

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

Building inspections and enquiries phone: 03 347 2839

Please ensure all work for inspection is ready the day before. Incomplete work requiring re-inspection will incur an additional inspection fee.

DRAWING REGISTER

DWG No	Description	Rev	Rev Date	Description
A01	Site Plan	A	26 Feb 2019	Stormwater soakage added
A02	Foundation Plan			
A03	Floor Plan			
A04	Elevations			
A05	Sections			
A06	Finishes Plan			
A07	Schedules			
A08	Bracing Plan			
A09	Bracing Details			
A10	Roof Plan			
A11	Details			
A12	Details			
A13	Details			
A14	Details			
EC1	Electrical Plan			
EC2	Lighting Plan			
PC1	Plumbing & Drainage	A	26 Feb 2019	Stormwater discharge revised

SDC - Approved Building Consent Document - BC190039 - Page 2 of 27 - 26/02/2019

PROJECT INFORMATION

Territorial Authority: Selwyn District Council
 Building Consent Number: **BC190039**
 Legal Description: Lot38 DP

Selwyn District Plan
 Zone: Living Z

Wind Region : A Wind Zone : **H**
 Ground Roughness : **O** Corrosion Zone : **C**
 Site Exposure : **E** Earthquake Zone : **2**
 Topographic Class : T1 Climate Zone : **3**
 Subsoil Classification: **E** Approx. Altitude : **14m**
 Snow Zone : N4 Snow Loading : **1kPa**

KEY

Urban / Open · Sheltered / Exposed · Low / Medium / High /
 Very High / Extra High / Specific Engineer Design
 Subsoil Classification Classes
A-Strong Rock · **B**-Rock · **C**-Shallow · **D**-Deep/Soft · **E**-Very Soft

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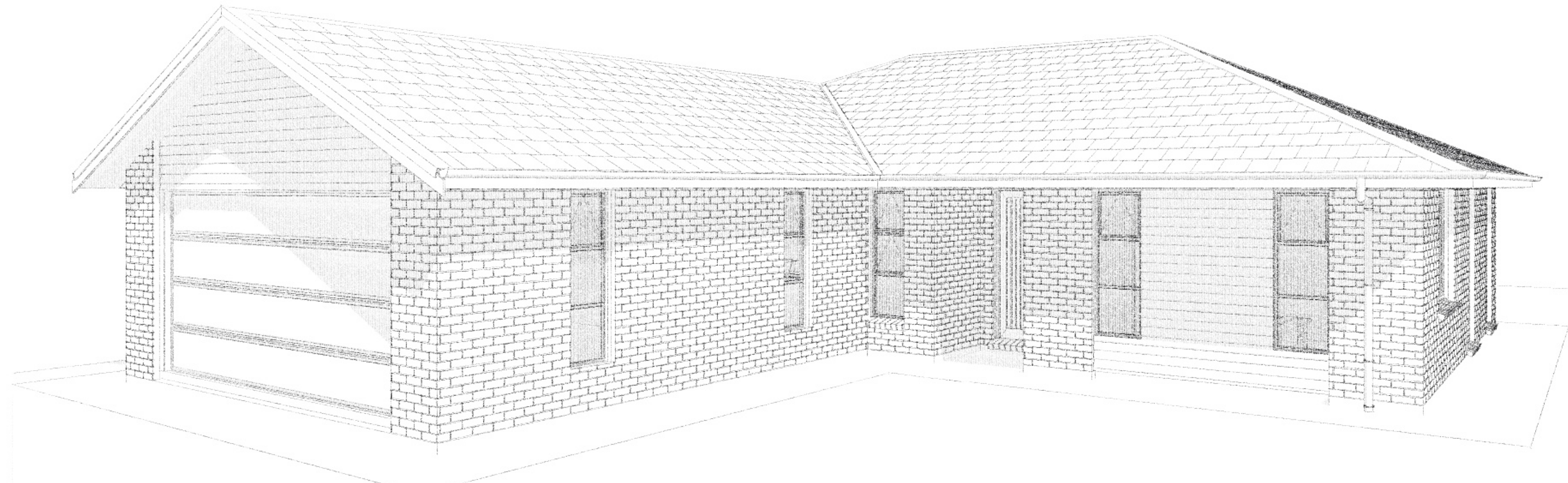
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All Dimensions and levels are to be checked by contractor before commencement of work. Contractor to report any discrepancy.

**BUILDING
 CONSENT**

**Boorer & Seldon Dwelling,
 Lot 38,
 Barton Fields.**



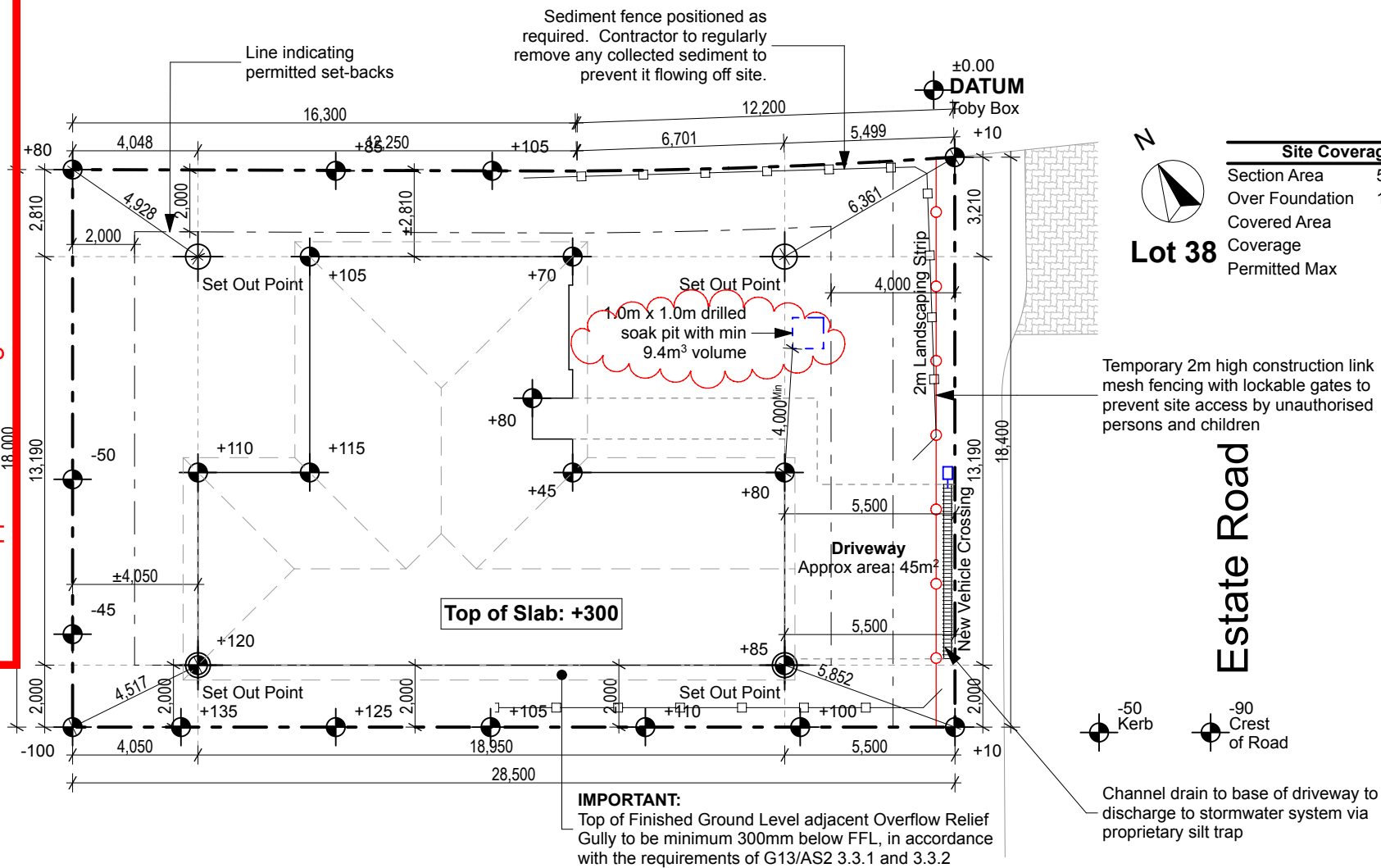
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Sheet Index		REVISION NO.
JOB No:	860452	A
SHEET SIZE:	A3	
DRAWN:	BS	
PRINTED:	26 Feb 19	
G.J. Gardner. HOMES		

Resource Consent # 195038
has been granted on 12/02/2019

BUILDING
CONSENT

Boorer & Seldon Dwelling,
Lot 38,
Barton Fields.



Site Coverage	
Section Area	514.00m ²
Over Foundation	173.52m ²
Covered Area	1.55m ²
Coverage	34.06%
Permitted Max	40.00%

STORMWATER TO DRIVEWAY / PATIOS:
Contractor to ensure stormwater falls away from the dwelling with a gradient of minimum 1:50. Stormwater to discharge to the garden/lawn on either side.

IMPORTANT:
The finished ground level adjoining the concrete floor slab shall be formed so as to carry water away from the building, at a slope of not less than 1 in 25, for a distance of at least 1m from the building.

SERVICES:
Stormwater and Foul water placement information not available at this stage. Drainlayer to verify position prior to placement of drains. Access point to be provided to drains immediately inside the boundary.

CONSTRUCTION SAFETY:
Ensure existing boundary fencing to sides and rear of section is adequate to prevent site access by unauthorised persons and children.

Ensure toeboards for preventing objects falling off storage or access platforms are at least as high as the materials stacked on the platform, and no less than 100 mm above the platform. The maximum gap between platform and toeboard shall not exceed 10mm.

SETTING OUT:
Section boundaries as shown were obtained from information received and may not be accurate. Contractor to locate and verify boundary pegs prior to setting out. Any discrepancies to be reported before construction may commence.

Site Plan		A01
JOB No:	860452	
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PRINTED:	26 Feb 19	
G.J. Gardner. HOMES		REVISION NO. A

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**BUILDING
 CONSENT**

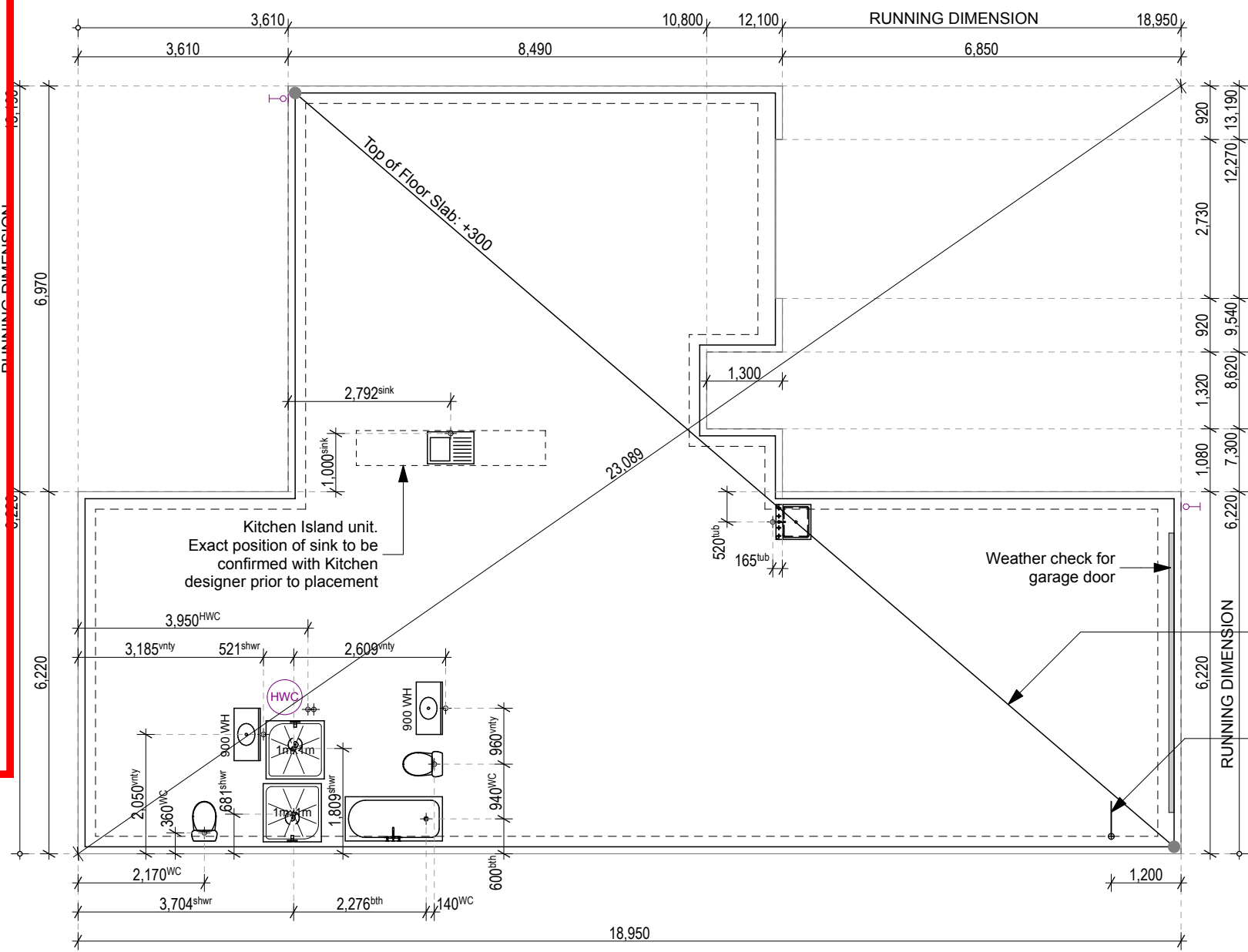
Boorer & Seldon Dwelling,
 Lot 38,
 Barton Fields.

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DIMENSIONS:
 All dimensions are linear measurements, unless noted otherwise.

IMPORTANT:
 This drawing to be read in conjunction with the Engineer's drawings and details.

SERVICES:
 Install 50mmØ Alkathene ducts as required for polyethylene water main, TPS 16mm² neutral screened mains cable, and the fibre pro active ducting.



Floor Area: 175.0m²
 (over foundations)

Super Slab floor system on 250mu polythene DPC, on 20mm sand blinding. All as per Engineer's details.

R10 Starter bar connected to mesh to earth Meterbox to slab. All as per Electrician's details and specifications.

Note:
 Wastes to vanities and Laundry tub to be positioned in walls - refer plan (sheet A03)

FOUNDATION PLAN
 SCALE 1:100 (A3)

Foundation Plan		A02
JOB No:	860452	
SHEET SIZE:	A3	REVISION NO. -
DRAWN:	BS	
PRINTED:	20 Dec 18	
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H1 COMPLIANCE

TOTAL
 Wall Area : 134.41m²
 Glazing Area: 33.86m²
 Percentage of glazing to wall area: 25.19%

East, South and West Walls

Wall Area : 98.98m²
 Glazing Area: 22.80m²
 Percentage of glazing to wall area: 23.03%

Skylights

Glazing Area: 0.00m²

Construction R-Values to new elements

FLOOR

Waffle Pod without perimeter insulation
 Area/Perimeter Ratio: R2.2
 Total Construction R-Value: **R1.3**

ROOF - Pitched Timber Framed

90mm bottom chord, trusses at 900crs
 Insulation material R-Value: R3.6
 Total Construction R-Value: **R3.4**

GLAZING

All Vertical glazing to be IGU's with WERS
 R-Value of ≥ 0.26 (double glazed)

WALLS - Brick Veneer

90mm Timber framed (cavity)
 - studs at 600crs, dwangs @ 1200crs
 Insulation material R-Value: R2.6
 Total Construction R-Value: **>R2.2**

WALLS - LINEA Weatherboard

90mm Timber framed (cavity)
 - studs at 600crs, dwangs @ 800crs
 Insulation material R-Value: R2.6
 Total Construction R-Value: **R2.3**

Therefore dwelling complies with the Schedule Method (Garage excluded)
 NOTE - Walls separating Garage from the rest of the dwelling to be insulated with R2.6 Wall batt insulation

NOTES

FRAMING - GENERAL

Unless specified otherwise,
 - all structural framing is graded SG8 and treated H1.2,
 - 90x45 studs at 600crs, dwangs at max 1,350crs
 (staggered in accordance with GIB requirements):
 Thermal insulated walls (R2.6)
 Uninsulated walls
 Internal walls with Silencer batt insulation

ENTRY ROOF STRUCTURE

140x90 H1.2 SG8 lintel beam fixed to wall framing on side as per LUMBERLOK lintel fixing type F.

ACCESS WAYS

Steps at entrance ways to have a maximum riser height of 180mm.

BRICK PIERS < 230mm

Tie every second brick where piers are less than 230mm in width. No piers are to support veneer lintels.

SURFACES FINISHES

Entry access route to be broomed or wood float finished concrete, in accordance with NZBC D1/AS1.

Non-slip floor coverings to be installed in wet areas, in accordance with NZBC D1/AS1.

Food preparation surfaces shall consist of high pressure laminate, stainless steel or tiles to be easily maintained in a hygienic condition.

Walls and ceiling linings to wet areas (including wall behind the hob) to have impervious joints or fixed over an impervious substrate, and finished with vinyl coated wallpaper, or semi-gloss or gloss coating.

KITCHEN SINK

The pipe from the HWC to the Kitchen sink to be max 15mmØ with lagged insulation along its entire length.

RANGE HOOD

Range Hood (as per Owners' selection) to be extracted directly to the outside, and installed in accordance with manufacturer's and E2/AS1 requirements.

Floor Areas	
Over Foundation	175.01 m ²
Outside Framing	167.36 m ²
Inside Framing	161.46 m ²
Roof Area	207.75 m²

LEGEND

- 600x600 Ceiling Access Hatch
- Mains pressure Hot Water Cylinder
- Domestic Smoke Alarm with hush button
- Internal Meter Box
- Distribution Board
- Mechanical Ventilation
- Heatpump (Internal unit)
- Heatpump (External unit)
- Hose Tap

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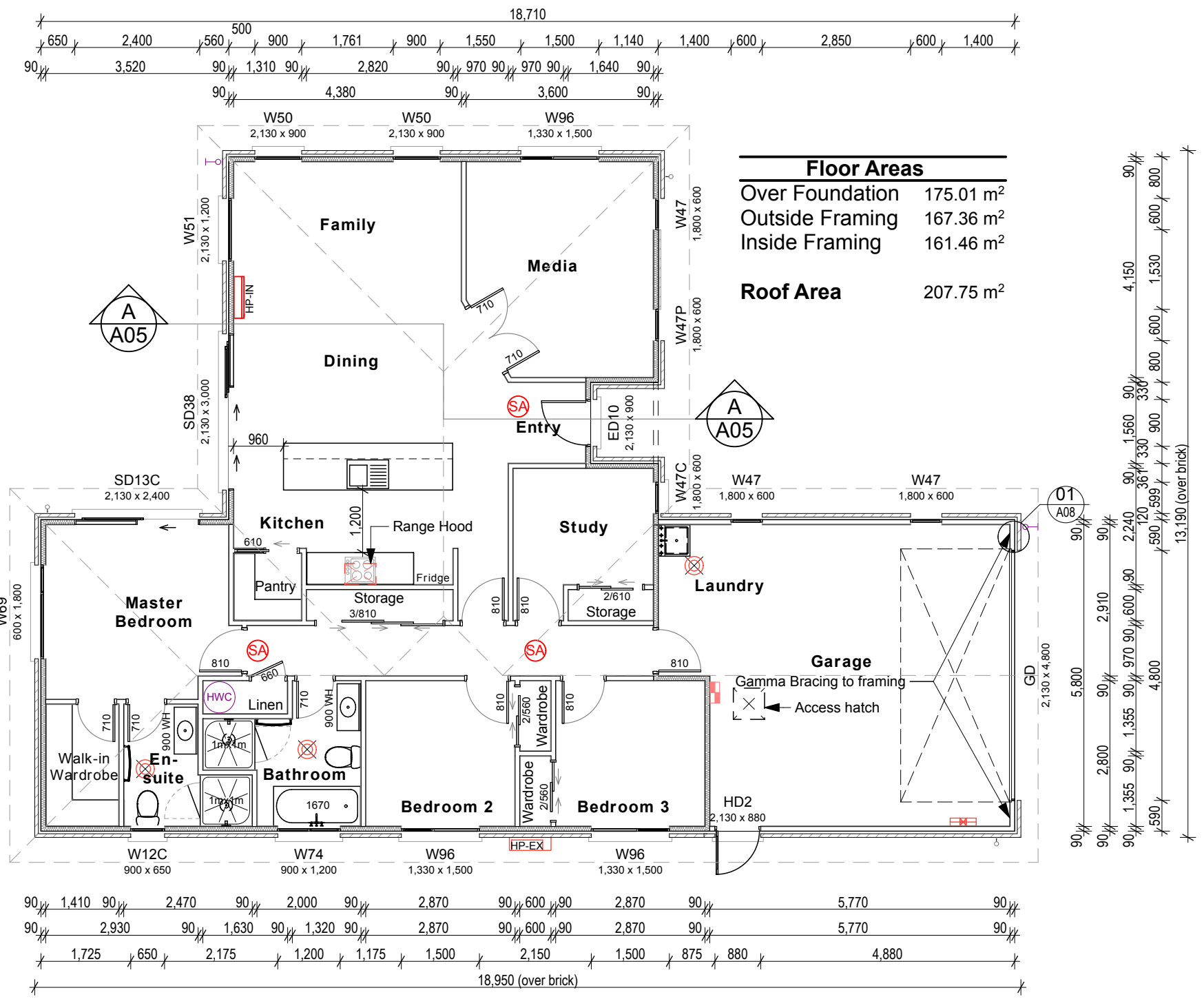
BUILDING
CONSENT

Boorer & Seldon Dwelling,
Lot 38, Barton Fields.

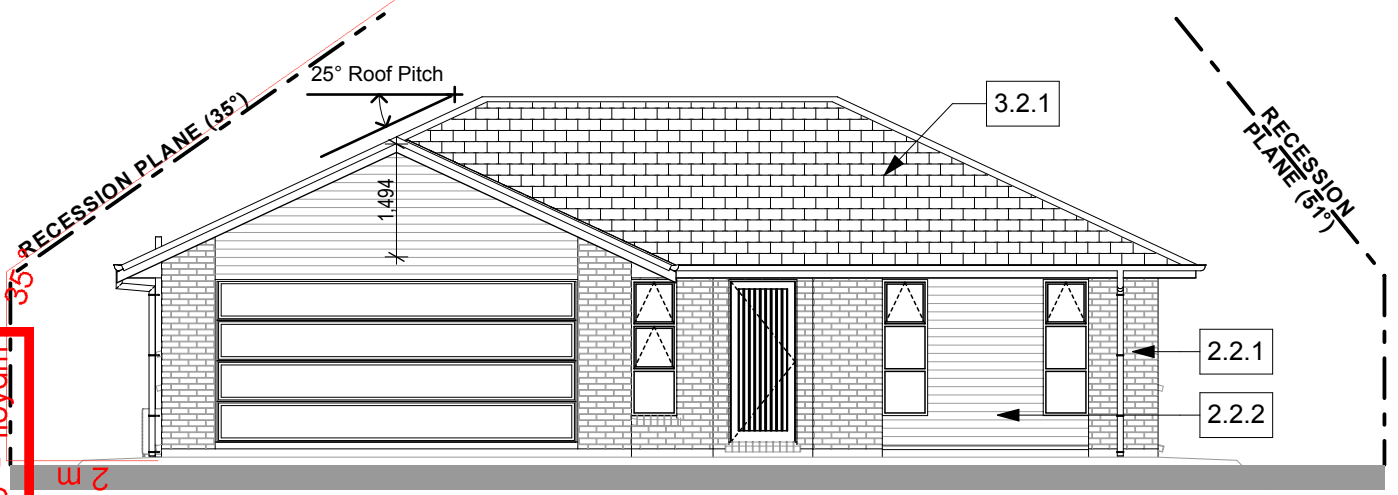
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Floor Plan	
JOB No:	860452
SHEET SIZE:	A3
DRAWN:	BS
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G.J. Gardner. HOMES	REVISION NO.
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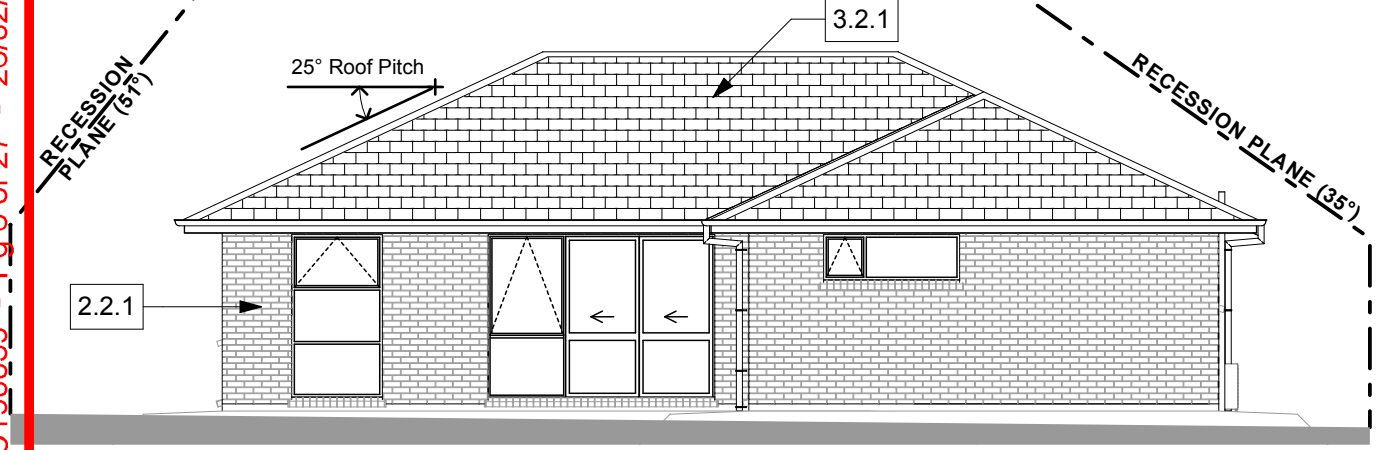
FLOOR PLAN
SCALE 1:100 (A3)



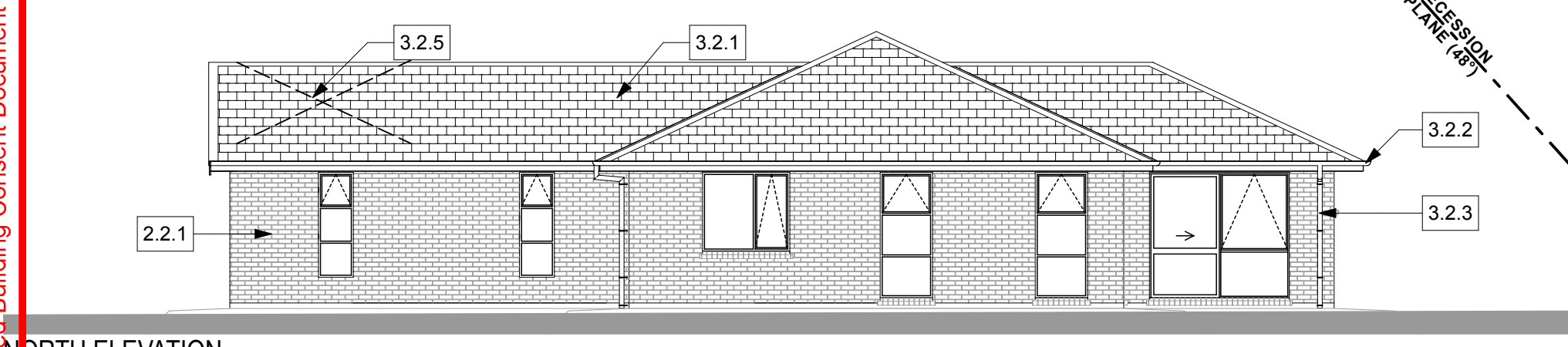
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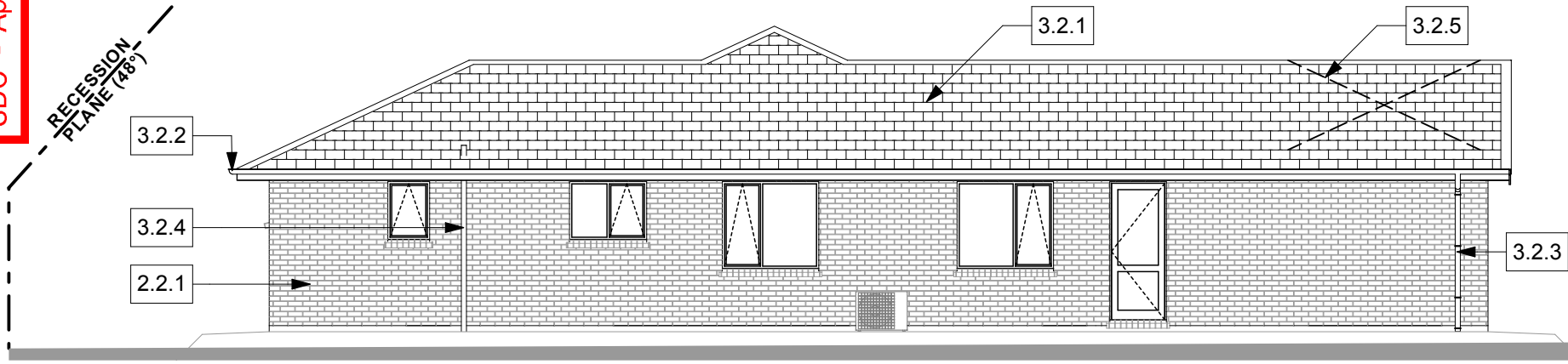
EAST ELEVATION
SCALE 1:100 (A3)



WEST ELEVATION
SCALE 1:100 (A3)



NORTH ELEVATION
SCALE 1:100 (A3)



SOUTH ELEVATION
SCALE 1:100 (A3)

3D Images are indicative only. All materials, colours and finishes to be confirmed prior to manufacture and installation.

CONSTRUCTION NOTES

Details take precedent over other working drawings; any discrepancies to be raised with GJ Gardner Homes Christchurch South.

All materials must be installed in accordance with manufacturer's requirements.

- 2.2.1** 70 Series brick veneer with drained cavity on THERMAKRAFT Watergate Plus 295 wall underlay on 90x45 H1.2 SG8 framing, studs at 600crs.
- 2.2.2** SCYON Linea weatherboard with drained cavity on THERMAKRAFT Watergate Plus 295 wall underlay on 90x45 H1.2 SG8 framing, studs at 600crs, dwangs at max 800crs.
- 3.2.1** Pressed metal tiles on 50x40 H1.2 SG8 battens at 350crs (fixed with 2/90x3.15 gun nails) over SISALATION Bitumac 750 self supporting bituminous roofing underlay.
- 3.2.2** COLORSTEEL fascia with DIMOND Quad SI rainwater system. Minimum 50mm overhang of roofing bent down at edge.
- 3.2.3** Min 74mmØ (Int) COLORSTEEL downpipe
- 3.2.4** 80mmØ uPVC Terminal Vent
- 3.2.5** 25x1mm M/S strap brace with tensioners

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BUILDING CONSENT

Boorer & Seldon Dwelling,
Lot 38,
Barton Fields.

BUILDING ENVELOPE RISK MATRIX		
All Elevations		
Risk Factor	Risk Severity	Risk Score
Wind zone (per NZS 3604)	High risk	1
Number of storeys	Low risk	0
Roof/wall intersection design	Low	0
Eaves width	Medium risk	1
Envelope complexity	Low risk	0
Deck design	Low	0
Total Risk Score:		2

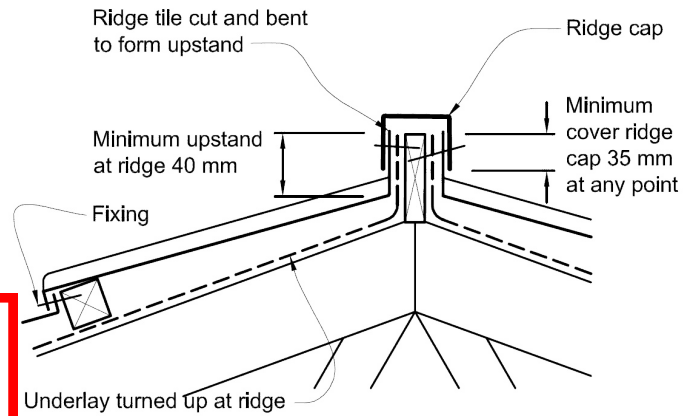
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Elevations

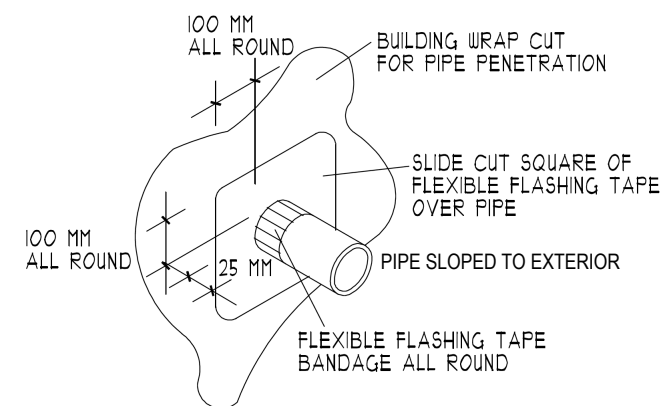
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DRAWN: BS
PRINTED: 20 Dec 18

A04

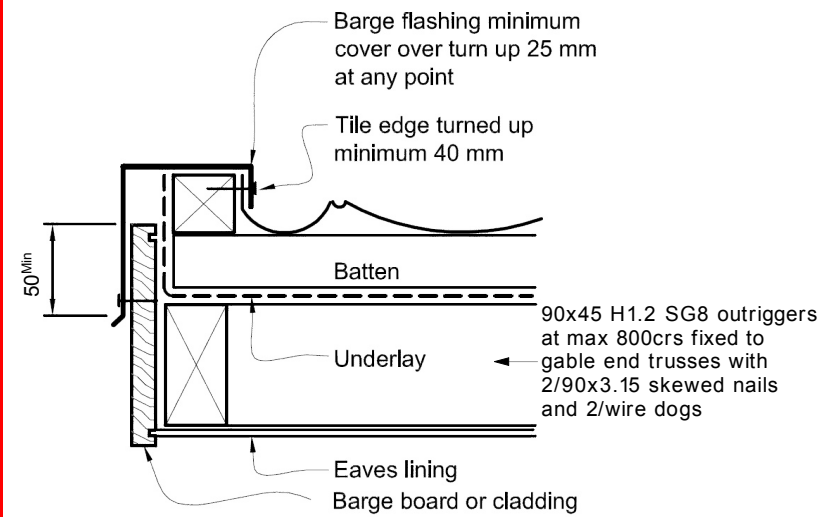
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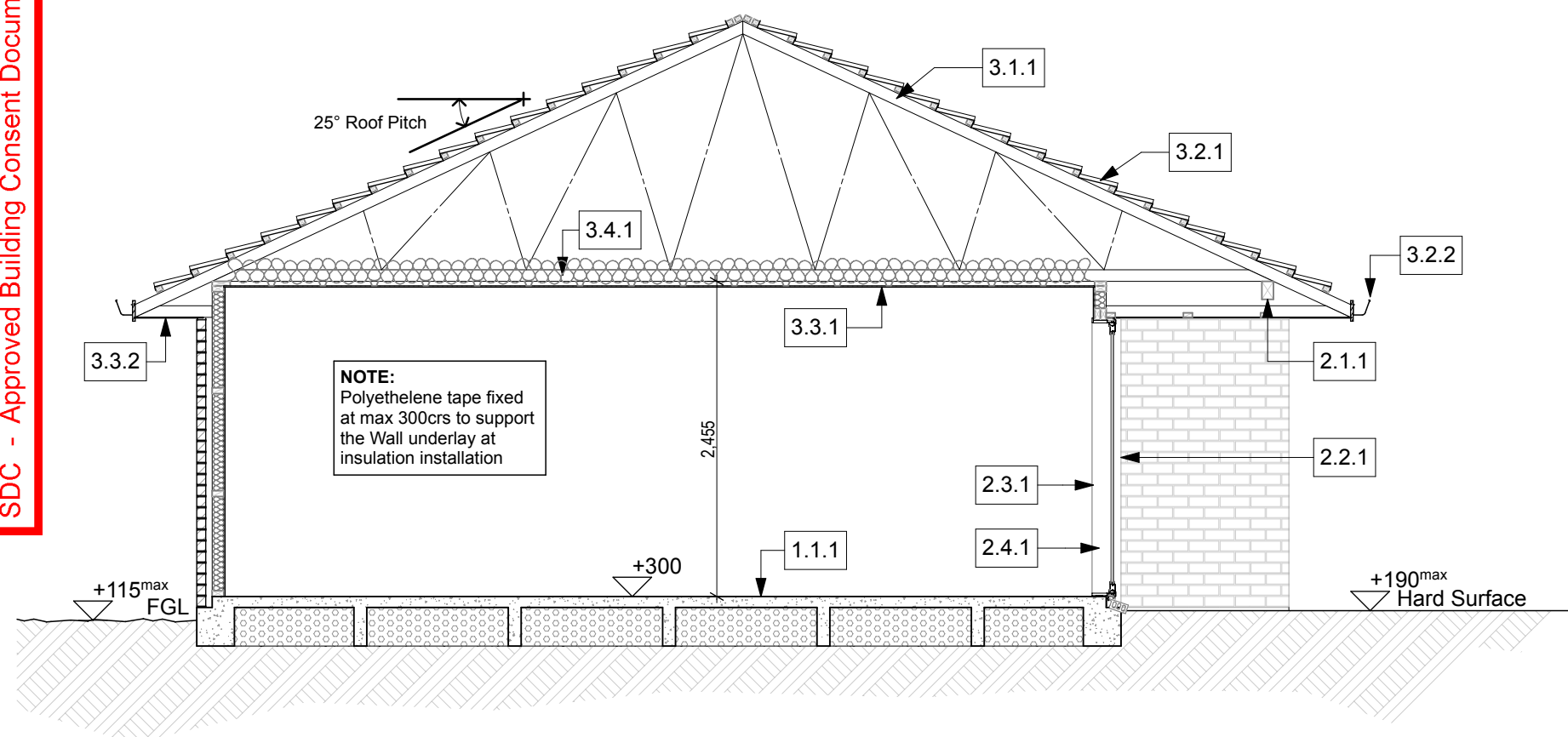
DETAIL | Typical Ridge



DETAIL | Typical Pipe Penetration



DETAIL | Typical Barge



SECTION AA
SCALE 1:50 (A3)

CONSTRUCTION MOISTURE
The maximum moisture contents shall be:
a) For timber framing at the time of installing interior linings, the maximum acceptable moisture content shall be 20%,
b) For timber weatherboards and exterior joinery, 20% at the time of painting,
c) For reconstituted wood products, 18% at all times, and
d) For concrete floors, sufficiently dry to give a relative humidity reading of less than 75% at the time of laying fixed floor coverings.

CONSTRUCTION NOTES

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All materials must be installed in accordance with manufacturer's requirements.

- 1.1.1 Super Slab floor system on 250mu polyethylene DPC, on 20mm sand blinding as per Engineer's details and specifications.
- 2.1.1 140x90 H1.2 SG8 lintel beam fixed as per LUMBERLOK fixing type F.
- 2.2.1 70 Series brick veneer with drained cavity on THERMAKRAFT Watergate Plus 295 wall underlay on 90x45 H1.2 SG8 framing, studs at 600crs.
- 2.3.1 Use 10mm GIB Aqualine to wet areas (with impervious joints) and 10mm GIB Braceline where indicated on the Bracing Plan. 10mm GIB Standard to be used to all other internal walls. All walls stopped to Level 4 finish.
- 2.4.1 R2.6 Wall batt insulation to all external walls except Garage (where batts are installed to internal walls separating the Garage from the rest of the dwelling).
- 3.1.1 H1.2 GANGNAIL trusses fixed with Ceiling Ties and multi-grips in accordance with Truss producer statement & layout.
- 3.2.1 Pressed metal tiles on 50x40 H1.2 SG8 battens at 350crs (fixed with 2/90x3.15 gun nails) over SISALATION Bitumac 750 self supporting bituminous roofing underlay.
- 3.2.2 COLORSTEEL fascia with DIMOND Quad SI rainwater system. Minimum 50mm overhang of roofing bent down at edge.
- 3.3.1 10mm GIB Standard lining to ceilings throughout (with impervious joints to wet areas) on GIB Rondo battens at 400crs shot-fixed to underside of trusses. All ceilings stopped to Level 4 finish.
- 3.3.2 4.5mm JAMES HARDIE Hardieflex sheet lining to eaves (600mm wide)
- 3.4.1 R3.6 Ceiling batt insulation to ceilings throughout, except Garage.

NOTES
i. All footings and slabs and related concrete and steelwork as per Engineer's details and requirements.
ii. All joist hangers, wire dogs, bolts, washers, nails, screws and all other fixings to be galvanised, hot dipped. Except that stainless steel fixings and fastenings to be installed when using CCA treated timber.

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BUILDING CONSENT

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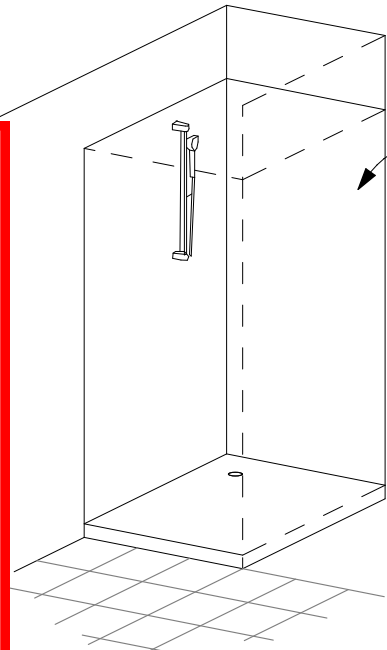
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Sections	
JOB No:	860452
SHEET SIZE:	A3
DRAWN:	BS
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REVISION NO.	-

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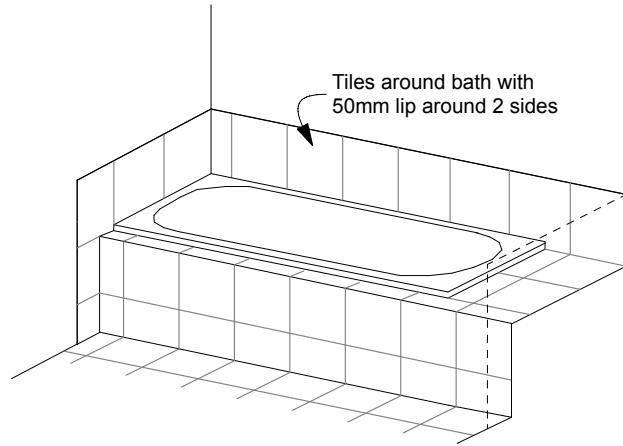
HUMAN IMPACT SAFETY REQUIREMENTS

Glazing in bathrooms and en-suites shall be safety glass:
 - Fully framed windows and shower doors, screens and enclosures shall be safety glass as per NZS4223.3:2016 Table 1.
 - Unframed panes or panels or shower doors using pivots or hinges shall be toughened safety glass of not less than 6mm thickness.
 Mirror and glass wall cladding within 2,000mm of the floor level shall be safety glass, unless the glass is fully backed and completely adhered to a solid material.



3 Acrylic walls and tray to shower

ACRYLIC SHOWER



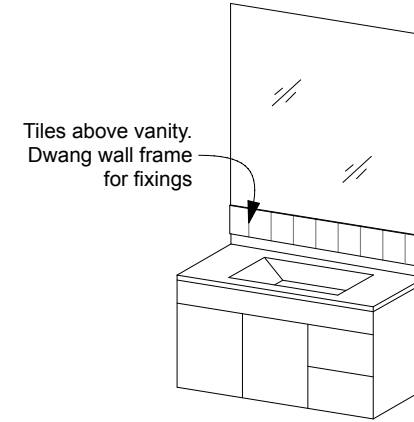
Tiles around bath with 50mm lip around 2 sides

BATH VIEW

WATERPROOFING

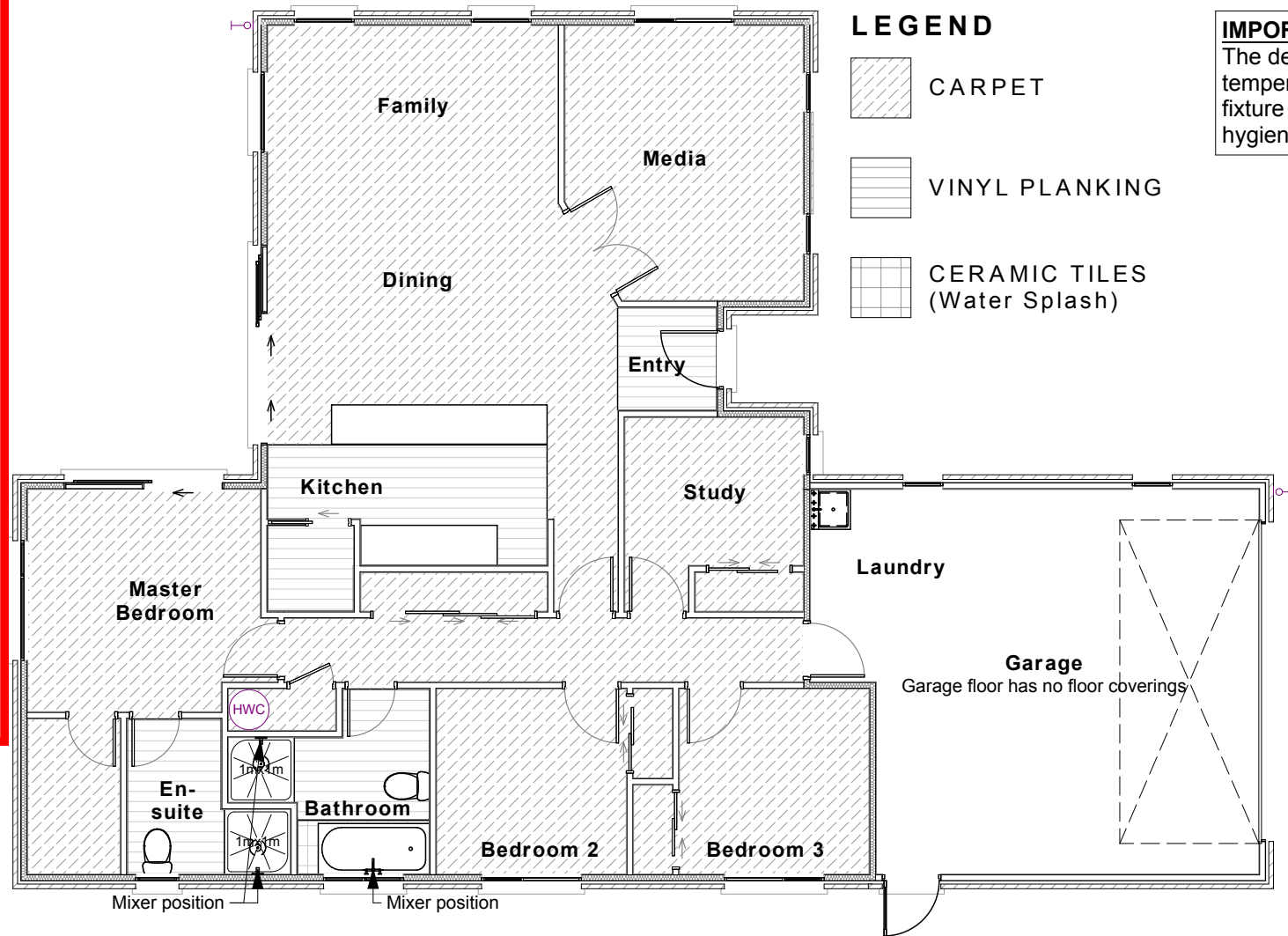
ARDEX Superflex wet area membrane applied to GIB Aqualine prior to tiling in wet areas. All to be installed in accordance with manufacturer's requirements.

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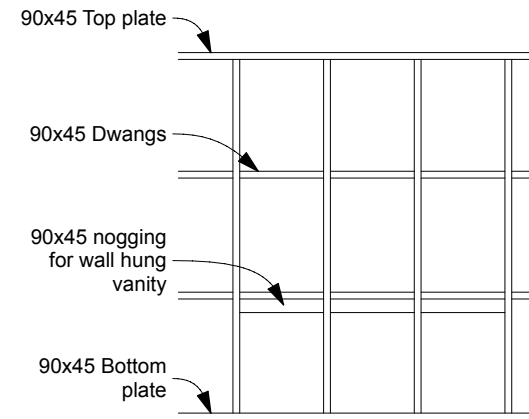
Tiles above vanity. Dwang wall frame for fixings

WALL HUNG VANITY

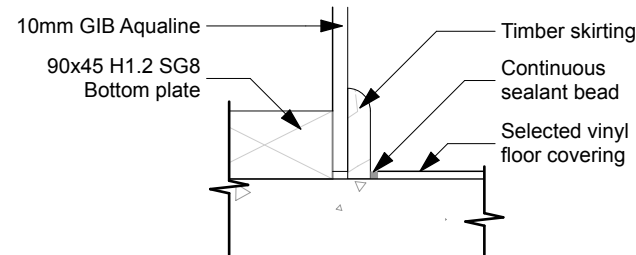


IMPORTANT

The delivered hot water temperature at any sanitary fixture used for personal hygiene shall not exceed 55°



WALL HUNG VANITY NOGGING Scale 1:50



DETAIL | Floor / Wall Junction SCALE 1:5 (A3)

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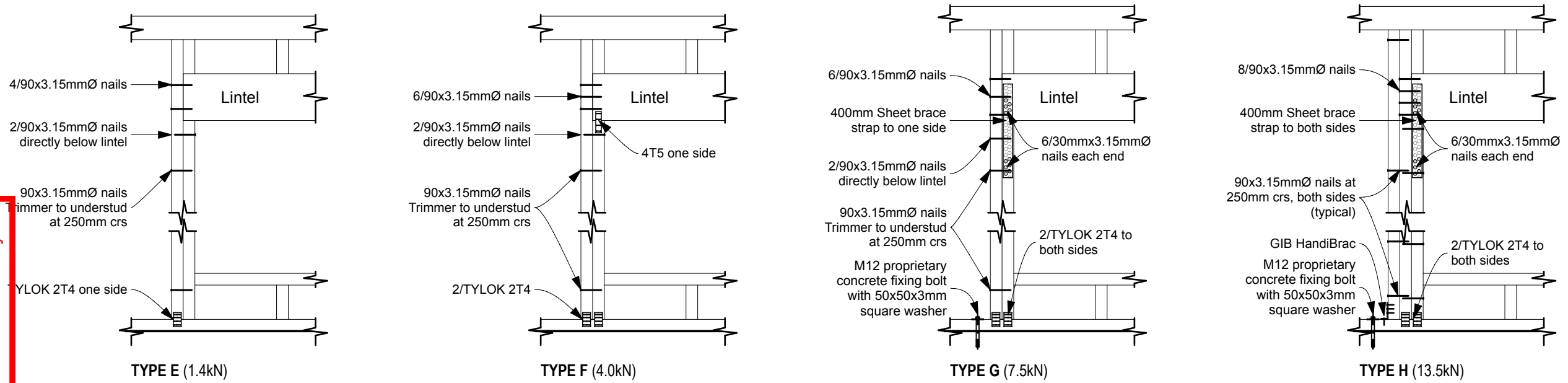
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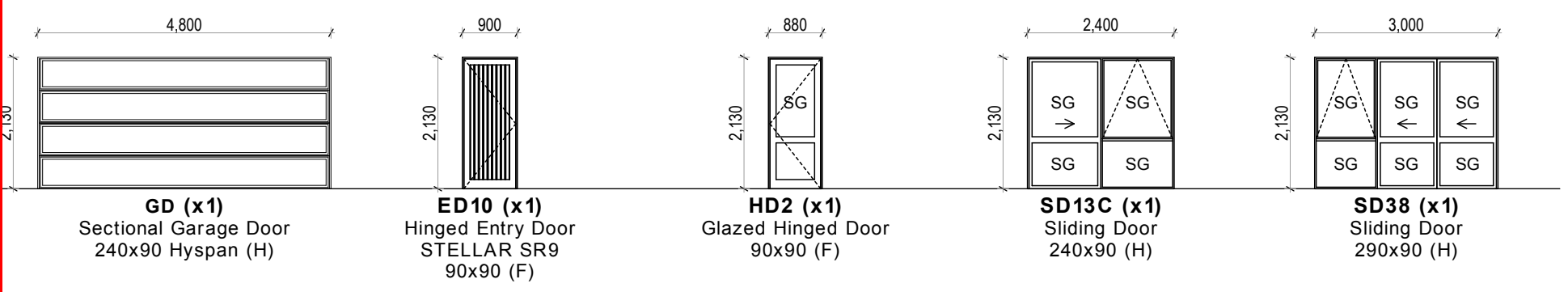
Finishes Plan		A06
JOB No:	860452	
SHEET SIZE:	A3	
DRAWN:	BS	
PRINTED:	20 Dec 18	REVISION NO.
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FINISHES PLAN SCALE 1:100 (A3)

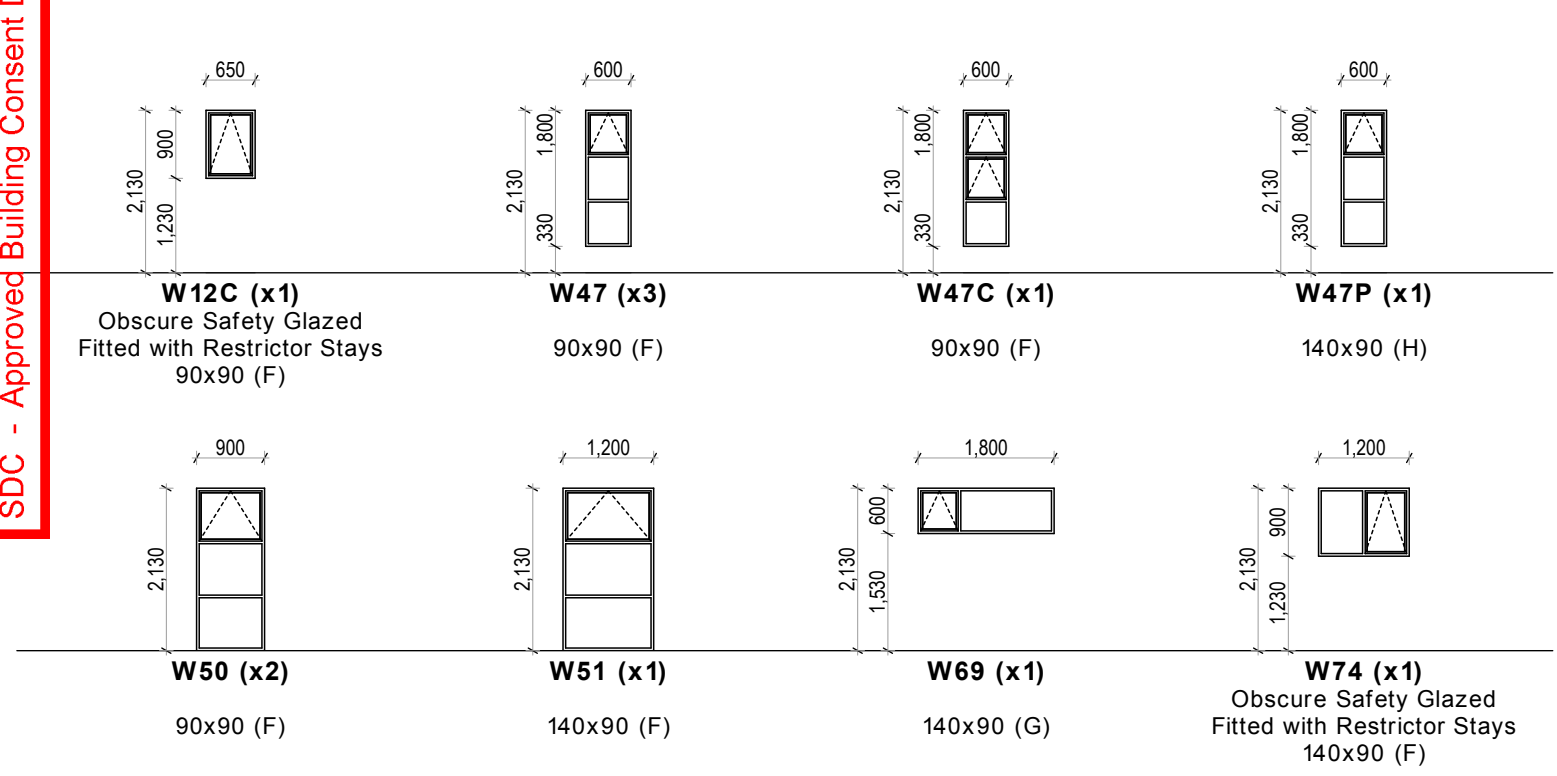
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DETAIL | Lumberlok Lintel Fixing Types
SCALE 1:20 (A3)



DOOR SCHEDULE
SCALE 1:100 (A3)



WINDOW SCHEDULE
SCALE 1:100 (A3)

JOINERY & GLAZING NOTES

- Some windows and doors may be handed. Correct orientation and layout of joinery is indicated on the window schedule as follows:
AS: As shown | H: Handed
Contractor to verify the orientation of all windows and doors against Elevations on sheet A04 and report any discrepancies to the designer.
- Wall framing are to be pre-framed by PLACEMAKERS. Shown lintel sizes and fixings are minimum requirements and typical for each window type - refer framing plans by PLACEMAKERS for specific individual lintel sizes and fixings.
- All glazing to be IGU's with WERS R-Value of ≥ 0.26 (double glazed), clear glass unless otherwise specified:
SG : Safety Glazing
- All glazing to comply with the requirements of NZS4223. Min 5mm nom thickness to safety glazing.
- Fix trimmer to trimming stud with 2/100x3.75 hand driven nails (end nailed) or 3/90x3.15 power driven nails (end nailed).
- At least one stud either side of internal all doors.

Denotes glazing to be tinted as per Owner's selection and approval.

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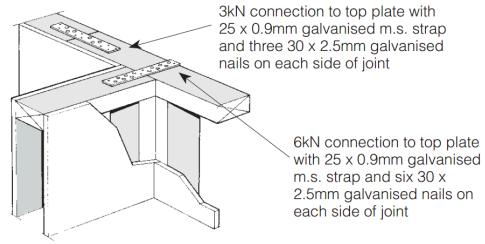
Schedules		A07
JOB No:	860452	
SHEET SIZE:	A3	REVISION NO. -
DRAWN:	BS	
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TOP PLATE CONNECTIONS

The top plate of a wall that contains one or more wall bracing elements shall be jointed according to the rating of the highest-rated individual wall bracing element as follows:

- (a) Rating not exceeding 100 bracing units: A 3kN connection as shown or by an alternative fixing of 3kN capacity in tension or compression along the plate;
- (b) Rating exceeding 100 bracing units: A 6kN connection as shown or by an alternative fixing of 6kN capacity in tension or compression along the plate.



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:

- (a) 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 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 each of 6 kN capacity;
- (c) 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 each having a rating of not less than 2.4 kN per 100 bracing units.

BRACING NOTES:

1. Contractor to ensure all penetrations to bracing units are in accordance with specific manufacturer's requirements.
2. Use LUMBERLOK Framing Stud Stiffener where holes are drilled for plumbing in 90x45mm studs in braced walls to replace the strength of the studs.
3. Internal walls connected to external walls with 140x35 H1.2 SG8 top plate with fixing capacity of 6kN where indicated: ⊕-----⊕
Where possible, use bottom chord of truss.
4. Use 10mm GIB Aqualine where GS1-N bracing is specified in bathrooms, WCs, laundry and kitchen spaces.

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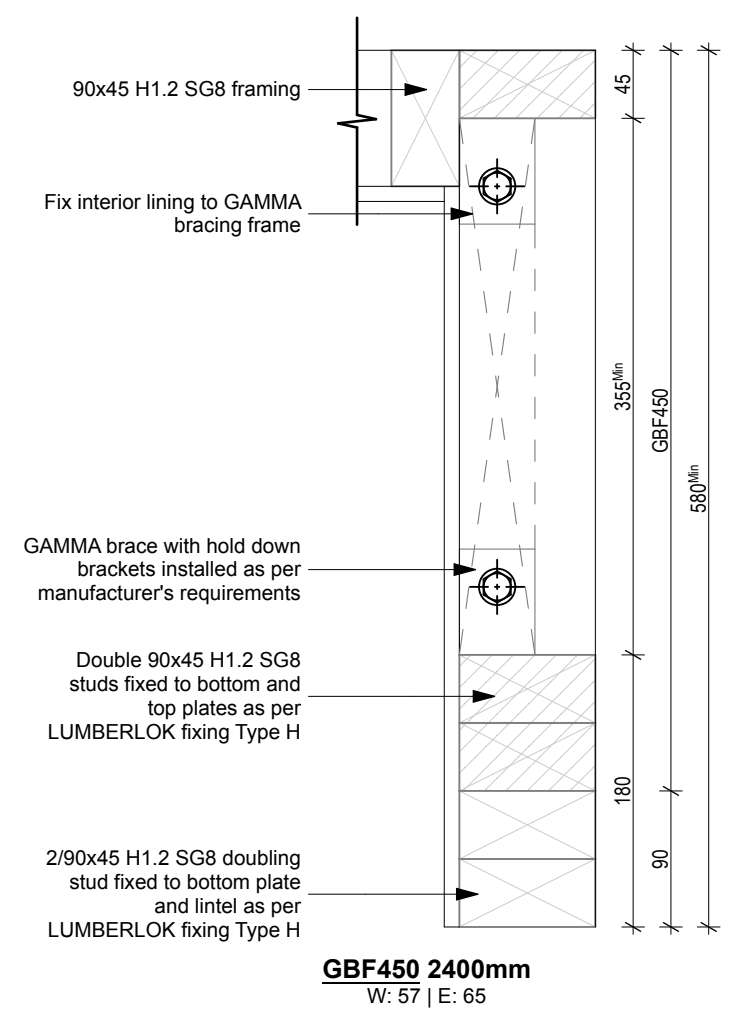
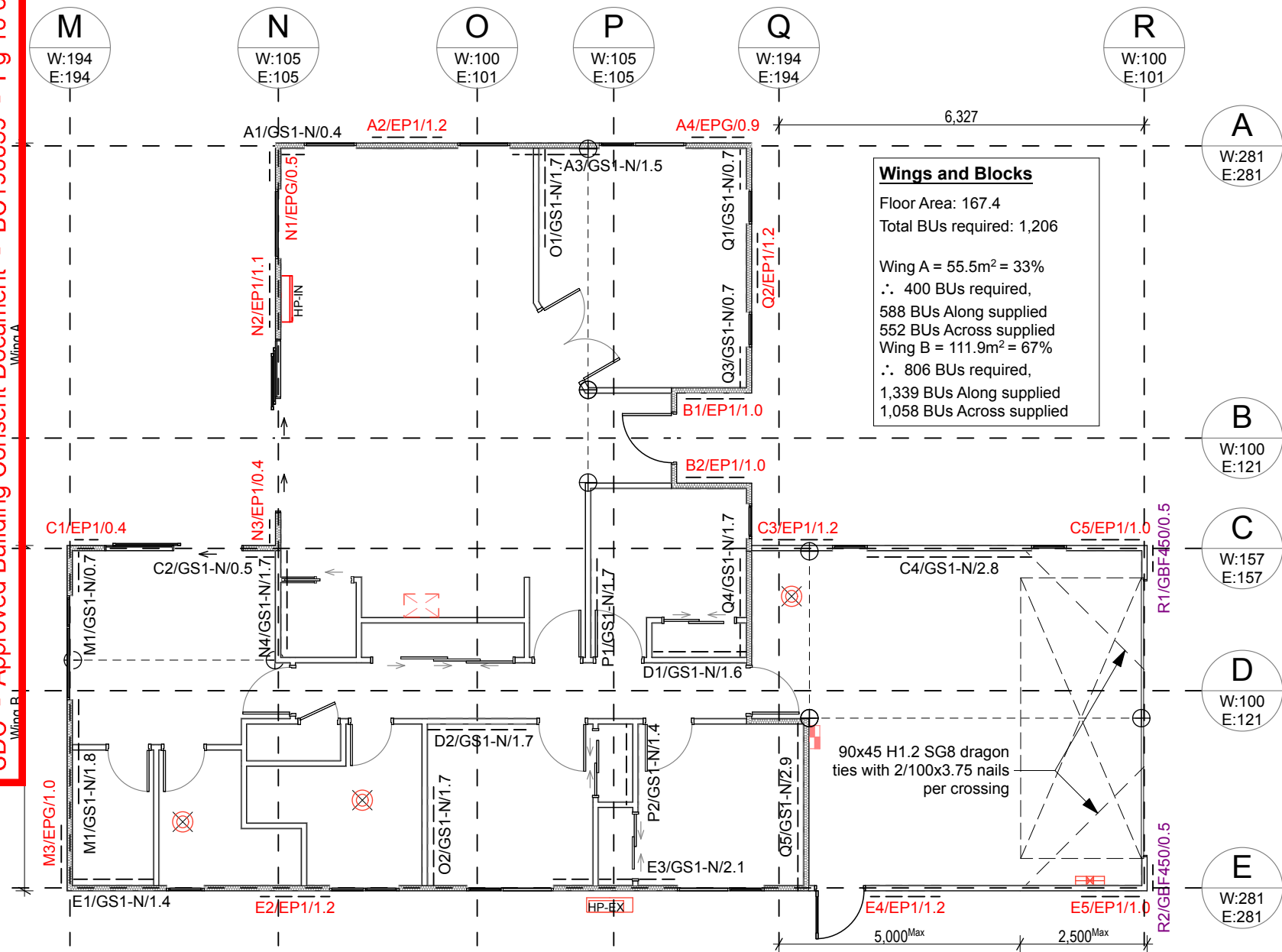
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BRACING PLAN
SCALE 1:100 (A3)

01 DETAIL | Gamma Bracing
SCALE 1:5 (A3)

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Bracing Plan		A08
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BRACING CALCULATIONS

TABLE: Default

Location of Storey	Single
Room in Roof Space	No
Building Width (BW)	13.0m
Building Length (BL)	18.7m
Gross Plan Area (GPA)	167.4m ²
Floor Height to Apex	5m
Roof Height Above Eaves	2m
Roof Pitch	0 - 25°
Roof Style	Gable
Floor Load	2kPa
Cladding Weights:	
- Subfloor	Concrete Floor
- Wall	Heavy
- Roof	Light
Wind Zone	High
Earthquake Zone	2
Soil Class	E - Very Soft
W along	55BU/m
W along x BW	713BU
W across	50BU/m
W across x BL	936BU
EQ	7BU/m ²
EQ x GPA	1206BU

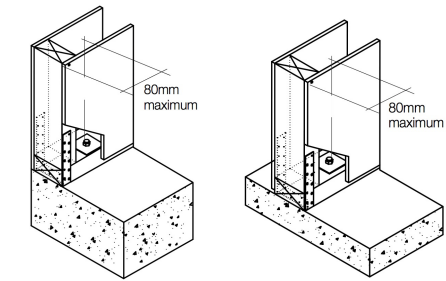
Calculations based on NZS3604:2011

BRACING ALONG

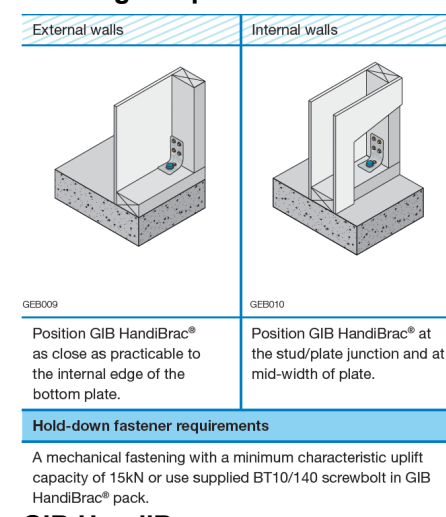
Line	Required		Provided						Achieved		
	W BU	EQ BU	Brace Type	W BU/m	EQ BU/m	Length m	Height m	Angle	W BU	EQ BU	
A	281	281	A-1	GS1-N	50	55	0.4	2.4	-	20	22
			A-2	EP1	120	135	1.2	2.4	-	144	162
			A-3	GS1-N	70	60	1.5	2.4	-	105	90
			A-4	EPG	100	115	0.9	2.4	-	90	104
										359	378
B	100	121	B-1	EP1	95	105	1.0	2.4	-	95	105
			B-2	EP1	95	105	1.0	2.4	-	95	105
										190	210
C	157	157	C-1	EP1	80	95	0.4	2.4	-	32	38
			C-2	GS1-N	50	55	0.5	2.4	-	25	28
			C-3	EP1	120	135	1.2	2.4	-	144	162
			C-4	GS1-N	70	60	2.8	2.4	-	199	171
			C-5	EP1	95	105	1.0	2.4	-	95	105
							495	503			
D	100	121	D-1	GS1-N	70	60	1.6	2.4	-	112	96
			D-2	GS1-N	70	60	1.7	2.4	-	119	102
									231	198	
E	281	281	E-1	GS1-N	70	60	1.4	2.4	-	97	83
			E-2	EP1	120	135	1.2	2.4	-	144	162
			E-3	GS1-N	70	60	2.1	2.4	-	147	126
			E-4	EP1	120	135	1.2	2.4	-	144	162
			E-5	EP1	95	105	1.0	2.4	-	95	105
									627	638	
Total									Achieved	1903	1927
									Required	713	1206

BRACING ACROSS

Line	Required		Provided						Achieved		
	W BU	EQ BU	Brace Type	W BU/m	EQ BU/m	Length m	Height m	Angle	W BU	EQ BU	
M	194	194	M-1	GS1-N	50	55	0.7	2.4	-	35	39
			M-1	GS1-N	70	60	1.8	2.4	-	126	108
			M-3	EPG	100	115	1.0	2.4	-	100	115
									261	262	
N	105	105	N-1	EPG	100	115	0.5	2.4	-	50	58
			N-2	EP1	95	105	1.1	2.4	-	105	116
			N-3	EP1	80	95	0.4	2.4	-	32	38
			N-4	GS1-N	70	60	1.7	2.4	-	119	102
									306	313	
O	100	101	O-1	GS1-N	70	60	1.7	2.4	-	119	102
			O-2	GS1-N	70	60	1.7	2.4	-	119	102
									238	204	
P	105	105	P-1	GS1-N	70	60	1.7	2.4	-	119	102
			P-2	GS1-N	70	60	1.4	2.4	-	98	84
									217	186	
Q	194	194	Q-1	GS1-N	50	55	0.7	2.4	-	35	38
			Q-2	EP1	120	135	1.2	2.4	-	144	162
			Q-3	GS1-N	50	55	0.7	2.4	-	35	39
			Q-4	GS1-N	70	60	1.7	2.4	-	119	102
			Q-5	GS1-N	70	60	2.9	2.4	-	203	174
									536	515	
R	100	101	R-1	GBF450	-	-	0.5	2.4	-	57	65
			R-2	GBF450	-	-	0.5	2.4	-	57	65
									114	130	
Total									Achieved	1672	1610
									Required	936	1206

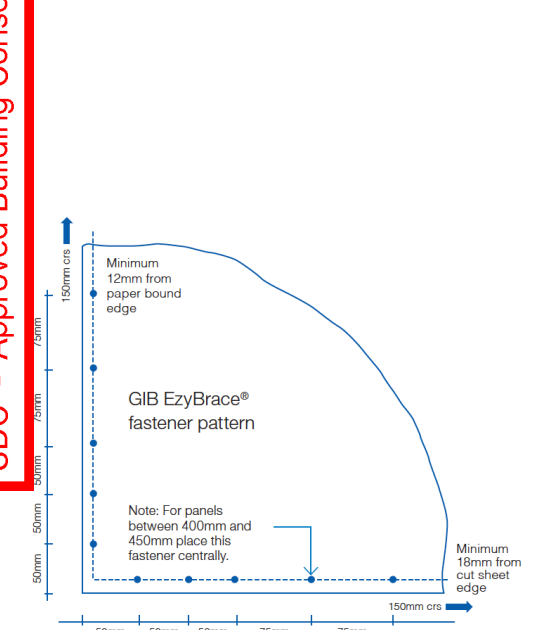


External Walls
Internal Walls
Bracing Straps

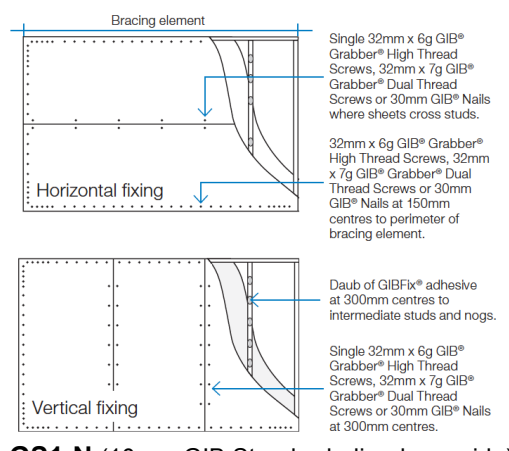


GIB HandyBrac
DETAIL | Panel Hold-down

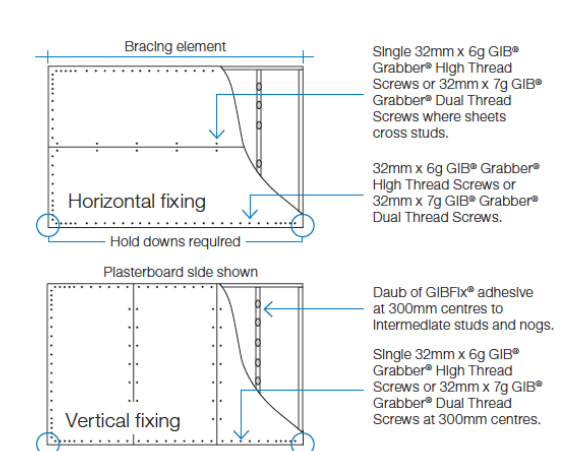
BRACING CALCULATIONS



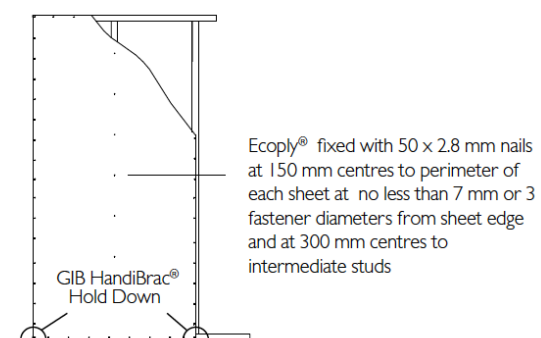
GIB EzyBrace fastener pattern



GS1-N (10mm GIB Standard - lined one side)
GS2-N (10mm GIB Standard - lined both sides)



BL1-H (lined one side)
ECOPLY Fixing



GIB HandyBrac Hold Down

In order for GIB® systems to perform as tested, all components must be installed exactly as prescribed. Substituting components produces an entirely different system and may seriously compromise performance. Follow the specifications. This specification sheet is issued in conjunction with the publication GIB EzyBrace® Systems

DETAIL | Bracing Fixing

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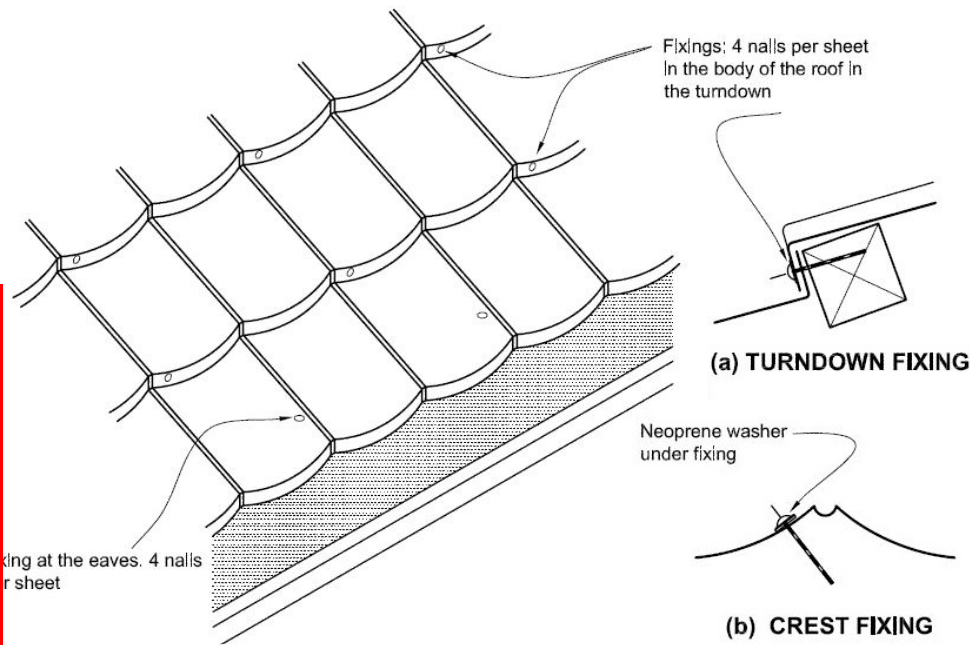
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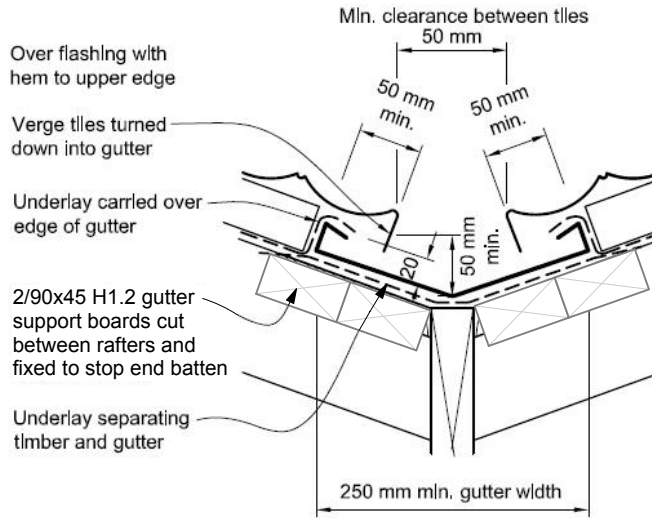
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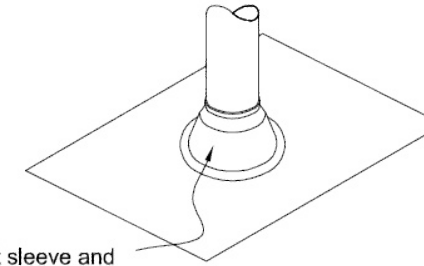


DETAIL | Tile Fixing

NOTE: (1) Refer to Table 8 for maximum roof catchment areas for valley gutters.
 (2) Minimum width of valley gutter may reduce to 160 mm, providing roof catchment area is in accordance with Table 8. In this case, cover of tiles over gutter shall be reduced to 60 mm to provide a clearance between tiles of 40 mm.



DETAIL | Valley Flashing



DETAIL | Roof Penetration (TV)

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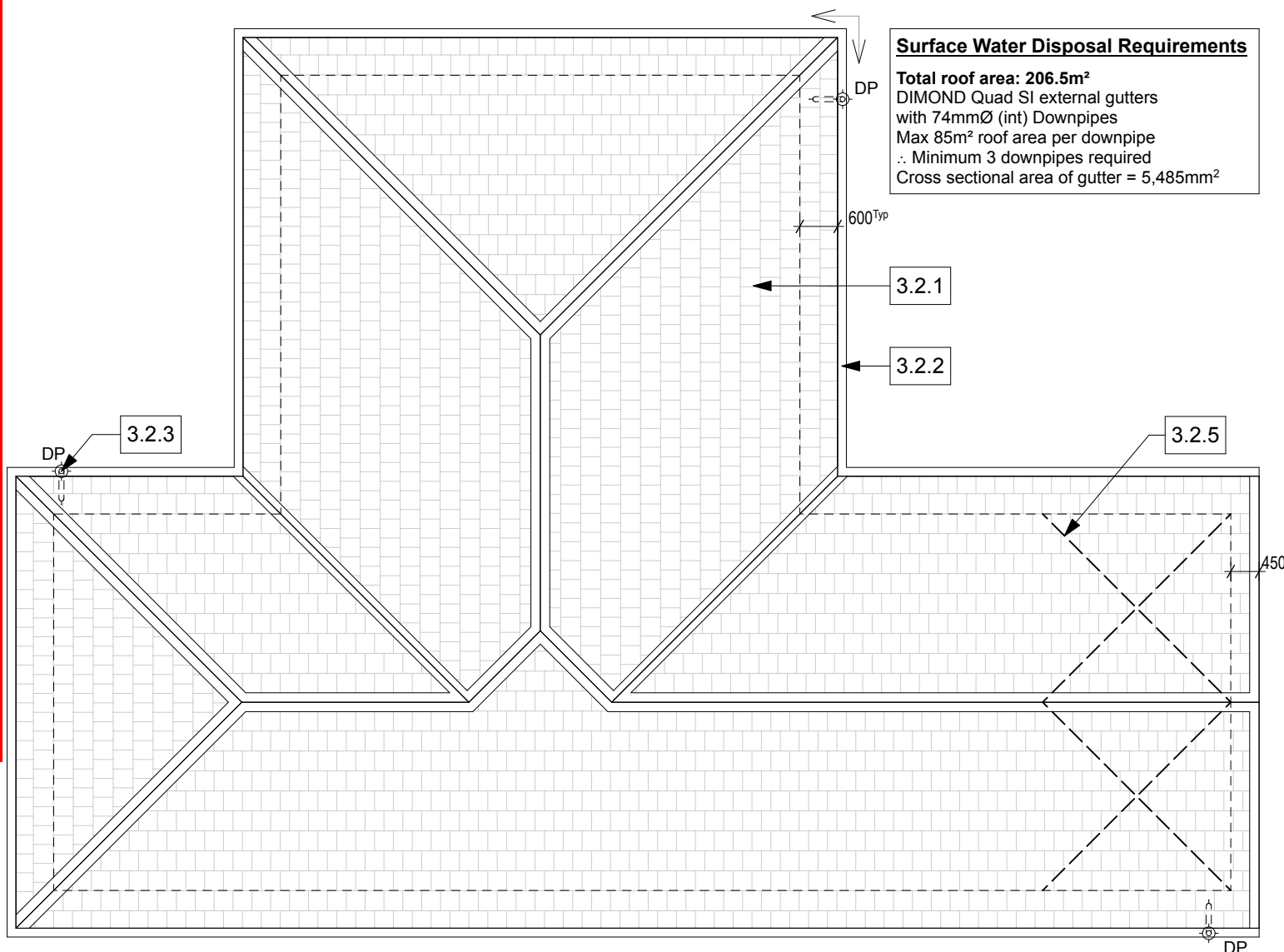
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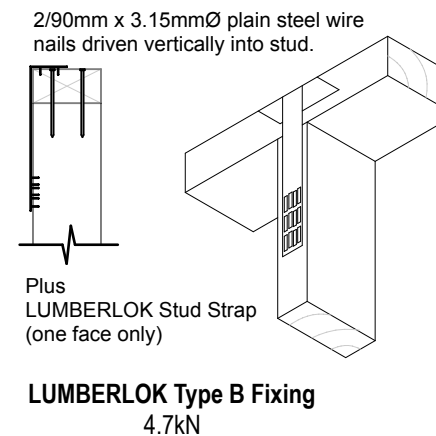
ROOF PLAN
 SCALE 1:100 (A3)

CONSTRUCTION NOTES

Details take precedent over other working drawings; any discrepancies to be raised with GJ Gardner Homes Christchurch South.

All top plate to top plate junctions to have 6kN fixings.

All Stud to Top Plate fixings to external walls and internal load bearing walls to be 4.7kN fixings as per below:



All materials must be installed in accordance with manufacturer's requirements.

3.2.1 Pressed metal tiles on 50x40 H1.2 SG8 battens at 350crs (fixed with 2/90x3.15 gun nails) over SISALATION Bitumac 750 self supporting bituminous roofing underlay.

3.2.2 COLORSTEEL fascia with DIMOND Quad SI rainwater system. Minimum 50mm overhang of roofing bent down at edge.

3.2.3 Min 74mmØ (Int) COLORSTEEL downpipe

3.2.4 80mmØ uPVC Terminal Vent

3.2.5 25x1mm M/S strap brace with tensioners

CLADDING NOTES

A row of battens fixed directly behind the fascia with the second batten 330mm up the Truss. Subsequent battens are spaced at 370mm. The final top row of tiles is 365mm or less, depending on whether the top row needs cutting due to rafter length

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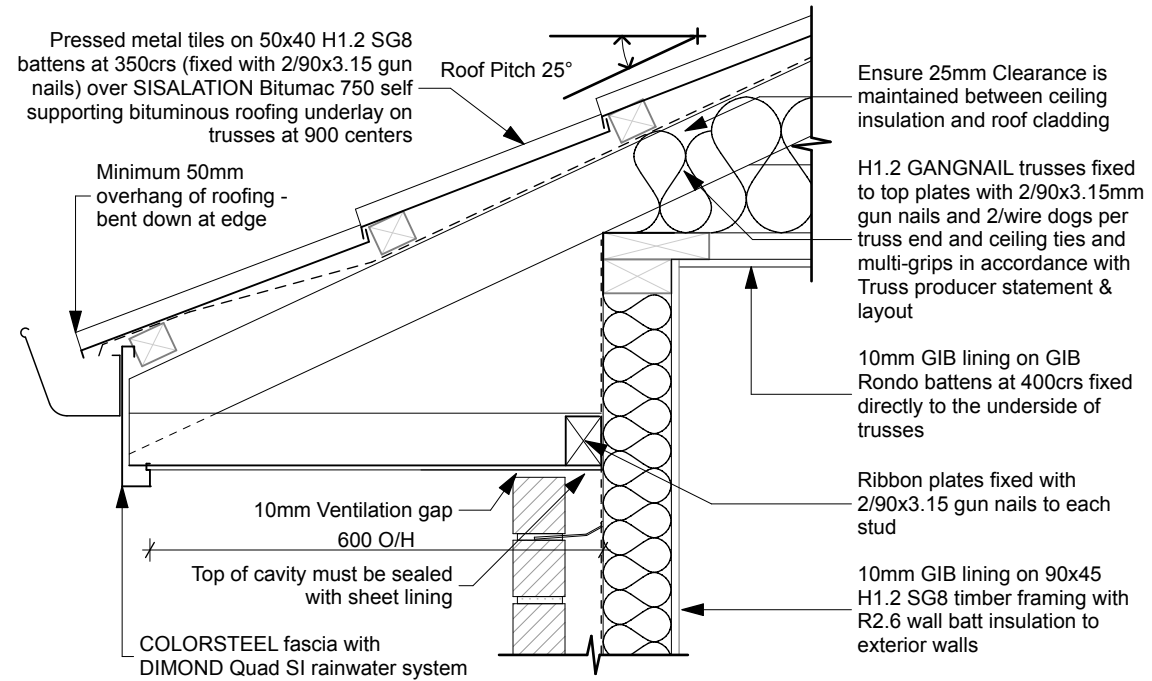
Roof Plan

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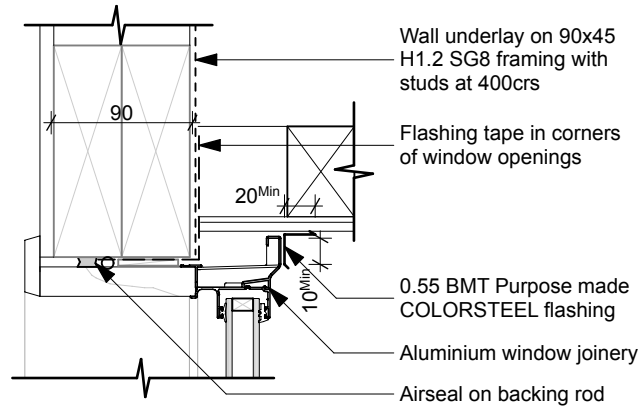
A10

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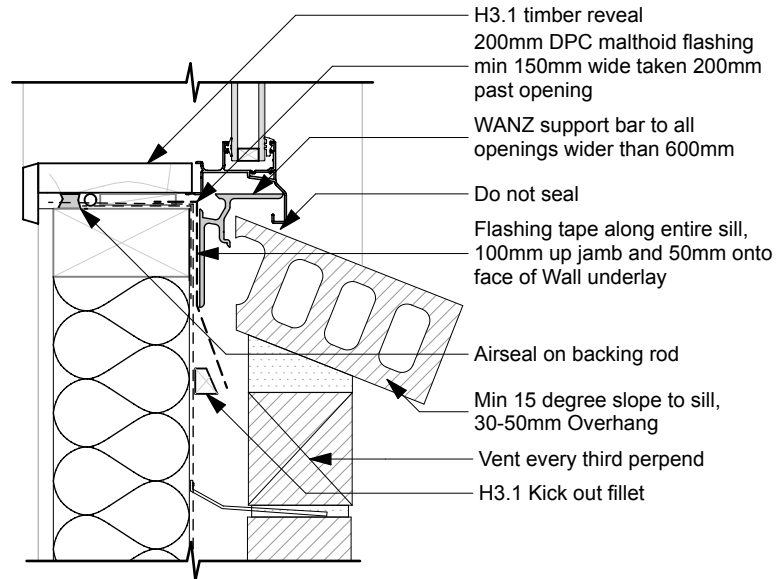
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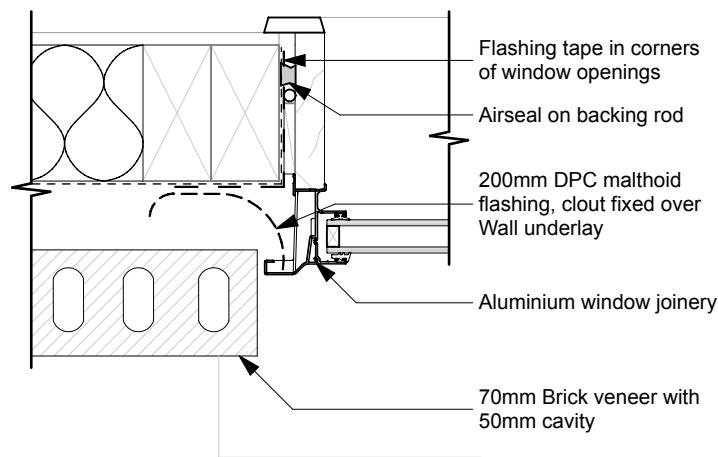
03 DETAIL | Soffit
SCALE 1:10 (A3)



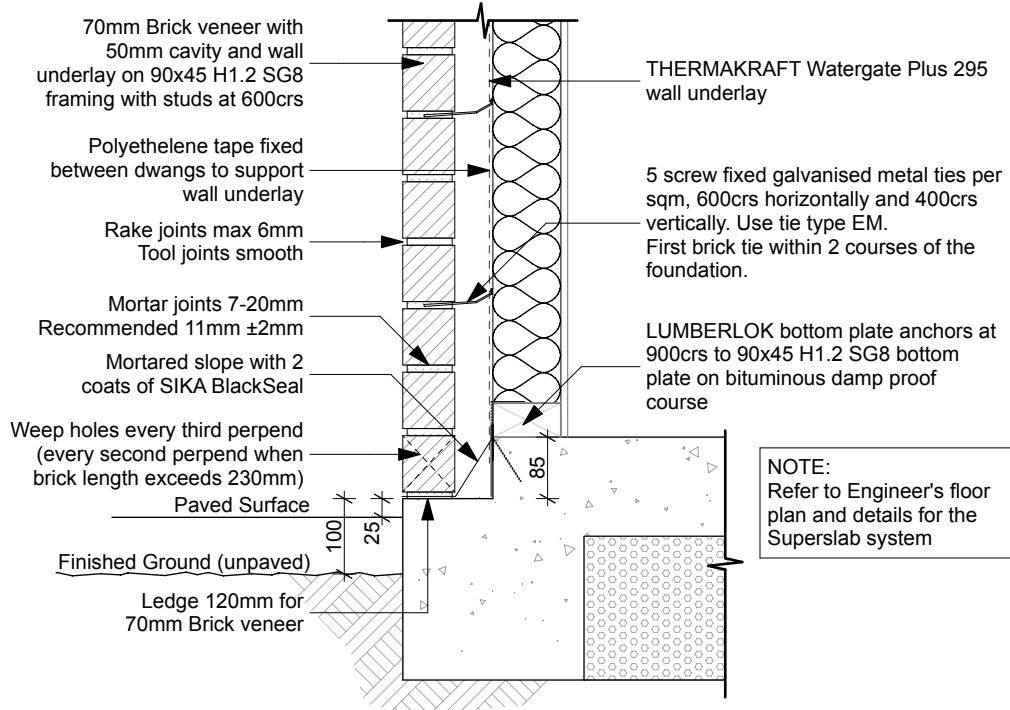
04 DETAIL | Window Head
SCALE 1:5 (A3)



05 DETAIL | Window Sill
SCALE 1:5 (A3)



06 DETAIL | Window Jamb
SCALE 1:5 (A3)



NOTE:
Refer to Engineer's floor plan and details for the Superslab system

Note
The following fixings are to be used at top and bottom plate junctions:
-Butt over a stud 6T10 TYLOK plate fully nailed
-Butt joint over solid blocking 6/100x 3.75 nails per end
-Halved joint over stud 6/75x3.15 minimum

03 DETAIL | Foundation
SCALE 1:10 (A3)

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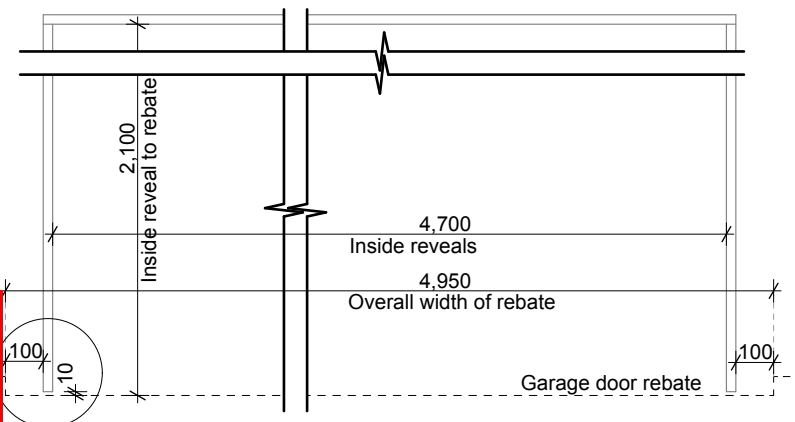
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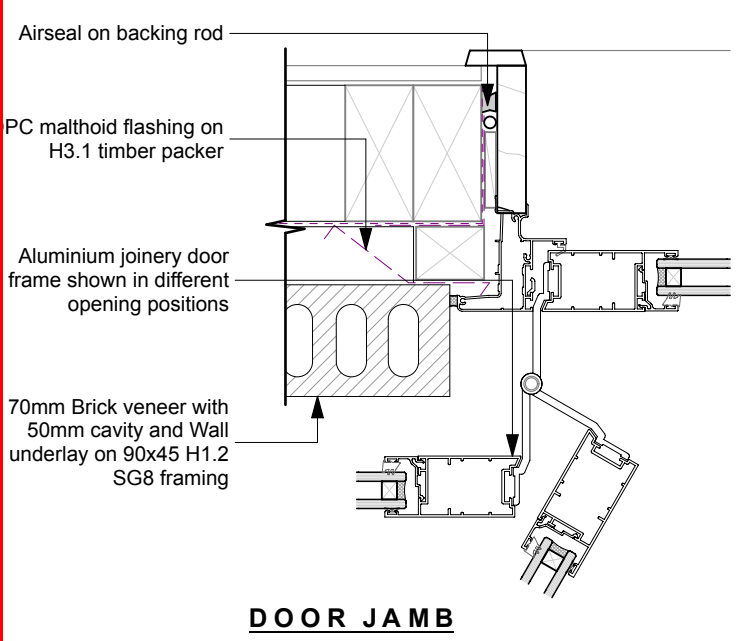
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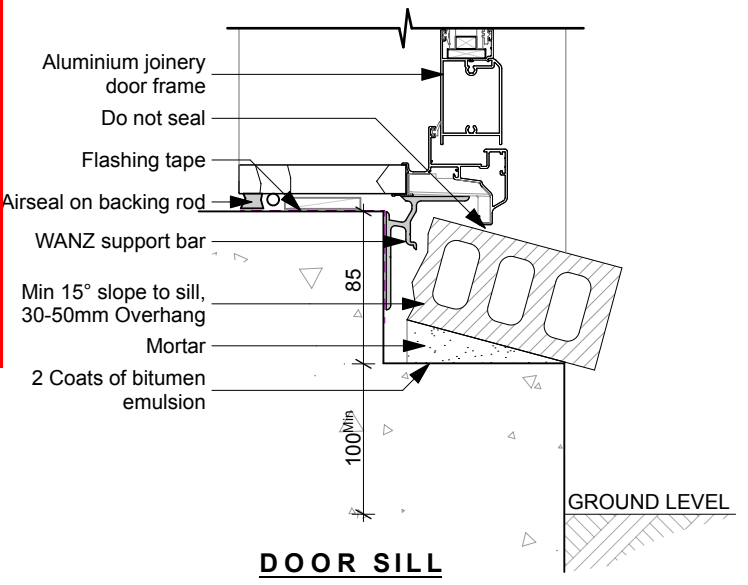
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Refer Garage Door Sill Detail
DETAIL | Garage Door
 SCALE 1:20 (A3)

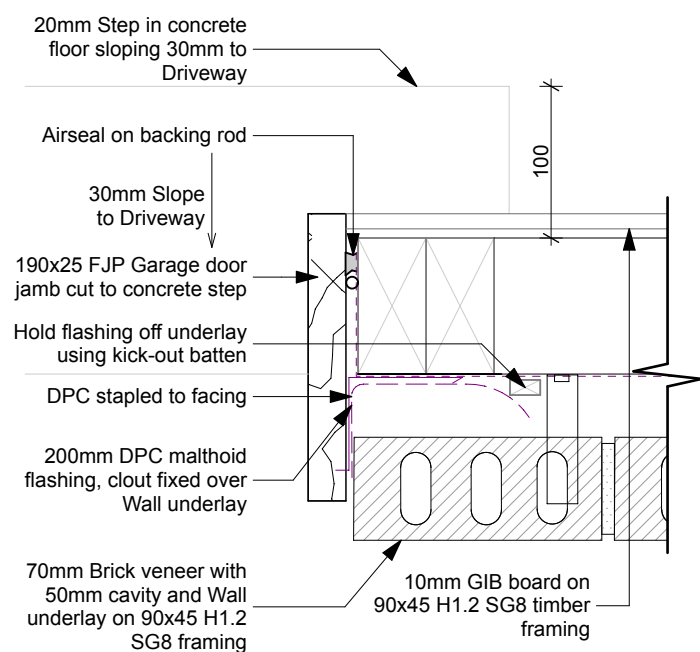


DOOR JAMB

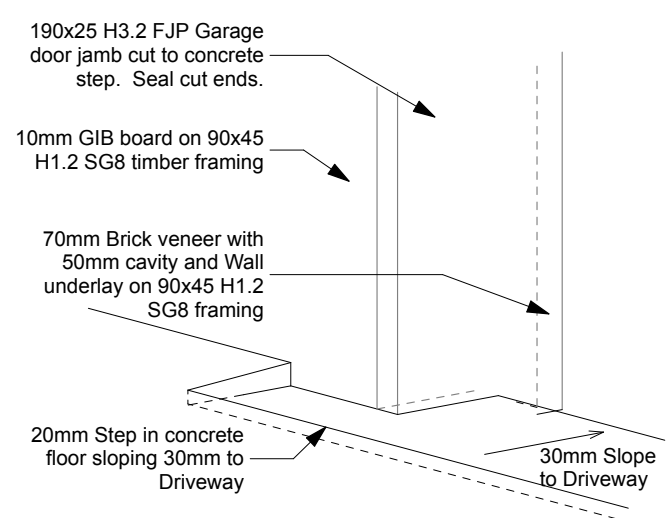


DOOR SILL

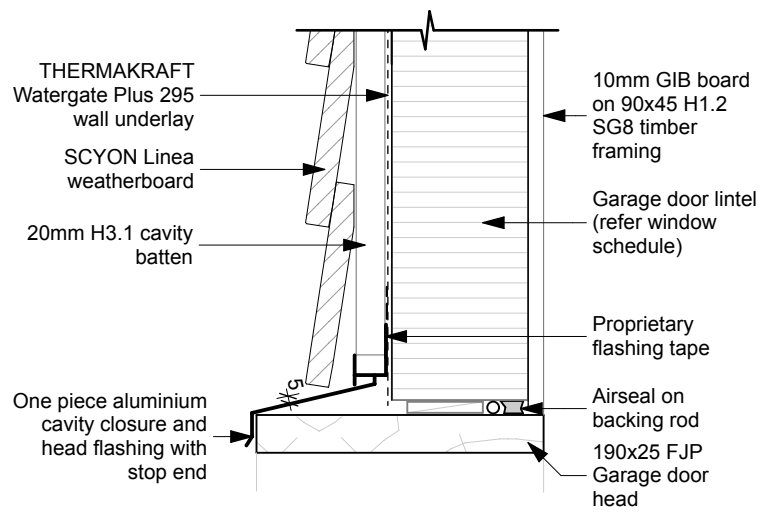
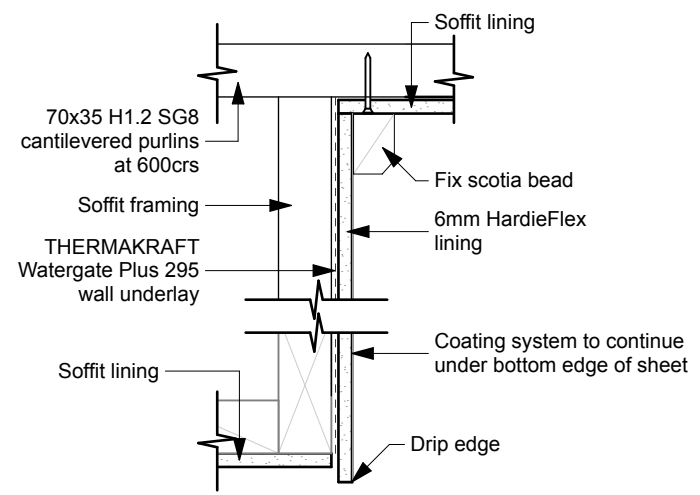
08 DETAIL | Doors
 SCALE 1:5 (A3)



GARAGE DOOR JAMB



09 DETAIL | Gable Soffit Closure
 SCALE 1:5 (A3)



10 DETAIL | Garage Door Head
 SCALE 1:5 (A3)

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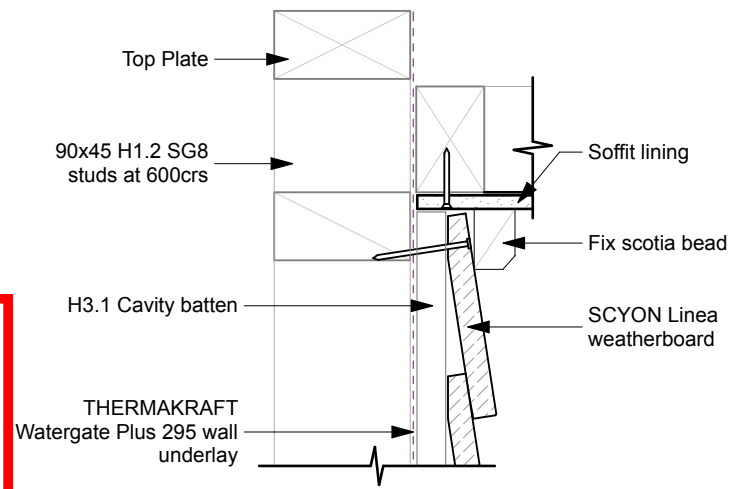
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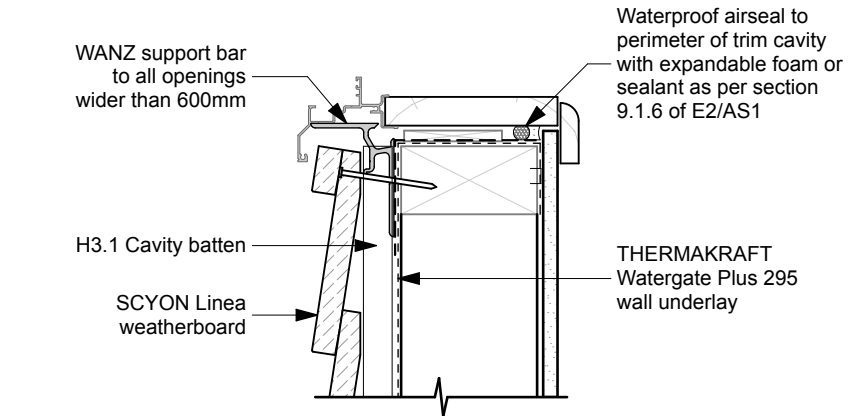
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11 DETAIL | Gable Soffit

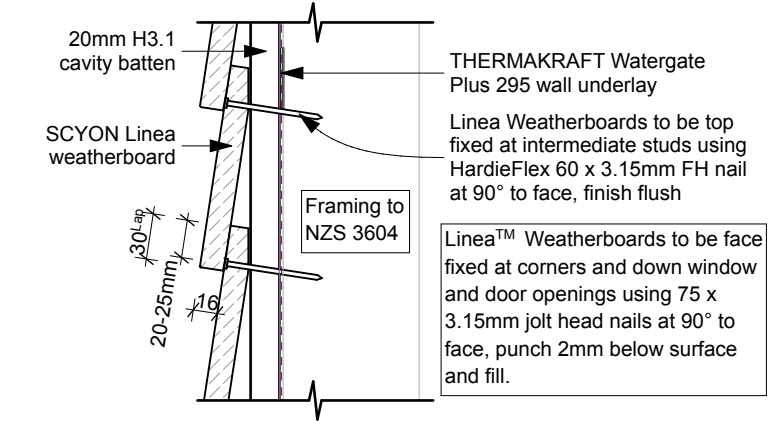
SCALE 1:5 (A3)



13 DETAIL | Window Sill

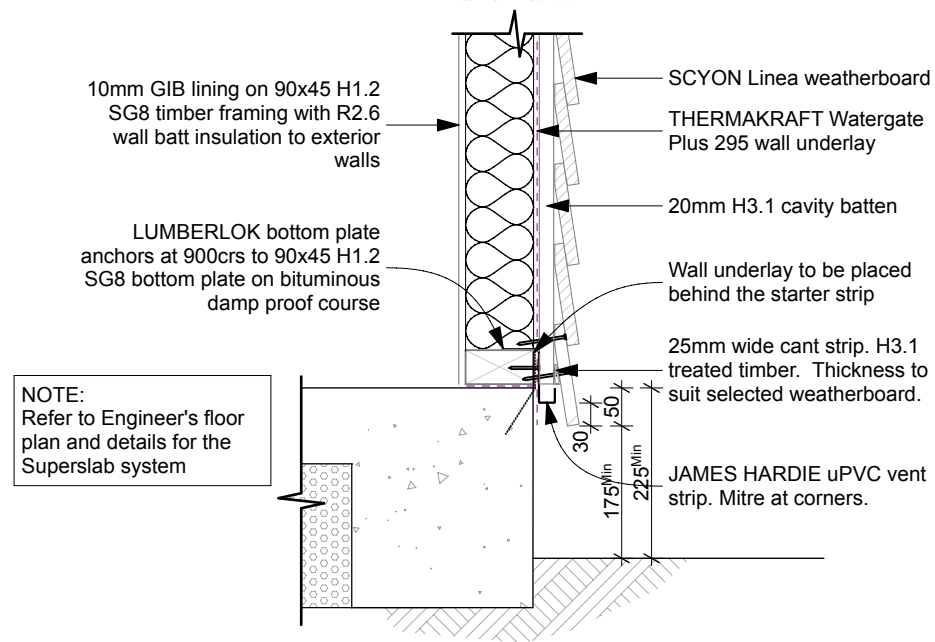
SCALE 1:5 (A3)

IMPORTANT:
Sill flashing to be installed with stopend to side of brick veneer. Ensure the scribe is installed clear of the stopend to allow free drainage.



16 DETAIL | Weatherboard Fixing

SCALE 1:5 (A3)

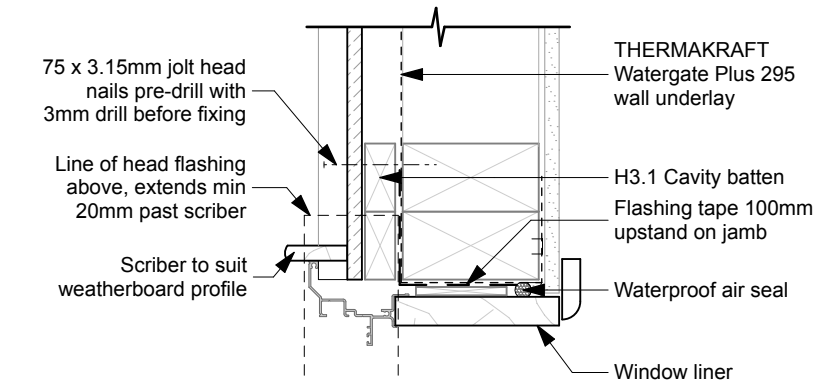


NOTE:
Refer to Engineer's floor plan and details for the Superslab system

Note
The following fixings are to be used at top and bottom plate junctions:
-Butt over a stud 6T10 TYLOK plate fully nailed
-Butt joint over solid blocking 6/100x 3.75 nails per end
-Halved joint over stud 6/75x3.15 minimum

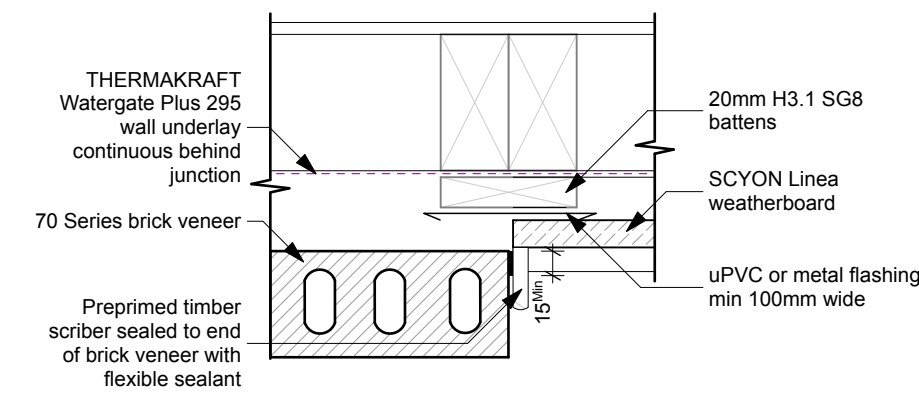
12 DETAIL | Foundation

SCALE 1:10 (A3)



14 DETAIL | Window Jamb

SCALE 1:5 (A3)



15 DETAIL | Cladding Junction

SCALE 1:5 (A3)

General notes for materials selection

- Flashing materials must be selected based on environmental exposure, refer to NZS 3604 and Table 20 of NZBC clause E2/AS1.
- Wall underlay must comply with acceptable solution NZBC clause E2/AS1 and NZS 3604.
- Flashing tape must have proven compatibility with the selected Wall underlay and other materials with which it comes into contact as per Table 21 of NZBC clause E2/AS1.

Refer to the manufacturer or supplier for technical information for these materials.

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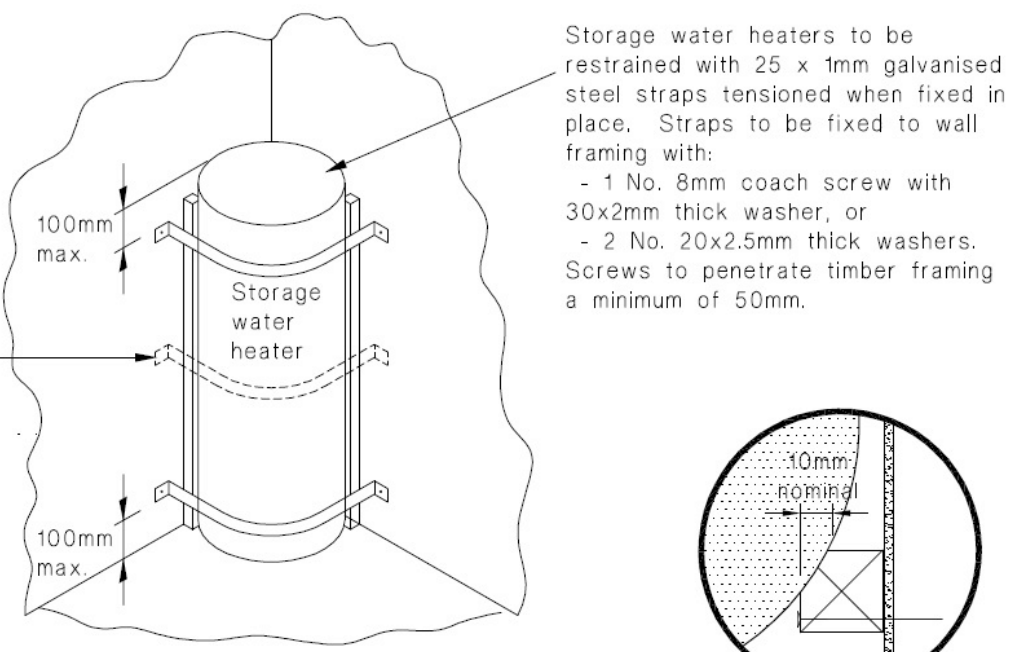
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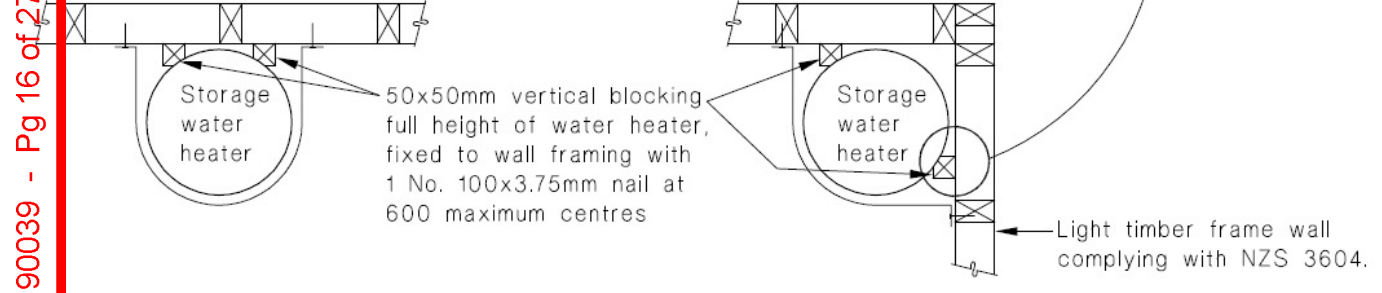
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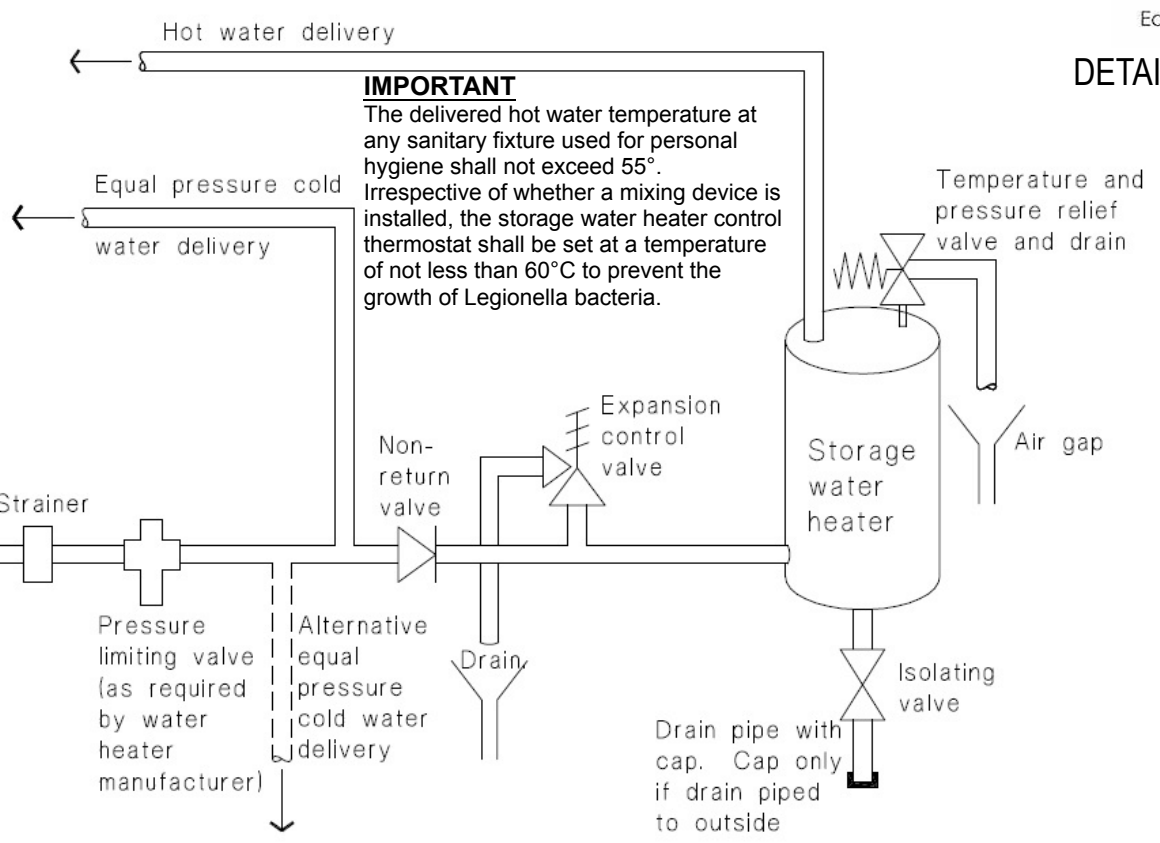
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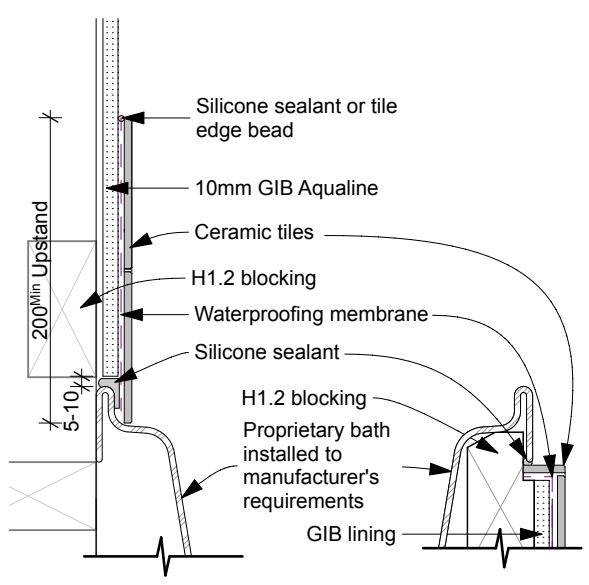
NOTE
 Dwang at 300mm & 1000mm AFFL for 180 Litre HWC,
 and for 250/300 Litre HWC dwang at 300mm & 1600mm AFFL



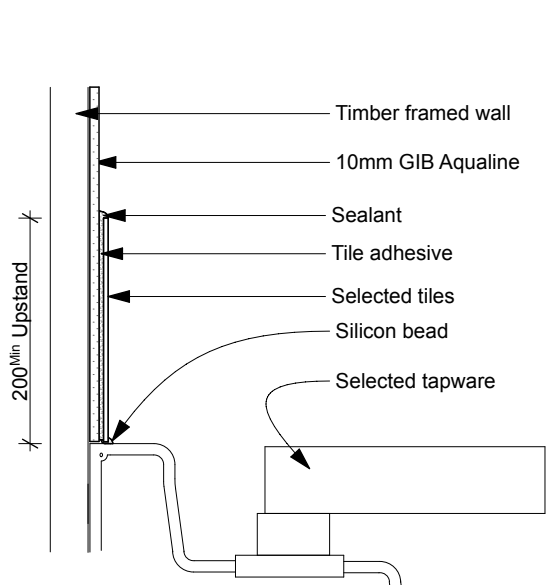
DETAIL | Seismic Restraint of Storage Water Heaters



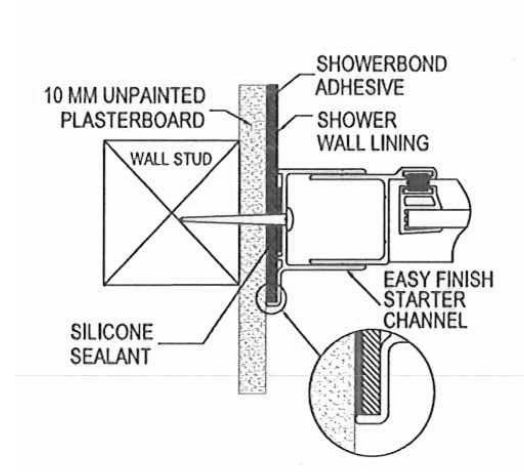
DETAIL | Mains Pressure Storage Water Heater System



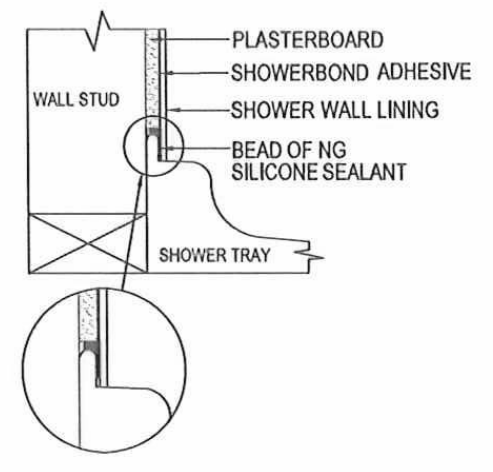
DETAIL | Bath Waterproofing
 SCALE 1:5 (A3)



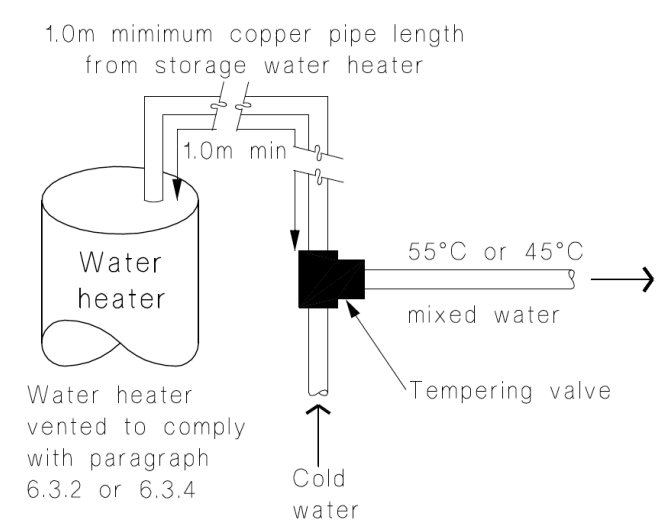
DETAIL | Basin, Sink or Tub Watersplash
 SCALE 1:2 (A3)



Easy finish starter channel
 DETAIL | Proprietary Shower Lining



Wall and tray installation



DETAIL | Tempering Valve Installation

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All Dimensions and levels are to be checked by contractor before commencement of work. Contractor to report any discrepancy.

**BUILDING
 CONSENT**

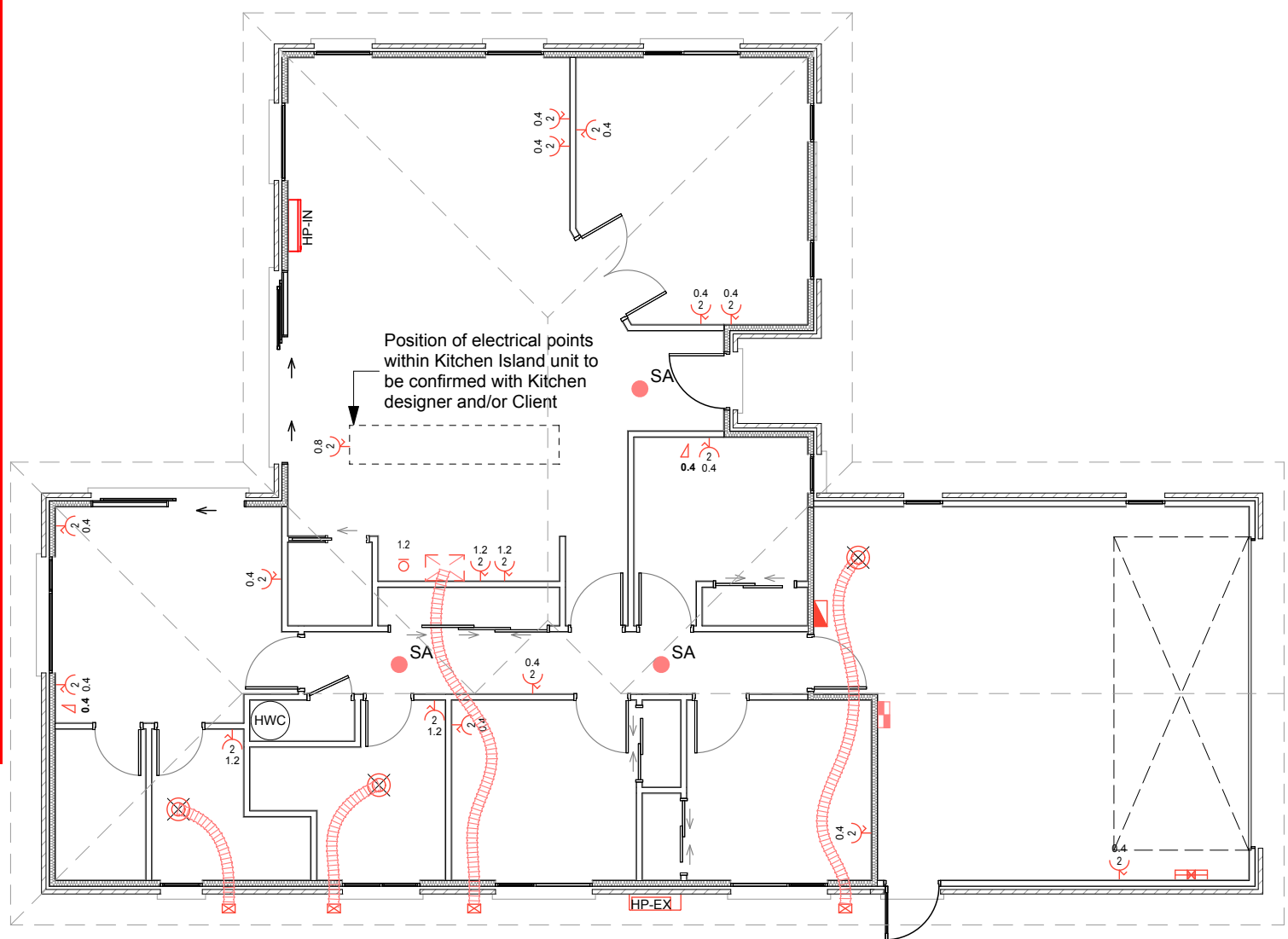
Boorer & Seldon Dwelling,
 Lot 38,
 Barton Fields.

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Details		A14
JOB No:	860452	
SHEET SIZE:	A3	
DRAWN:	BS	
PRINTED:	20 Dec 18	REVISION NO.
G.J. Gardner. HOMES		-

IMPORTANT:
 Contractor to take note of braced walls and ensure any penetrations to bracing units are in accordance with specific manufacturer's requirements.
 Contractor to liaise with the electrician as final positions of power and light fittings may differ from this plan.

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Note
 Single power points to be installed for:
 - Oven - Hob
 - Fridge - Rangehood
 - Garbage disposal - Dishwasher
 - Garage door opener - Microwave
 Confirm all points, including hob and oven, with Kitchen Designer prior to placement

- LEGEND**
- 0.4 Single Switched Power Point
 - 0.4 Double Switched Power Point
 - 1.2 Isolator Switch
 - 0.4 Phone Jack Point
 - 0.4 Television Jack Point
 - Mechanical extraction fan with ducting to external soffit egg grate grilles
 - Hot Water Cylinder
 - Meter Board
 - Distribution Board
 - Garage Door Control Point
 - HTR Heated Towel Rail
 - SA Smoke Alarm
 - WMH Wall Mounted Heater
 - HP-IN Heat pump system - Internal unit
 - HP-EX Heat pump system - External unit

ELECTRICAL PLAN
 SCALE 1:100 (A3)

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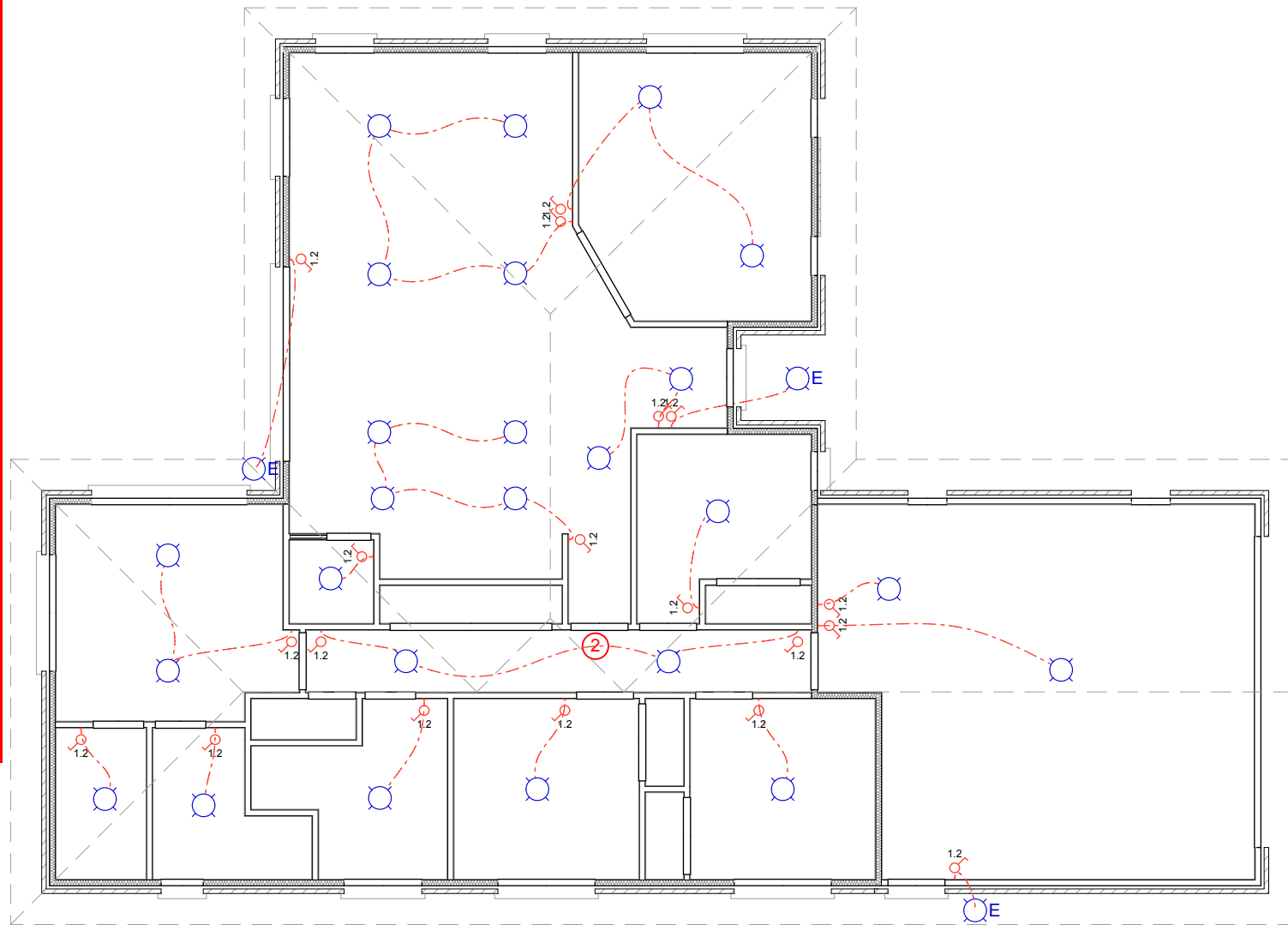
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Electrical Plan

JOB No:	860452	E01
SHEET SIZE:	A3	
DRAWN:	BS	
PRINTED:	20 Dec 18	
G.J. Gardner. HOMES		REVISION NO. -

IMPORTANT:
 Contractor to take note of braced walls and ensure any penetrations to bracing units are in accordance with specific manufacturer's requirements.
 Contractor to liaise with the electrician as final positions of power and light fittings may differ from this plan.

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LEGEND

	Light Switch
	Two way Light Circuit
	Three way Light Circuit
	Dimmer Control to Circuit
	Batten Holder
	Recessed LED Downlight
	Wall Mounted Light
	Hanging Pendant Halogen Light
	Exterior Recessed Eave Light
	Exterior Wall Light

REFLECTED LIGHTING PLAN
 SCALE 1:100 (A3)

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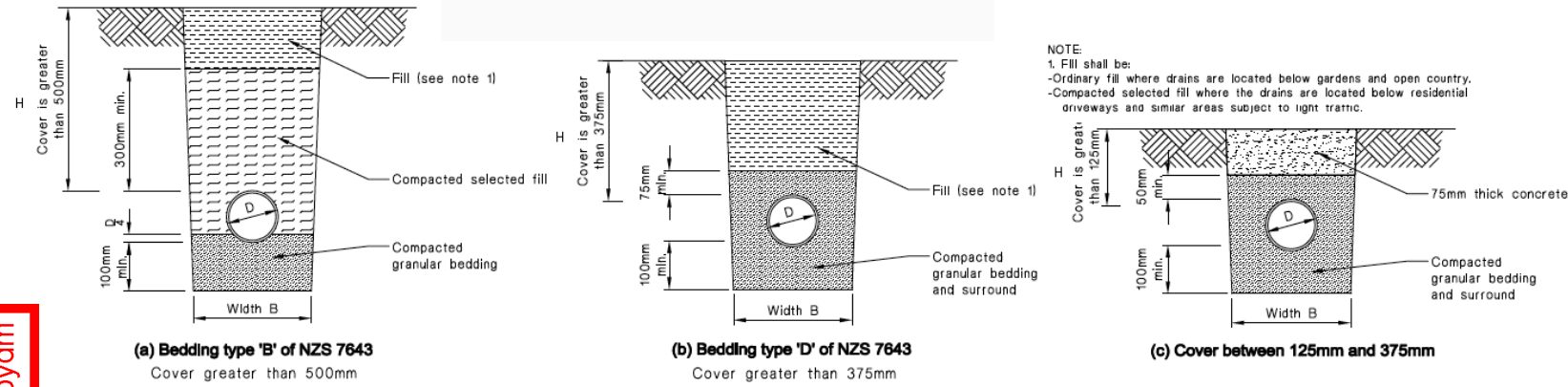
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 Lot 38,
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Lighting Plan		E02
JOB No:	860452	
SHEET SIZE:	A3	
DRAWN:	BS	REVISION NO.
PRINTED:	20 Dec 18	-
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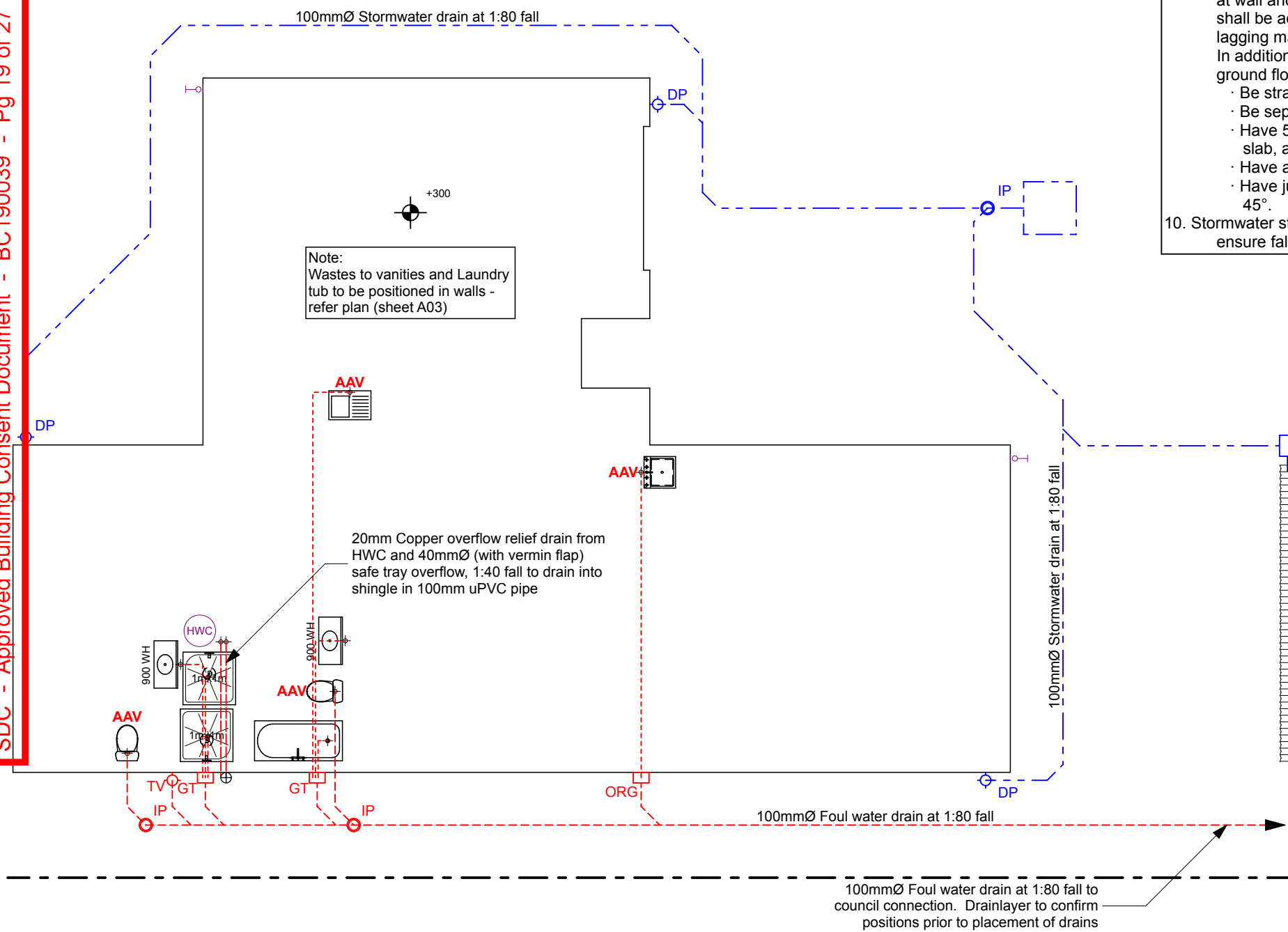
DETAIL | Bedding and Backfilling



NOTE:
1. Fill shall be:
- Ordinary fill where drains are located below gardens and open country.
- Compacted selected fill where the drains are located below residential driveways and similar areas subject to light traffic.

PLUMBING & DRAINAGE NOTES:

- Plumbing designed to G13/AS1 and drainage to G13/AS2 of the New Zealand Building Code.
- All levels & connection points to be confirmed by a registered Drainlayer on site before commencement of work.
- Mains water supply from Road - 25mm polybutylene. Flow rates in accordance with G12/AS1 (Table 3).
- Pipe diameters to G12/AS1 (Table 4). Note the pipe from the hot water cylinder to the Kitchen sink to be max 15mmØ with lagged insulation along its entire length.
- 32 - 50mmØ uPVC pipes shall be supported at 0.5m centres and 65 - 100mmØ uPVC pipes supported at 1m centres.
- All pipework shall incorporate expansion joints as per AS/NZS 2032 and NZBC G13/AS1 to accommodate the expected longitudinal movement in pipes resulting from temperature changes.
- Fill materials to bedding and backfilling of drains shall be bedding material of clean granular non-cohesive material or selected fill of fine-grained soil or granular material free from topsoil or rubbish, with a maximum particle size of 20mm.
- Ensure minimum 350mm cover to head of soil pipes. Gully traps to be minimum 25mm above paved surfaces, 100mm above unpaved surfaces.
- When passing through concrete, drains and wastes shall be sleeved or wrapped in a durable and flexible material to allow for expansion and contraction where passing through concrete. Ensure that at supports, and at wall and floor penetrations not incorporating expansion joints, movement shall be accommodated using pipe sleeves or a durable and flexible lagging material.
In addition, drains passing beneath buildings with a concrete slab on the ground floor shall:
 - Be straight and of even gradient,
 - Be separated from the building foundation by at least 25mm,
 - Have 50mm clearance from the top of the pipe to the underside of the slab, and bedded in loose fill,
 - Have access points within 2m of either side of slab,
 - Have junctions beneath the building joining at an angle of not more than 45°.
- Stormwater strip drain to be located at the base of the driveway. Contractor to ensure falls on driveway directs stormwater run off into the drain.



LEGEND

- 100mmØ Stormwater drain at 1:80 gradient
- 100mmØ Foul sewer drain at 1:80 gradient
- DP COLORSTEEL (Min 74mmØ Int) downpipe
- TV 80mmØ uPVC Terminal vent
- GT Gully Trap
- ORG Overflow Relief Gully
- IP Inspection Point
- AAV Air admittance valve
- HWC Mains pressure hot water cylinder (with safe tray in accordance with G12/AS1)
- HT Hose Tap (owner to confirm positions)

WASTE PIPE DIAMETER AND GRADIENTS
Unless noted otherwise, all waste pipes to:

- Sanitary fittings (except WCs) shall be 40mmØ at 1:40 fall,
- Laundry fittings shall be 40mmØ at 1:30 fall,
- Kitchen sinks shall be 50mmØ at 1:40 fall

IMPORTANT: All fixtures more than 3.5m from gully traps shall be fitted with air admittance valves.

80mmØ wastes from soil fixtures (WCs) to have minimum 1:60 gradient.

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Lot 38, Barton Fields.

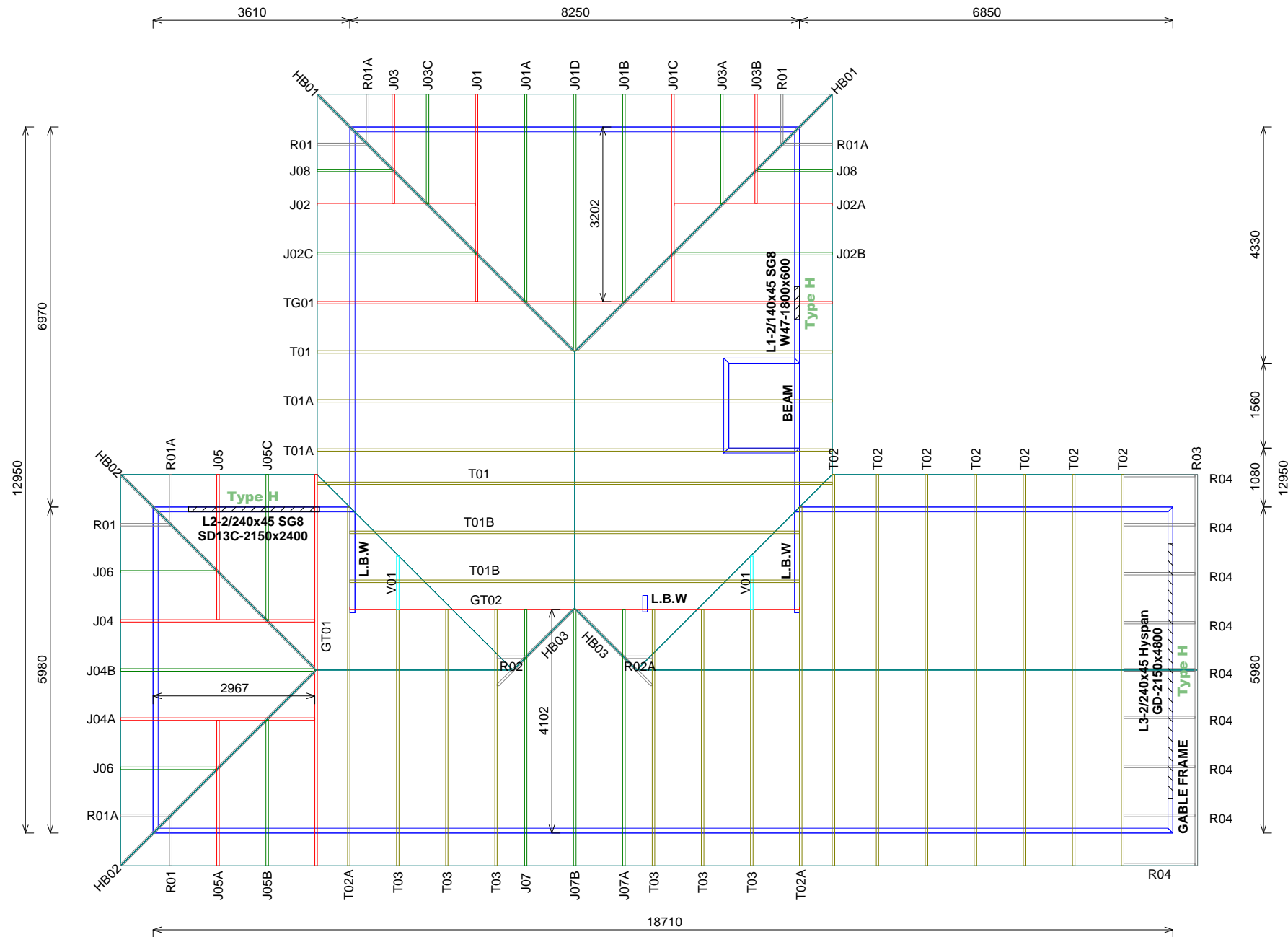
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Plumbing & Drainage

JOB No:	860452	P01
SHEET SIZE:	A3	
DRAWN:	BS	
PRINTED:	26 Feb 19	
G.J. Gardner. HOMES		REVISION NO. A

Layout is null and void if trusses not supplied by PlaceMakers

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Site Address :
 Lot 38, Bartons Fields Estate
 Lincoln, Selwyn

Sheet Title :
**For Building Consent
 Buildable Truss Layout**

Date : 27 Jun,2018 Drawn : Lien Tu
 Scale : 1: 100 System : MiTek 20/20

Job Details:
 Roof Pitch : 25.000 Deg
 Roof Material : Metal Tiles
 Ceiling Material : Gib Board 10mm
 Wind Zone : High
 Roof Snow Load : 0.441 kPa

Truss Centres : 900 mm
 Roof Live Load : 0.250kPa
 Floor Live Load : kPa
 Wind Speed : 44.0 m/s

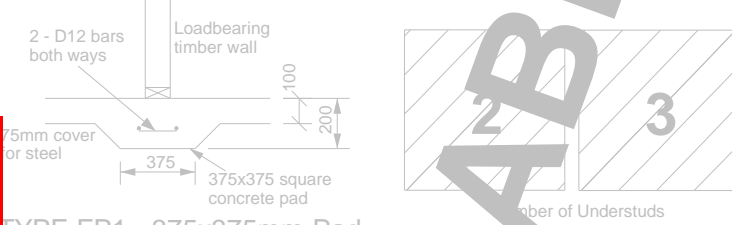
PrimeCad v4.7.291

Job Title :
BL149675

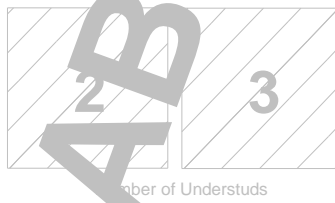
Sheet :
1

Revision Number :

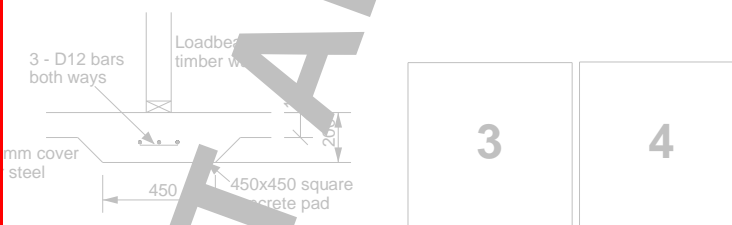
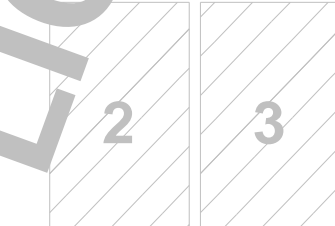
Slab Thickening Details



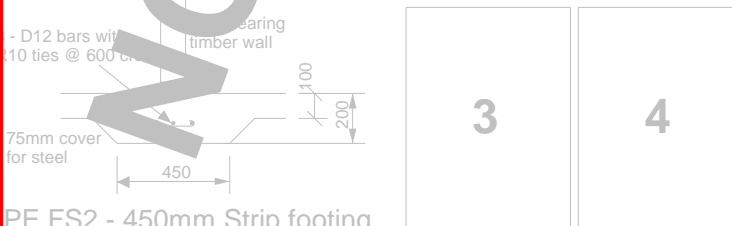
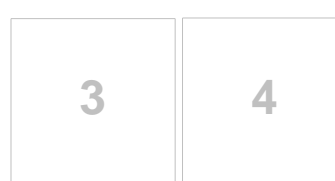
TYPE FP1 - 375x375mm Pad



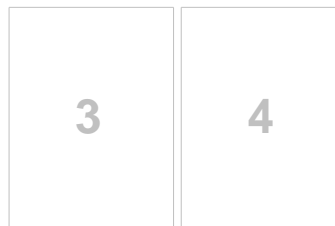
TYPE FS1 - 300mm Strip footing



TYPE FP2 - 450x450mm Pad

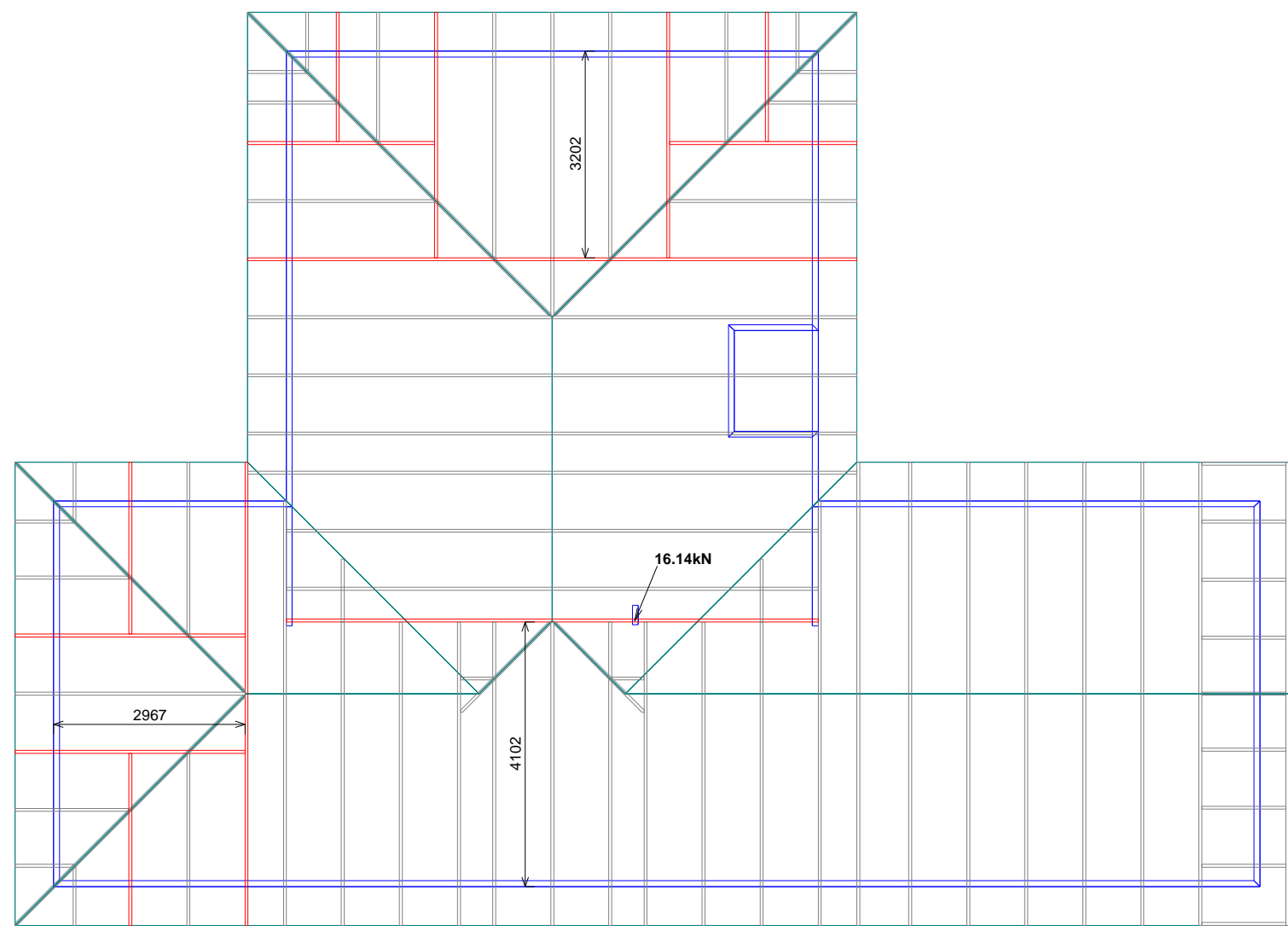


TYPE FS2 - 450mm Strip footing



- NOTES:**
- All point loads exceeding 8.0kN are indicated.
 - All walls shown to be considered load bearing.
 - Refer to Rib-raft floor design for slab thickening.

Layout is null and void if trusses not supplied by PlaceMakers



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NOT APPLICABLE



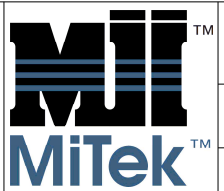
Site Address :
Lot 38, Bartons Fields Estate
Lincoln, Selwyn

Sheet Title :
**For Building Consent
Slab Thickening**

Date : 27 Jun, 2018 Drawn : Lien Tu
Scale : 1:100 System : MiTek 20/20

Job Details:
Roof Pitch : 25.000 Deg
Roof Material : Metal Tiles
Ceiling Material : Gib Board 10mm
Wind Zone : High
Roof Snow Load : 0.441 kPa

Truss Centres : 900 mm
Roof Live Load : 0.250kPa
Floor Live Load : kPa
Wind Speed : 44.0 m/s



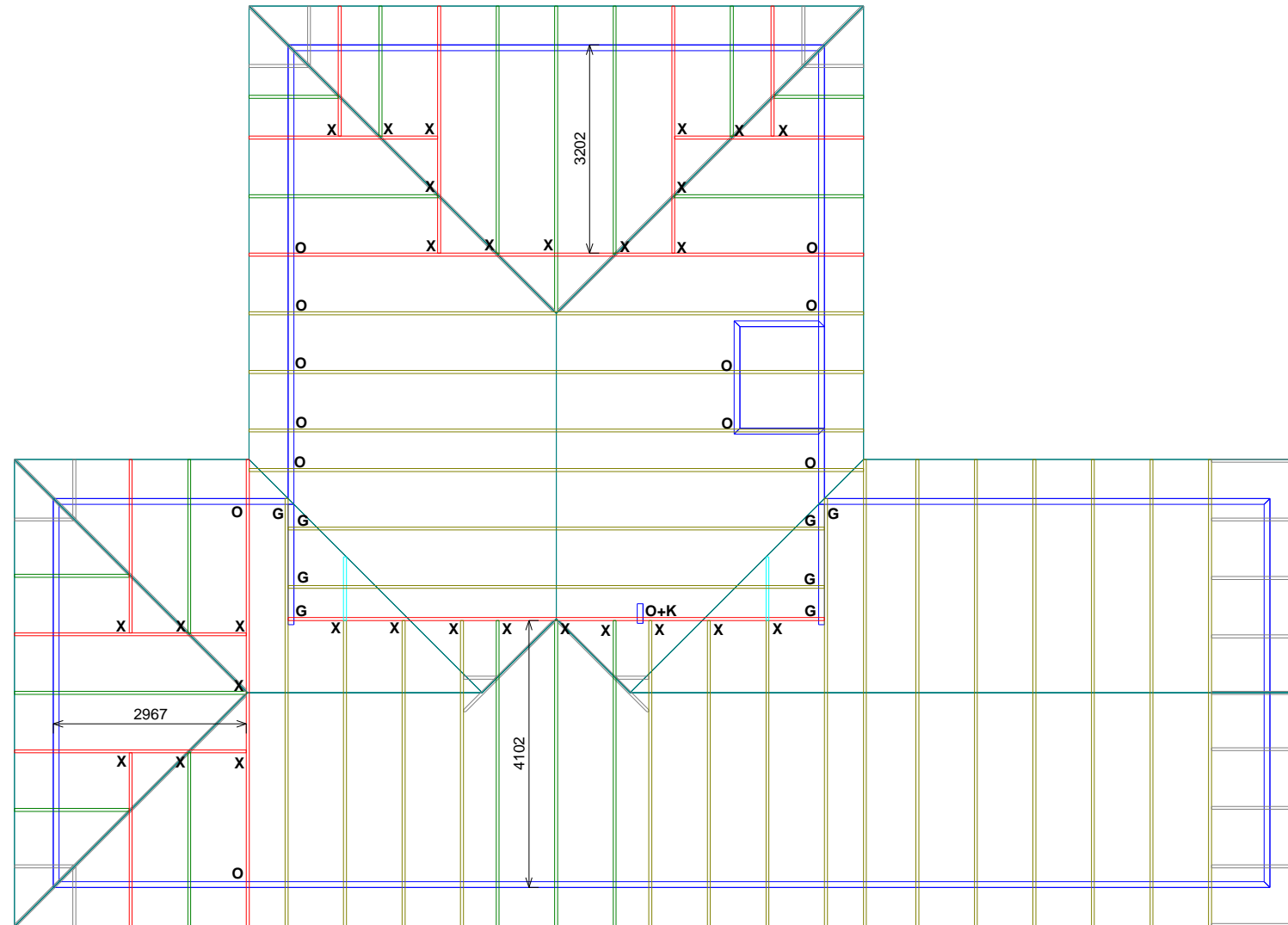
Job Title :
BL149675
Sheet :
2
Revision Number :

PrimeCad v4.7.291

Truss Fixings

- X - LUMBERLOK JH47x90 Joist Hanger
- Z - LUMBERLOK JH47x120 Joist Hanger
- P - LUMBERLOK JH47x190 Joist Hanger
- E - LUMBERLOK JH95x165 Joist Hanger
- O - Pair of LUMBERLOK CT200 Ceiling Ties
- H - LUMBERLOK CT400 Cyclone Tie
- B - LUMBERLOK CT600 Cyclone Tie
- M - Pair of LUMBERLOK Multi Grips
- NP - LUMBERLOK Nailon Plate
- N - LUMBERLOK N21 Diagonal Cleat
- W - Pair of LUMBERLOK CPC40 Cleats
- K - LUMBERLOK TTP 16kN Truss to Top Plate set
- G - LUMBERLOK TTP 9kN Truss to Top Plate set

Layout is null and void if trusses not supplied by PlaceMakers



NOTES:

All other areas must have at the minimum
 2/ 90x3.15mm skew nails + 2 wire dogs (4.7kN)
 for truss to top plate connections.

Refer to:
 LUMBERLOK Timber Connectors Characteristic
 Loadings Data brochure 03/4

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Site Address :
 Lot 38, Bartons Fields Estate
 Lincoln, Selwyn

Sheet Title :
**For Building Consent
 Truss Fixings**

Date : 27 Jun, 2018 Drawn : Lien Tu
 Scale : 1: 100 System : MiTek 20/20

Job Details:
 Roof Pitch : 25.000 Deg
 Roof Material : Metal Tiles
 Ceiling Material : Gib Board 10mm
 Wind Zone : High
 Roof Snow Load : 0.441 kPa

Truss Centres : 900 mm
 Roof Live Load : 0.250kPa
 Floor Live Load : kPa
 Wind Speed : 44.0 m/s

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Job Title :
BL149675

Sheet :
3

Revision Number :

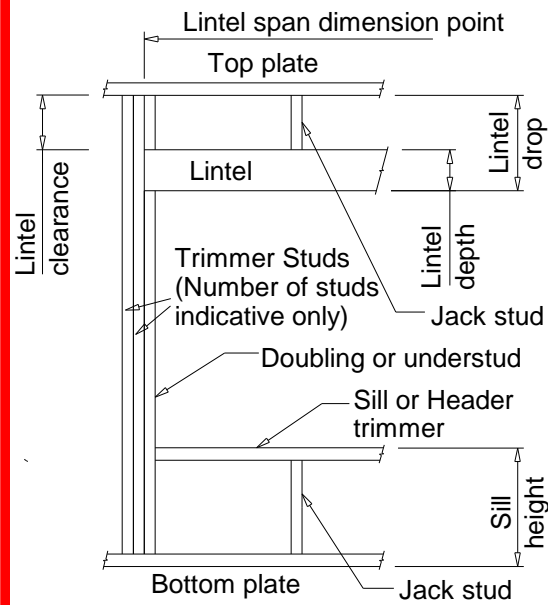
LINTEL FIXING SCHEDULE ALTERNATIVE TO TABLE 8.14 & FIGURE 8.12 NZS 3604:2011

SELECTION CHART FOR LINTEL FIXING

Lintel Span	Loaded Dimension (See Fig. 1.3 NZS 3604:2011)	Light Roof Wind Zone				Heavy Roof Wind Zone				
		L	M	H	VH/EH	L	M	H	VH/EH	
1.0	2.0	E	E	E	F	F	E	E	E	F
	3.0	E	E	F	F	F	E	E	E	F
	4.0	E	F	F	F	G	E	E	F	F
	5.0	E	F	F	G	G	E	E	F	F
	6.0	E	F	F	G	G	E	E	F	F
1.2	2.0	E	E	F	F	F	E	E	E	F
	3.0	E	E	F	F	F	E	E	E	F
	4.0	E	F	F	F	G	E	E	F	F
	5.0	E	F	F	G	G	E	E	F	F
	6.0	F	F	G	G	H	E	E	F	G
1.5	2.0	E	E	F	F	F	E	E	E	F
	3.0	E	F	F	F	G	E	E	F	F
	4.0	E	F	F	G	G	E	E	F	F
	5.0	F	F	G	H	H	E	E	F	G
	6.0	F	F	G	H	H	E	E	F	G
2.0	2.0	E	F	F	F	G	E	E	F	F
	3.0	E	F	F	G	G	E	E	F	F
	4.0	F	F	G	G	H	E	E	F	G
	5.0	F	F	G	H	H	E	E	F	G
	6.0	F	G	G	H	H	E	E	F	G
2.4	2.0	E	F	F	G	G	E	E	F	F
	3.0	F	F	G	G	H	E	E	F	G
	4.0	F	F	G	H	H	E	E	F	G
	5.0	F	G	H	H	H	E	E	F	G
	6.0	F	G	H	H	H	E	E	F	G
3.0	2.0	E	F	F	G	G	E	E	F	F
	3.0	F	F	G	H	H	E	E	F	G
	4.0	F	G	H	H	H	E	E	F	G
	5.0	F	G	H	H	H	E	E	F	G
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	3.0	F	F	G	H	H	E	E	F	G
	4.0	F	G	H	H	H	E	E	F	G
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	6.0	G	H	H	H	H	E	E	F	G
4.2	2.0	F	F	G	G	H	E	E	F	G
	3.0	F	G	H	H	H	E	E	F	G
	4.0	F	G	H	H	H	E	E	F	G
	5.0	G	H	H	H	H	E	E	F	G
	6.0	G	H	H	H	H	E	E	F	G
4.5	2.0	F	F	G	G	H	E	E	F	G
	3.0	F	G	H	H	H	E	E	F	G
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5.1	2.0	F	F	G	G	H	E	E	F	G
	3.0	F	G	H	H	H	E	E	F	G
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	5.0	G	H	H	H	H	E	E	F	G
5.4	2.0	F	F	G	G	H	E	E	F	G
	2.8	F	G	H	H	H	E	E	F	G
	3.0	F	G	H	H	H	E	E	F	G
	4.0	G	H	H	H	H	E	E	F	G
	5.0	G	H	H	H	H	E	E	F	G

NOTE:
 All fixings are designed for vertical loads only. Dead loads include the roof weight and standard ceiling weight of 0.20 kPa.
 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

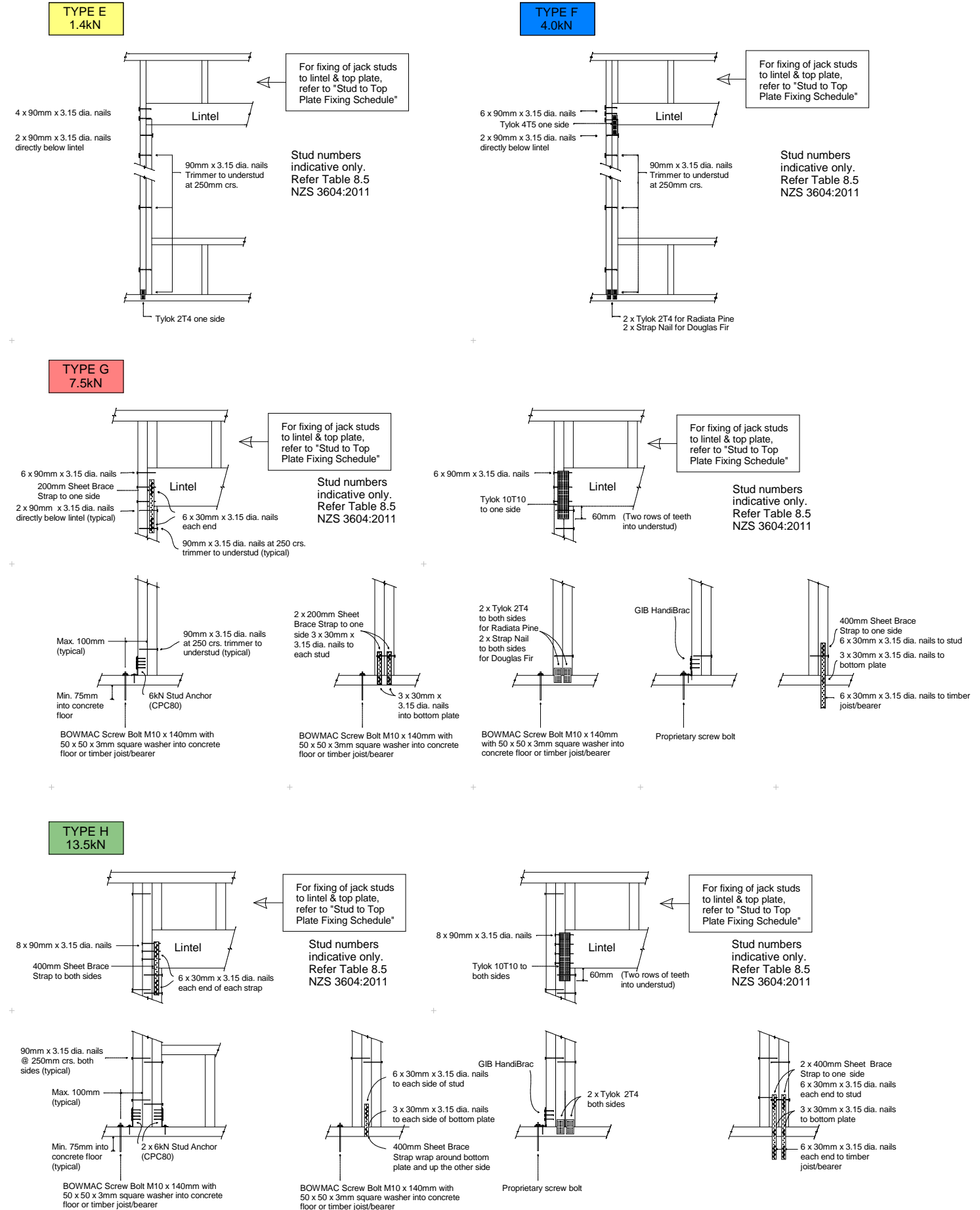
DEFINITIONS



Lintel Supporting Girder Trusses:

Roof Tributary Area	Light Roof Wind Zone			Heavy Roof Wind Zone		
	L, M, H	VH	EH	L, M, H	VH	EH
8.6 m²	G	G	H	G	G	H
11.6 m²	G	H	H	G	G	H
12.1 m²	G	H	H	G	H	H
15.3 m²	H	H	-	G	H	H
19.1 m²	H	-	-	G	H	-
20.9 m²	H	-	-	H	H	-
21.8 m²	H	-	-	H	-	-
34.3 m²	-	-	-	H	-	-

- Notes:
 1) 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.



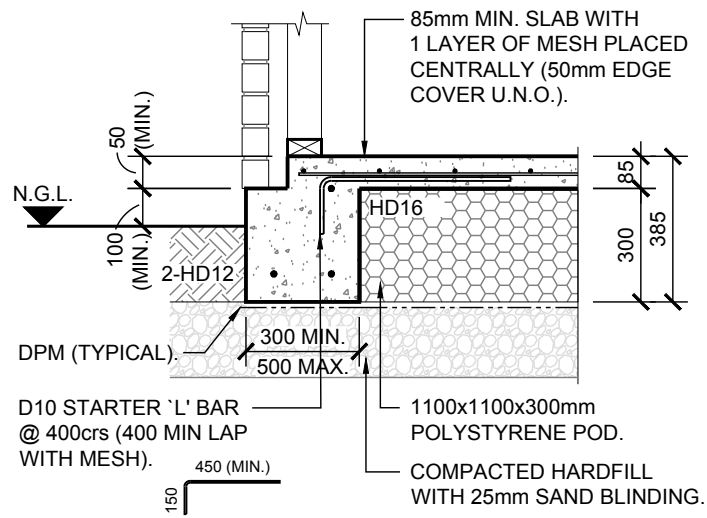
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NEW RESIDENCE LOT 38 BARTON FIELDS, LINCOLN.

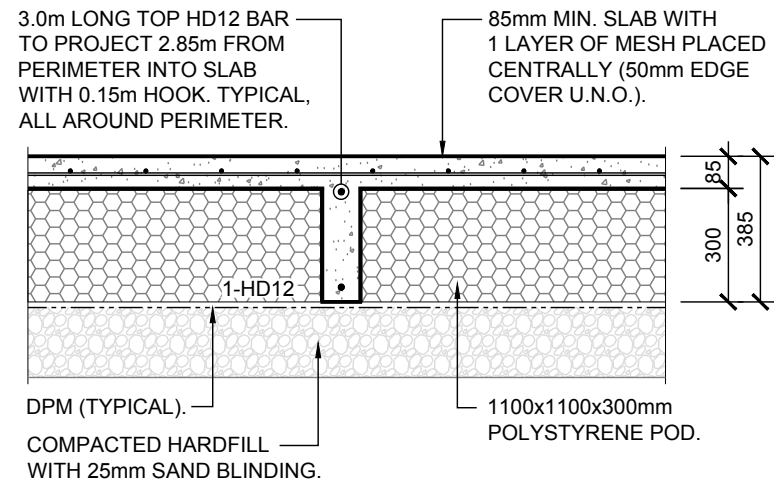
STRUCTURAL DRAWING LIST 10008

DWG No.	TITLE			
S1.01	FOUNDATION LAYOUT & GROUND WORKS DETAIL	0		
S2.01	FOUNDATION DETAILS	0		
S2.02	FOUNDATION DETAILS	0		
ISSUED TO:				
studio@nomolos.co.nz			A	
		DATE	21-12-2018	

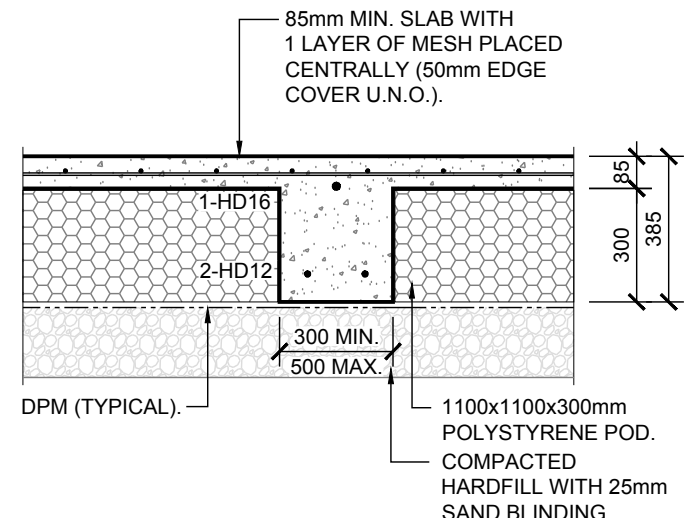
SDC - Approved Building Consent Document - BC190039 - Pg 24 of 27 - 26/02/2019 - lloyd m



EXTERNAL FOOTING DETAIL



INTERMEDIATE RAFT DETAIL



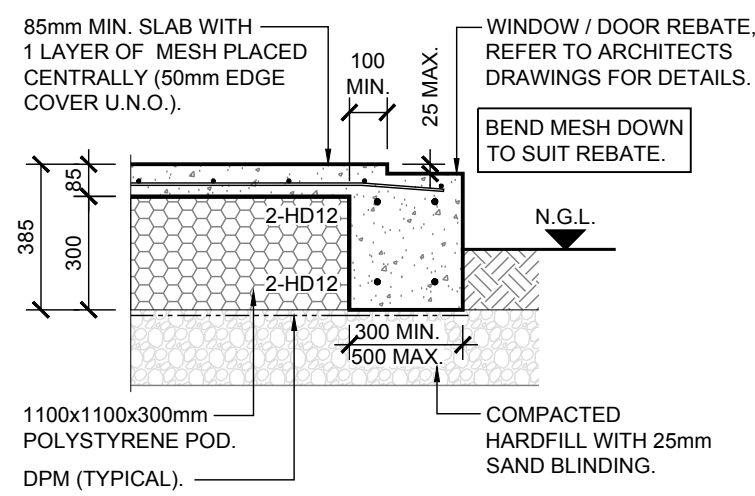
INTERNAL FOOTING DETAIL

REINFORCEMENT NOTES:

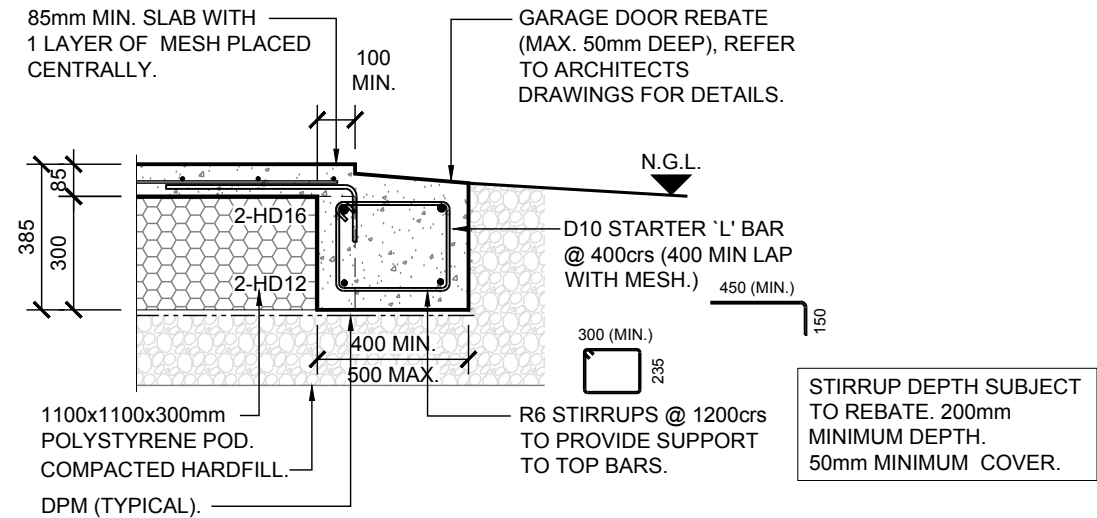
BAR LAP LENGTHS:
 D10 - 400mm HD12 - 700mm
 D12 - 500mm HD16 - 900mm
 D16 - 650mm HD20 - 1050mm

BAR GRADES:
 R - STRUCTURAL GRADE ROUND BAR.
 D - DEFORMED BAR GRADE 300E
 HD - DEFORMED BAR GRADE 500E

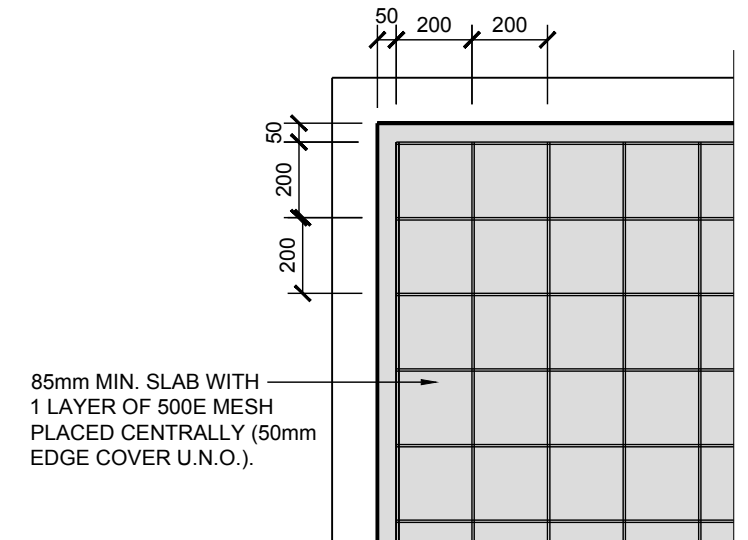
ALL FLOOR MESH TO BE TRIMMED TO HAVE TWO LONGITUDINAL BARS TO THE PERIMETER BEAM AND TO HAVE 50mm EDGE COVER THROUGHOUT.



REBATE DETAIL TYPE (IF REQUIRED)

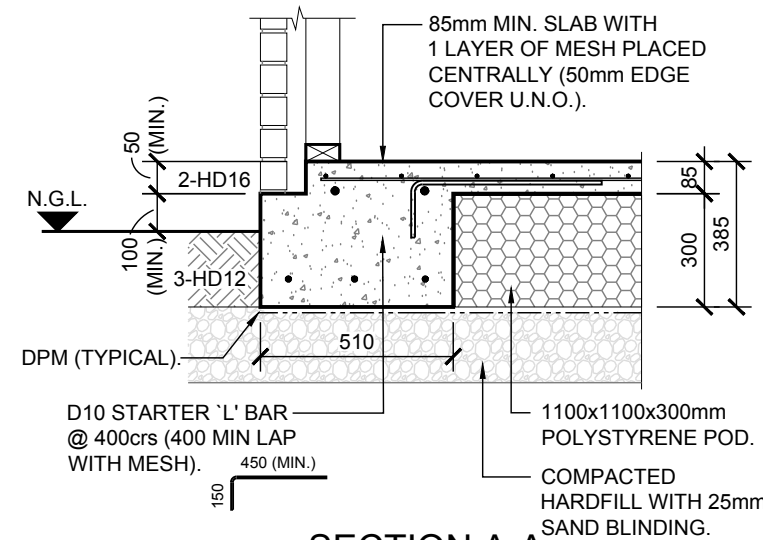


GARAGE DOOR REBATE DETAIL

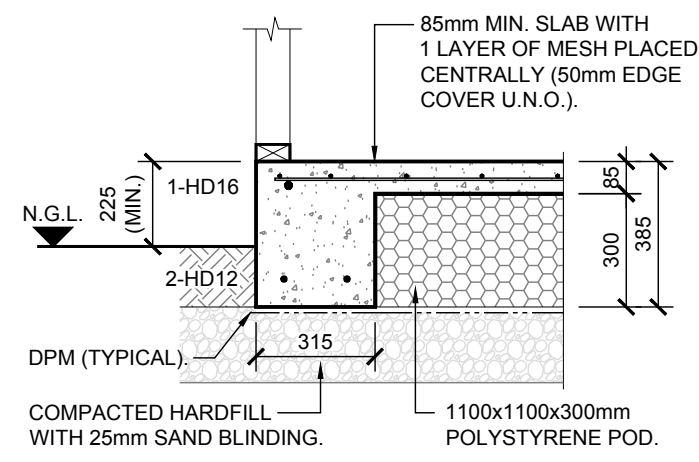


MESH LAYOUT - PLAN.
SCALE 1:20

FOUNDATION DETAILS.
SCALE 1:20



SECTION A-A
SCALE 1:20

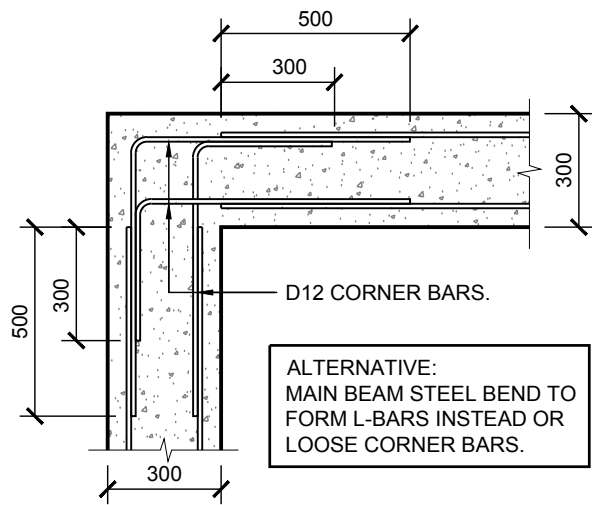


SECTION B-B
SCALE 1:20

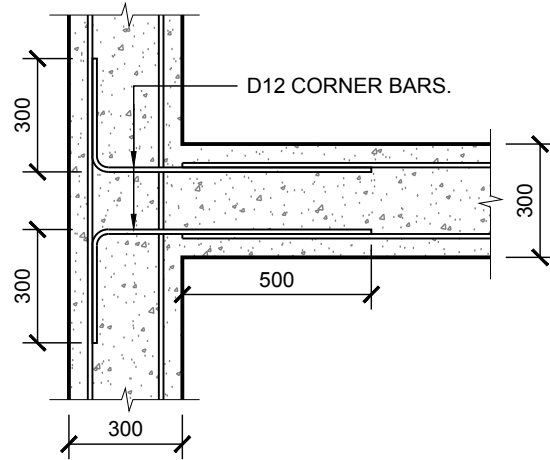
CONSTRUCTION ISSUE

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS

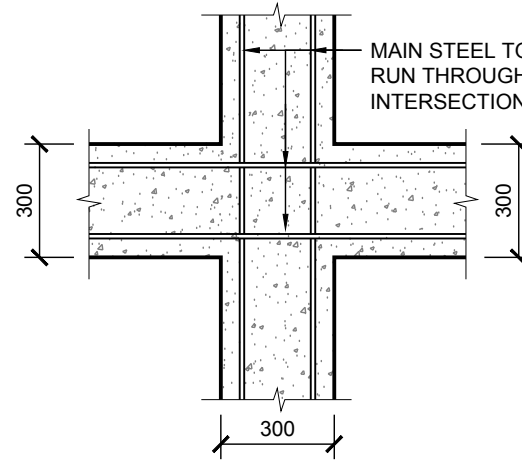
	CLIENT G.J. GARDNER.	PROJECT TITLE LOT 38 BARTON FIELDS, LINCOLN.	DRAWING TITLE FOUNDATION DETAILS.	REV. BY. DATE: COMMENT:	DESIGN. JOB No. DRAWING No. REV.
				0 C.H. 21-12-2018 ISSUED FOR CONSTRUCTION	C.B. 10008 S2.01 0 DRAWN. SCALE @ A3 C.H. 1:20



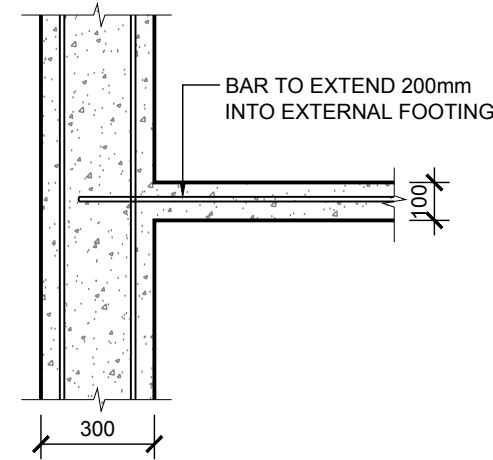
EXTERNAL CORNER DETAIL.
(BRICK VENEER BOTTOM STEEL).



EXTERNAL TO INTERNAL DETAIL.
(BRICK VENEER BOTTOM STEEL).



INTERNAL JUNCTION DETAIL.



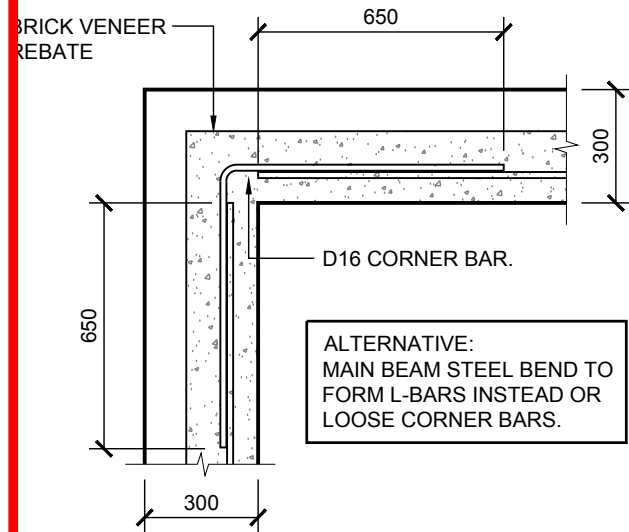
EXTERNAL TO INTERMEDIATE RAFT DETAIL.
(BRICK VENEER BOTTOM STEEL)

REINFORCEMENT NOTES:

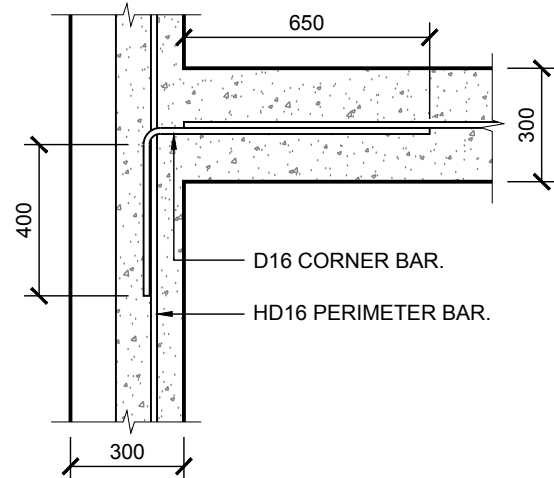
BAR LAP LENGTHS:
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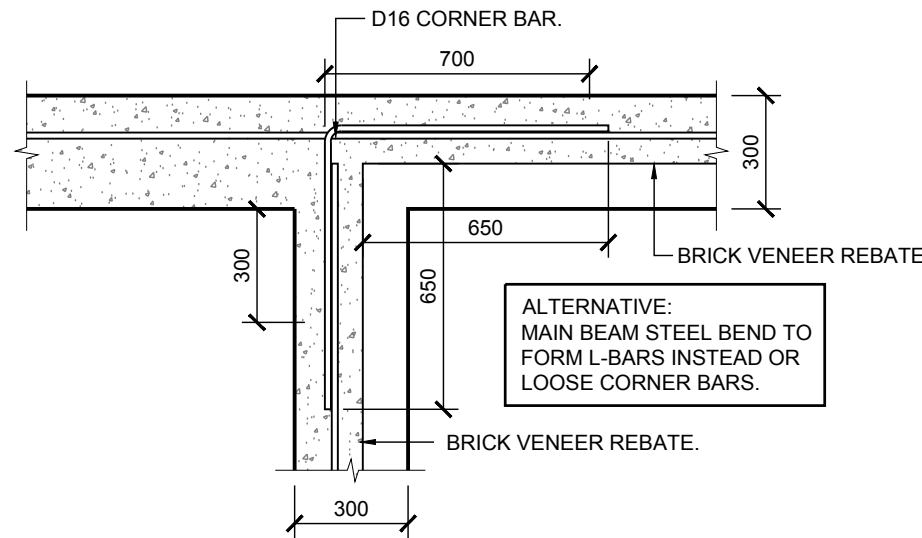
ALL FLOOR MESH TO BE TRIMMED TO HAVE TWO LONGITUDINAL BARS TO THE PERIMETER BEAM AND TO HAVE 50mm EDGE COVER THROUGHOUT.



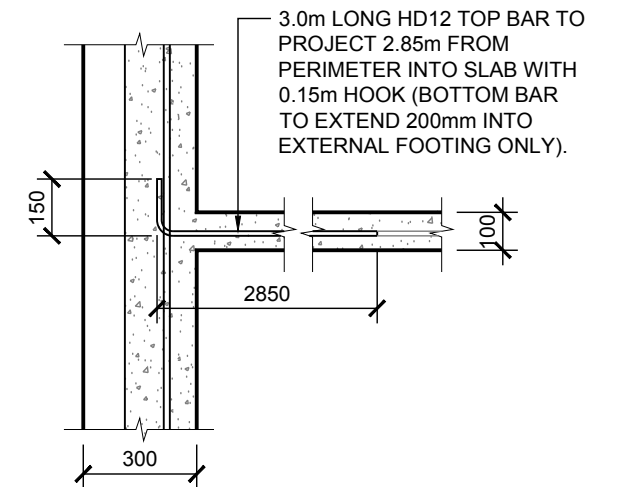
EXTERNAL CORNER DETAIL (TOP BARS).
(BRICK VENEER TOP STEEL).



EXTERNAL TO INTERNAL DETAIL.
(BRICK VENEER TOP STEEL).



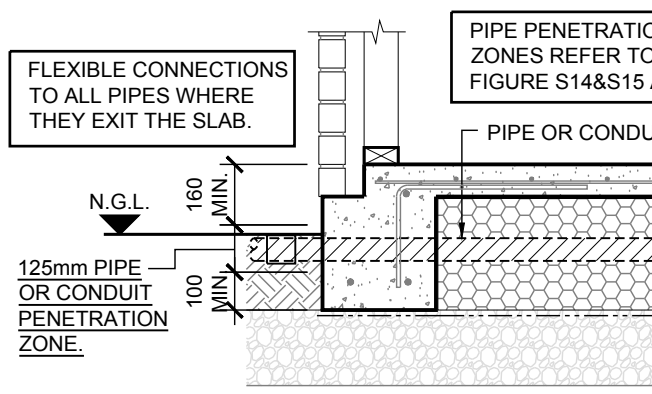
EXTERNAL CORNER TO INTERNAL BEAM DETAIL
(BRICK VENEER TOP STEEL).



EXTERNAL TO INTERMEDIATE RAFT DETAIL.
(BRICK VENEER TOP STEEL).

FOUNDATION INTERSECTION DETAILS - PLAN.

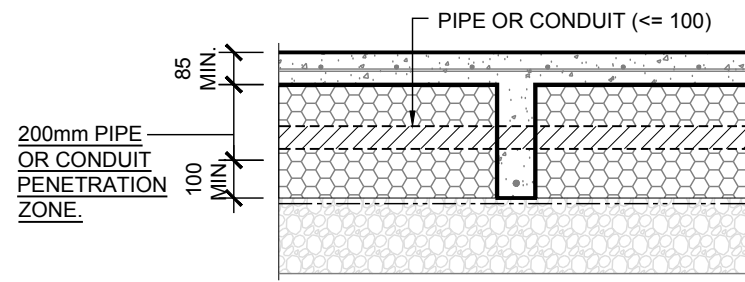
SCALE 1:20



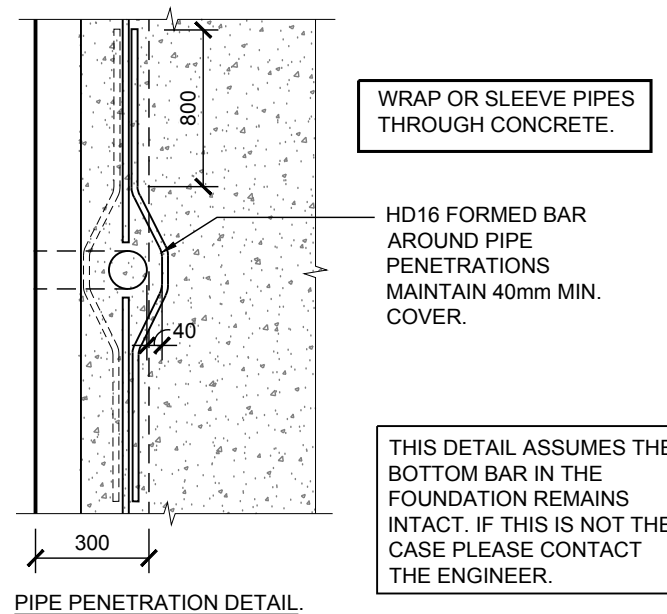
EXTERNAL PIPE PENETRATION DETAIL

PIPE PENETRATION DETAILS FOR HIGH SEISMIC ZONES REFER TO MBIE GUIDELINE SECTION 'A' FIGURE S14&S15 AND BUILDING CODE CLAUSE G13.

FOR PIPE DETAILS INCLUDING PROTECTION REFER TO ARCHITECTS DRAWINGS.



INTERNAL PIPE PENETRATION DETAIL



PIPE PENETRATION DETAIL.

WRAP OR SLEEVE PIPES THROUGH CONCRETE.

HD16 FORMED BAR AROUND PIPE PENETRATIONS MAINTAIN 40mm MIN. COVER.

THIS DETAIL ASSUMES THE BOTTOM BAR IN THE FOUNDATION REMAINS INTACT. IF THIS IS NOT THE CASE PLEASE CONTACT THE ENGINEER.

PIPE PENETRATION DETAIL - PLAN.

SCALE 1:20

CONSTRUCTION ISSUE

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS

	CLIENT	PROJECT TITLE	DRAWING TITLE	REV.	BY.	DATE:	COMMENT:	DESIGN.	JOB No.	DRAWING No.	REV.
	G.J. GARDNER.	LOT 38 BARTON FIELDS, LINCOLN.	FOUNDATION DETAILS.	0	C.H.	21-12-2018	ISSUED FOR CONSTRUCTION	C.B.	10008	S2.02	0
								DRAWN.	SCALE @ A3		
								C.H.	1:20		