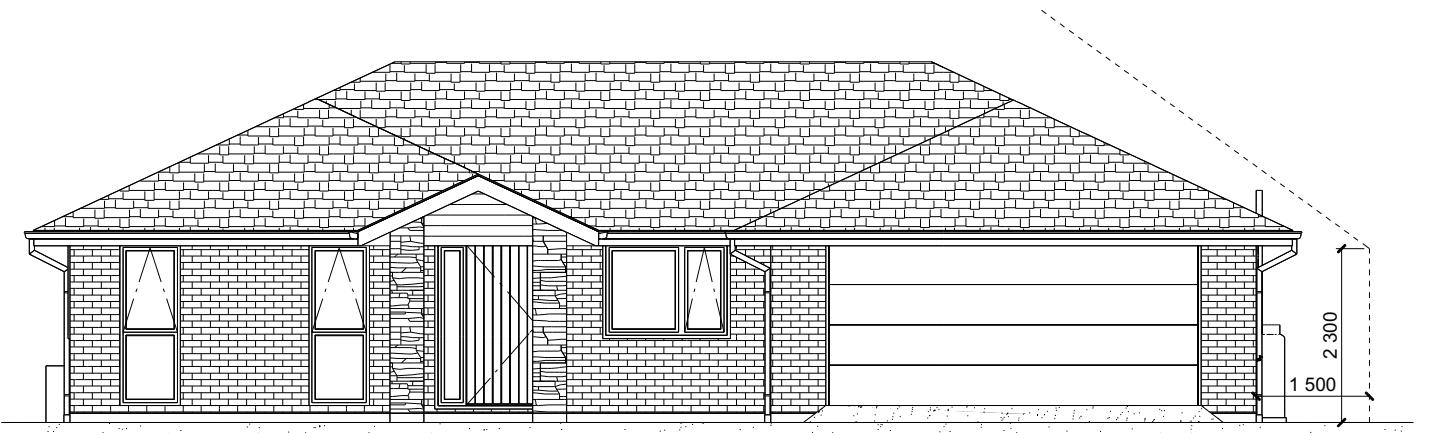
All egress points to have a maximum step down of 190mm.
Access routes to have slip resistance surface in compliance with NZBC D1/AS1 Table 2 and to have a 1:100 fall away from the building

BUILDING ENVELOPE RISK MATRIX		
ELEVATION C		
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 C

BUILDING ENVELOPE RISK MATRIX		
ELEVATION D		
RISK CRITERIA	RISK	SCORE
Wind Zone	High	1
Number of Stories	Low	0
Roof Wall Junction	Low	0
Eaves Width	Medium	1
Building Envelope	Medium	1
Decks & Balconies	Low	0
Total		3



ELEVATION D

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Lot 171
Belfast Development
Belfast, Christchurch

Job Number:
139466

Original Plan:
Harrier

Sheet Name:
ELEVATIONS

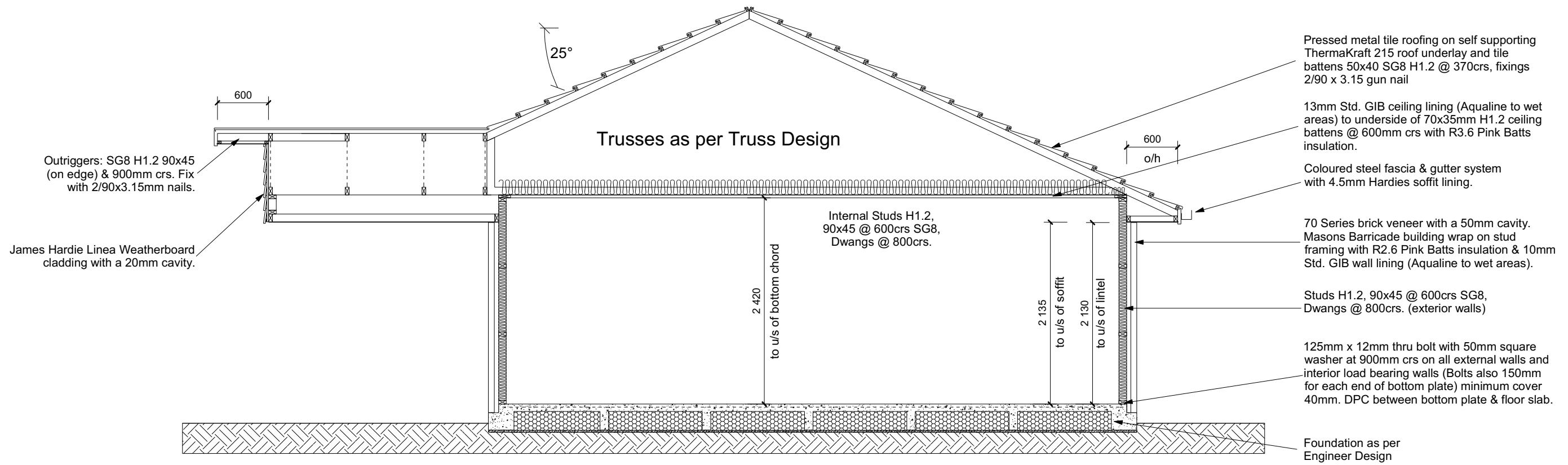
Sales: L Caldwell Drawn: M Glynn QS: S Liu Print Date: 16/11/2021 Scale: 1:100 @ A3

CONSENT PLANS

No.	Date:	Reason:
1	16-11-2021	Initial Consent Plans

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Job Number:	Original Plan:	Sheet Name:
139466	<i>Harrier</i>	CROSS SECTIONS
S:	Drawn:	QS:
aldwell	M Glynn	S Liu

DRAWING NOTES

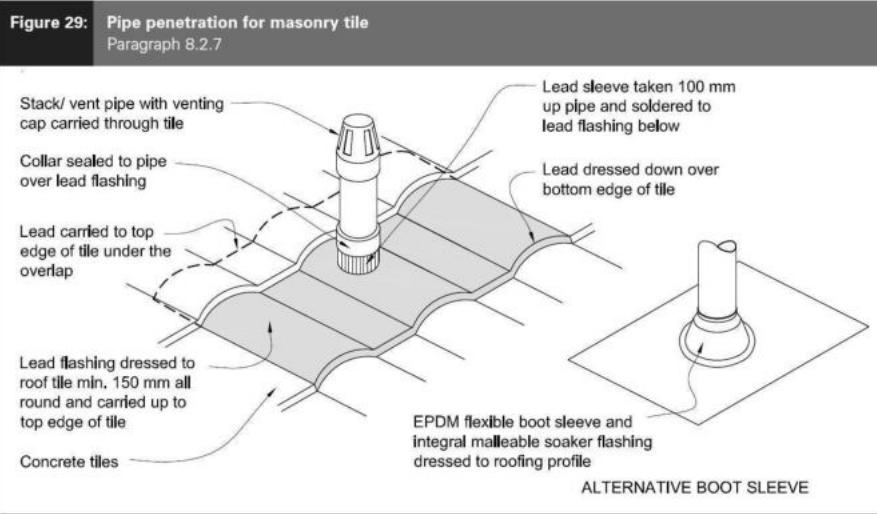
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Verify all dimensions, sizes and levels on site prior to commencing any work. Any discrepancies are to be confirmed with Signature Homes Ltd.

Refer to attached Specifications for further information.

All work is to comply with the NZBC Acceptable Solutions, NZS 3604:2011 and Local Authority bylaws.

Figure 29: Pipe penetration for masonry tile
Paragraph 8.2.7

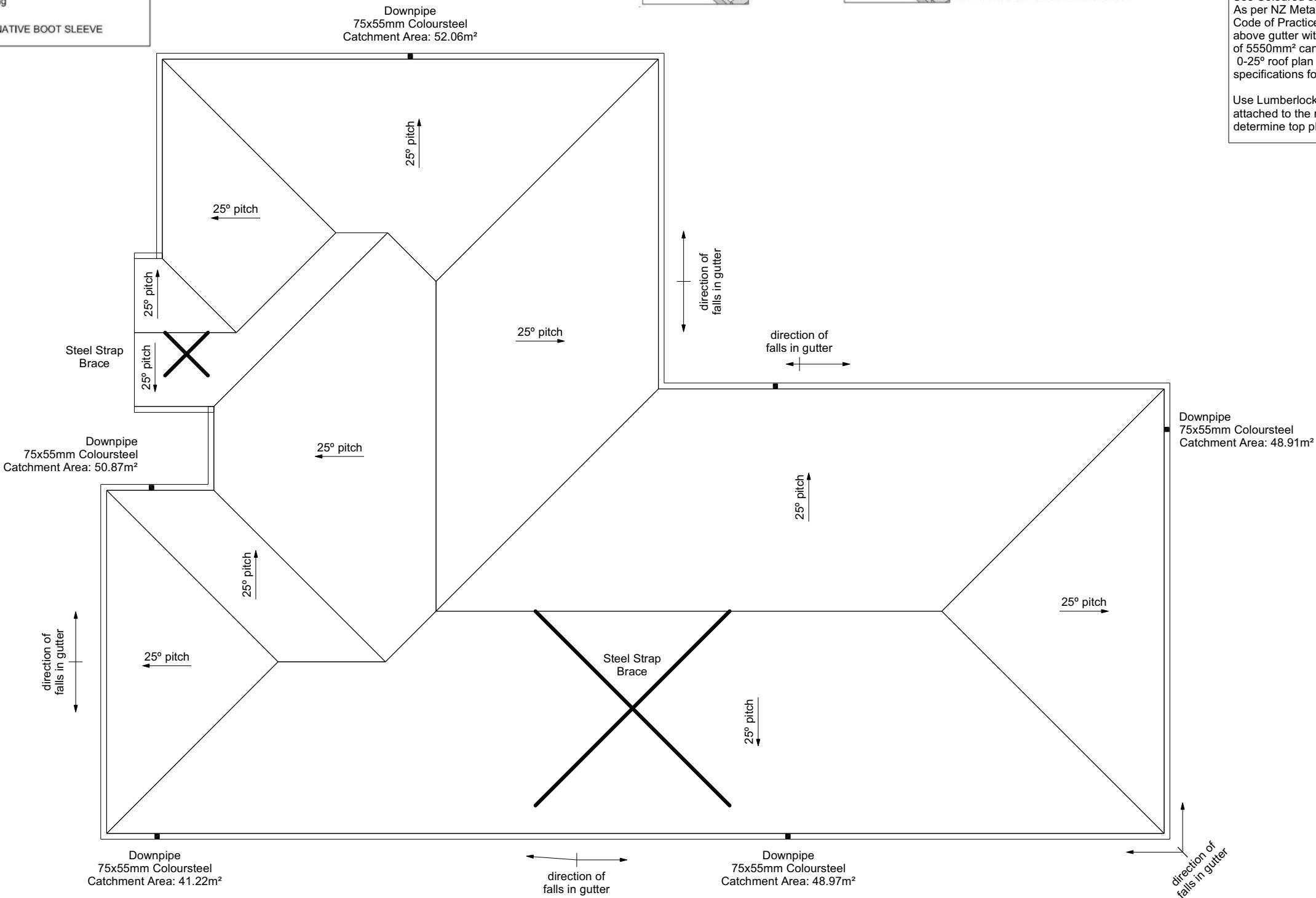
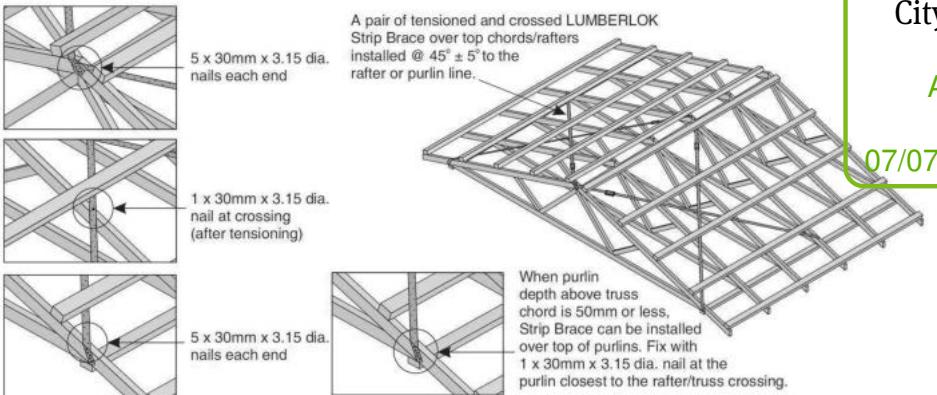


Metal Tile Penetration Detail Scale NTS

8.3.10 Roof penetrations

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

- A pair of tensioned and crossed LUMBERLOK Strip Brace running continuously from ridge to top plate installed as detailed below.



ROOF CLADDING
Roofing : 5mm Dressed Metal Panels
Fixings : 50 x 10 SG8 H1.2 @ 370crs,
fixings 2/90 x 3.15 gun nail
BCN/2022/2319

Approved Building Consent 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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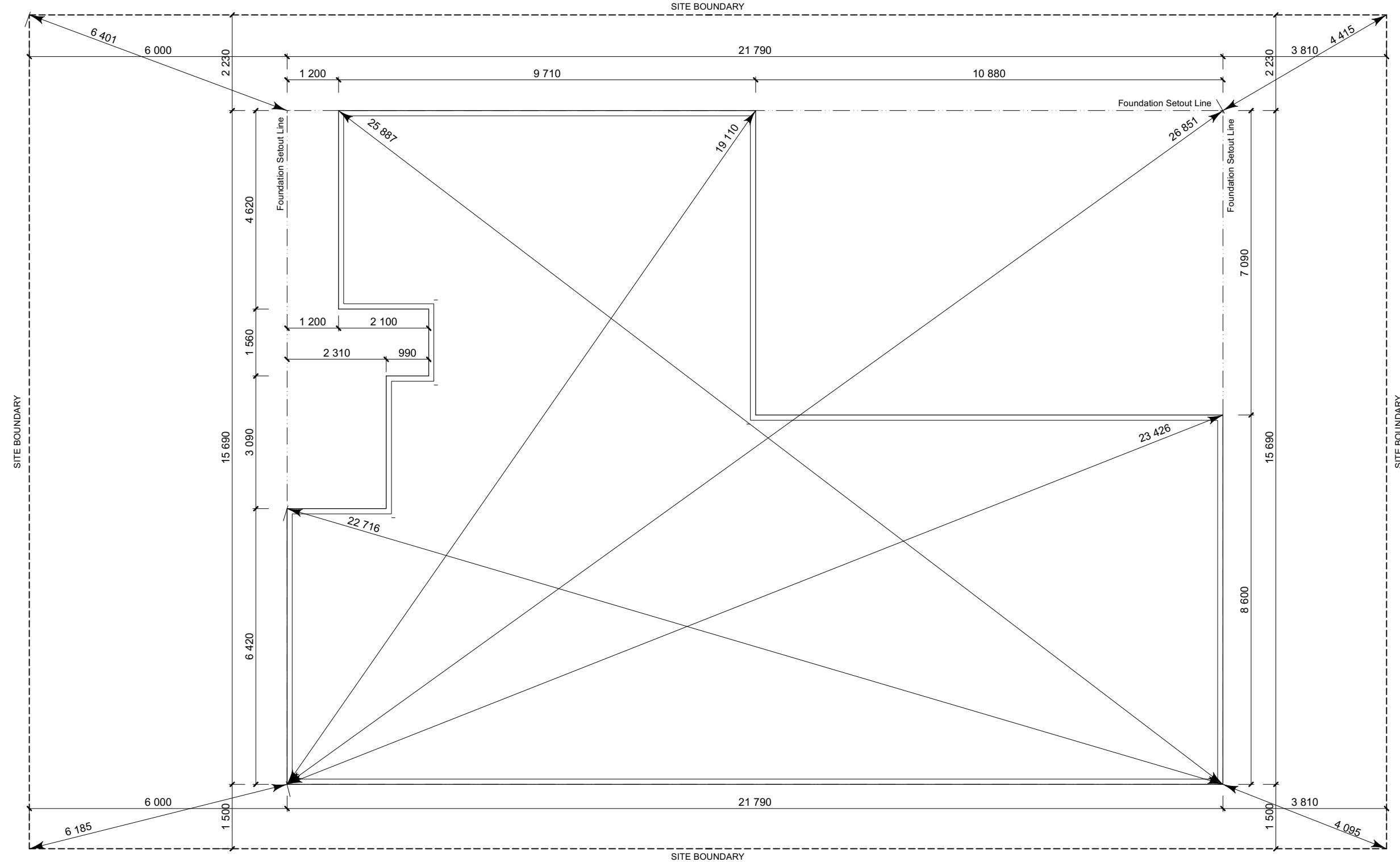
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Lot 171
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Belfast, Christchurch

Job Number:	Original Plan:	Sheet Name:
139466	<i>Harrier</i>	ROOF PLAN
ales:	Drawn:	Print Date:
Caldwell	M Glynn	16/11/2021
	QS:	Scale:
	S Liu	1:100

Christchurch City Council SET OUT PLANS NOTES Page 8 of 29
 All dimensions to foundation face. Allow 7mm veneer & 50mm cavity fill to ground foundation face by 0-20mm max as per NZBC E2/AS1.
 All reinforcing is to be Durability Class F, in accordance with NZS 4671.
 All concrete to comply with NZS3604:2011 Section 4 Durability Clause 4.5.2.
BCH/2022/224
Applicant: Maher, Kevin
Date: 07/07/2022
 These foundations are design to the findings and recommendations in the site specific Geotech report.

MEADOW VIEW DRIVE



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 Lot 171
 Belfast Development
 Belfast, Christchurch

Job Number:
139466

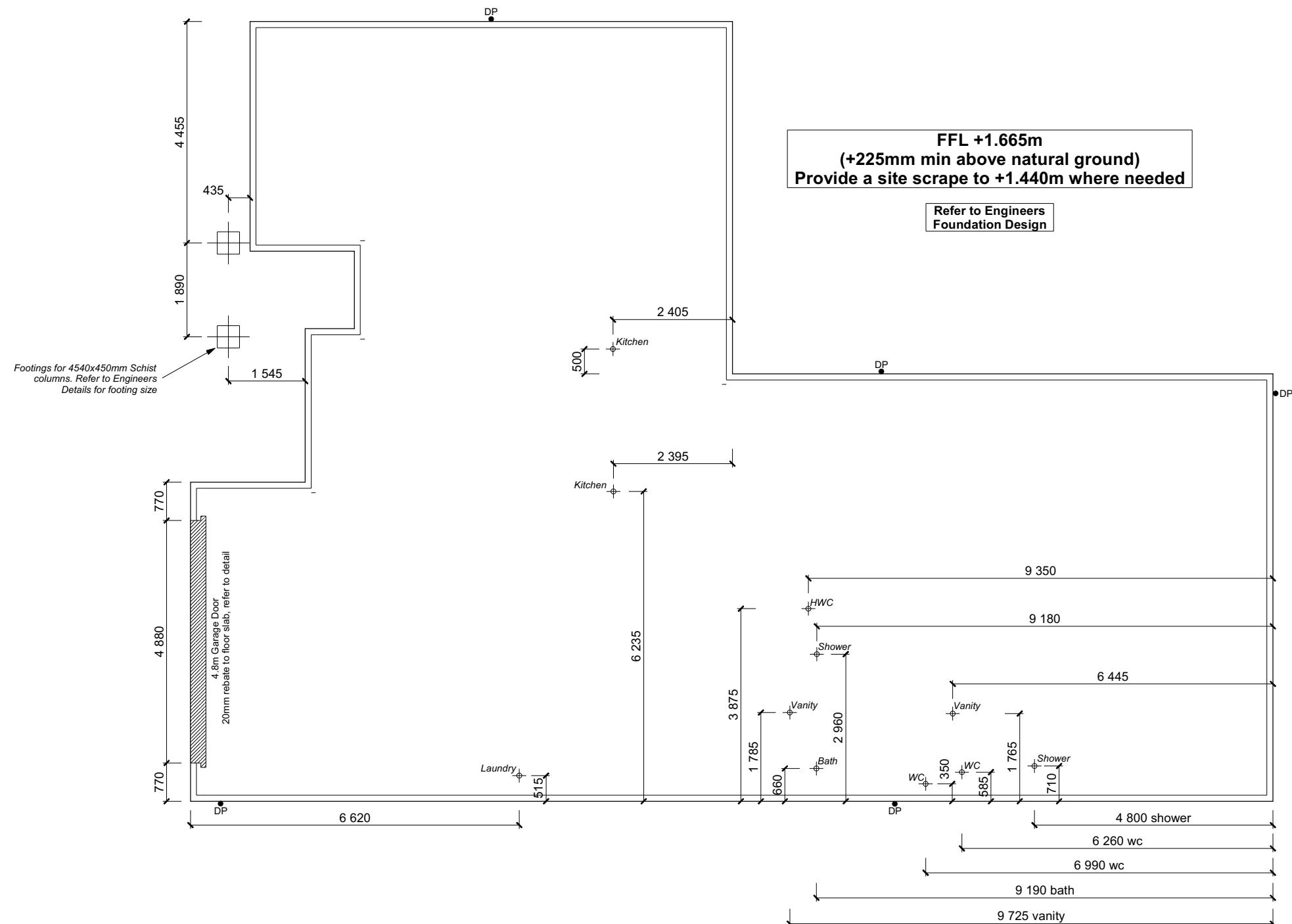
Original Plan:
Harrier

Sheet Name:
SETOUT DIMENSIONS

CONSENT PLANS

Sheet No.:
8
 of 23 sheets

Sales: L Caldwell Drawn: M Glynn QS: S Liu Print Date: 16/11/2021 Scale: 1:100 @ A3



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Deepu Sudha & Jisha Sheela
Lot 171
Belfast Development
Belfast, Christchurch

Job Number:
139466

Original Plan
Harrier

Sheet Name:

FOUNDATION PLAN

CONSENT PLANS

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

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
DP	Downpipe
GT	Gully Trap
ORG	Overflow Relief Gully
TV	Terminal Vent
AAV	Air Admittance Valve
IP	Inspection Point

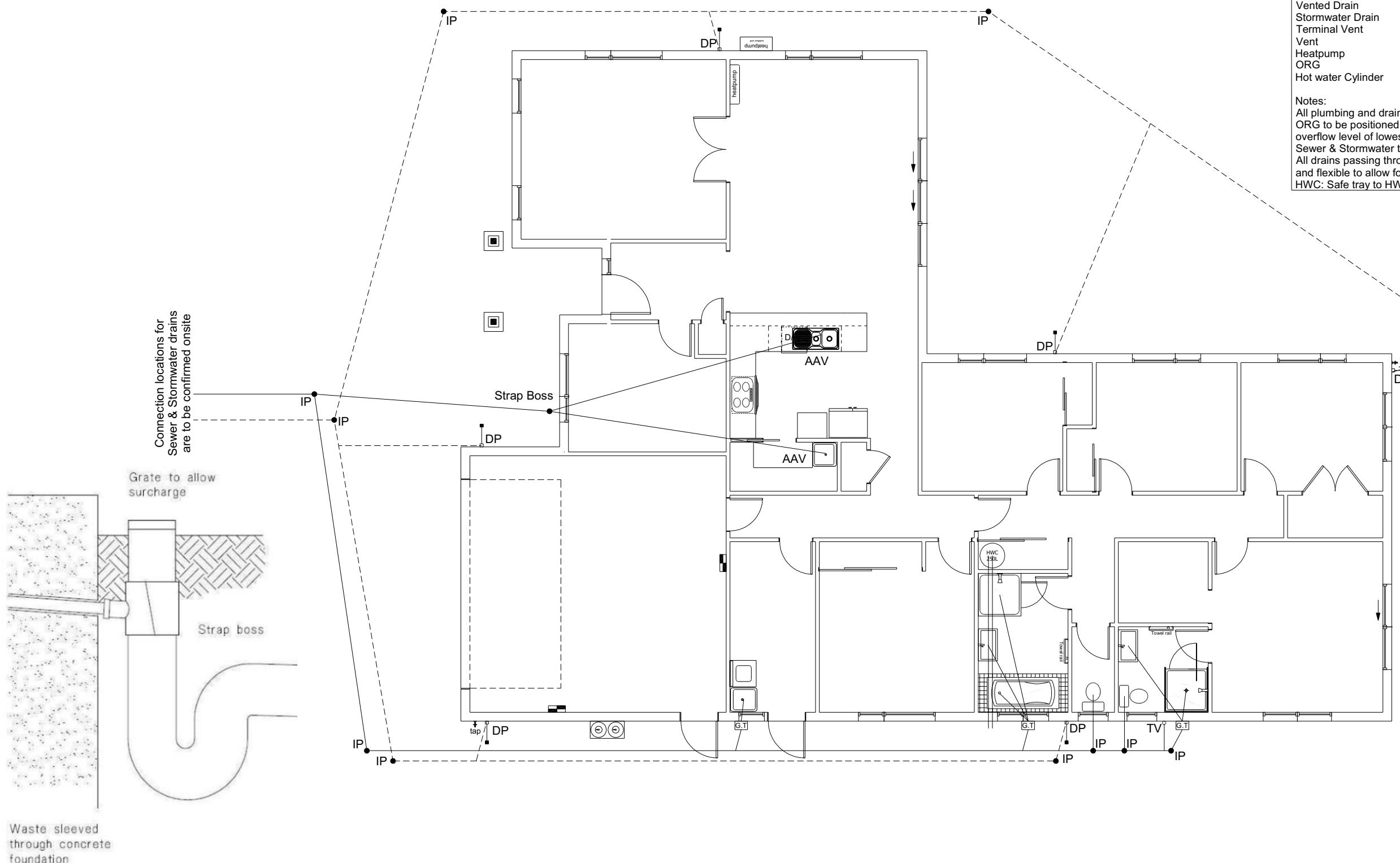
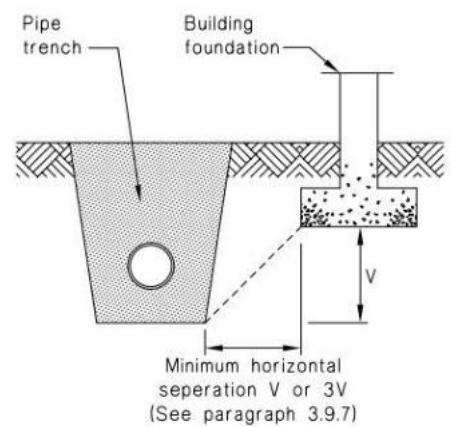


Figure 14: Relationship of Pipe Trench to Building Foundation
Paragraph 3.9.7



c) Strap boss to riser

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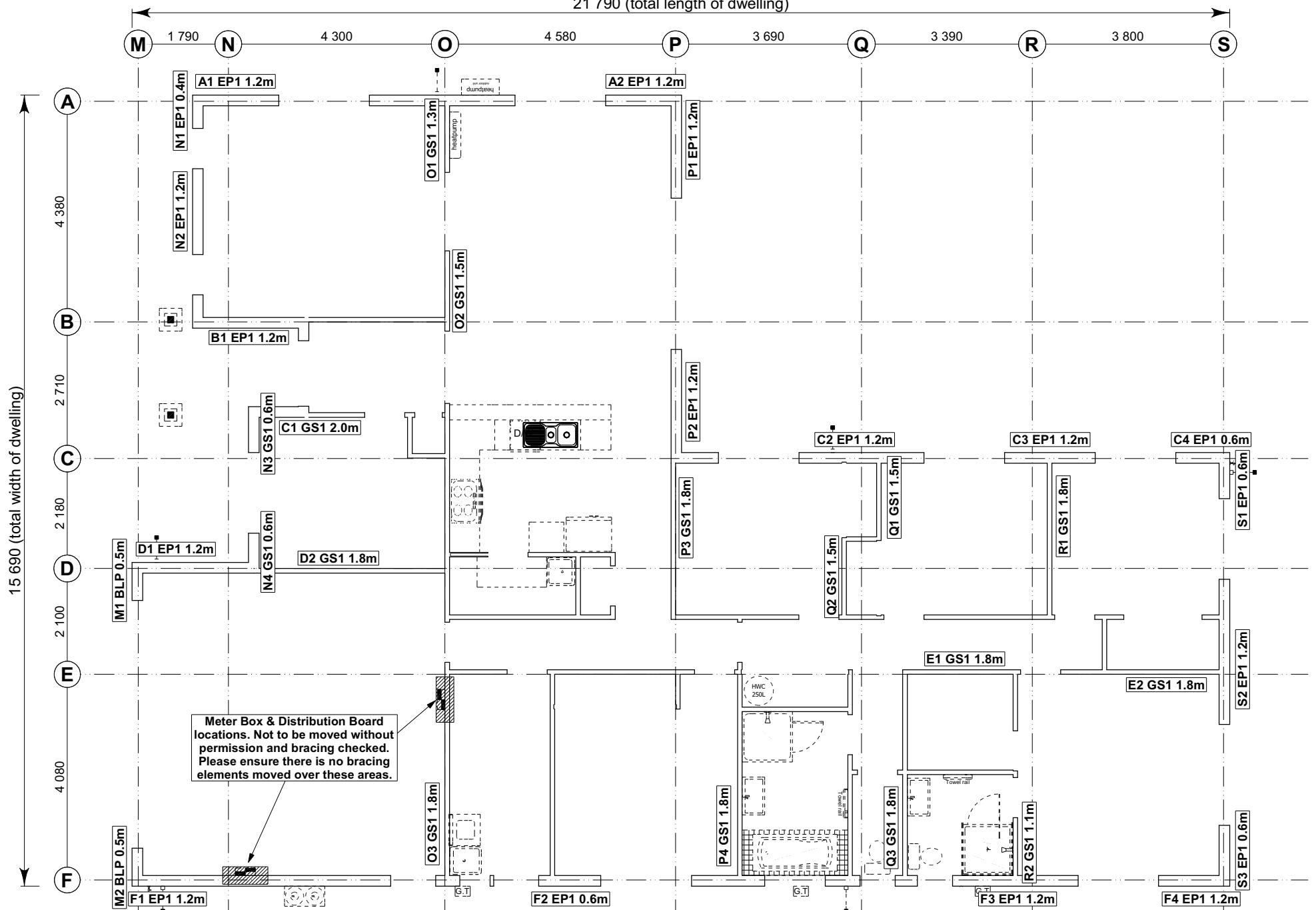
Job Number: **139466** Original Plan: **Harrier** Sheet Name: **DRAINAGE PLAN**
Sales: L Caldwell Drawn: M Glynn QS: S Liu Print Date: 16/11/2021 Scale: 1:100 @ A3

CONSENT PLANS

No.	Date:	Reason:
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Sheet No.: **10**

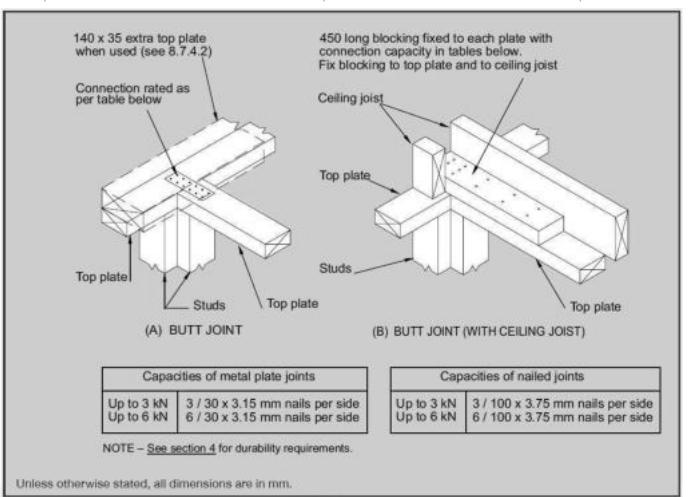
of 23 sheets



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;
- 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.



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Deepu Sudha & Jisha Sheela
Lot 171
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Belfast, Christchurch

Job Number:
139466

Original Plan:
Harrier

Sheet Name:
BRACING PLAN

CONSENT PLANS

No.	Date:	Reason:
1	16-11-2021	Initial Consent Plans

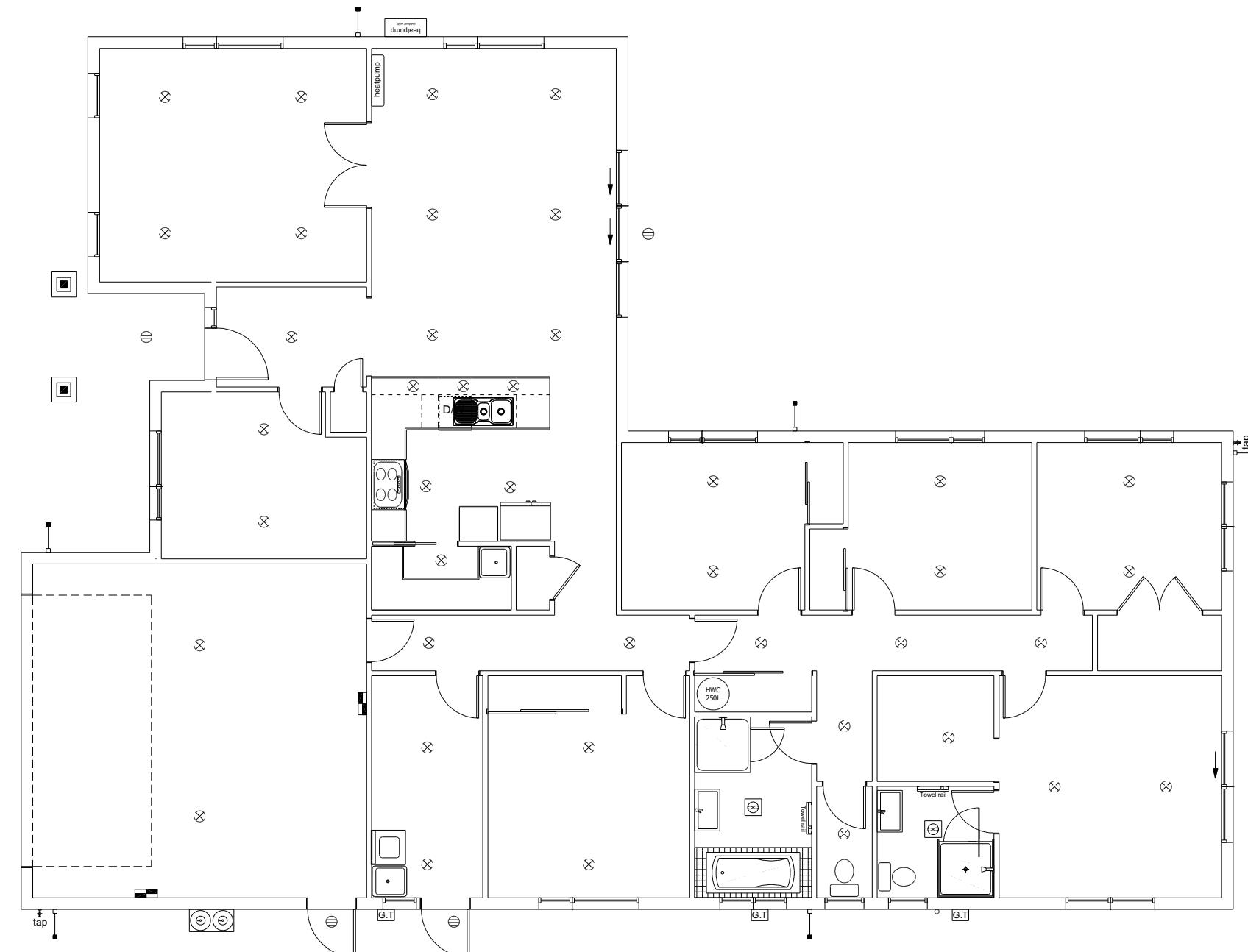
Sheet No.:
11

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07/07/2022

Maher, Kevin



LEGEND	
Refer to Electrical Section in Specification for further details	
○	Ceiling Pan
⊗	CA Approved Down Light
●	Exterior Bulkhead Light
►	Exterior Wall Light
—	Fluorescent Double
↶	Light Switch
↷	Two Way Light Switch
⤠	Single Power Socket
⤡	Double Power Socket
⦿	Outside Waterproof Plug
▼	Telephone/Data Outlet
TV	TV Jack
SKY	Sky Connection
■	Bathroom Heater
■	Bathroom Extractor/Light

Electrical Plan is indicative only and is to be confirmed onsite with electrician and client

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Sheet Name:
LIGHTING PLAN
Sales: L Caldwell Drawn: M Glynn QS: S Liu Print Date: 16/11/2021 Scale: 1:100 @ A3

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No.	Date:	Reason:
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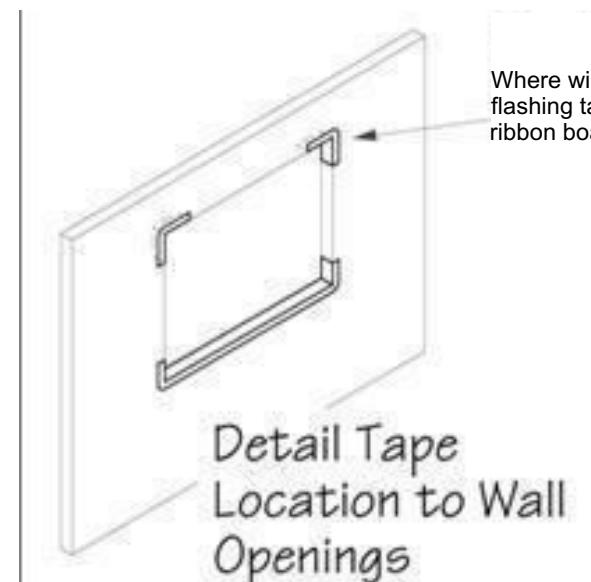
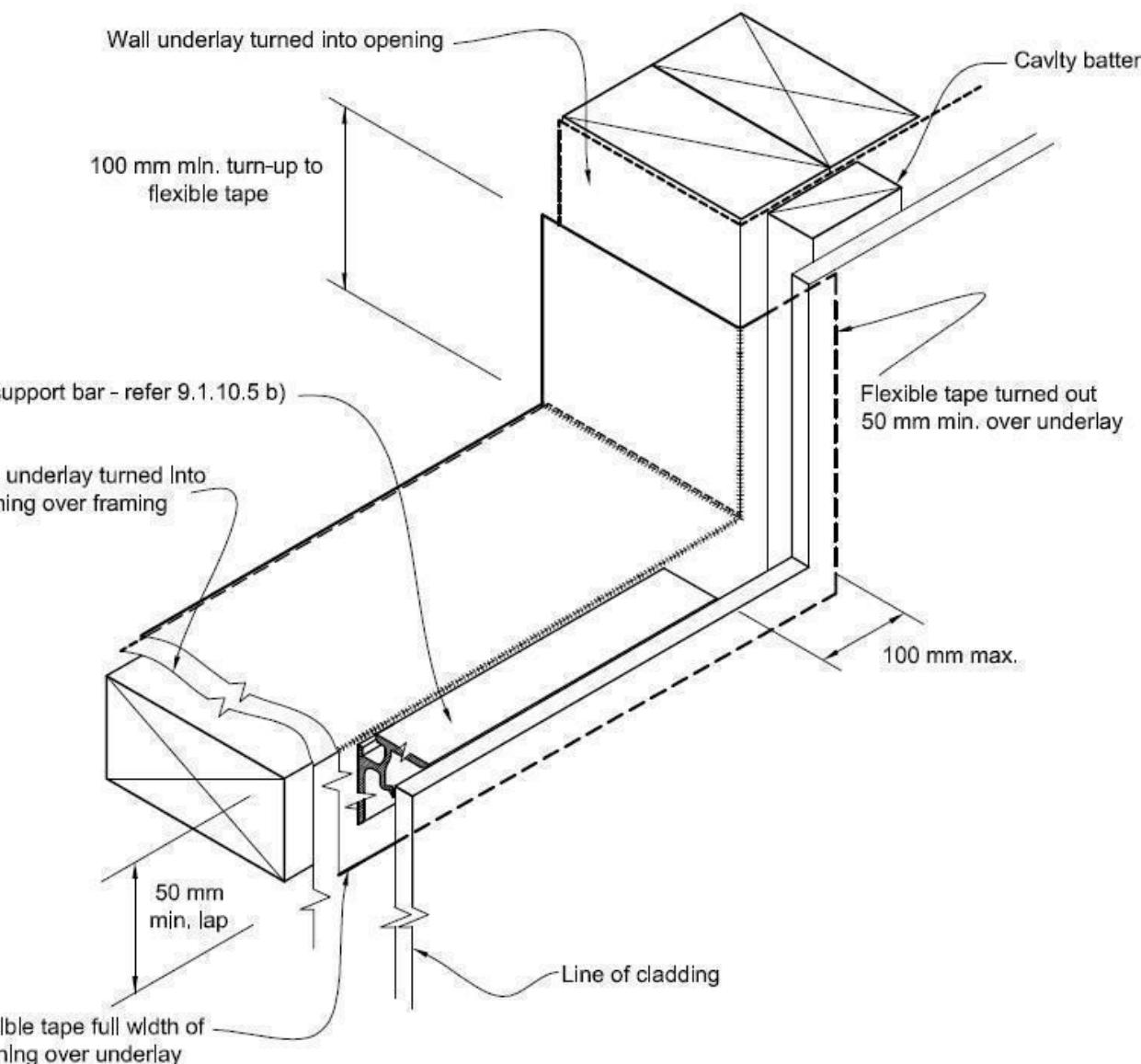
Where windows extend to soffit,
flashing tape is to be fixed prior to
ribbon board being fixed to framing.

Figure 72B: General window and door opening with drainage cavity

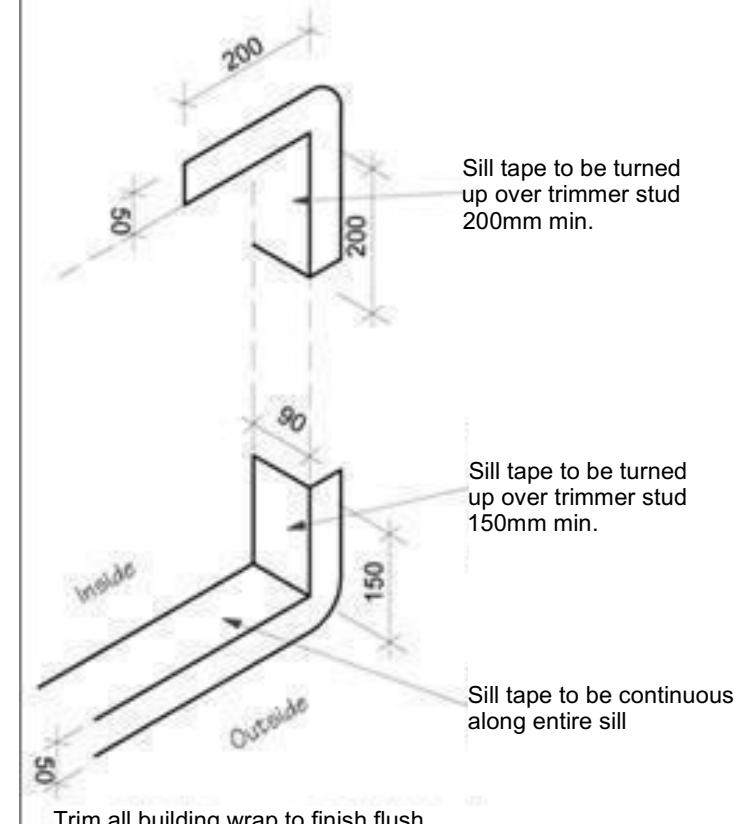
Paragraphs 9.1.5, 9.1.9.3, 9.1.10.2, Figures 73C, 76, 85, 86, 91, 99, 116 and 128

NOTE:

- (1) Detailed cladding omitted for clarity, refer to specific claddings.
- (2) Head to be treated similarly with continuous wall underlay and flexible tape at corners.
- (3) Refer individual cladding details for jamb flashings.



Detail Tape Location to Wall Openings



Sill Tape Flashing Detail

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Job Number:
139466

Original Plan:
Harrier

Sheet Name:
CONSTRUCTION DETAILS

Sales: L Caldwell Drawn: M Glynn QS: S Liu Print Date: 16/11/2021 Scale: As Shown @ A3

CONSENT PLANS

No.	Date:	Reason:
1	16-11-2021	Initial Consent Plans

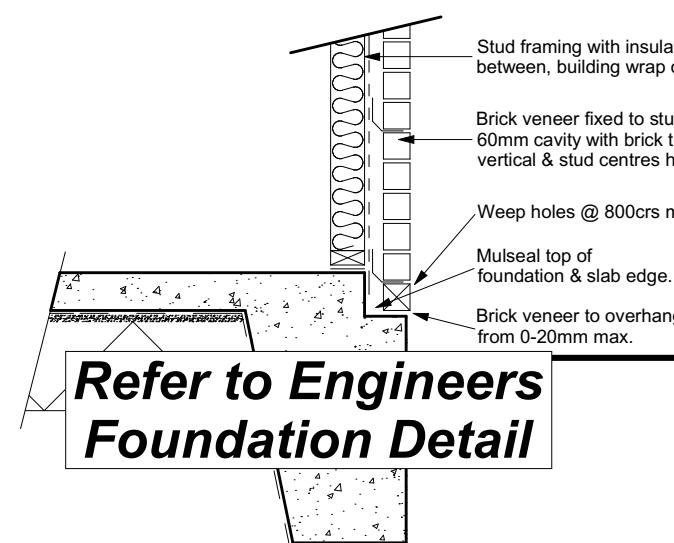
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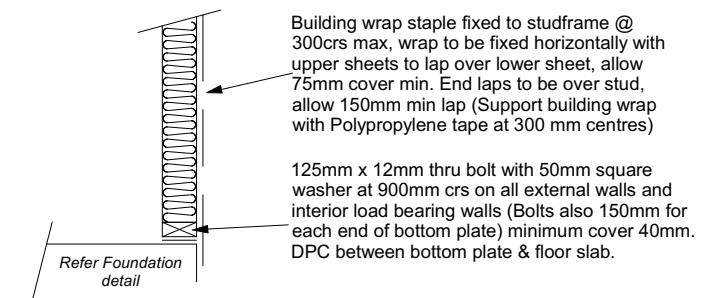
07/07/2022

Brick veneer

Maher, Kevin



Brick Veneer Foundation
Scale 1:20



Stud framing to slab
Scale 1:20

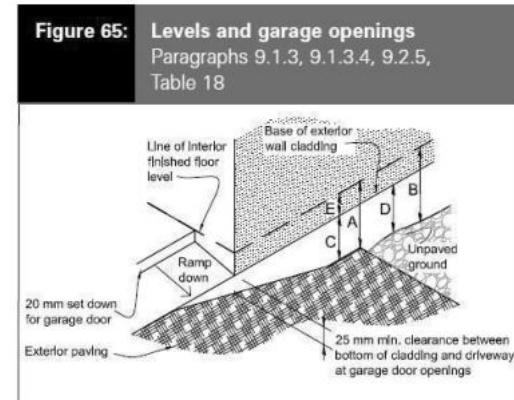
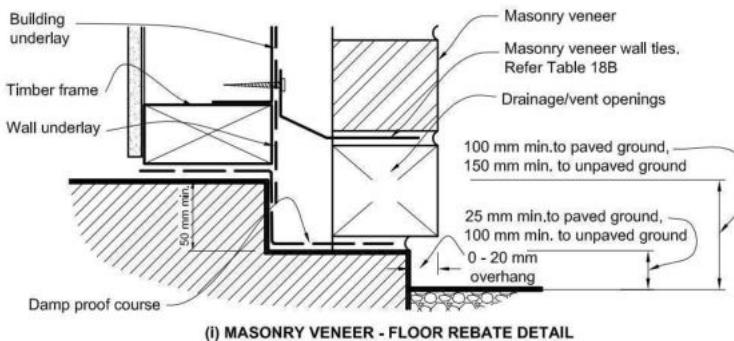
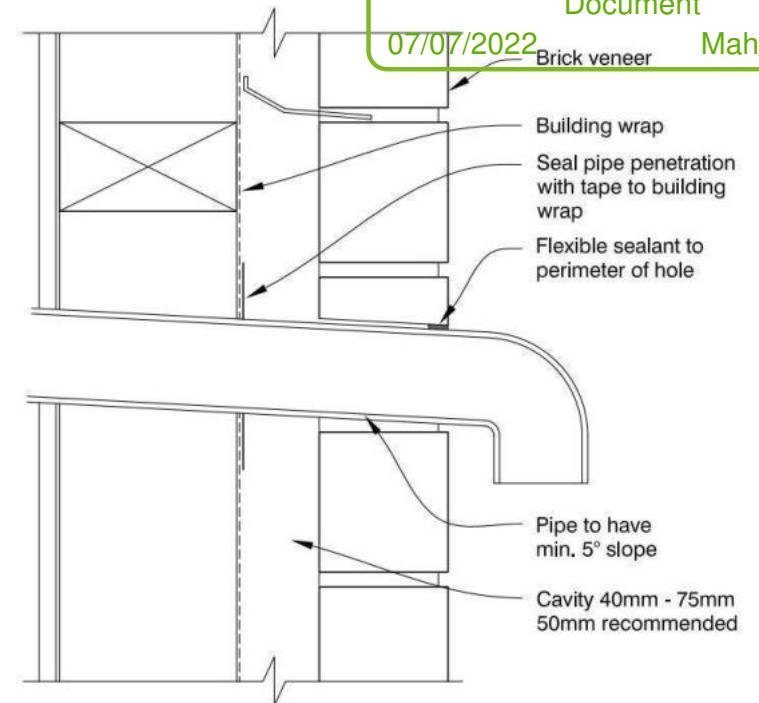


Table 18: Minimum clearances
Paragraphs 9.1.3, 9.1.3.1, 9.1.3.2, 9.1.3.3, 9.1.3.4, 9.1.3.5 and 9.2.7

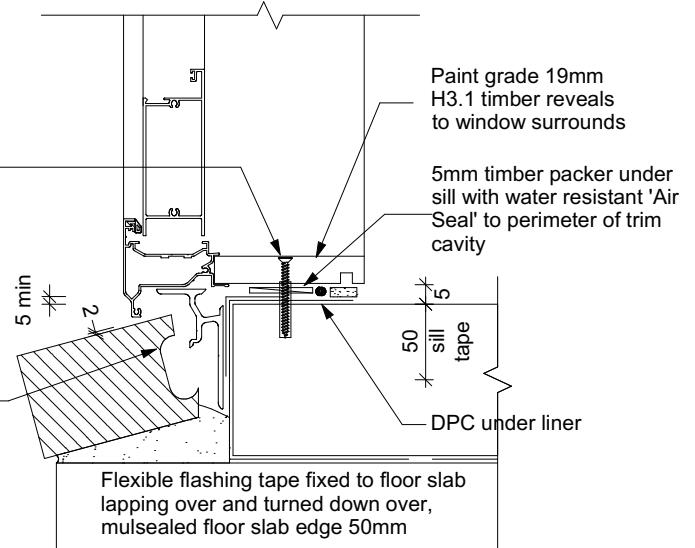
Minimum clearances (mm)	Masonry veneer		Other claddings				
	A	B	A	B	C	D	E
Concrete slab	100	150	150	225	100	175	50
Timber floor Refer Note 1)			100	175	502)		

NOTE: 1) Refer to NZS 3604 for requirements.
2) Cladding to extend minimum 50 mm below bearer or lowest part of timber floor framing.

50mm screw fixing to window sill, no more than 150mm from all corners and then 450crs spacings, allow for extra fixings at mullions, transoms & door strikers, all screws driven below sill surface and filled and sanded prior to painting

Continuous ventilated support bar fixed to sill plate with 50mm screws, top face of bar to be fitted level & 5mm min above sill plate

Coat bricks, if flat, with waterproofing agent



Door Sill to Slab Detail
Scale 1:20

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Deepu Sudha & Jisha Sheela
Lot 171
Belfast Development
Belfast, Christchurch

Job Number:
139466

Original Plan:
Harrier

Sheet Name:
CONSTRUCTION DETAILS

CONSENT PLANS		
No.	Date:	Reason:
1	16-11-2021	Initial Consent Plans

Sheet No.:
16

of 23 sheets

9.1.10.8 Attachment of windows and doors

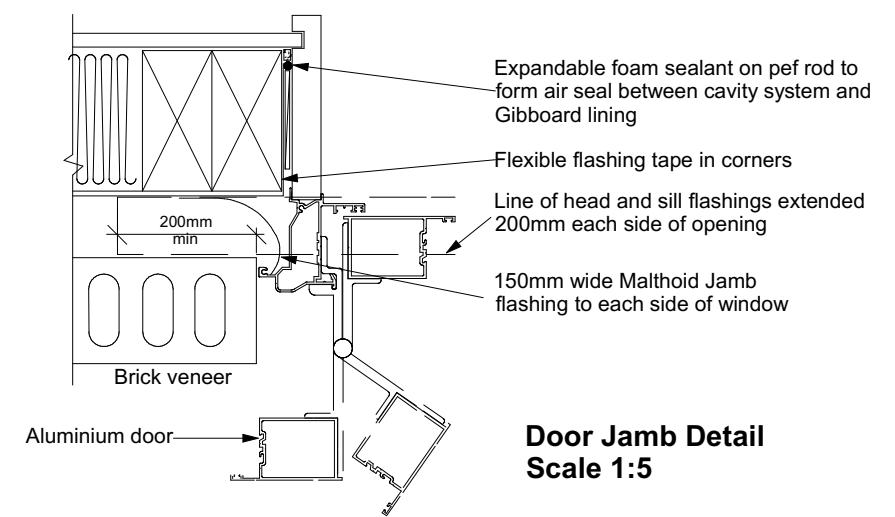
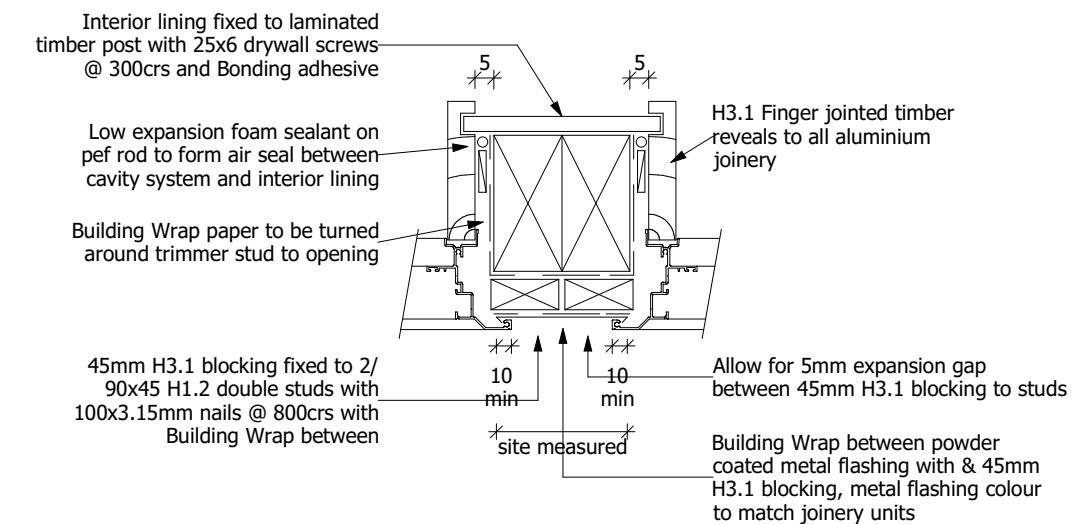
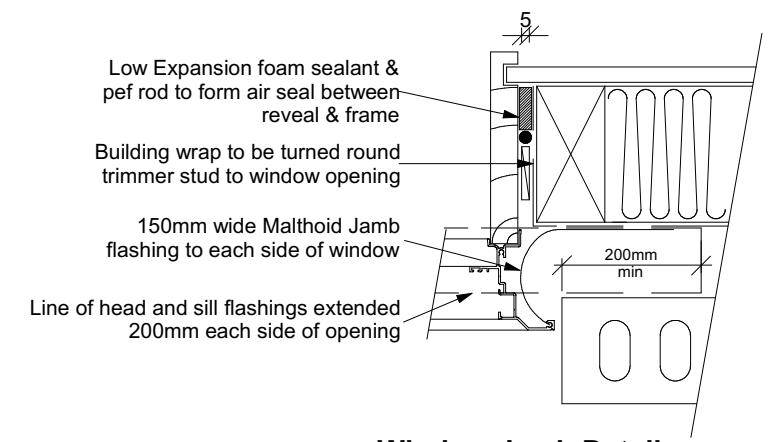
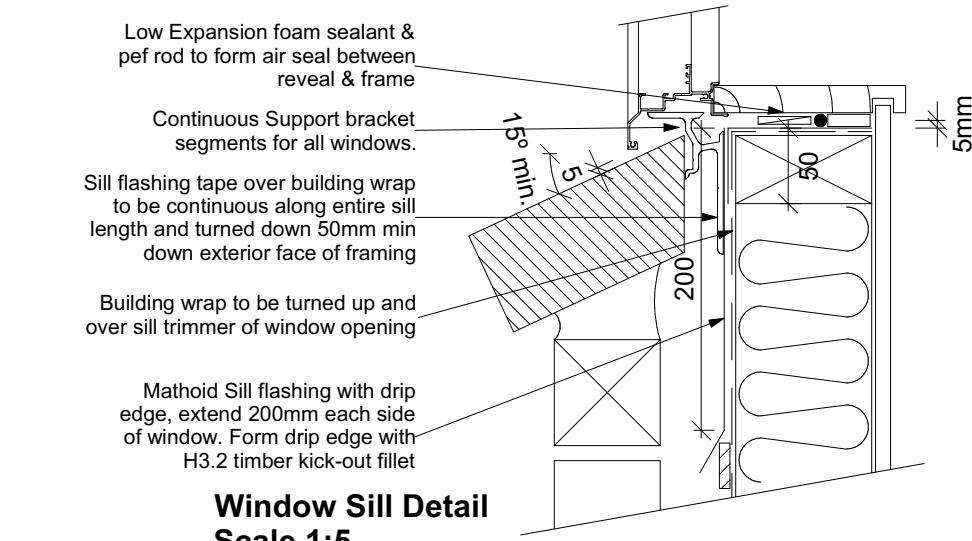
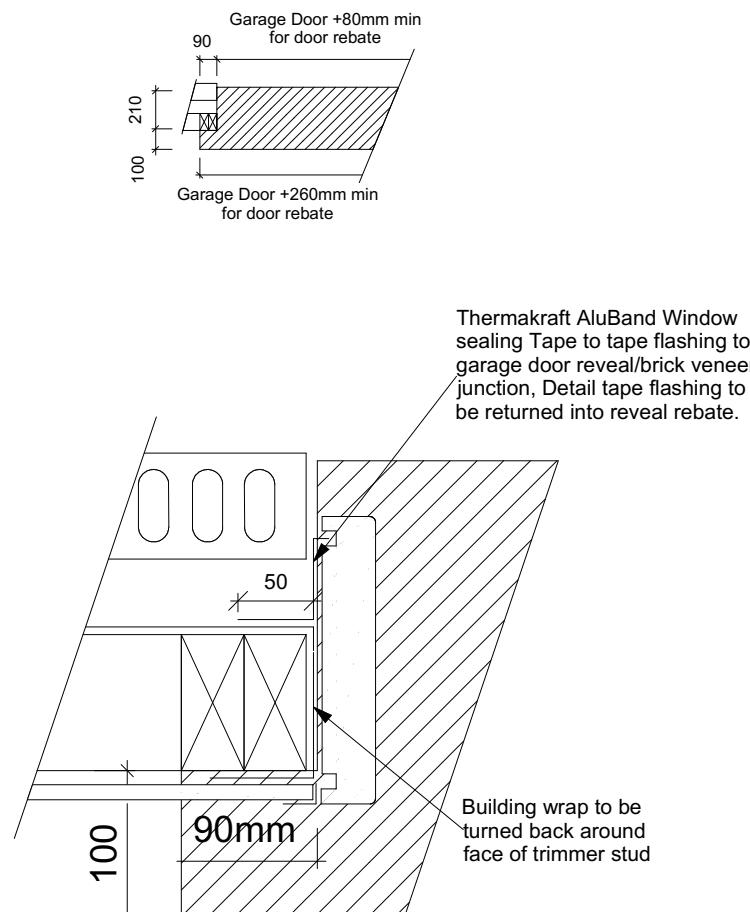
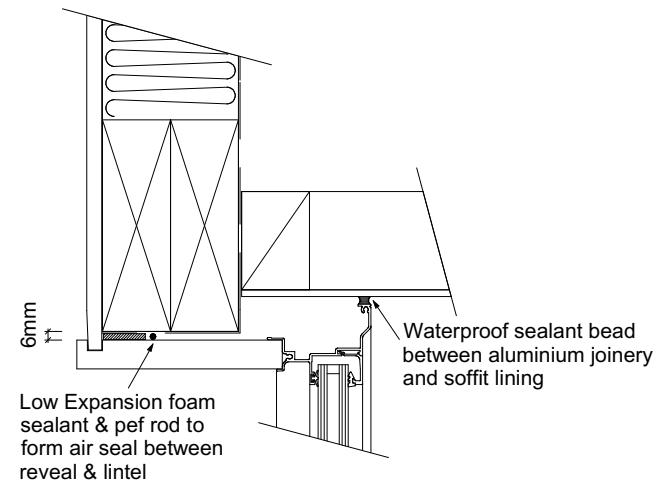
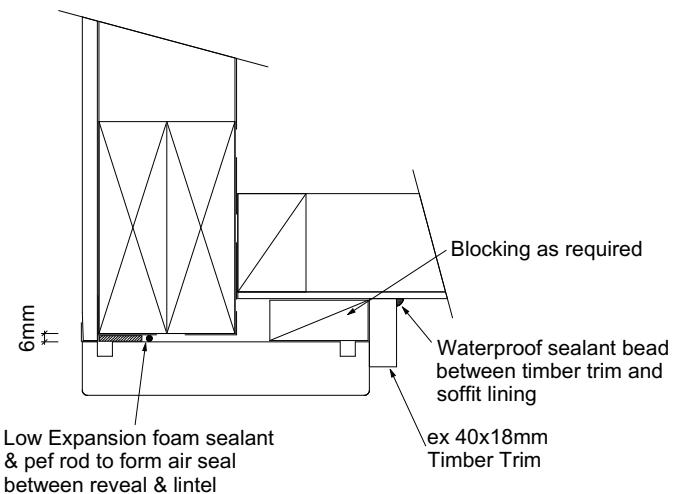
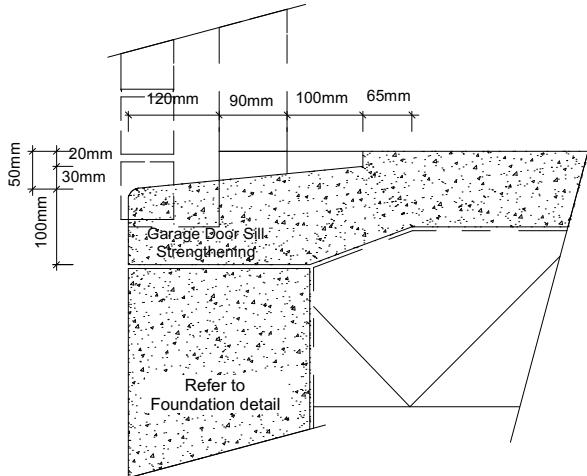
Approved Building Consent Document

Install windows and doors in pairs of minimum 750 mm 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.



All dimensions are to be checked and confirmed prior to any construction
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Job Number:
139466

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Harrier

Sheet Name:
CONSTRUCTION DETAILS

CONSENT PLANS

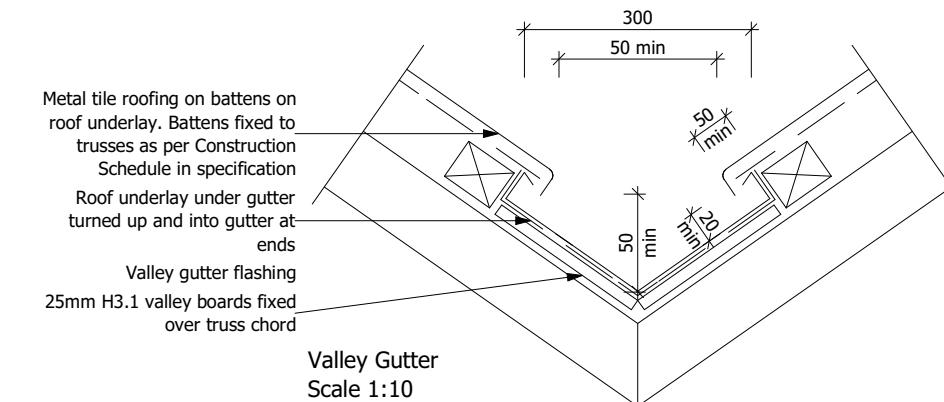
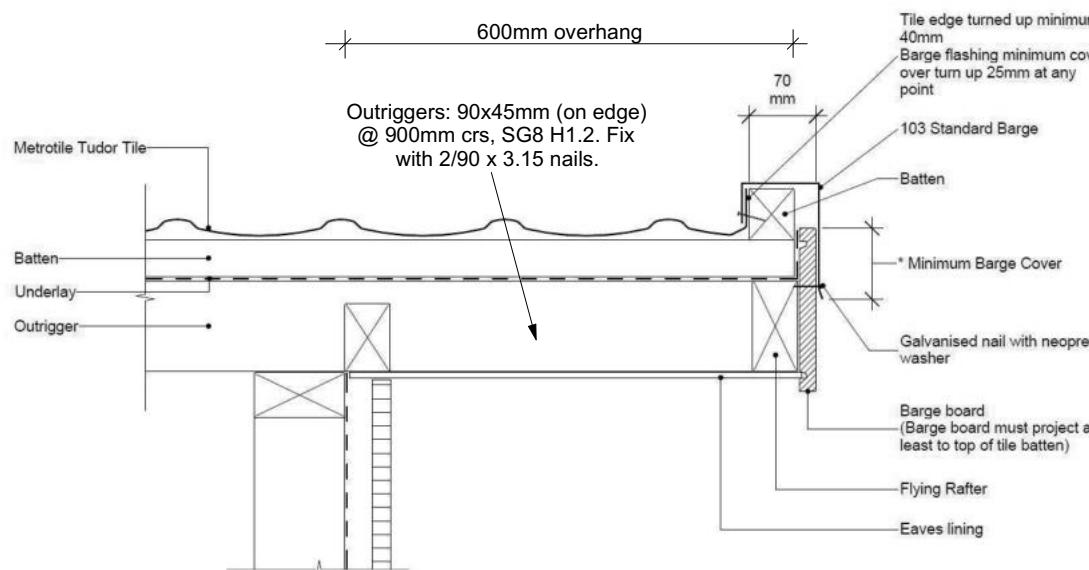
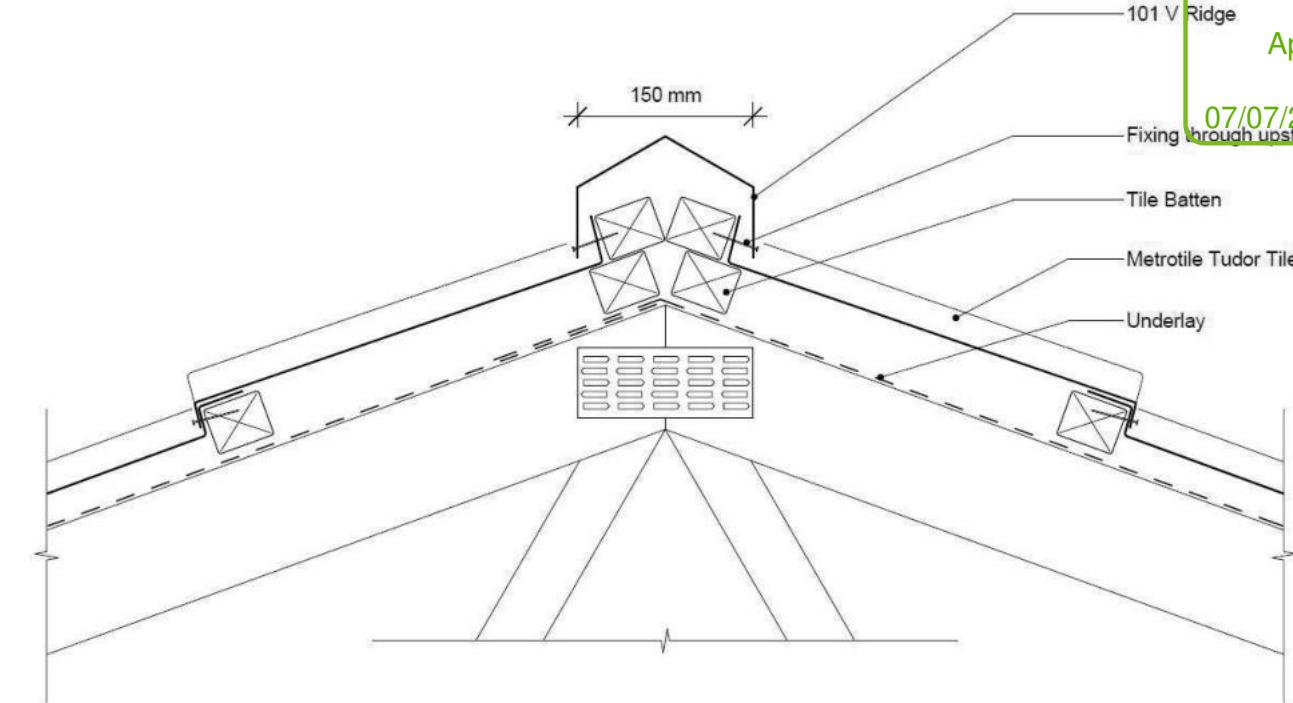
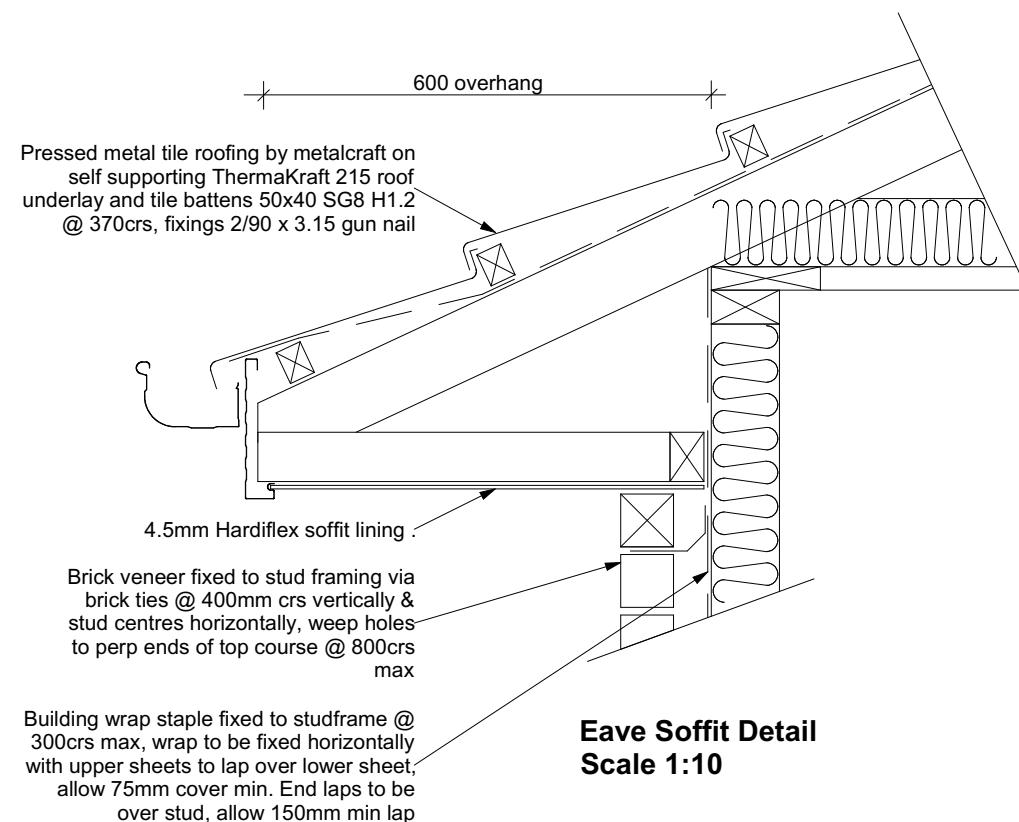
No.	Date:	Reason:
1	16-11-2021	Initial Consent Plans

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17

of 23 sheets

07/07/2022

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Belfast Development
Belfast, Christchurch

Job Number:
139466

Original Plan:
Harrier

Sheet Name:
CONSTRUCTION DETAILS

CONSENT PLANS

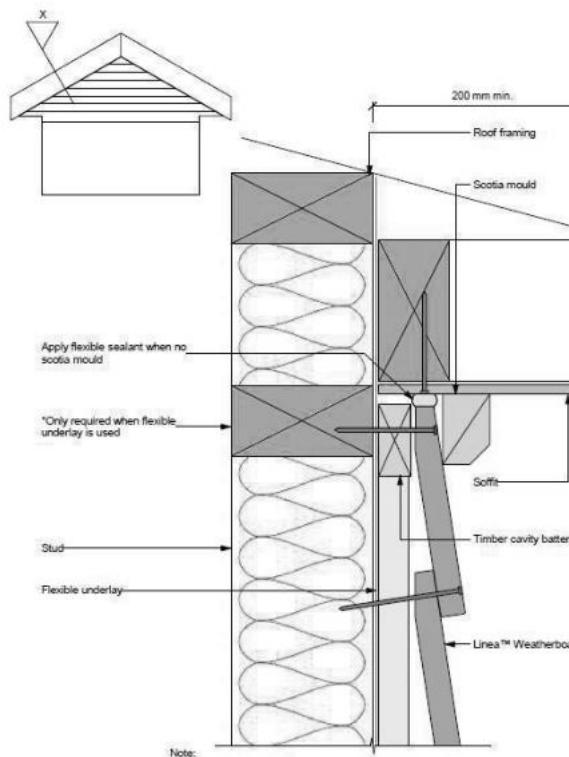
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Sheet No.:
18

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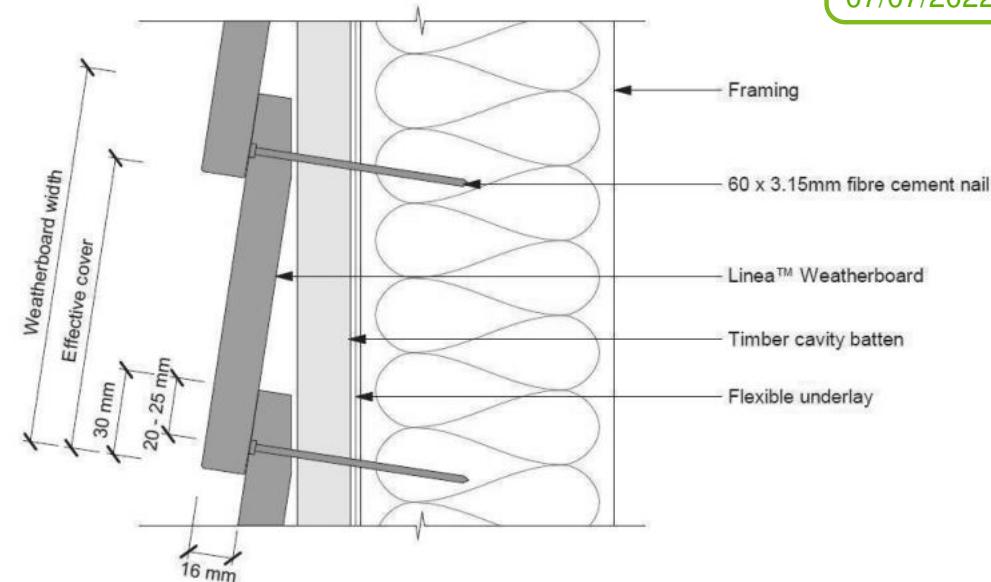
07/07/2022

Maher, Kevin



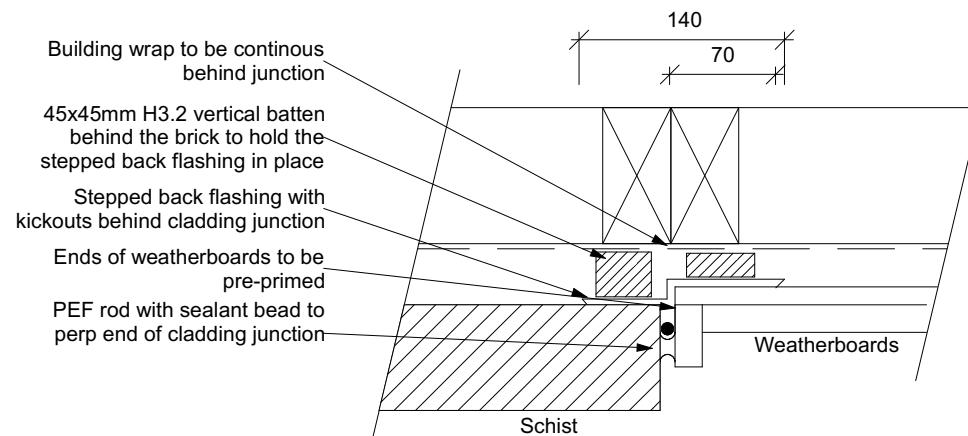
Note:
Alternatively the scotia can be scribed and sealed to
Linea™ Weatherboard and the soffit lining

For soffits more than 200mm the Linea™ Weatherboard
can be neat cut and silicone sealed to angle of soffit

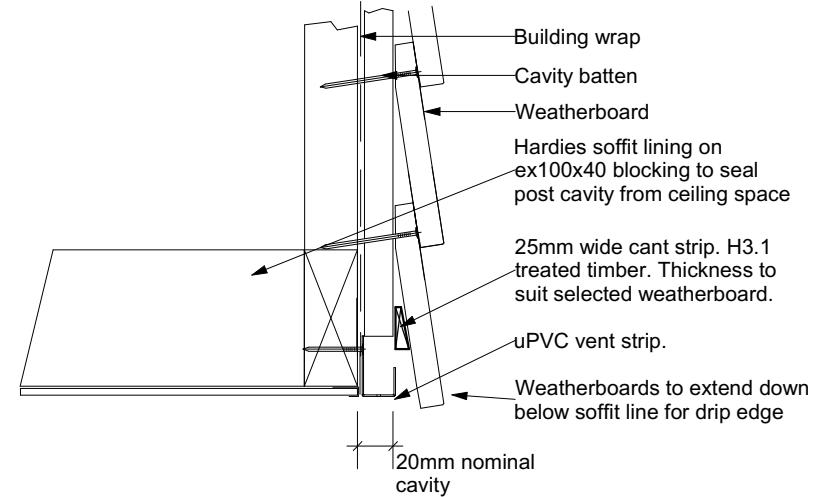


Concealed Nailing

Linea™ Weatherboards to be face fixed at corners and down window and door openings using jolt head nails at 90° to face, punch 2mm below surface and fill. Refer to fixing table 4



Schist / Weatherboard Vertical Junction Scale 1:5



Gable edge soffit detail

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Christchurch 84443

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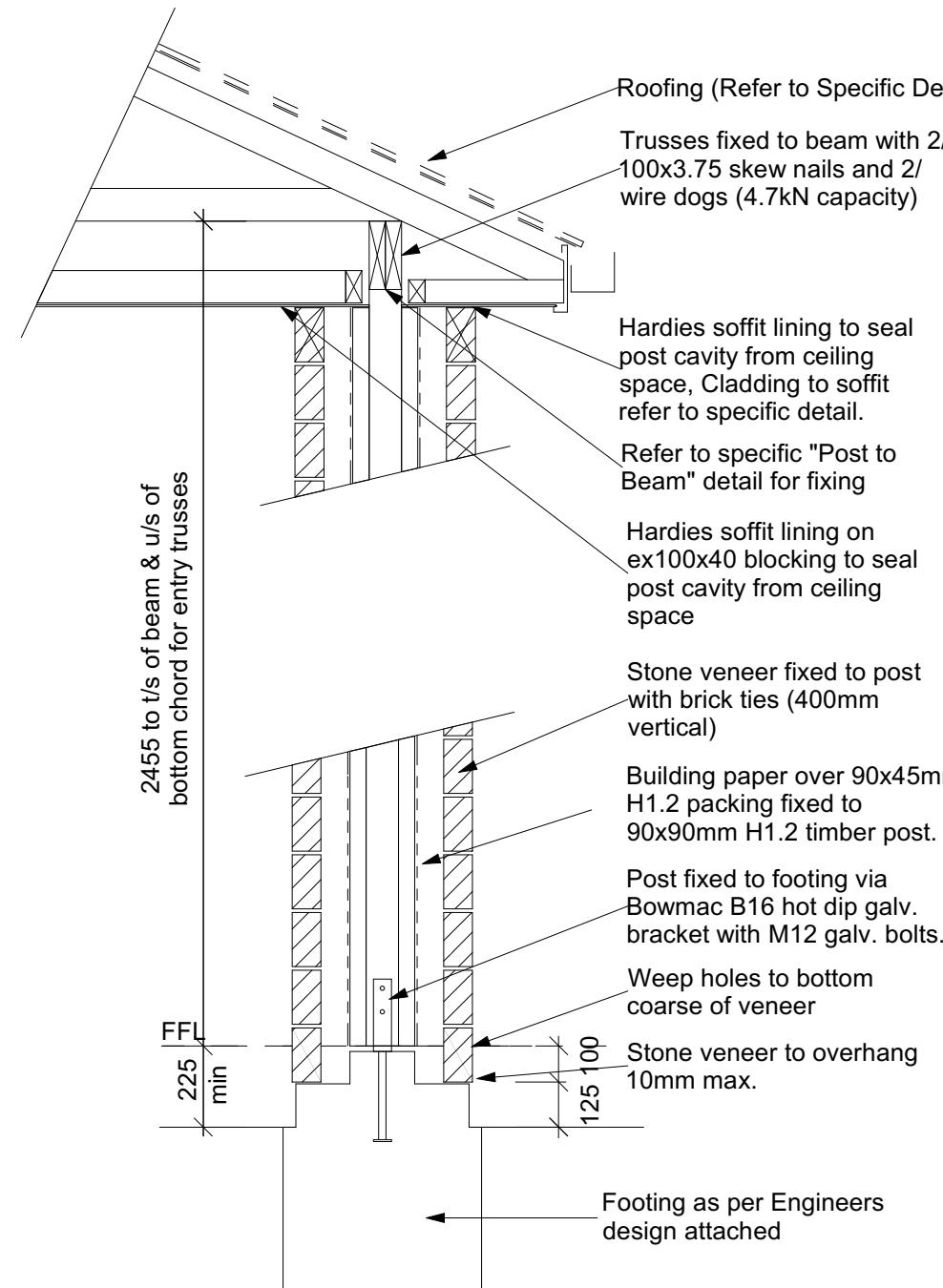
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Lot 171
Belfast Development
Belfast, Christchurch

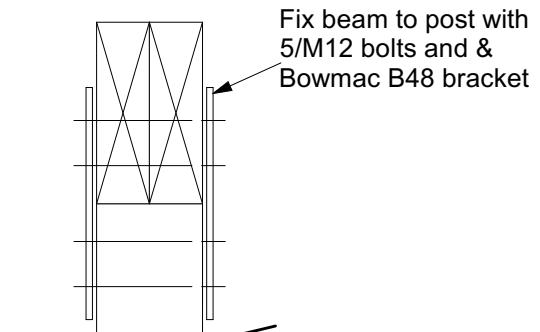
Job Number: 139466	Original Plan: <i>Harrier</i>	Sheet Name: CONSTRUCTION DETAILS	CONSENT PLANS			Sheet No.: 19
			No.	Date:	Reason:	
			1	16-11-2021	Initial Consent Plans	
Sales: Caldwell	Drawn: M Glynn	QS: S Liu	Print Date: 16/11/2021	Scale: As Shown @ A3		of 23 sheets

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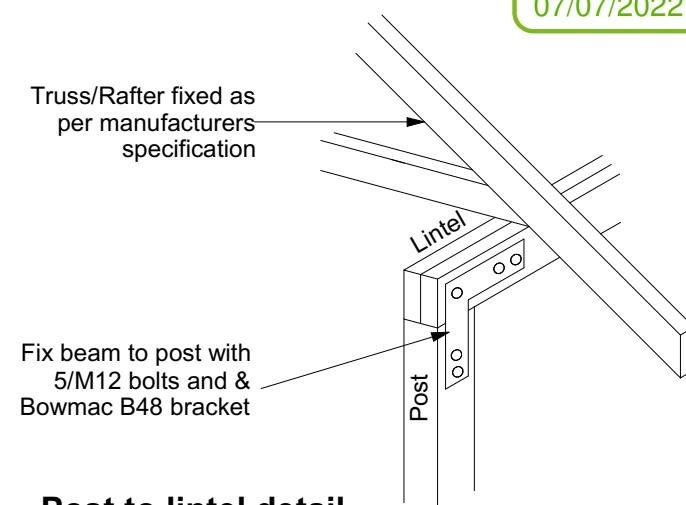
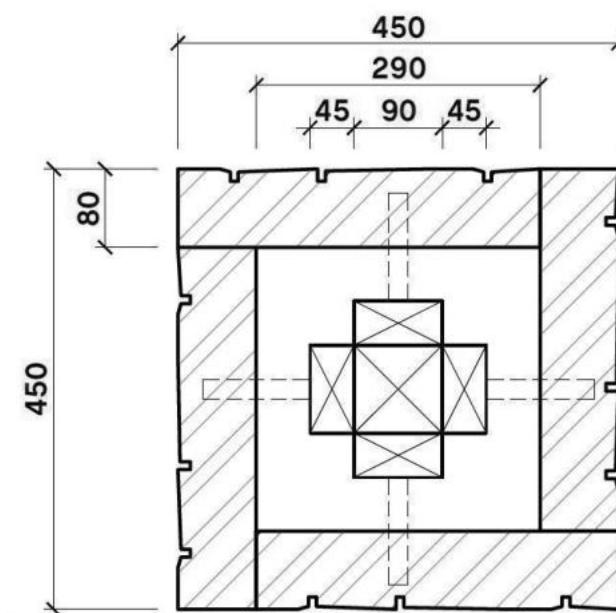
Maher, Kevin



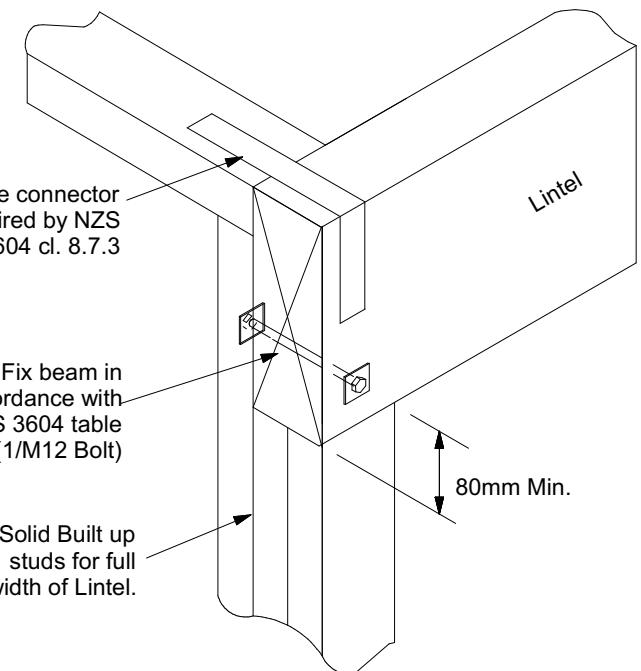
Stone Column Details
scale 1:20



Post to Lintel Fixing Detail scale 1:10



Post to lintel detail Scale NTS



Lintel to wall detail Scale NTS

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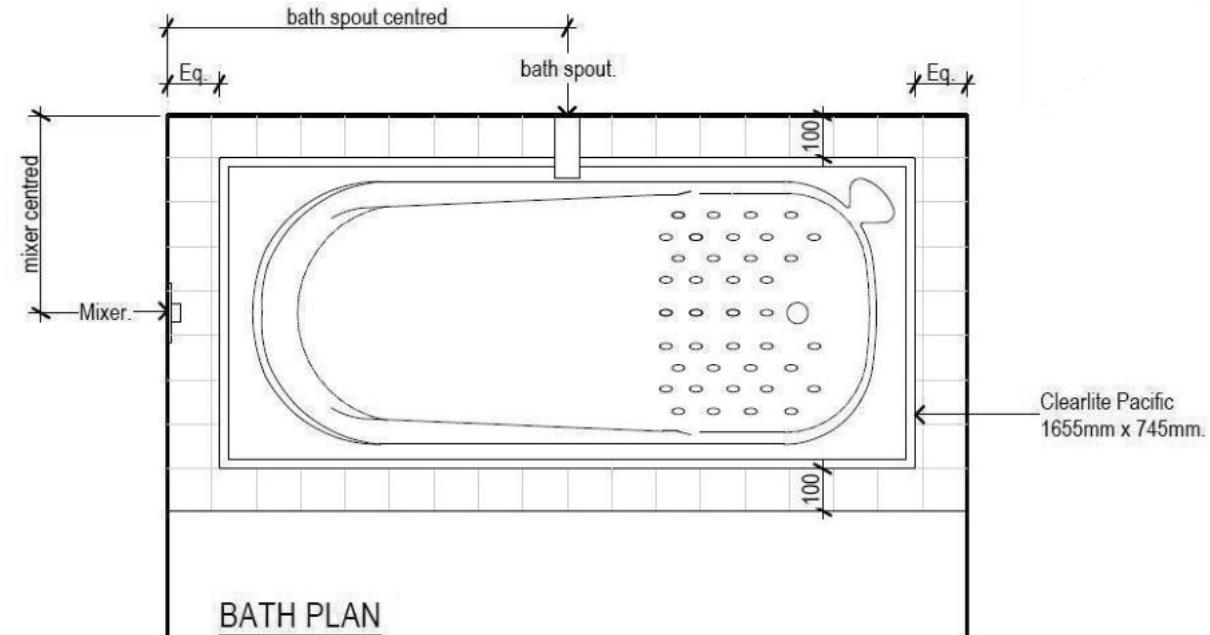
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Lot 171
Belfast Development
Belfast, Christchurch

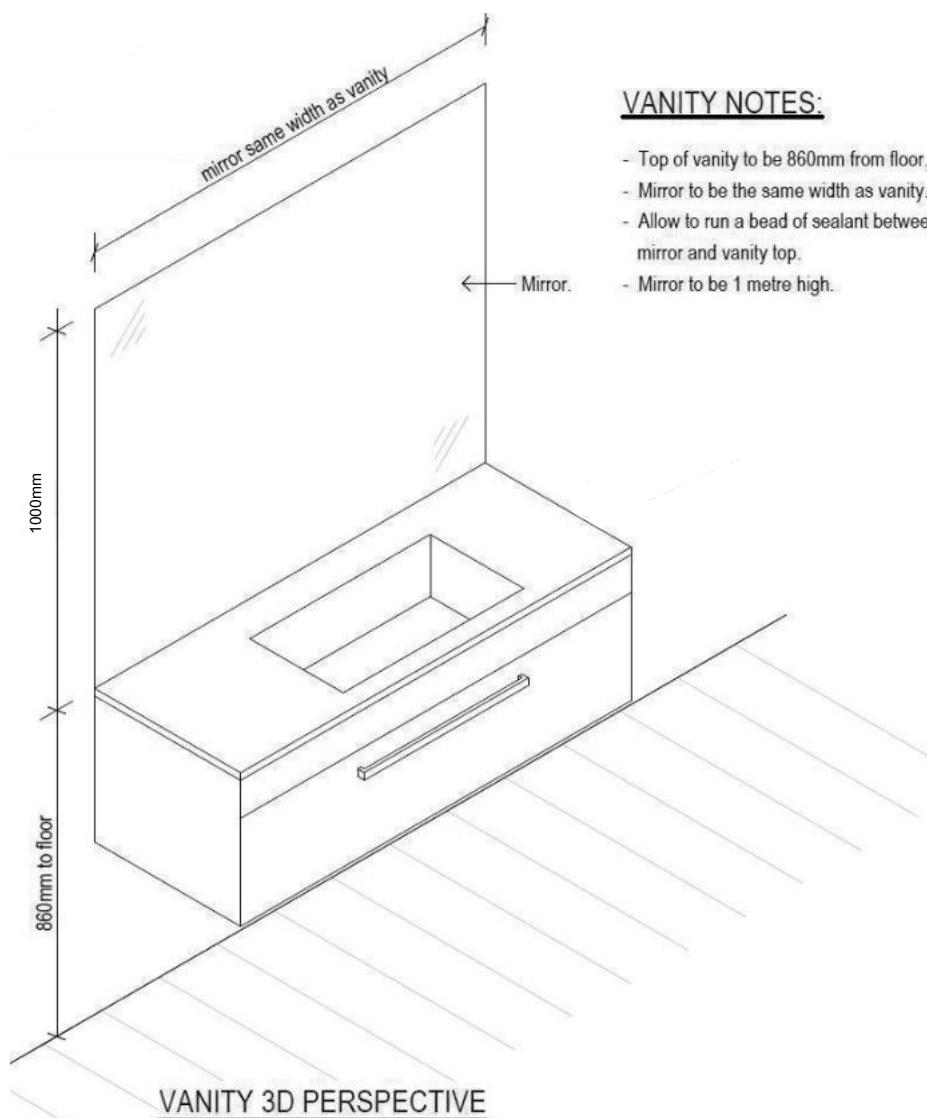
Job Number:
139466

Original Plan:
Harrier

Sheet Name:
**CONSTRUCTION
DETAILS**



BATH PLAN



VANITY 3D PERSPECTIVE

**All dimensions are to be checked and confirmed prior to any construction
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Deepu Sudha & Jisha Sheela
Lot 171
Belfast Development
Belfast, Christchurch

Job Number:
139466

Original Plat
Harrier

Sheet Name:

BATHROOM DETAILS

CONSENT PLANS

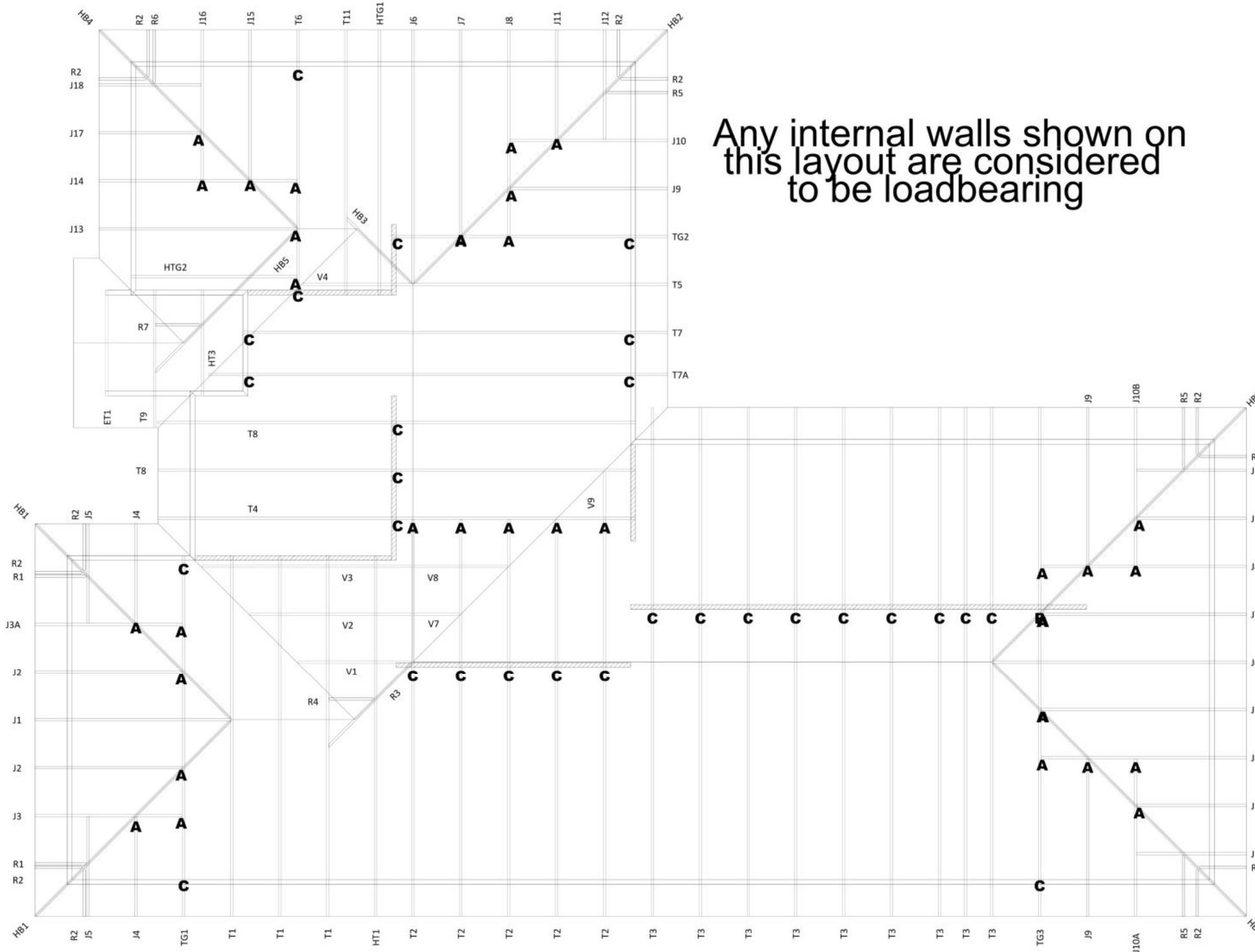
Sheet No.:
21

of 23 sheets

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.



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.

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Lot 171
Belfast Development
Belfast, Christchurch

Job Number:
139466

Sales: L Caldwell	Drawn: M Glynn	QS: S Liu	Print Date: 16/11/2021	Scale: NTS @ A3
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TRUSS DESIGN

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BCN/2022/2319
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Page 22 of 29

CARTERS
Carters National Office
0800 Carters

07/07/2020

Maher, Kevin

JOB No 353081C1

Client: TKR Homes Limited | T/A Signature H
Job: D Sudha & J Sheela
Site: Lot 171 Belfast Development
Belfast
Christchurch

Pitch: 25.0deg
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 Bruce Barrow | 14 Sep, 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 LLok 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 joints.

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

Sheet No.:
22

of 23 sheets

BUILDABLE CONSENT LAYOUT

CARTERS

Christchurch City Council



Page 23 of 29

Your Building Partner

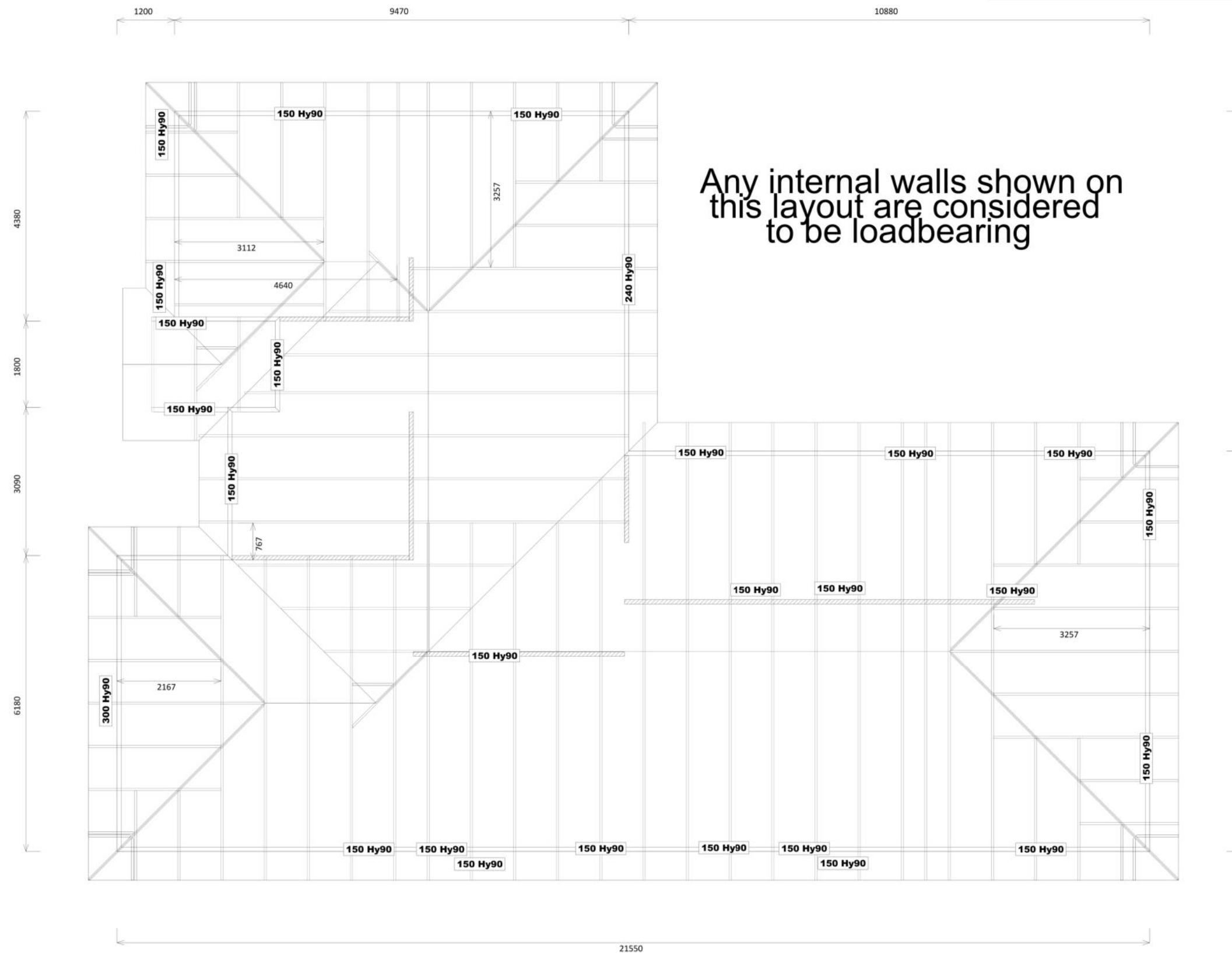
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Document

7/07/2020

Maher, Kevin



Any internal walls shown on this layout are considered to be loadbearing

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

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Lot 171
Belfast Development
Belfast, Christchurch

Job Number:
139466

Original Plan:
Harrier

Sheet Name:
TRUSS DESIGN

Sales:

Drawn:

QS:

L Caldwell

M Glynn

S Liu

Print Date:
16/11/2021

Scale:

NTS @ A3

CONSENT PLANS

No.	Date:	Reason:
1	16-11-2021	Initial Consent Plans

Sheet No.:
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ENGCO
Consulting Engineers

Proposed New Dwelling

Lot 171 Belfast Subdivision

RIBRAFT DRAWINGS

File Number 21008.187

Sheet No.	Rev	Date Issued	Sheet Title	Date	Description
S1	-	26/10/2021	General Notes		
S2	-	26/10/2021	RibRaft Foundation Plan		
S3	-	26/10/2021	Typical Foundation Sections		
S4	-	26/10/2021	Typical Foundation Sections		
S5	-	26/10/2021	Typical Services Penetration Details	26/10/2021	For Consent

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.

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 $f_{r,1}$ & $f_{r,4,K}$ shall be 1.5 MPa & 1.0 MPa respectively.

REINFORCEMENT

- All reinforcing shall be New Zealand sourced and conform to AS/NZS 4671:2001 in grade 300 or grade 500E.
- All bends to be made cold without fracture.
- 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 otherwise noted).
- All reinforcement to be fixed & tied where necessary in its specified position.
- Welding of steel is not permitted.
- Spacers:
 - 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).

contractor shall verify all dimensions before commencing work
Christchurch City Council
BCN/2022/2319
Approved Building Consent Document
07/07/2022
Maher, Kevin

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

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

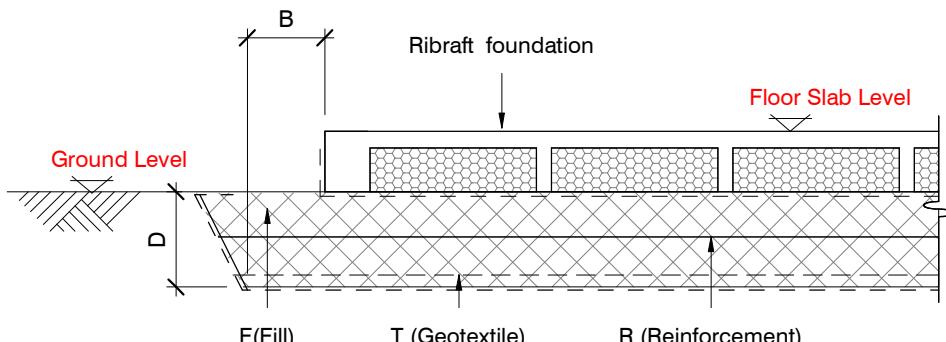
GEOTECHNICAL REFERENCE:

Refer: ENGEO - Lot 171 Belfast Village Stage 1B

Ref. No: 19120.000.001.57

Dated: 12-Oct-21

Confirm Ultimate Bearing Capacity after site stripping > 200 kPa



BUILDING PLATFORM

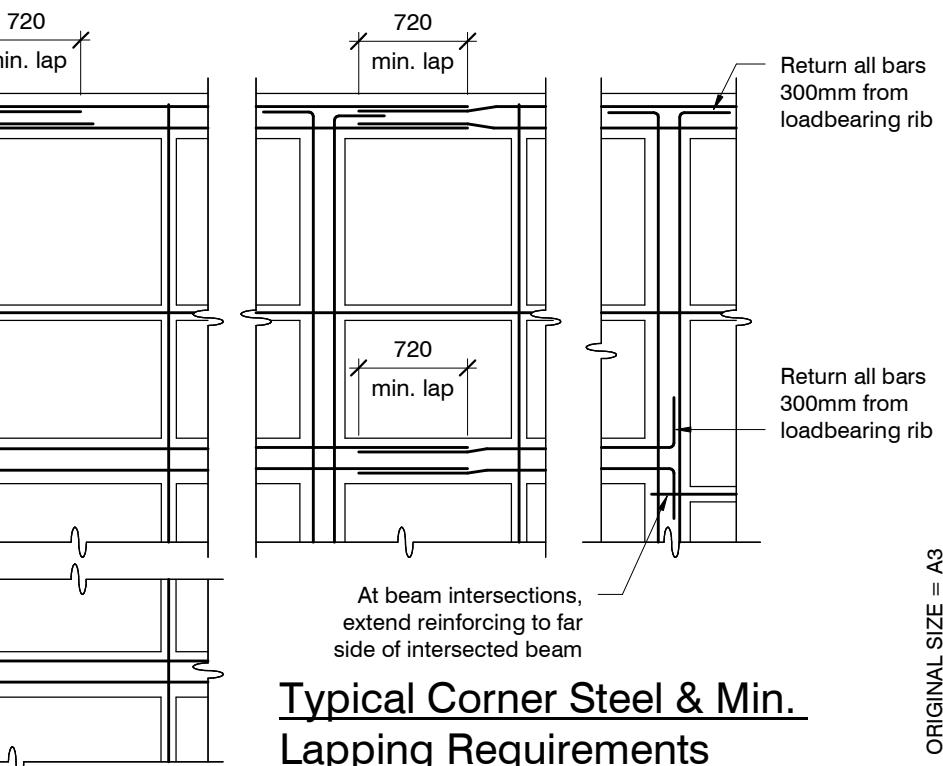
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Proposed New Dwelling

Lot 171 Belfast Subdivision



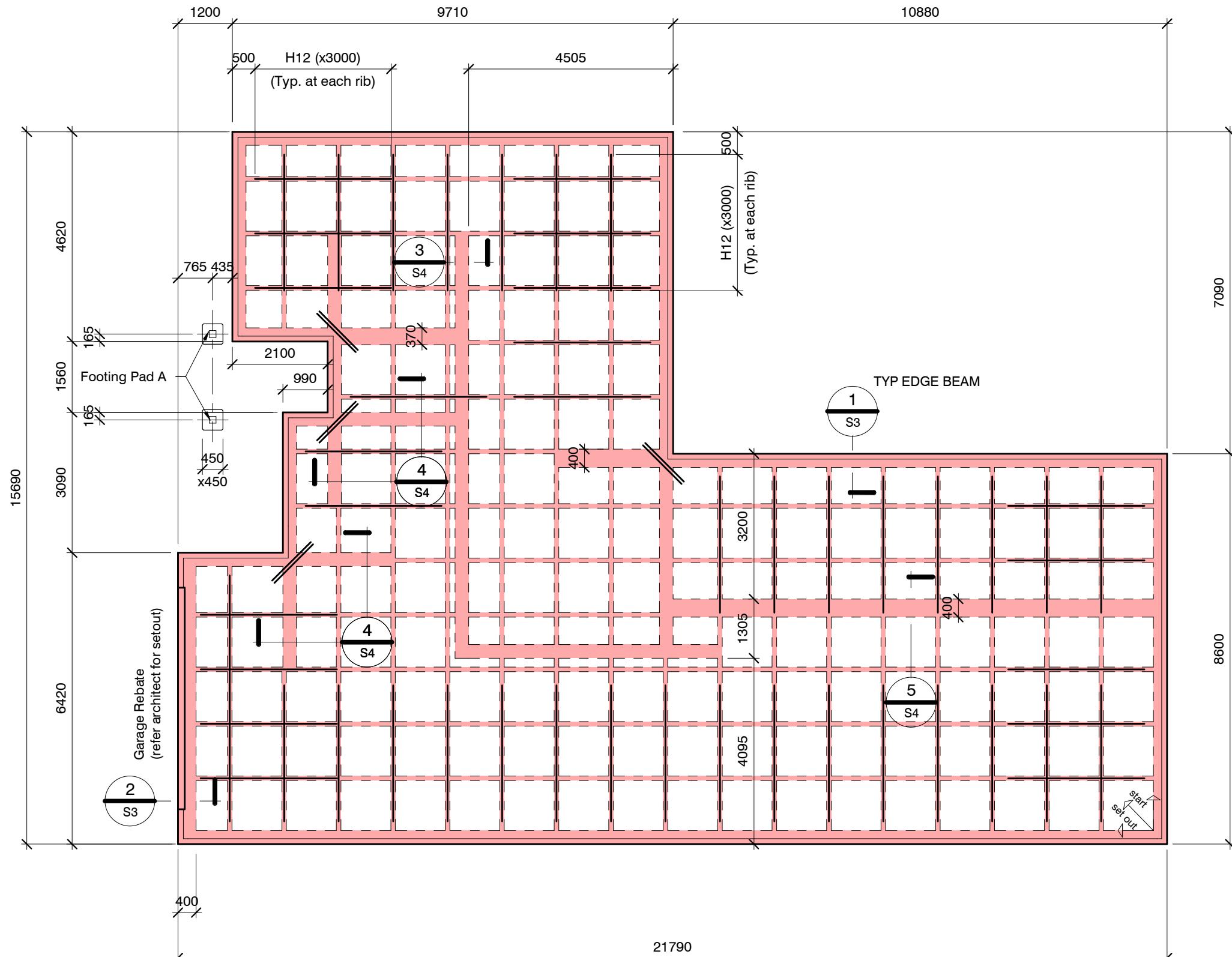
Typical Corner Steel & Min. Lapping Requirements

N.T.S.

	-	26/10/2021	For Consent
revisions			

design K. Zareei
drawn R. Maia
appvd M. Cusiel
date 25/10/2021

file 21008.187
dwg S1
rev. -



RIBRAFT FOUNDATION PLAN

1 : 100

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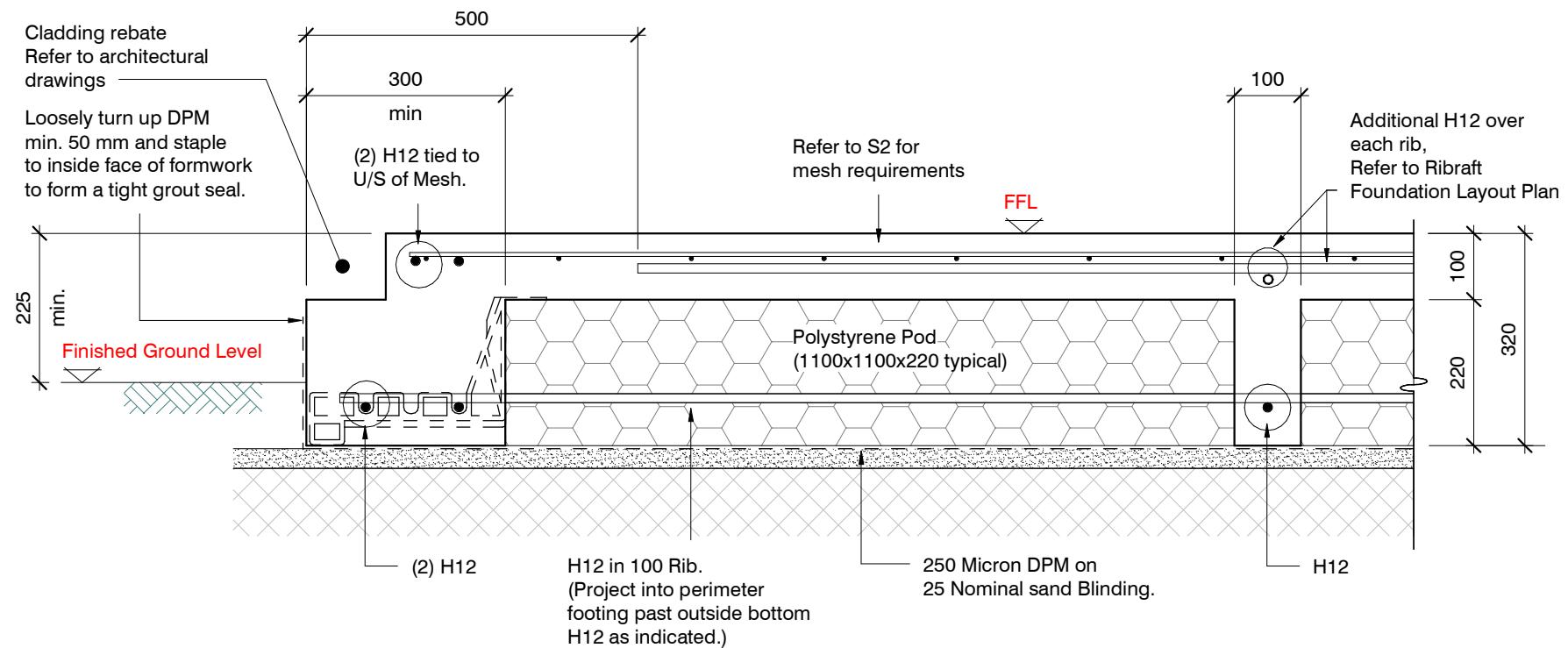
Proposed New Dwelling

Lot 171 Belfast Subdivision

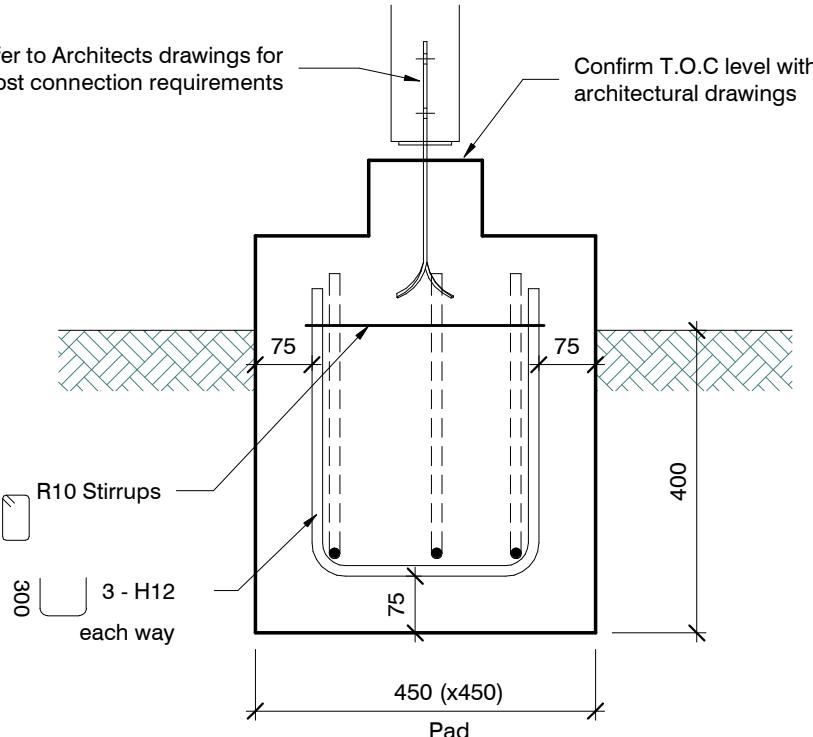
RibRaft Foundation Plan

-	26/10/2021	For Consent

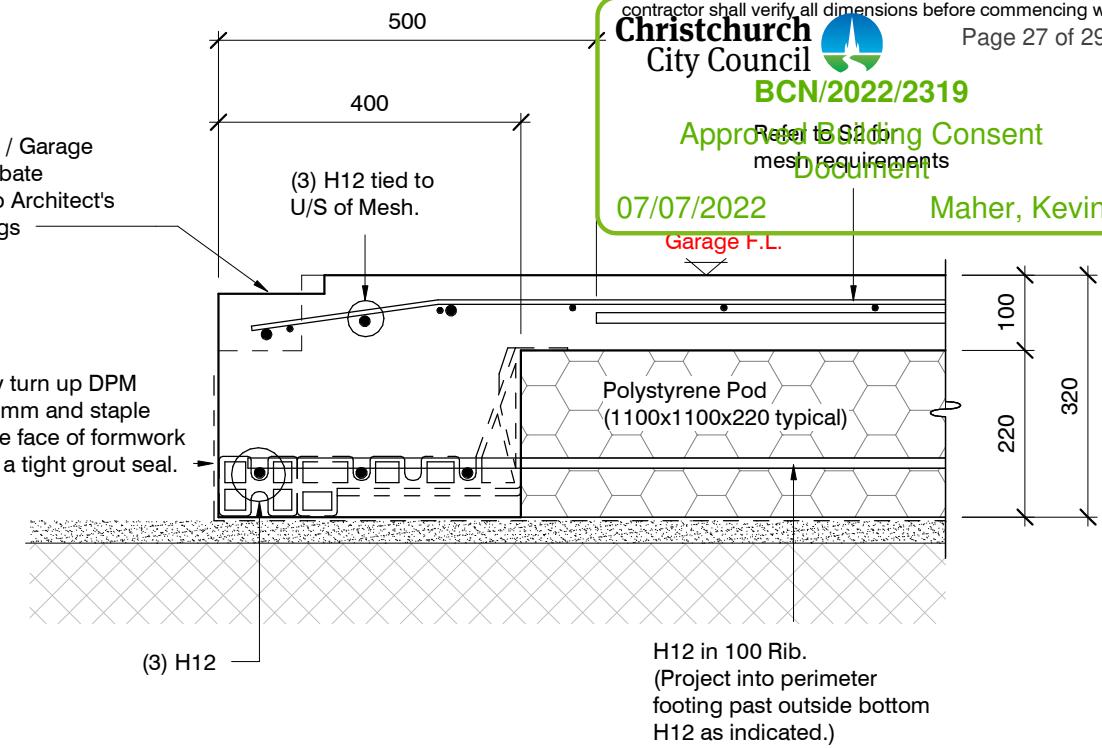
design	K. Zareei	file	21008.187
drawn	R. Maia	dwg	rev.
appvd	M. Cusiel	S2	-
date	25/10/2021		



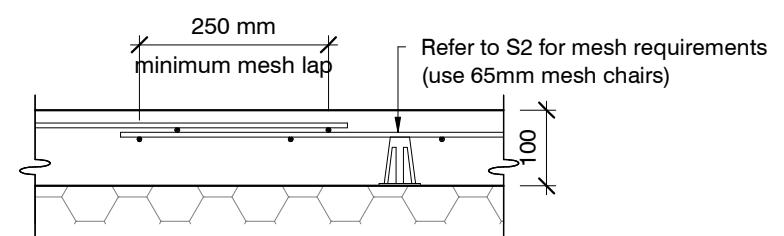
SECTION 1 TYPICAL 300 WIDE EDGE BEAM



TYPICAL PAD A



SECTION 2 GARAGE DOOR REBATE



TYPICAL MESH LAP & CHAIR REQUIREMENTS

ORIGINAL SIZE = A3

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Lot 171 Belfast Subdivision

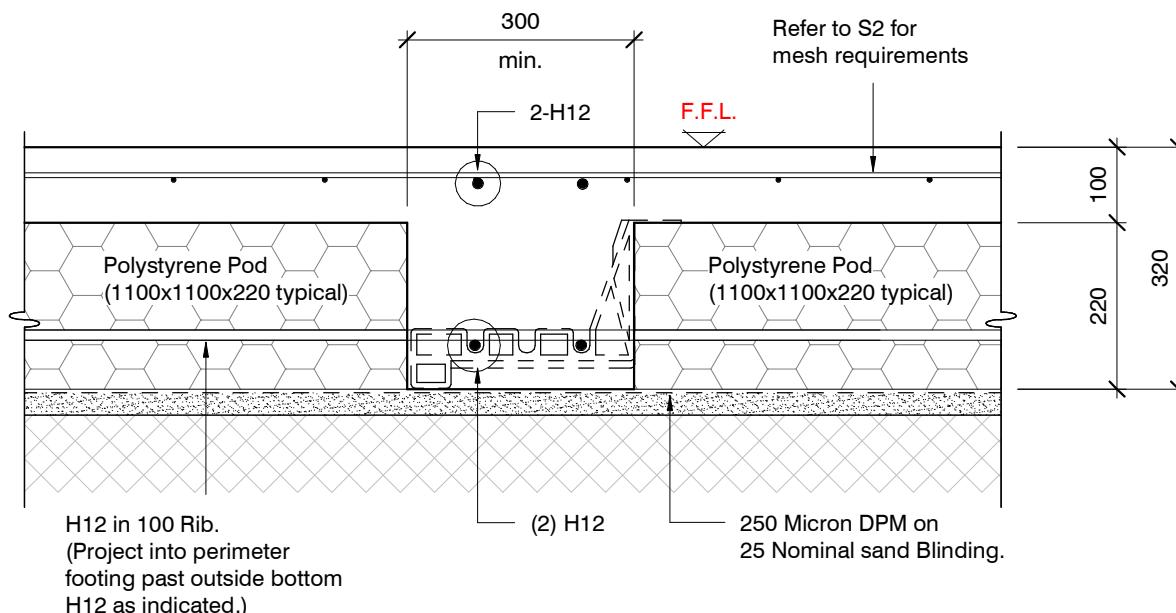
Typical Foundation Sections

revisions	-	26/10/2021	For Consent
design	K. Zareei		
drawn	R. Maia		
appvd	M. Cusiel		
date	25/10/2021		

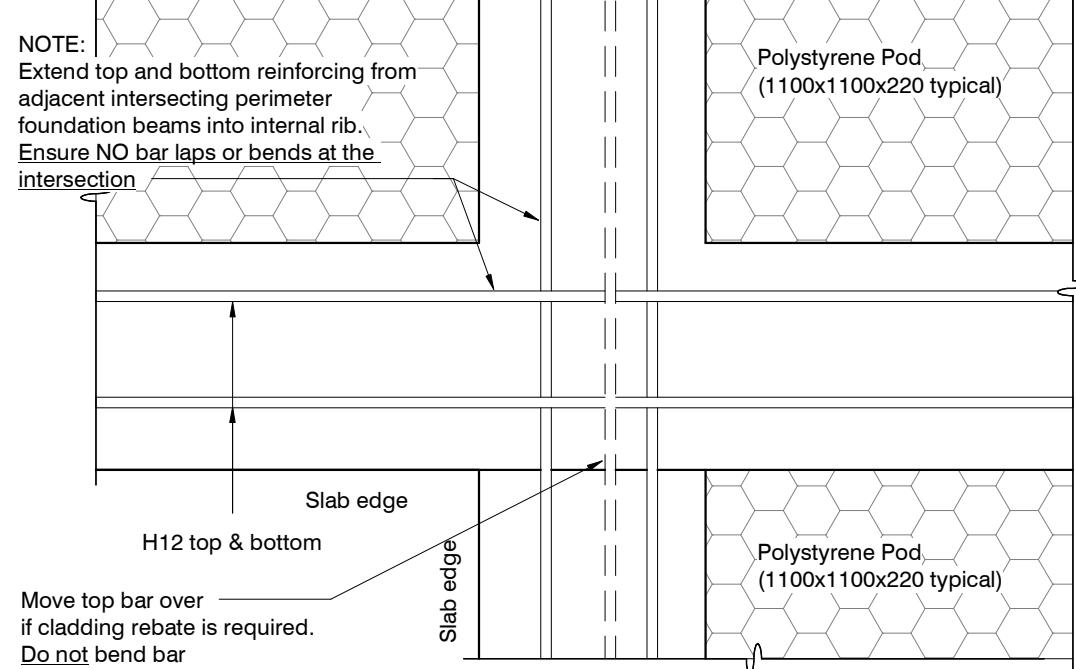
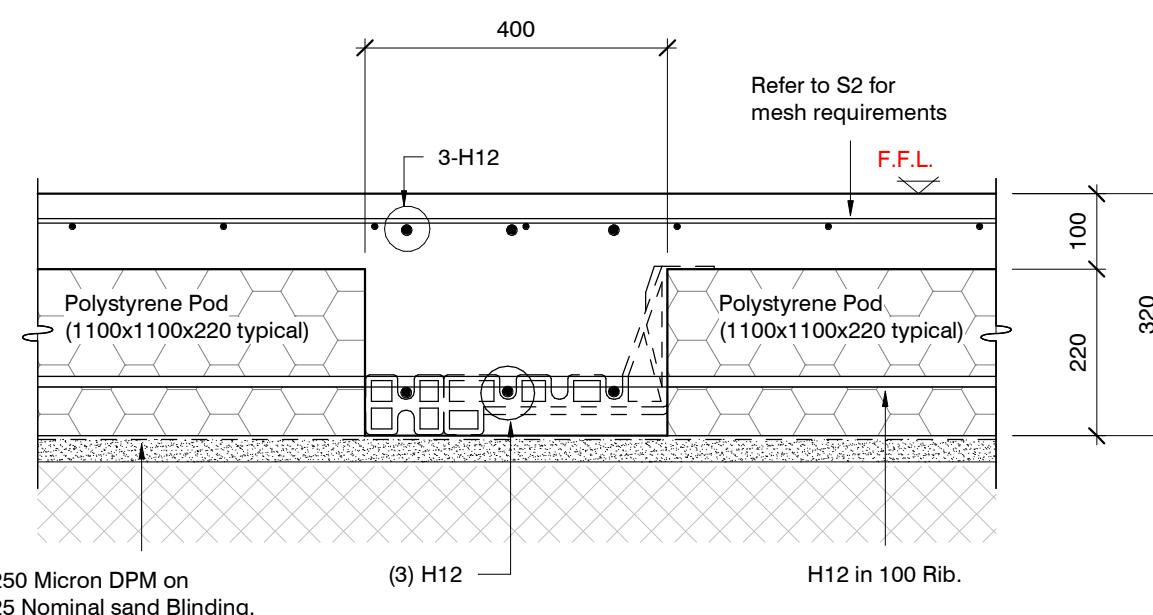
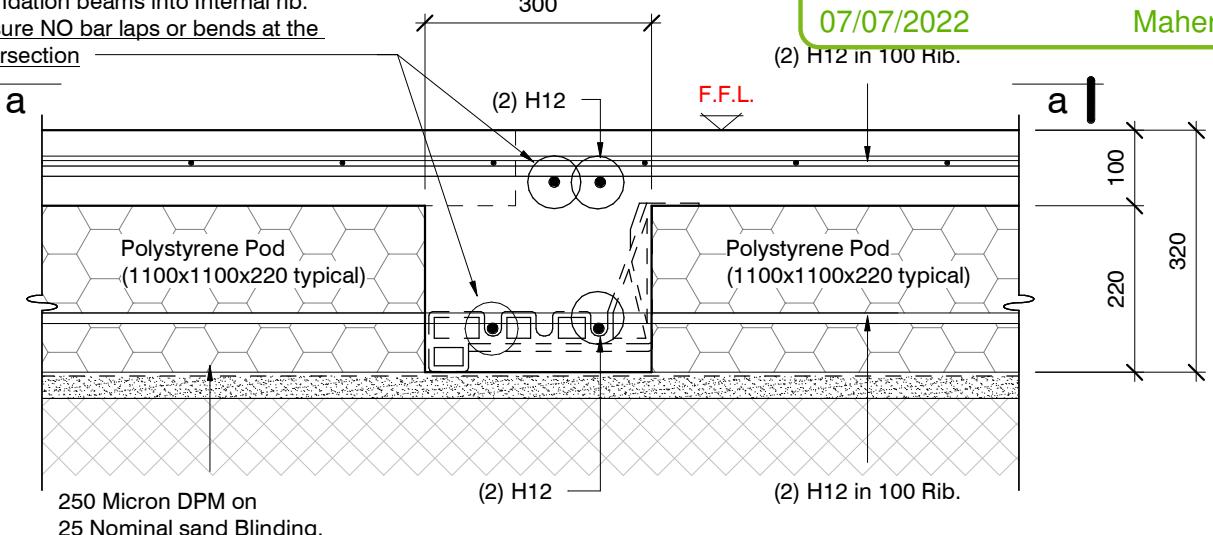
file 21008.187
dwg S3 rev. -

07/07/2022

Maher, Kevin



NOTE:
Extend top and bottom reinforcing from adjacent intersecting perimeter foundation beams into Internal rib.
Ensure NO bar laps or bends at the intersection



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Proposed New Dwelling
Lot 171 Belfast Subdivision

Typical Foundation Sections

revisions	-	26/10/2021	For Consent
design	K. Zareei		
drawn	R. Maia		
appvd	M. Cusiel		
date	25/10/2021		
dwg	21008.187		
rev.	S4		

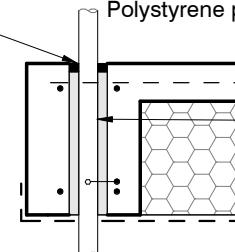
07/07/2022

(2) H12 Bars at Equal centres

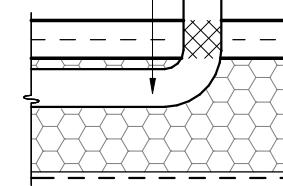
gradually lifted to rest on top of pipe

Maher, Kevin

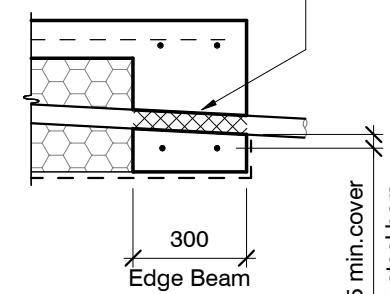
Flexible Sealant as required
all round pipe perimeter
Sleeve 50 mm larger dia. than service pipe
Maximum sleeve dia. 150 mm
located in central part of beam.
Polystyrene packing all around pipe.



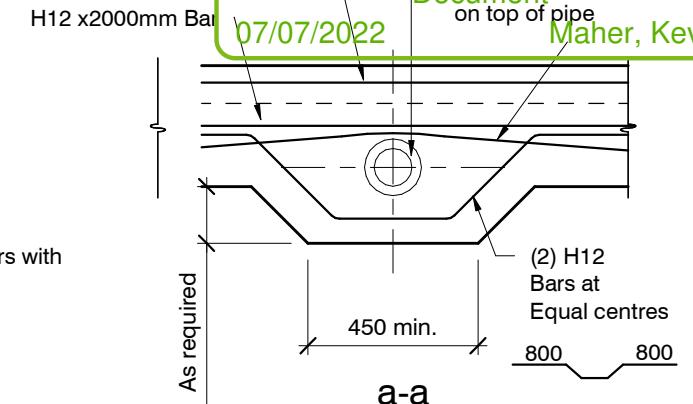
Pipes can be run in Pods under slab panels. (Sleeve not required.)
Wrap in "Lagging" tape where pipe crosses slab



Pass pipe through edge beam
Avoid all reinforcing bars
(Sleeve not required)
Wrap in "Lagging" tape



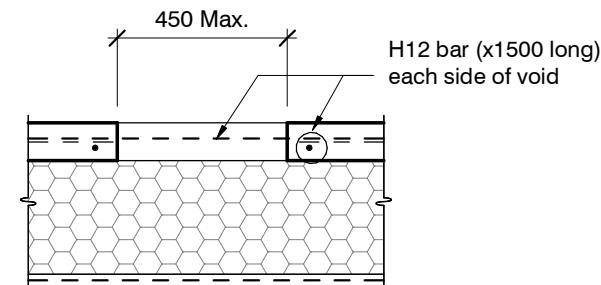
25 min. cover to steel bars
300 Edge Beam
Sewer pipe (dotted)
(2) H12 Bars at Equal centres
800 800
2 -H12 Top Bars
2 -H12 Bottom Bars with 1 -H12 x2000 mm
a
a



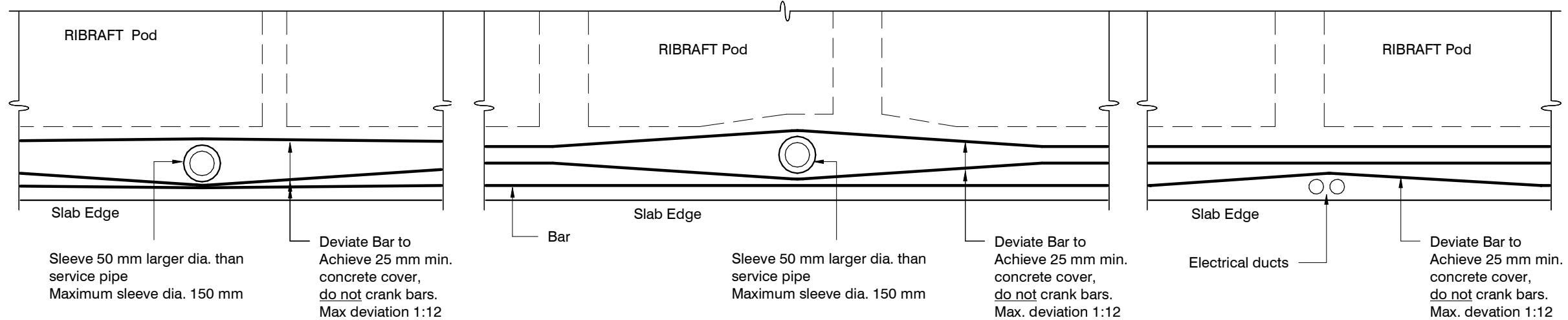
SLAB SERVICES PENETRATION DETAIL

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



ORIGINAL SIZE = A3

Do not cut longitudinal reinforcement bars.

FOUNDATION SERVICES PENETRATION DETAILING.

Services shall not run along ribs or edge beams.

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Proposed New Dwelling
Lot 171 Belfast Subdivision

Typical Services Penetration Details

-	26/10/2021	For Consent

design K. Zareei
drawn R. Maia
appvd M. Cusiel
date 25/10/2021

file 21008.187
dwg S5
rev. -