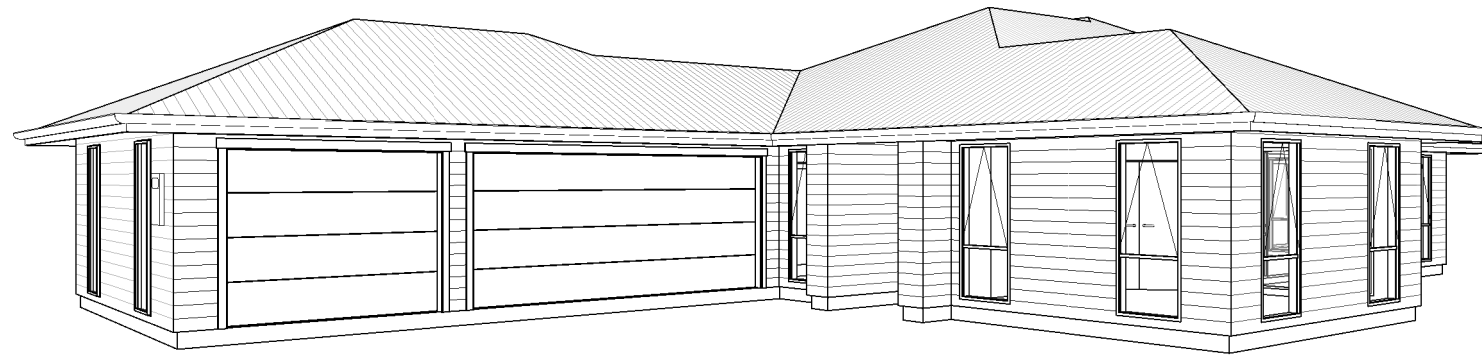


Approved Building Consent Documents

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

Selwyn District Council
Approved Building Consent Document
BC142343 - Pg 1 of 20
25/11/2014 mcmilj

INSPECTION BOOKING TIMEFRAMES		
Telephone 03 347 2839		
Call received	<i>Before 3pm inspection will be done</i>	<i>After 3pm inspection will be done</i>
Monday	Wednesday	Thursday
Tuesday	Thursday	Friday
Wednesday	Friday	Monday
Thursday	Monday	Tuesday
Friday	Tuesday	Wednesday



No building until S224 issued

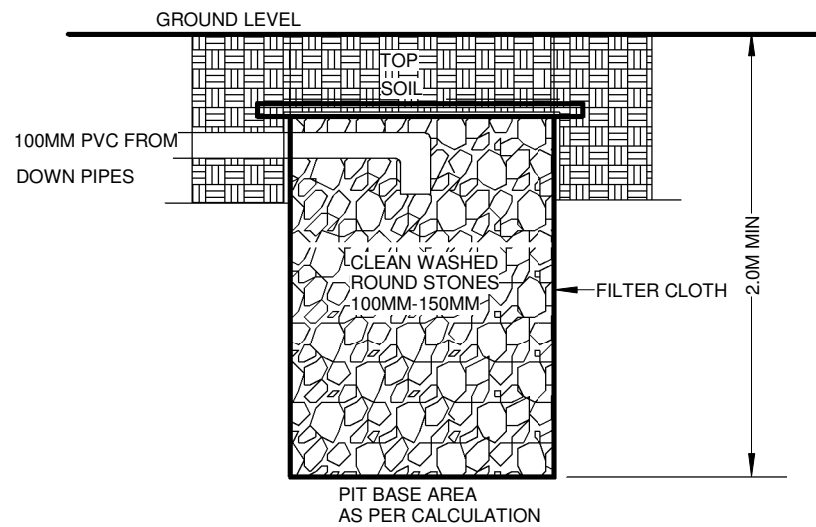
PVC 100MM SEWER AND STORMWATER
1:120 MIN FALL PVC 40MM WASTE PIPES
FROM FITTINGS OVER 3.5M LONG TO BE VENTED
MIN FALL 1:40
100MM VENT TO DRAIN
PVC 75MM DPS PER 70M² ROOF
MIN GUTTER C/SECTION 60MMX115MM
G13 AS1

LOT 267 DP
SITE=735M²
DWELLING=222M²
SITE COVERAGE=30%

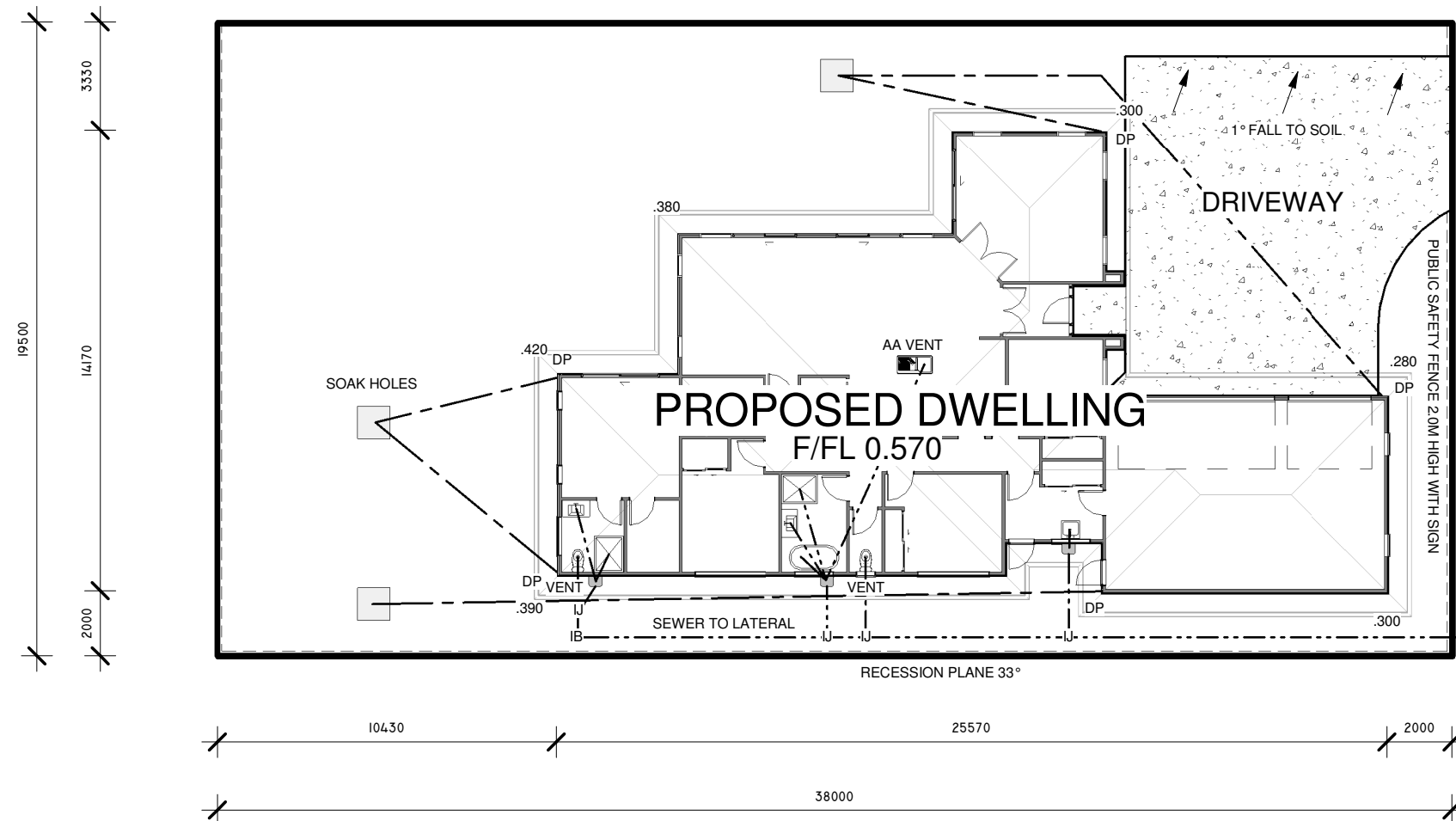
PVC 100MM SEWER AND STORMWATER
1:120 MIN FALL PVC 40MM WASTE PIPES
FROM FITTINGS OVER 3.5M LONG TO BE VENTED
MIN FALL 1:40
SOAK HOLE
DUG TO SOAKAGE
WITH BIDEN CLOTH
AND ROUND STONES
100MM VENT TO DRAIN
PVC 75MM DPS PER 70M² ROOF
MIN GUTTER C/SECTION 60MMX115MM
G13 AS1

WIND ZONE=H
WIND REGION=A
EARTHQUAKE ZONE=2
CORROSION ZONE=C
SNOW LOAD=N4

1. GALV CHAINLINK NETTING WITH GRID OF 50MMX50MM POST @ 2.5M CRS FENCE
2. HAVE NO OPENINGS OTHER THAN THOSE APPROVED BY THE TERRITORIAL AUTHORITY FOR ACCESS AND VIEWING
3. HAVE NO GATES OR DOORS WHICH PROJECT BEYOND THE SITE
4. CONTAIN NO PROJECTION THAT WOULD BE A HAZARD TO TRAFFIC OR PEOPLE.
5. CLEARLY MARKED WHERE THE BARRIER ITSELF MAY OTHERWISE PRESENT A HAZARD TO TRAFFIC OR PASSERSBY



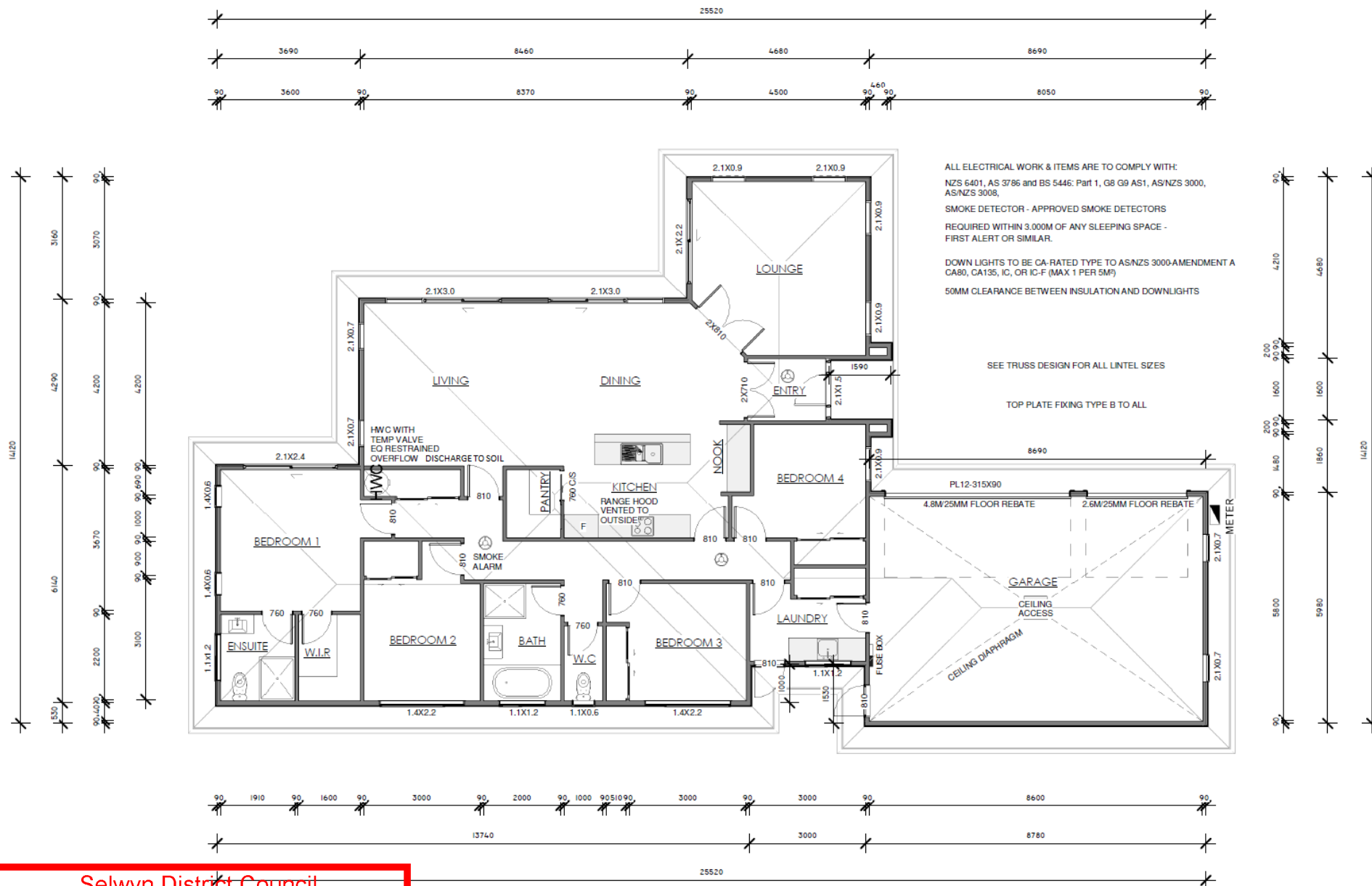
ROOF AREA=302M²
SOIL CONDITIONS: NON-ROCK AREA=PERCOLATION RATE=1.5L/M²/MIN
SOAKHOLE DEPTH=2.0M MIN FREE DRAINING SINGLE
2.5m³ OF STORAGE PER 100M² OF IMPERVIOUS AREA (AS PER CCC's
GLOBAL SOAKAGE CONSENT CRC000315)
SOAKHOLE AREA=7.55M²



DATUM
0.00

ROAD

LATERAL TO BE
CONFIRMED



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BO142343
25/11/2014

3 Print Place Creative Church
Ph 03 3366394
merv@cronindesign.co.nz
mcmilij

WALTERS RESIDENCE
LOT 267 PARK LANE
ROLLESTON

Floor Plan 222M²
LOF M

Designed by
A.L

Date
14/10/2014

Scale
1 : 100

New Dwelling

14209

02 of 16



1 North
1 : 100



2 South
1 : 100



3 West
1 : 100



4 East
1 : 100

SG=SAFETY GLASS TO NZS 4223 1999
HUMAN IMPACT PART 3
ALL GLASS IS DOUBLE GLAZED
TO NZS 4218 2004

LINEA WEATHERBOARD ON BATTENS

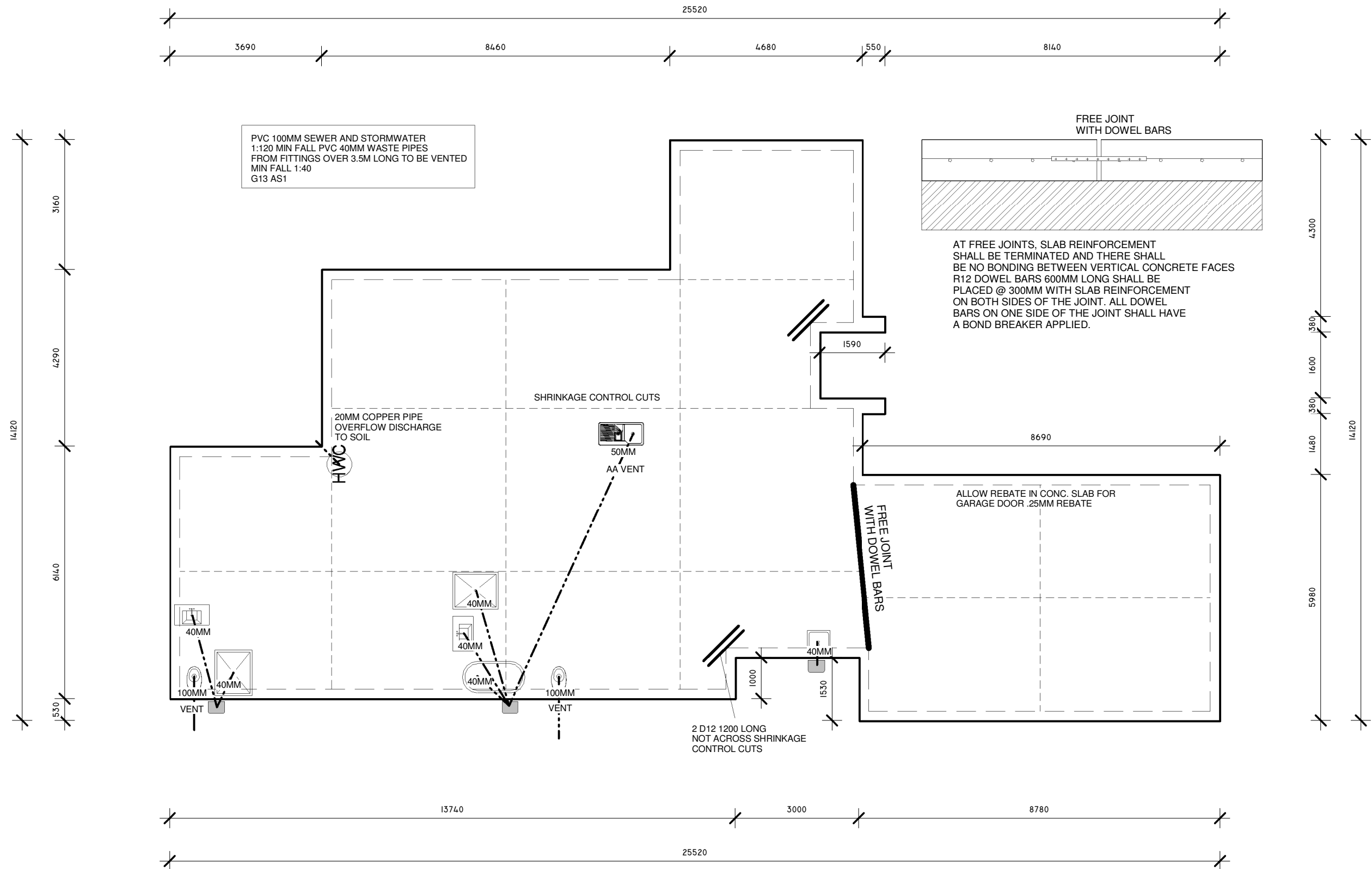
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BC142343
25/11/2014
mcmilj

WALTERS RESIDENCE
LOT 267 PARK LANE
ROLLESTON

Elevation

Designed by A.L	Date 14/10/2014	Scale 1 : 100
New Dwelling		
14209	03	of 16



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25/11/2014 mcmilj

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merv@cronindesign.co.nz

WALTERS RESIDENCE
LOT 267 PARK LANE
ROLLESTON

Floor/Foundation

Designed by
A.L

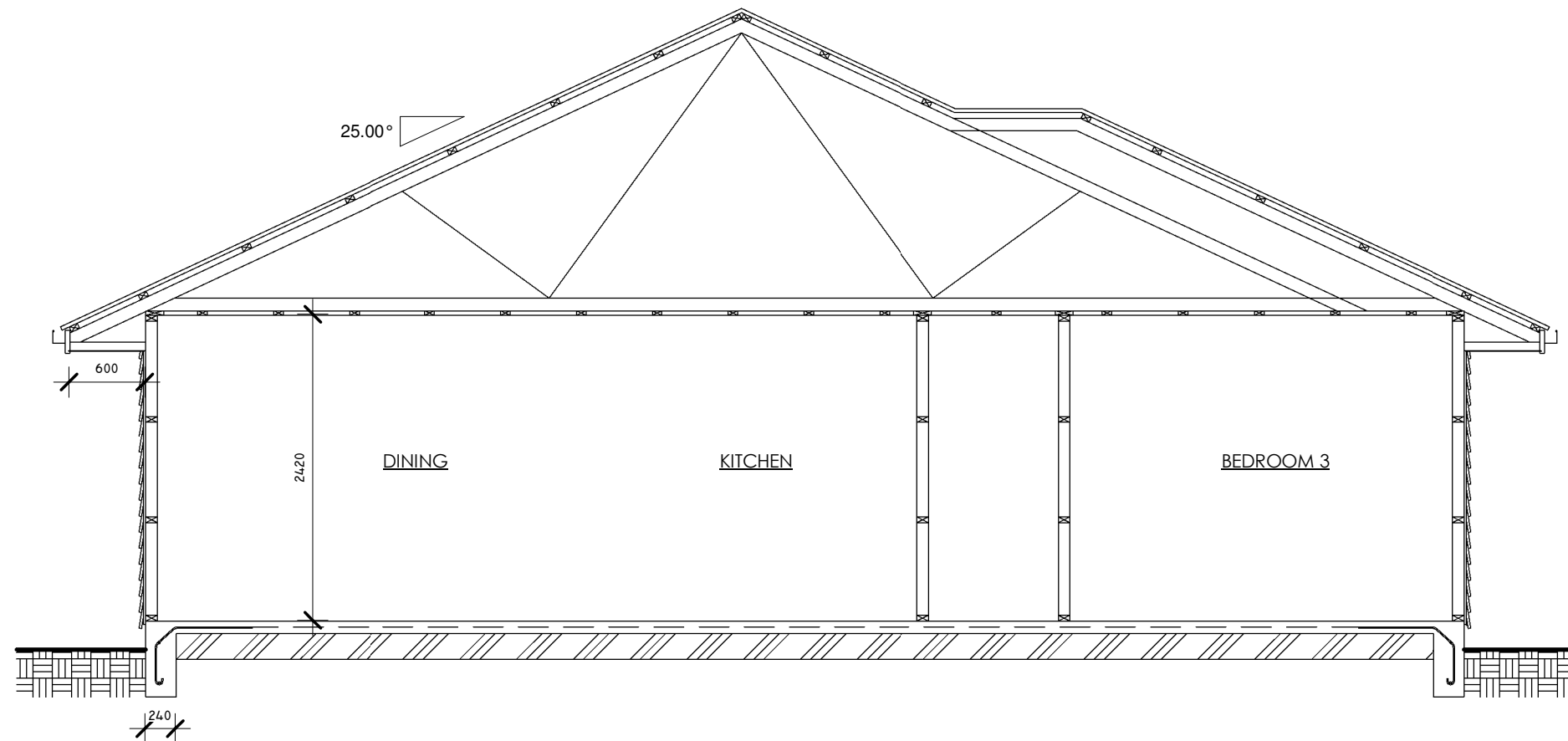
Date
20/11/2014

Scale
1 : 100

New Dwelling

14209

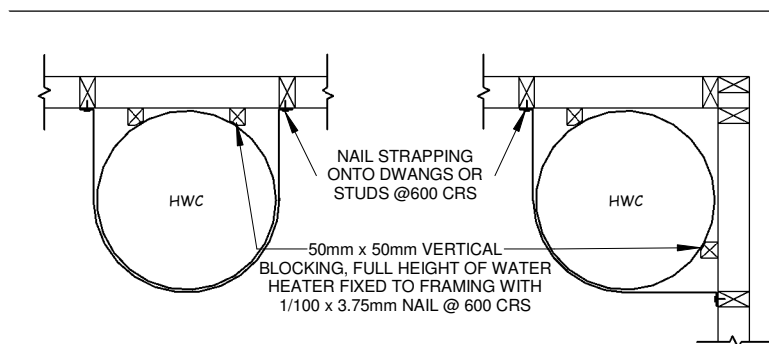
04 of 16



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PLACEMENT OPTION 1

NOTE:

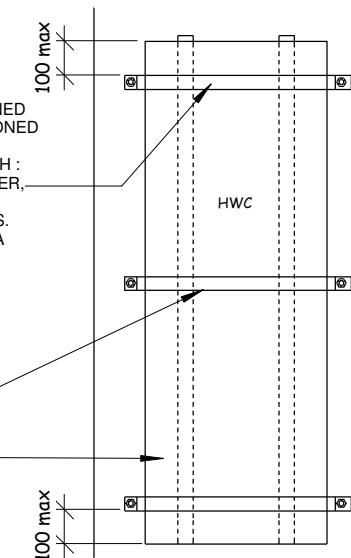
THIS DETAIL IS FOR STORAGE WATER HEATERS WITH A CAPACITY OF 90 - 360 LITRES

STORAGE WATER HEATERS TO BE RESTRAINED BY 25 x 1mm GALV STEEL STRAPPING TENSIONED WHEN FIXED IN PLACE. STRAPS TO BE FIXED TO WALL FRAMING WITH : -1/8mm COACH SCREW WITH 30 x 2mm WASHER, OR -2/SCREWS WITH 20 x 2.5mm THICK WASHERS. SCREWS TO PENETRATE TIMBER FRAMING A MINIMUM OF 50mm

EXTRA CENTRE STRAP FOR WATER HEATERS EXCEEDING 200 LITRES

50mm x 50mm VERTICAL BLOCKING, FULL HEIGHT OF WATER HEATER

PLACEMENT OPTION 2



NOTES:

- ALL WORKMANSHIP TO BE OF BEST TRADESMAN LIKE MANNER
- ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED BEFORE AND CONSTRUCTION COMENCES.
- ALL WORK TO CONFIRM TO NZ BUILDING CODE 3604.2011 AND AMENDMENTS
- THESE PLANS TO BE READ IN CONJUNCTION WITH WRITTEN SPECIFICATIONS ATTACHED.

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WALTERS RESIDENCE
LOT 267 PARK LANE
ROLLESTON

Cross Section

Designed by
A.L

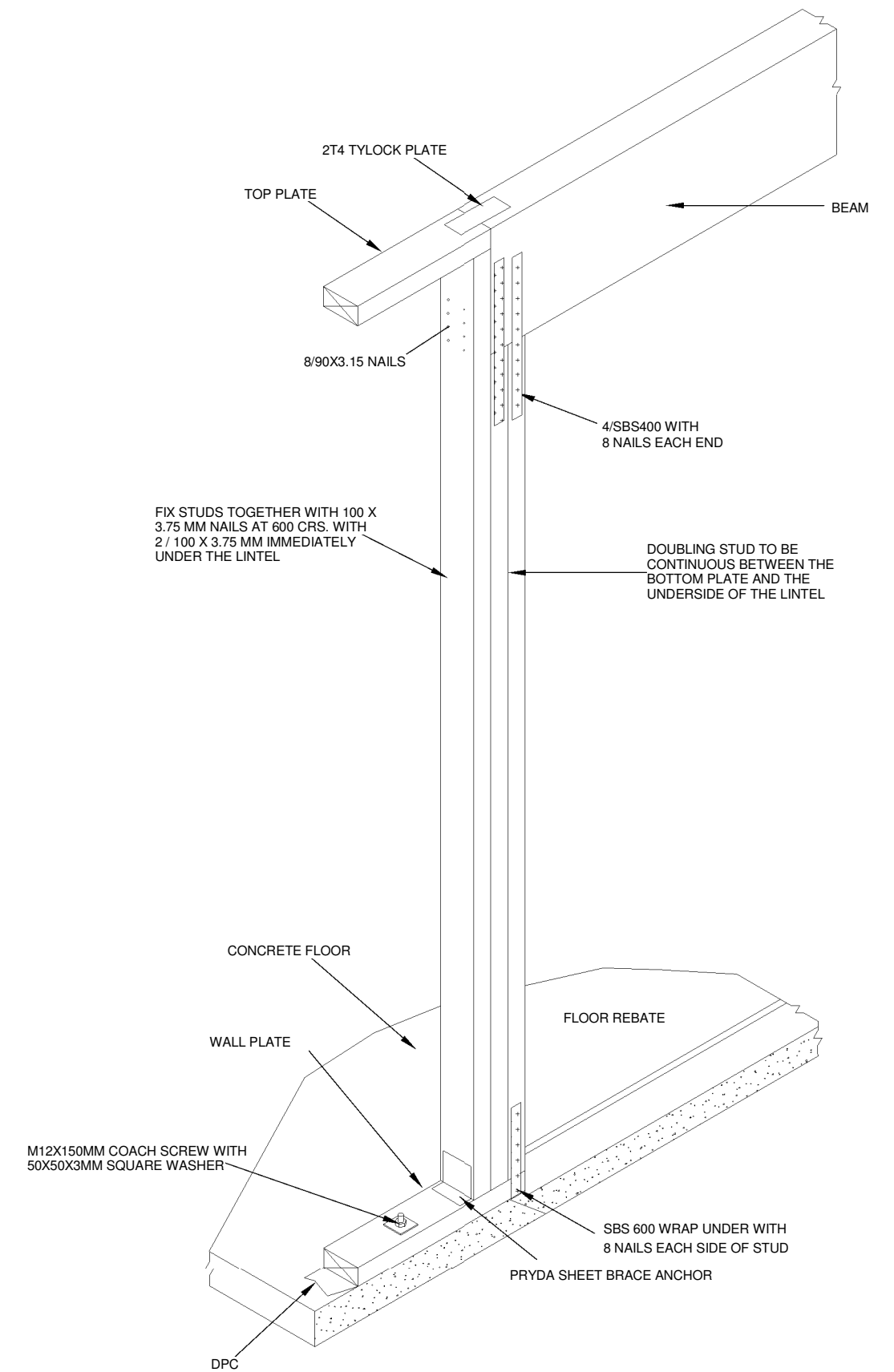
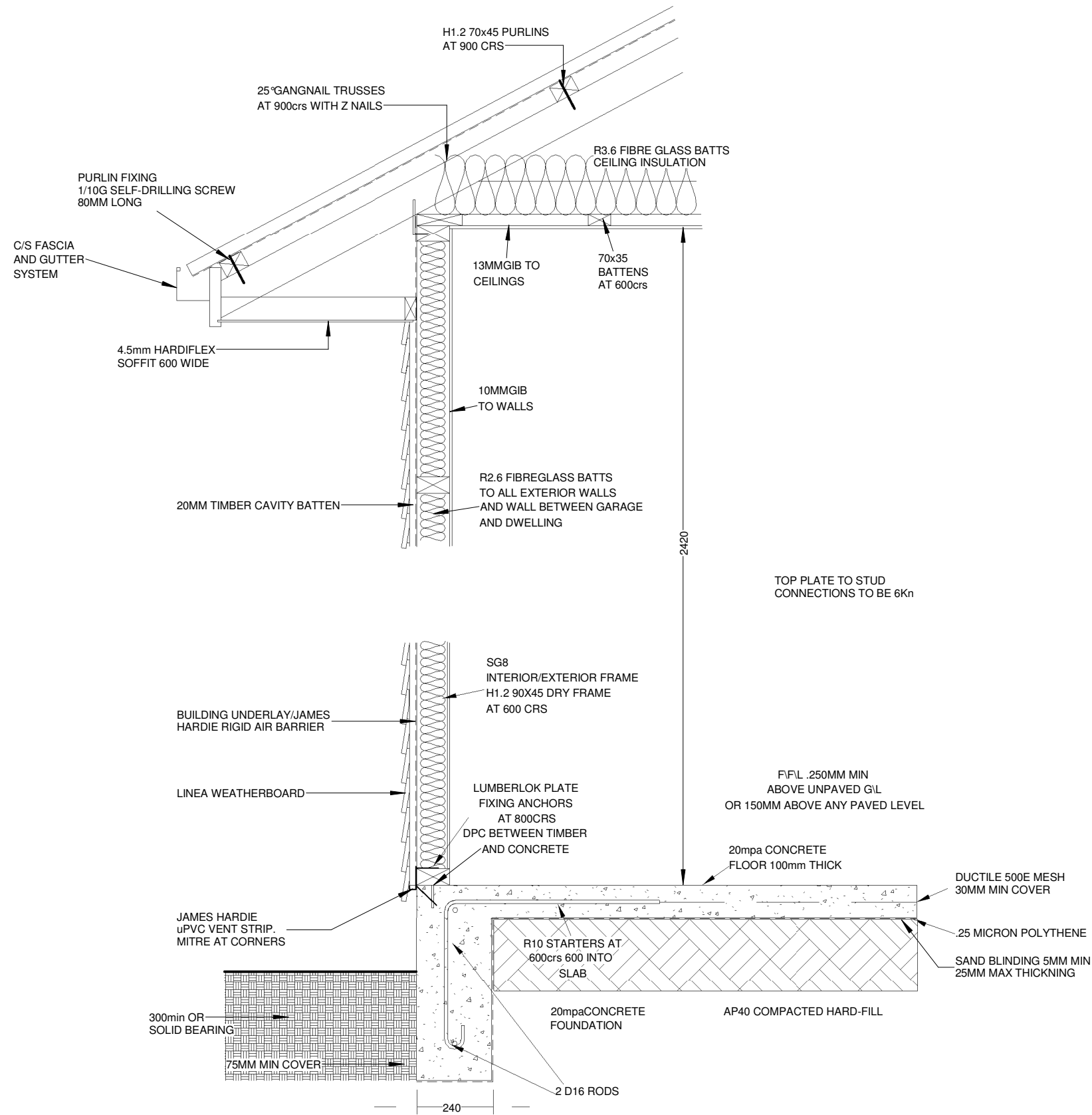
Date
14/10/2014

Scale
As
indicated

New Dwelling

14209

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BC142343 - Pg 7 of 20
25/11/2014 mcmilj

WALTERS RESIDENCE
LOT 267 PARK LANE
ROLLESTON

Detail Section

Designed by
A.L

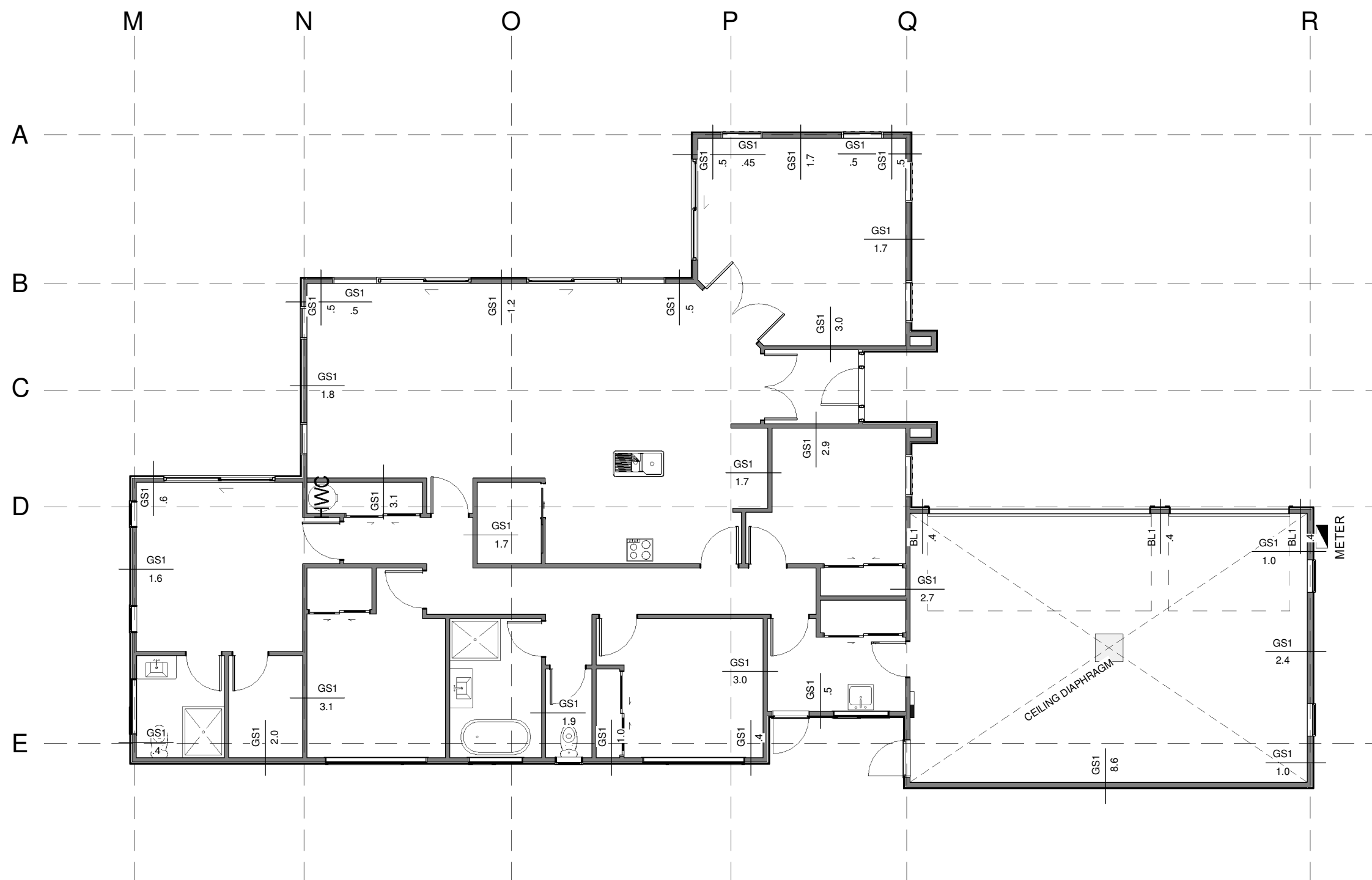
Date
14/10/2014

Scale
1:100

New Dwelling

14209

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BC142343
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25/11/2014

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WALTERS RESIDENCE
LOT 267 PARK LANE
ROLLESTON

Bracing

Designed by
A.L

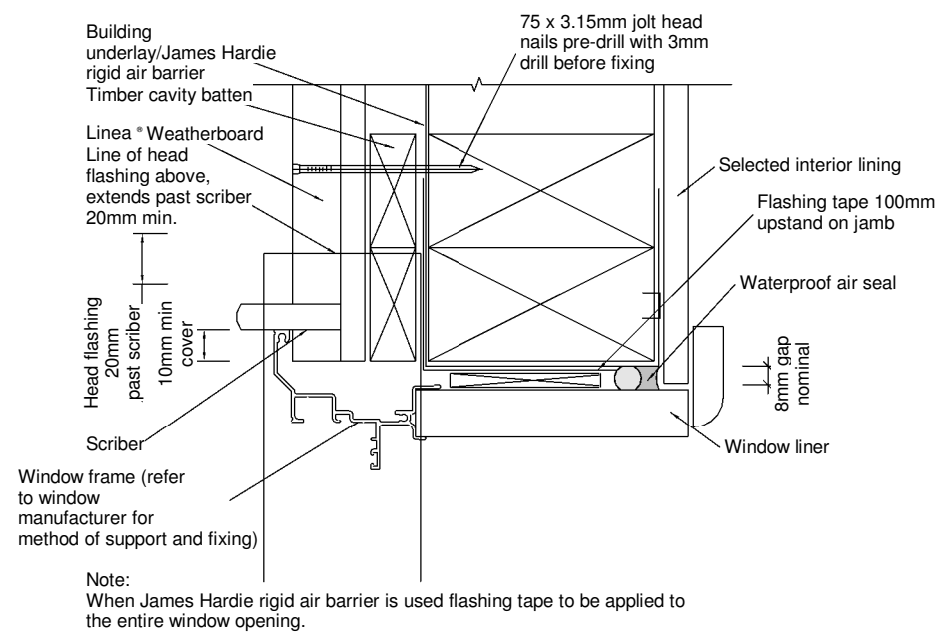
Date
14/10/2014

Scale
1 : 100

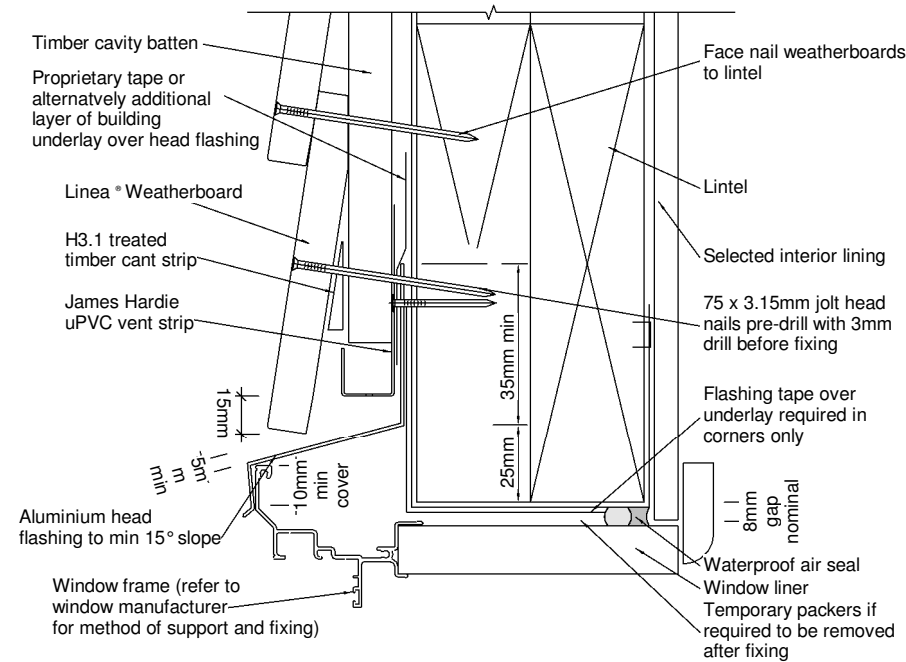
New Dwelling

14209

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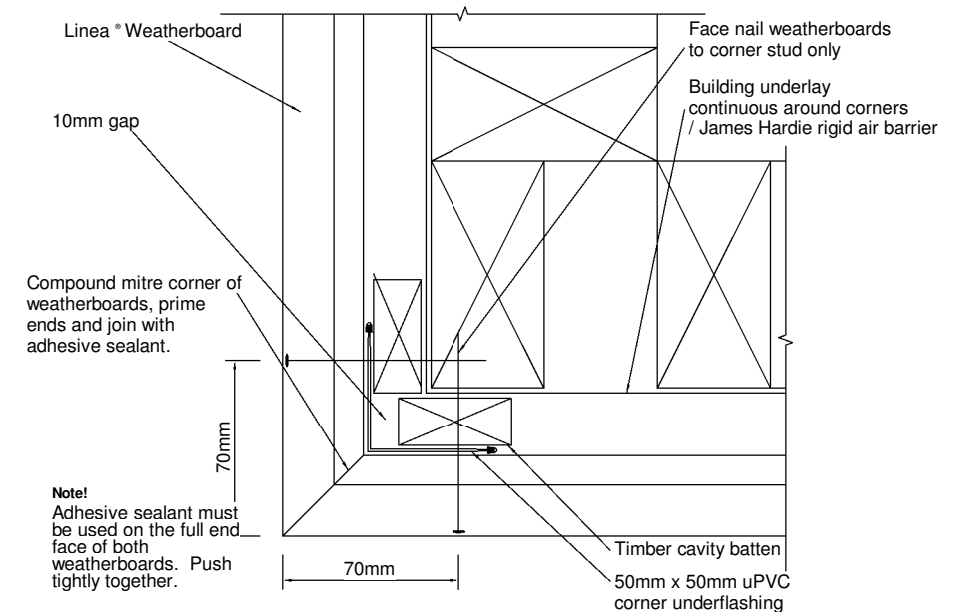


TIMBER CAVITY WINDOW AND DOOR JAMB WITHOUT FACINGS

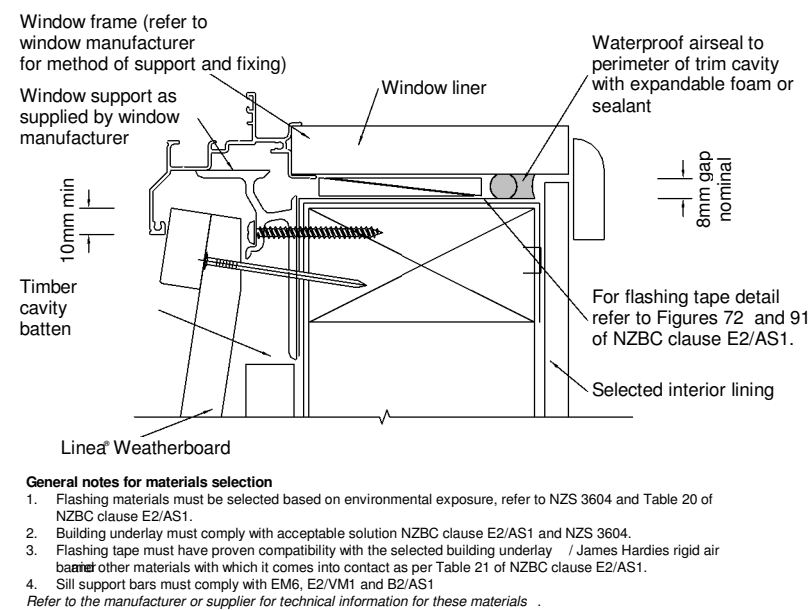


Note:
 • When James Hardie rigid air barrier is used flashing tape to be applied to the entire window opening.
 • Sealant must be installed between head flashing and flashing and trim in VH and EH wind zones and SED projects.

TIMBER CAVITY WINDOW AND DOOR HEAD WITHOUT FACINGS



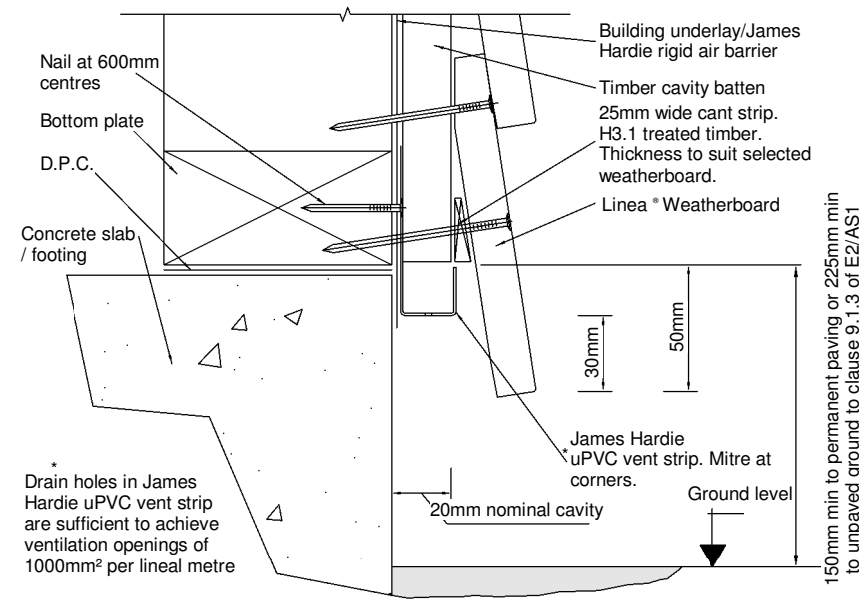
TIMBER CAVITY MITRE CORNER



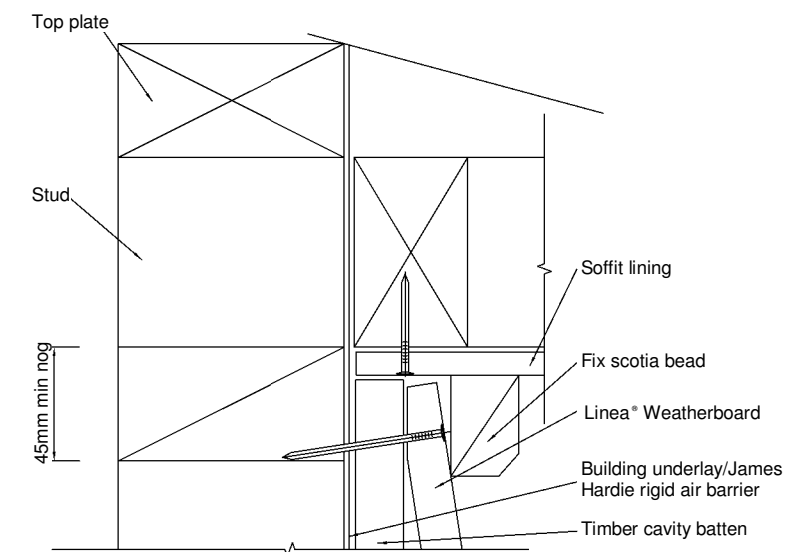
General notes for materials selection

1. Flashing materials must be selected based on environmental exposure, refer to NZS 3604 and Table 20 of NZBC clause E2/AS1.
 2. Building underlay must comply with acceptable solution NZBC clause E2/AS1 and NZS 3604.
 3. Flashing tape must have proven compatibility with the selected building underlay / James Hardie rigid air barrier and other materials with which it comes into contact as per Table 21 of NZBC clause E2/AS1.
 4. Sill support bars must comply with EM6, E2/VM1 and B2/AS1.
- Refer to the manufacturer or supplier for technical information for these materials.

TIMBER CAVITY WINDOW AND DOOR SILL WITHOUT FACINGS



TIMBER CAVITY FOUNDATION



TIMBER CAVITY SOFFIT JUNCTION

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WALTERS RESIDENCE
LOT 267 PARK LANE
ROLLESTON

Linea Details A

Designed by
A.L

Date
 14/10/2014

Scale
 1:3

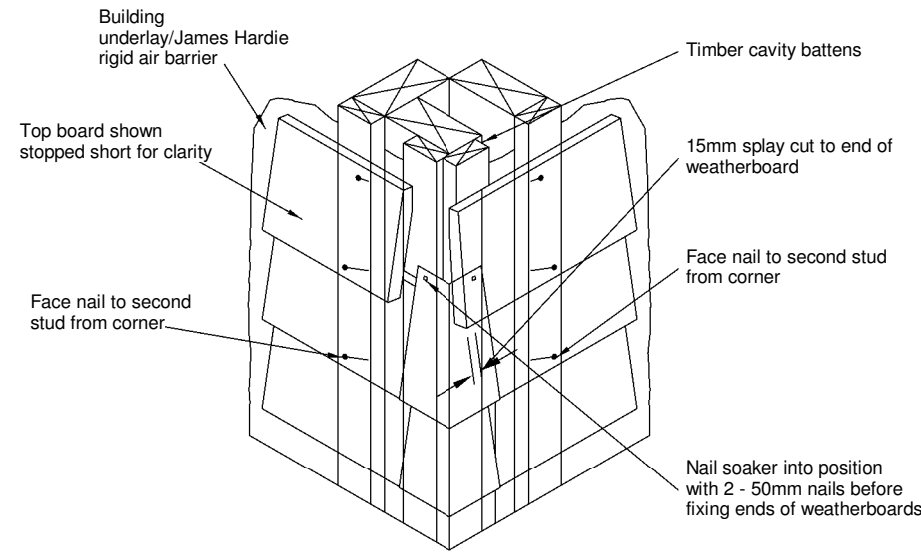
New Dwelling

14209

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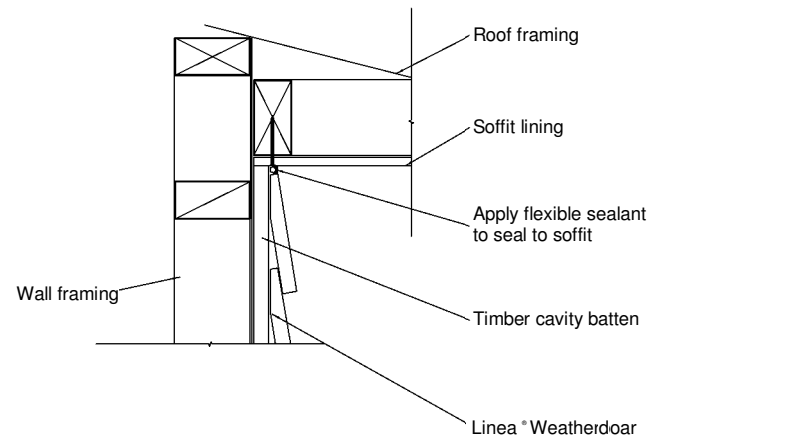
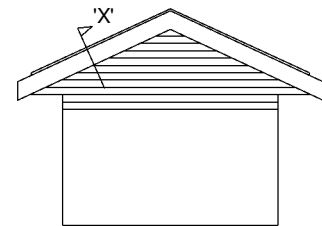
17/10/2014 11:38:20 a.m.

C:\CRONIN DESIGN\2014 PLAN\14209 JOHN WALTERS RESIDENCE LOT 267 LLYOD PARK ROLLESTON\14209 LOT 267 PARK LANE WALTERS RESIDENCE.rvt



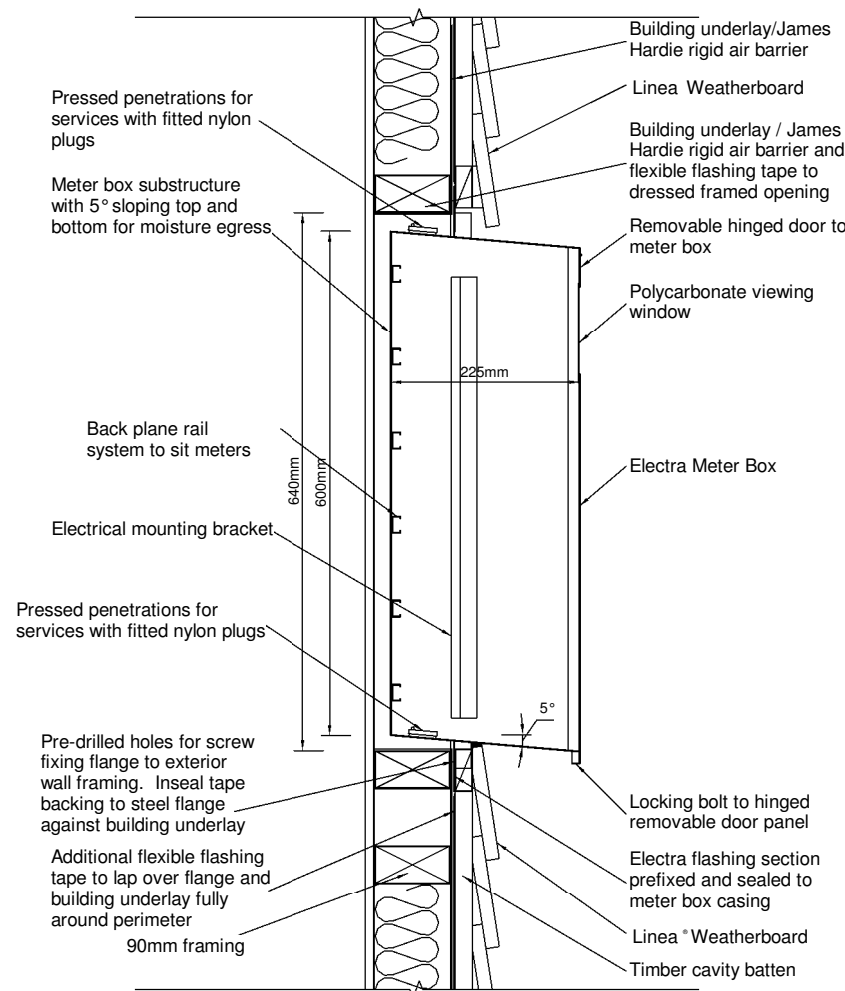
Soaker material	Nail material
Copper	Copper or phosphor bronze
Aluminium	Hot dip galvanised
Stainless steel	Stainless steel

TIMBER CAVITY EXTERNAL CORNER SOAKER

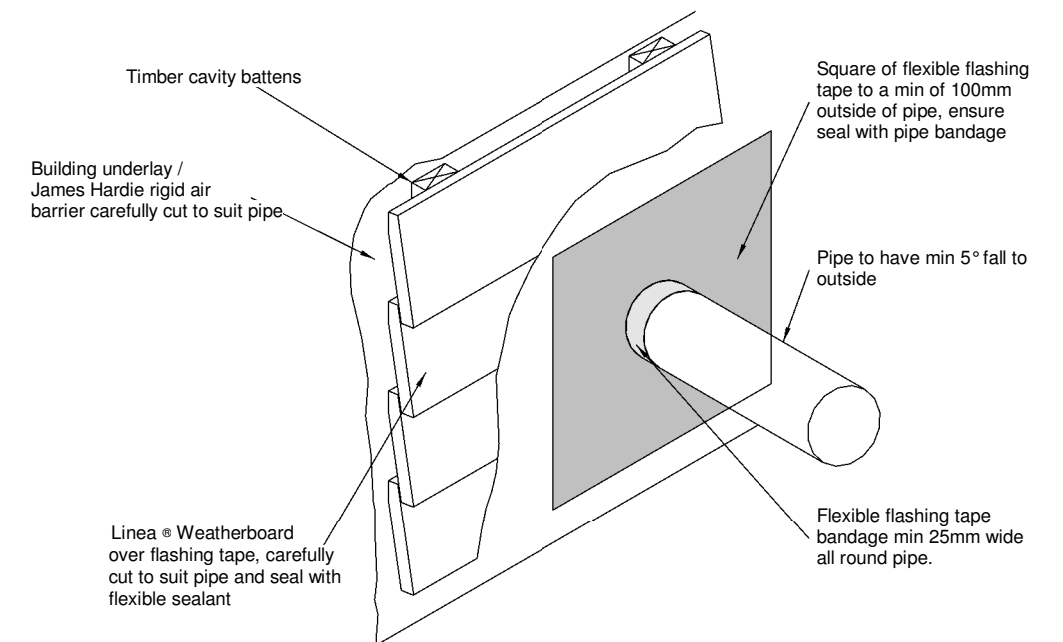
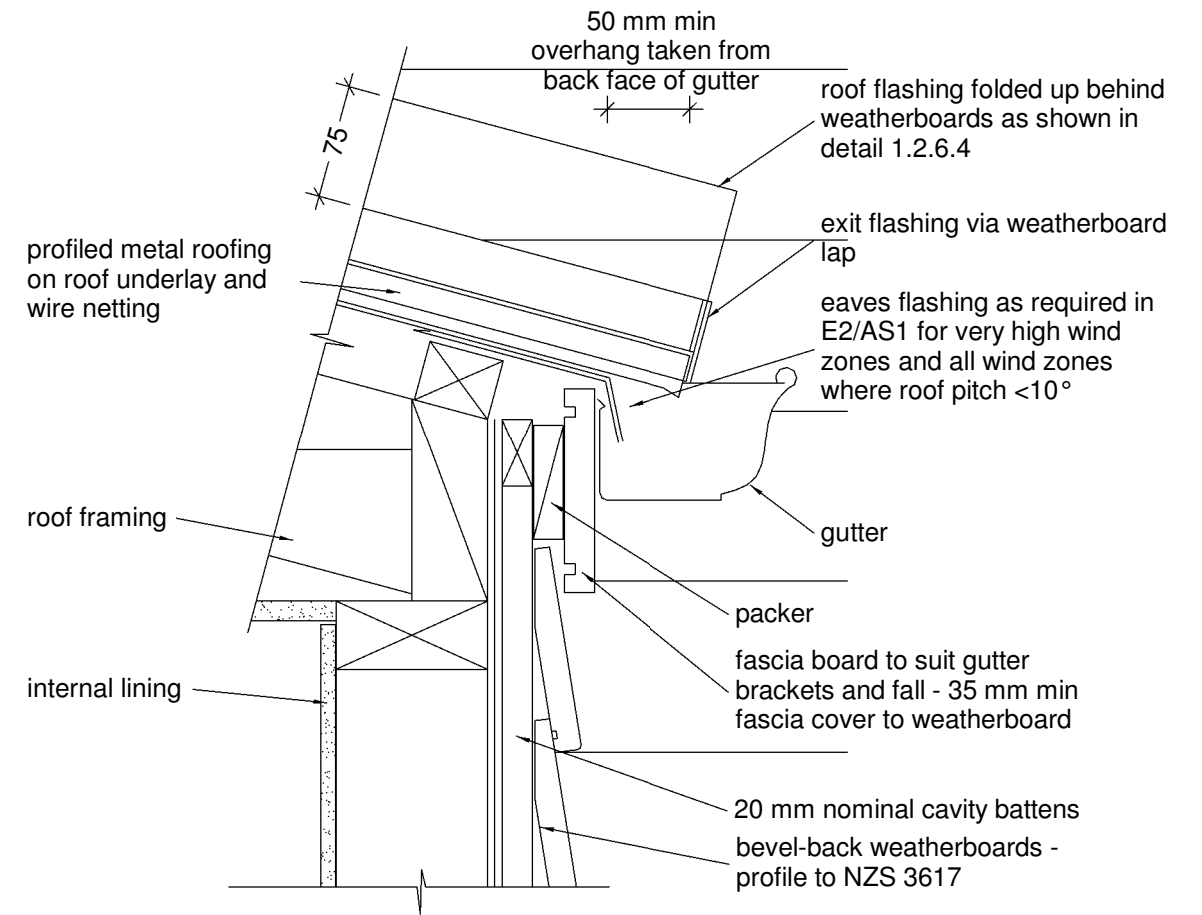


The Linea® Weatherboard must be neat cut and silicone sealed to angle of soffit. Alternatively a scotia can be scribed and sealed to Linea® Weatherboard and the soffit lining.

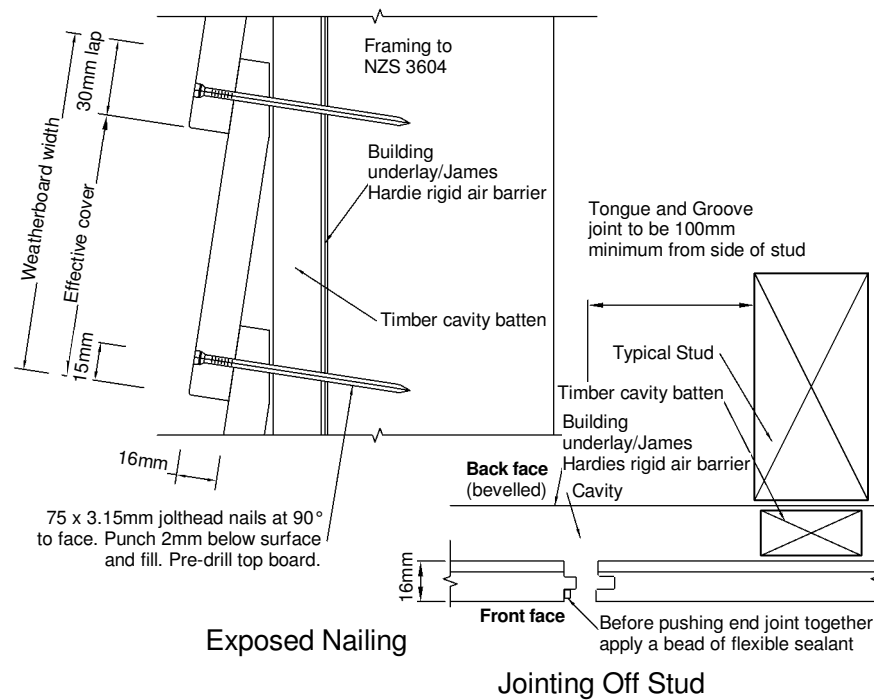
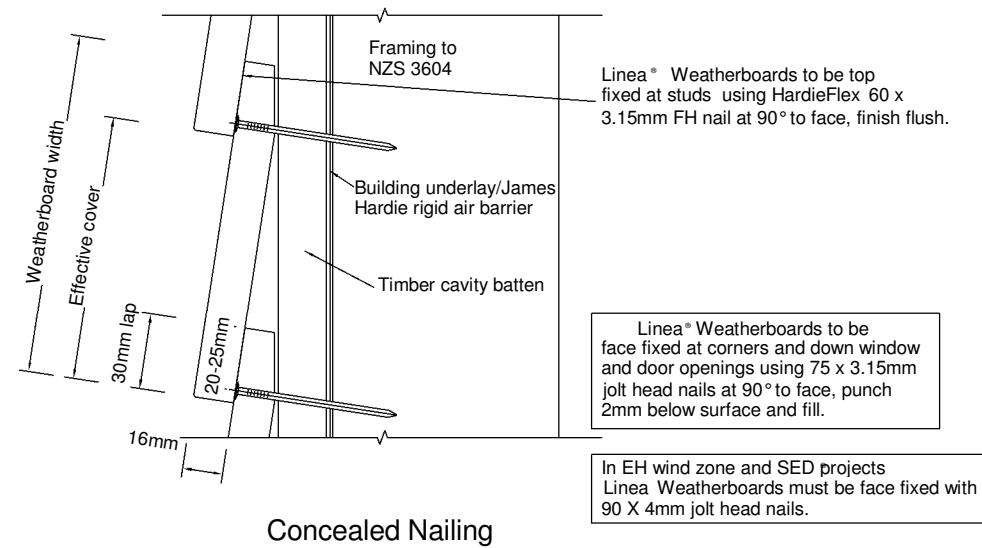
LINEA WEATHERBOARD JUNCTION (SECTION 'X') CAVITY TO CABLE



TIMBER CAVITY FIX METER BOX

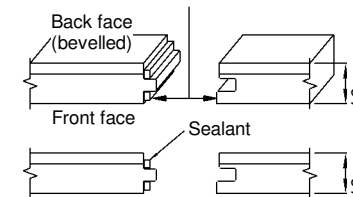


TIMBER CAVITY PIPE PENETRATION



TIMBER CAVITY WEATHERBOARD FIXING

Before pushing end joint together apply a bead of flexible sealant to mating surfaces.



Tongue & Groove Joint

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merv@cronindesign.co.nz

WALTERS RESIDENCE
LOT 267 PARK LANE
ROLLESTON

Linea Details C

Designed by
A.L

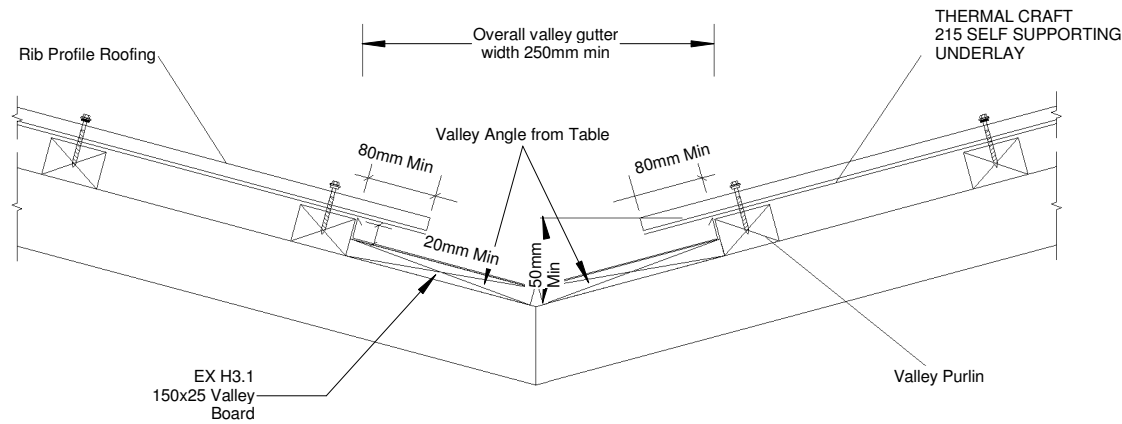
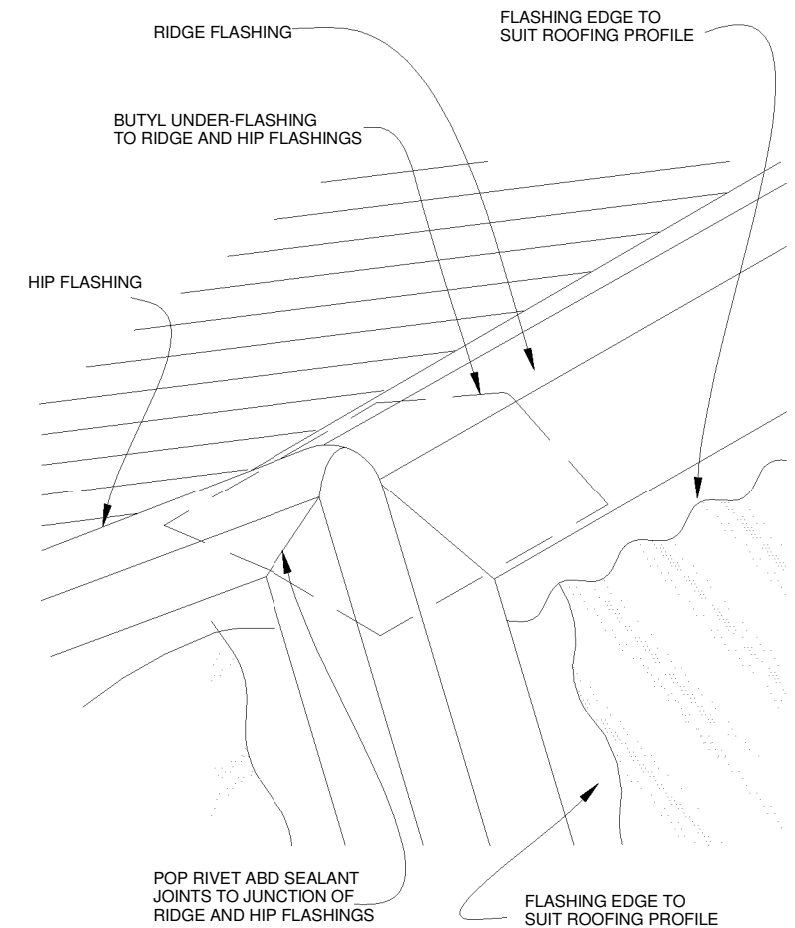
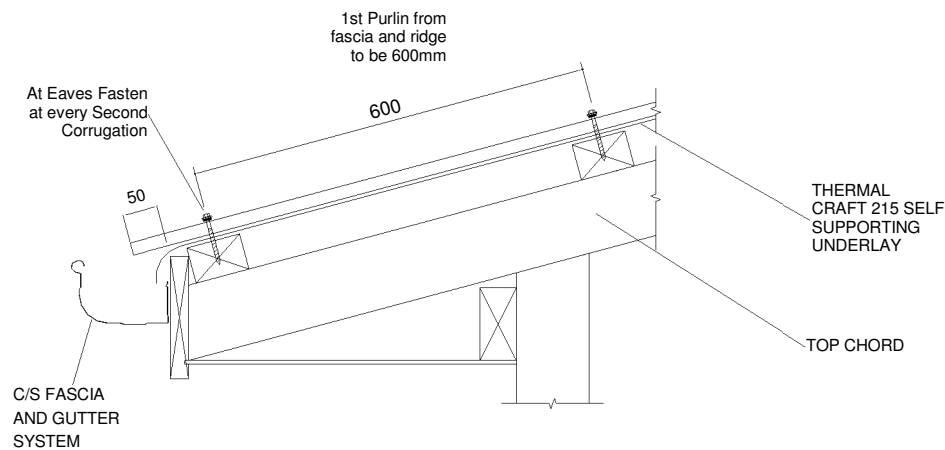
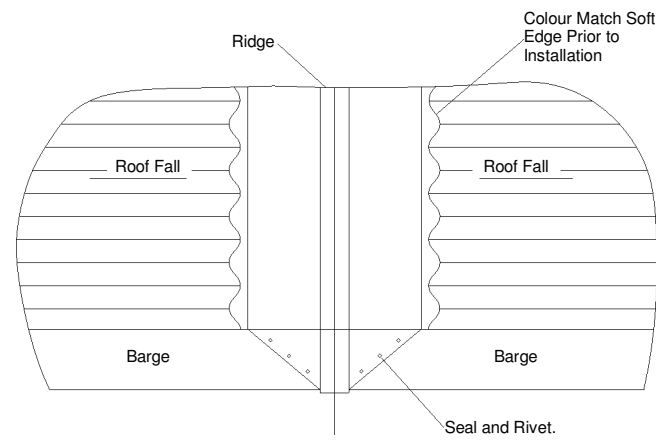
Date
14/10/2014

Scale
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New Dwelling

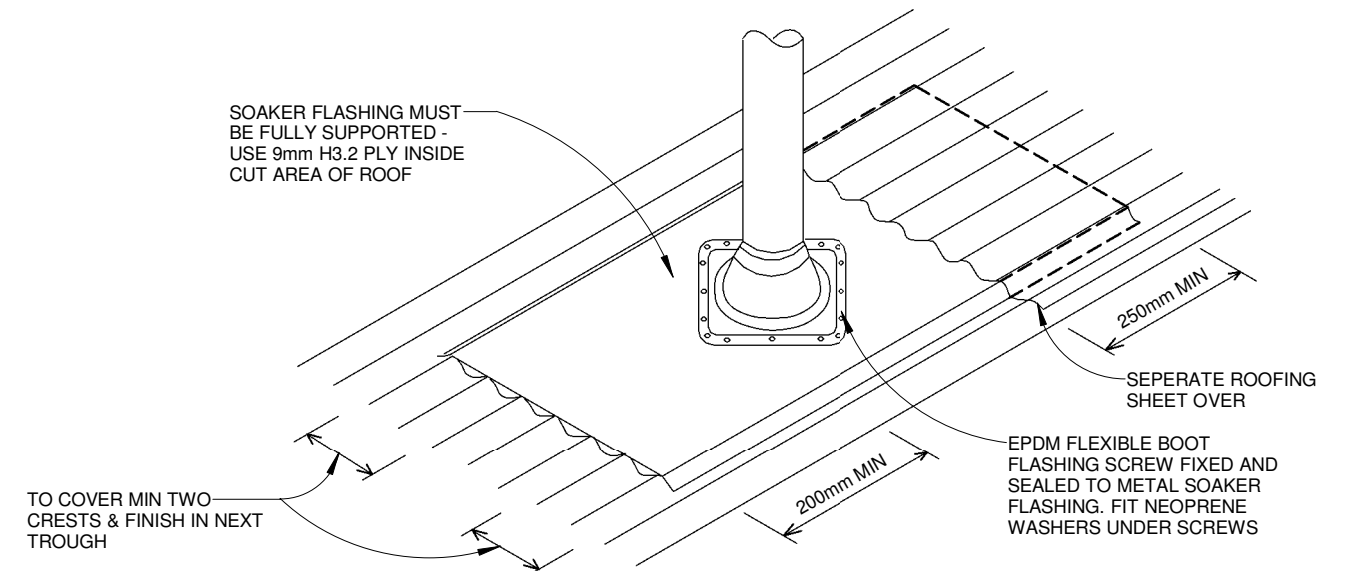
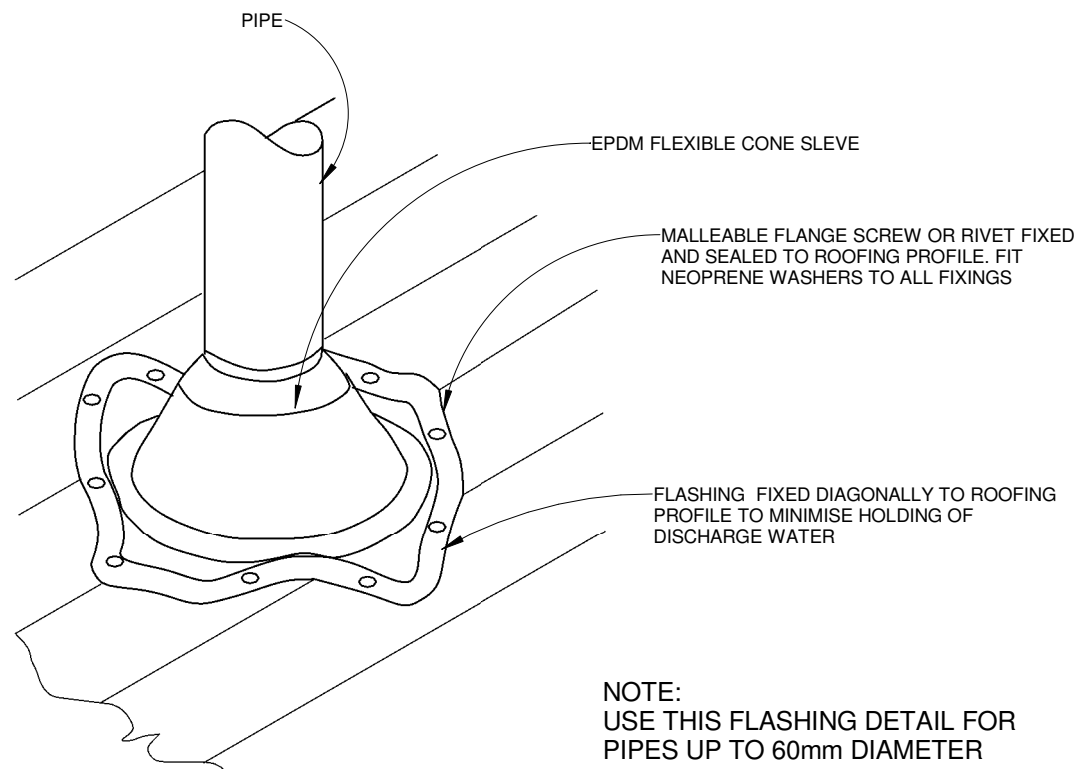
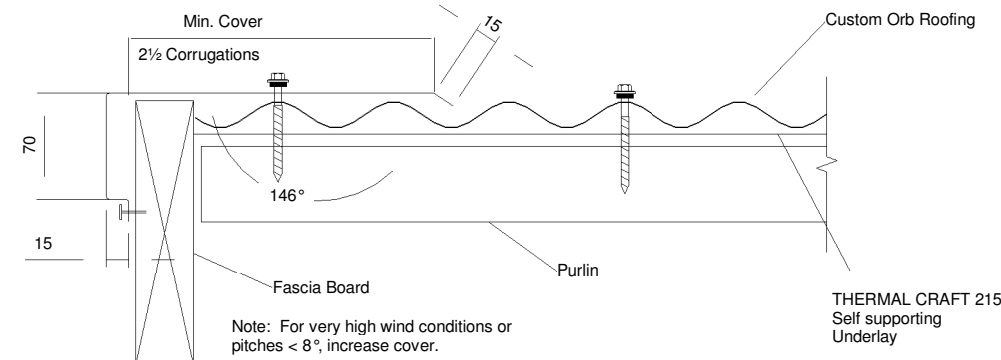
14209

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Valley Angle Table

Roof Pitch	5	10	15	20	25	30	35	45	60
Valley Angle	173	166	159	152	145	139	132	120	104

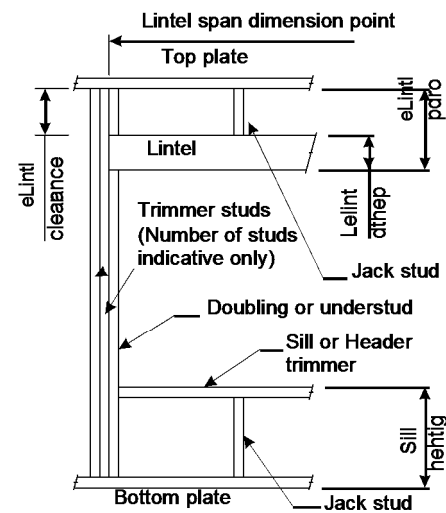


LINTEL FIXING SCHEDULE **ALTERNATIVE TO TABLE 8.14 & FIGURE 8.12** **NZS 3604:2011**

NOTE:

- ★ All fixings are designed for vertical loads only. Dead loads include the roof weight and standard ceiling weight of 0.20 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	L	M	H
8.6 m ²	G	G	H	G	G	H
11.6 m ²	G	H	H	G	G	H
12.1 m ²	G	H	H	G	H	H
15.3 m ²	H	H	-	G	H	H
19.1 m ²	H	-	-	G	H	-
20.9 m ²	H	-	-	H	H	-
21.8 m ²	H	-	-	H	-	-
34.3 m ²	-	-	-	H	-	-

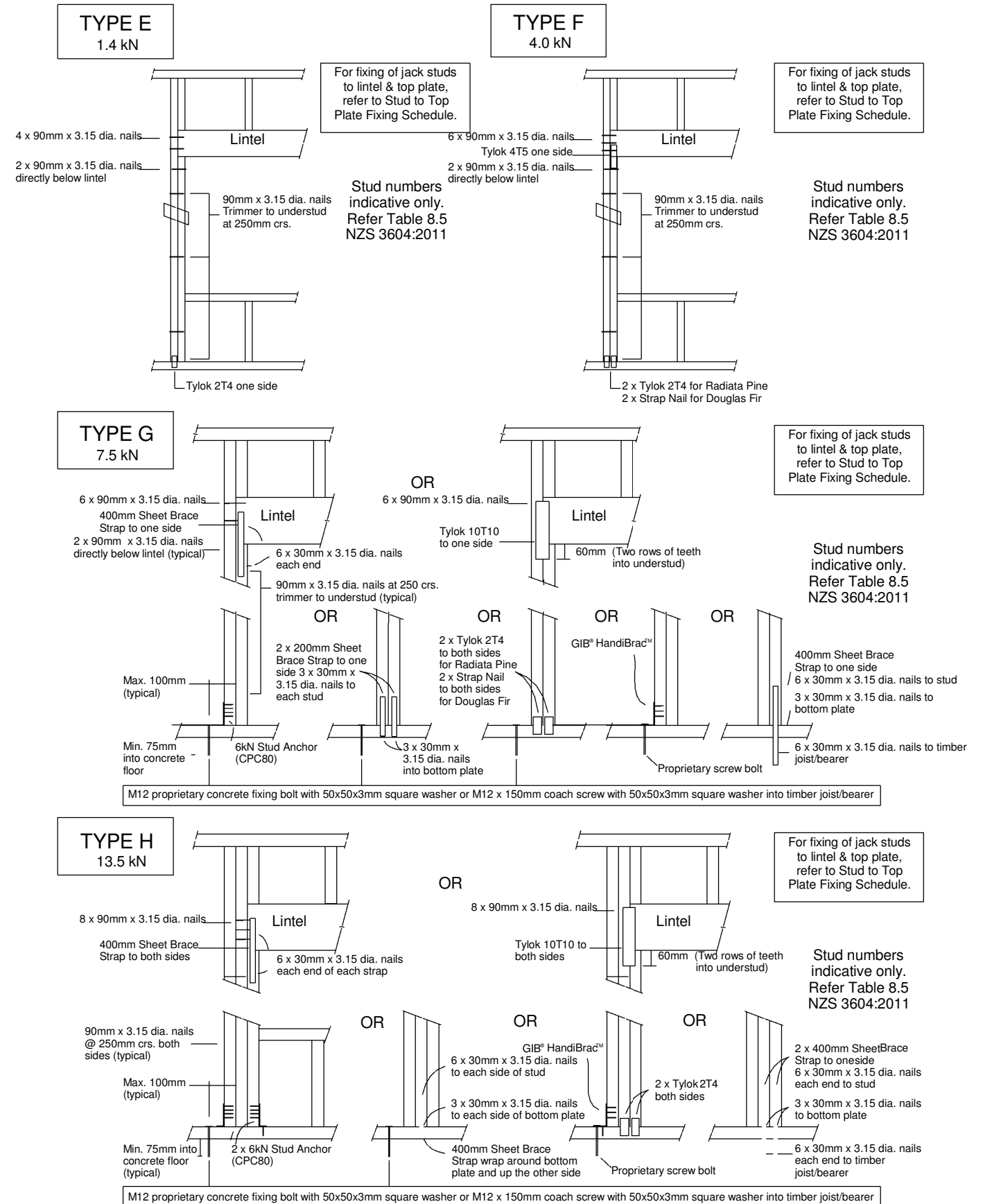
Notes:

- 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

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
0.7	2.0	E	E	E	E	F	E	E	E	E	E
	3.0	E	E	E	F	F	E	E	E	F	F
	4.0	E	E	F	F	F	E	E	E	F	F
	5.0	E	F	F	F	G	E	F	F	F	F
	6.0	E	F	F	G	G	E	E	F	F	G
0.9	2.0	E	E	E	F	F	E	E	E	E	F
	3.0	E	E	F	F	F	E	E	E	F	F
	4.0	E	E	F	F	F	E	E	E	F	F
	5.0	E	F	F	F	G	E	E	F	F	F
	6.0	E	F	F	G	G	E	E	F	F	G
1.0	2.0	E	E	E	F	F	E	E	E	E	F
	3.0	E	E	F	F	F	E	E	E	F	F
	4.0	E	F	F	F	G	E	E	F	F	F
	5.0	E	F	F	G	G	E	E	F	F	G
	6.0	E	F	F	G	G	E	E	F	F	G
1.2	2.0	E	E	F	F	F	E	E	F	F	F
	3.0	E	E	F	F	F	E	E	F	F	F
	4.0	E	F	F	F	G	E	E	F	F	G
	5.0	E	F	F	G	G	E	E	F	F	G
	6.0	F	F	G	G	H	E	E	F	G	G
1.5	2.0	E	E	F	F	F	E	E	F	F	F
	3.0	E	F	F	F	G	E	E	F	F	F
	4.0	E	F	F	G	G	E	E	F	F	G
	5.0	F	F	G	G	H	E	E	F	G	G
	6.0	F	F	G	H	H	E	E	F	G	H
2.0	2.0	E	F	F	F	G	E	E	F	F	F
	3.0	E	F	F	G	G	E	E	F	F	G
	4.0	F	F	G	G	H	E	E	F	G	G
	5.0	F	F	G	H	H	E	E	F	G	H
	6.0	F	G	G	H	H	E	F	G	H	H
2.4	2.0	E	F	F	G	G	E	E	F	G	G
	3.0	F	F	G	G	H	E	E	F	G	G
	4.0	F	F	G	H	H	E	E	F	G	H
	5.0	F	G	G	H	H	E	F	G	H	H
	6.0	F	G	H	H	-	E	F	G	H	-
3.0	2.0	E	F	F	G	G	E	E	F	G	G
	3.0	F	F	G	H	H	E	E	F	G	H
	4.0	F	G	G	H	H	E	F	G	H	H
	5.0	F	G	H	H	-	E	F	G	H	-
	6.0	F	G	H	-	-	E	F	G	H	-
3.6	2.0	F	F	G	G	H	E	E	F	G	G
	3.0	F	F	G	H	H	E	F	G	G	H
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	5.0	F	G	H	-	-	E	F	G	H	-
	6.0	G	H	H	-	-	E	F	H	-	-
4.2	2.0	F	F	G	G	H	E	E	F	G	G
	3.0	F	G	H	H	-	E	F	G	H	H
	4.0	F	G	H	-	-	E	F	G	H	-
	5.0	G	H	H	-	-	E	F	H	-	-
	6.0	G	H	-	-	-	E	F	H	-	-
4.5	2.0	F	F	G	H	H	E	E	F	G	H
	3.0	F	G	H	H	-	E	F	G	H	H
	4.0	F	G	H	-	-	E	F	G	H	-
	5.0	G	H	-	-	-	E	F	H	-	-
	6.0	G	H	-	-	-	E	F	H	-	-
4.8	2.0	F	F	G	H	H	E	E	F	G	H
	3.0	F	G	H	H	-	E	F	G	H	H
	4.0	F	G	H	-	-	E	F	G	H	-
	5.0	G	H	-	-	-	E	F	H	-	-
	6.0	G	H	-	-	-	E	F	H	-	-

LINTEL FIXING OPTIONS



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1999-2014 Place Omis church
Ph 03 3388394
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25/11/2014 mcmilij

WALTERS RESIDENCE
LOT 267 PARK LANE
ROLLESTON

Lintel & Top Plate
Fixing

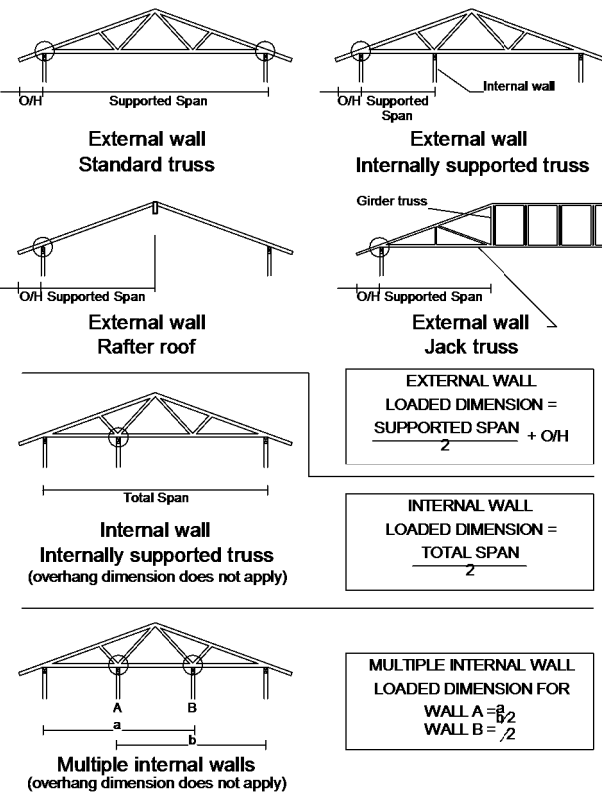
Designed by A.L	Date 14/10/2014	Scale 1:1
New Dwelling		
14209	12	of 16

STUD TO TOP PLATE FIXING SCHEDULE ALTERNATIVE TO TABLE 8.18 NZS 3604:2011

NOTE:

All fixings are designed to resist 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 lateral loads. These fixings assume the correct choice of rafter/truss to top plate connections have been made. Gable end wall top plate/stud connections where the adjacent rafter/truss is located within 1200mm of gable end wall with a maximum verge overhang of 750mm, requires fixing type A as shown below. All fixings assume top plate thickness of 45mm maximum. Wall framing arrangements under girder trusses are not covered in this schedule. All timber selections are as per NZS 3604:2011.

LOADED DIMENSION DEFINITION



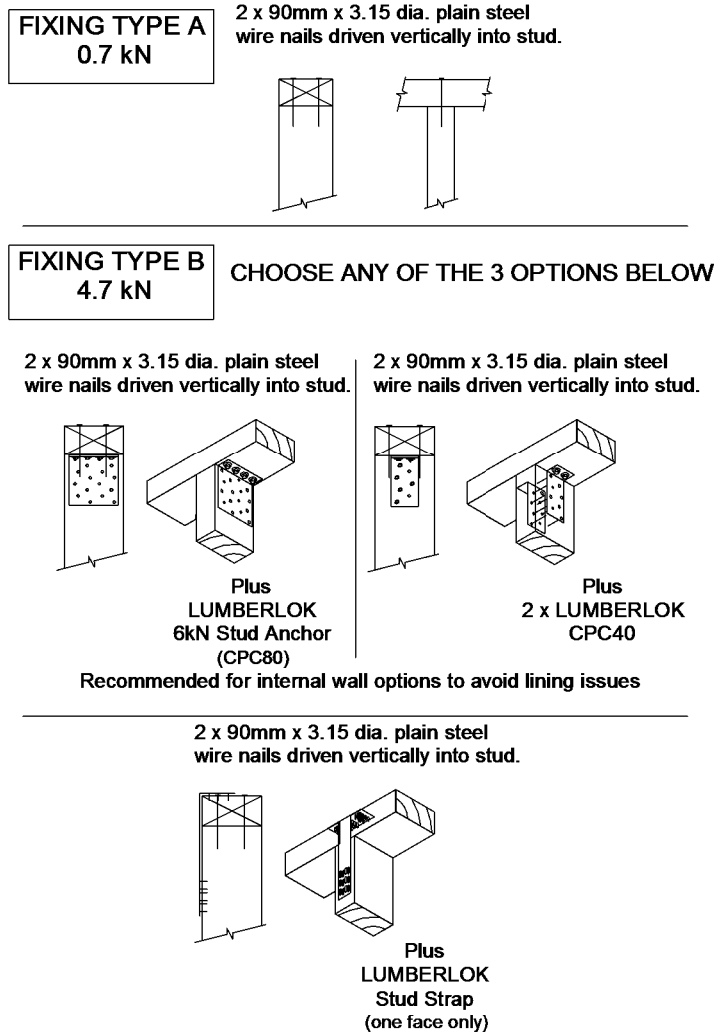
FIXING SELECTION CHART

(Suitable for walls supporting roof members at 600, 900 or 1200mm crs.)

Wind Zones L, M, H, VH, EH, as per NZS 3604:2011

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

FIXING OPTIONS



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

Slab Thickening & Stud Requirement Table

CONSTRUCTION SPECIFICATIONS

Max. truss crs. @ 1200mm, Min. truss crs. @ 600mm.
Assume walls are fully lined on at least one face.
Assume full bearing on top plate (i.e. no eccentric loading).

TRUSS BEARING REACTION	SLAB THICKENING DETAIL		STUD REQUIREMENTS		
	CONCENTRATED LOAD	UNIFORM DIST. LOAD	STUD HEIGHT	STUD REQUIREMENTS	
Bearing reaction up to & including 10 kN	STANDARD reinforced slab floor as per NZS 3604:2011	STANDARD reinforced slab floor as per NZS 3604:2011	2400	Refer to NZS 3604:2011	
			2700		
			3000		
Bearing reaction up to & including 20 kN	TYPE FP1 375 x 375 PAD	TYPE FS1 300 STRIP THICKENING	STUD HEIGHT	NO. OF STUD UNDER TRUSS	MIN. TIMBER SIZE
			2400	2	90 x 35
			2700	2	90 x 45
Bearing reaction up to & including 30 kN	TYPE FP2 450 x 450 PAD	TYPE FS2 450 STRIP THICKENING	3000	3	90 x 45
			STUD HEIGHT	NO. OF STUD UNDER TRUSS	MIN. TIMBER SIZE
			2400	3	90 x 45
			2700	3	90 x 45
			3000	4	90 x 45

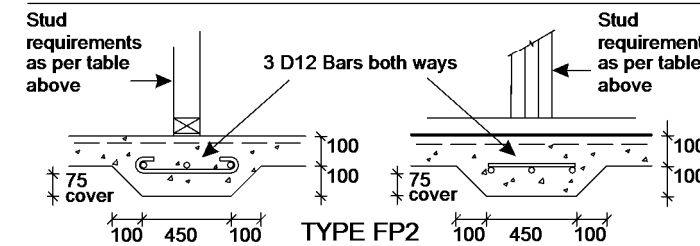
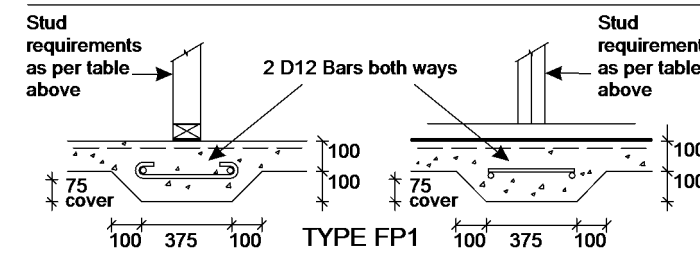
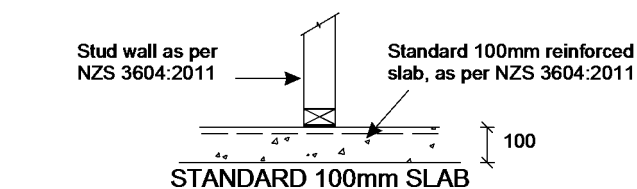
TIMBER SPECIFICATIONS

Timber properties based on NZS 3603:1993 Amendment No.4 March 2005. Minimum grade specified is SG8 unless otherwise noted. For SG6 use the studs for the next highest category.
i.e. - For loads up to 10 kN select studs from the 20 kN table.
- For loads up to 20 kN select studs from the 30 kN table.
- For loads above 20 kN Special Design is required.

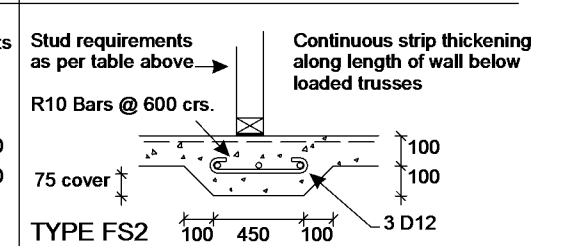
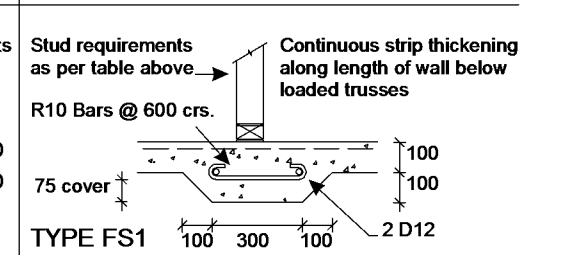
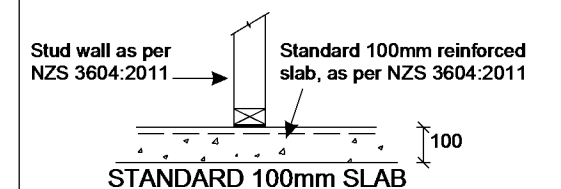
* Note: The stud requirement for 20 kN & 30 kN bearing reactions can be applied to external walls as well.

Slab Thickening Details

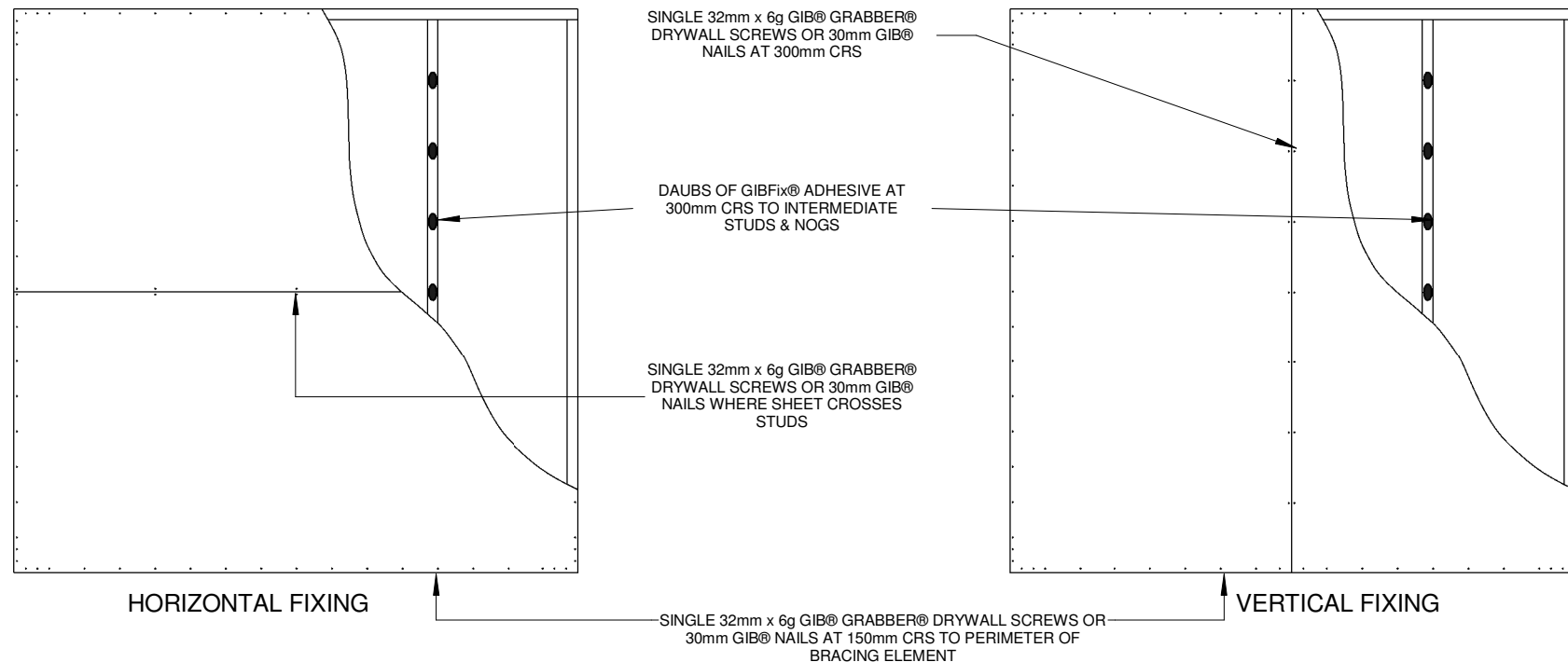
CONCRETE PAD OPTIONS (for concentrated loads)



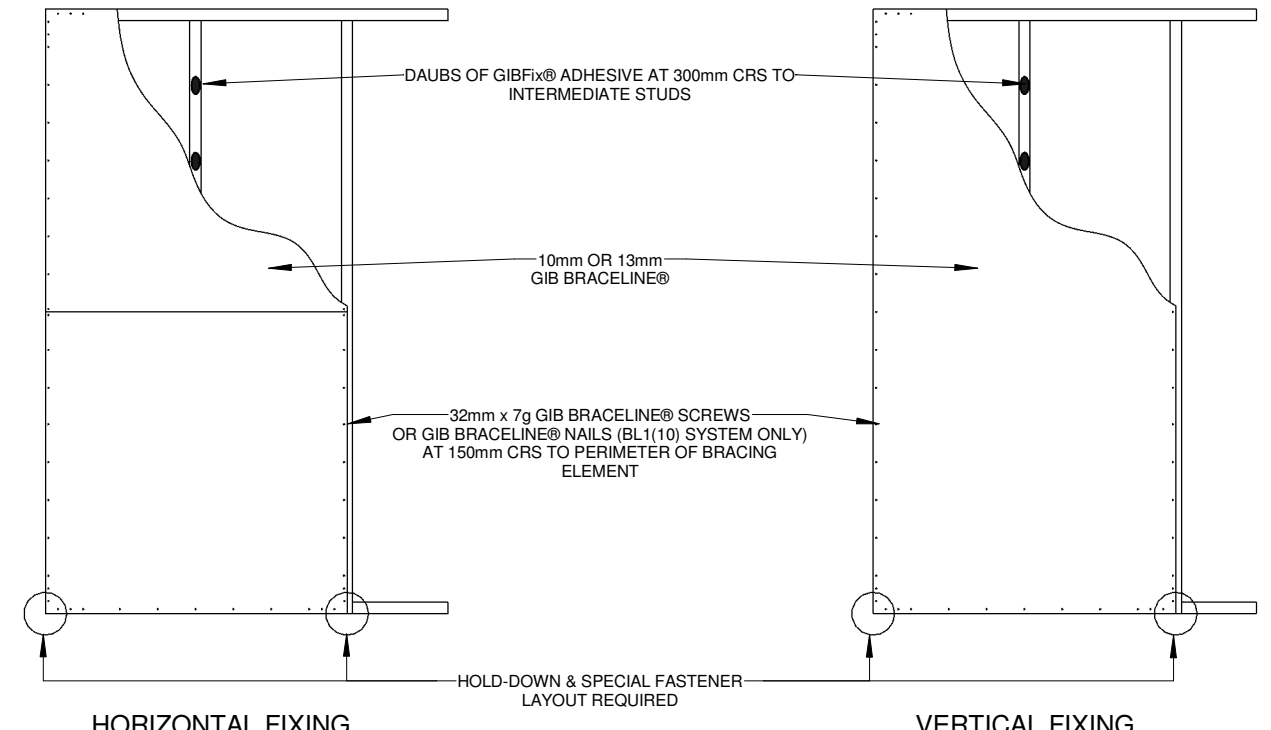
CONTINUOUS CONCRETE THICKENING OPTIONS (for uniformly distributed loads)



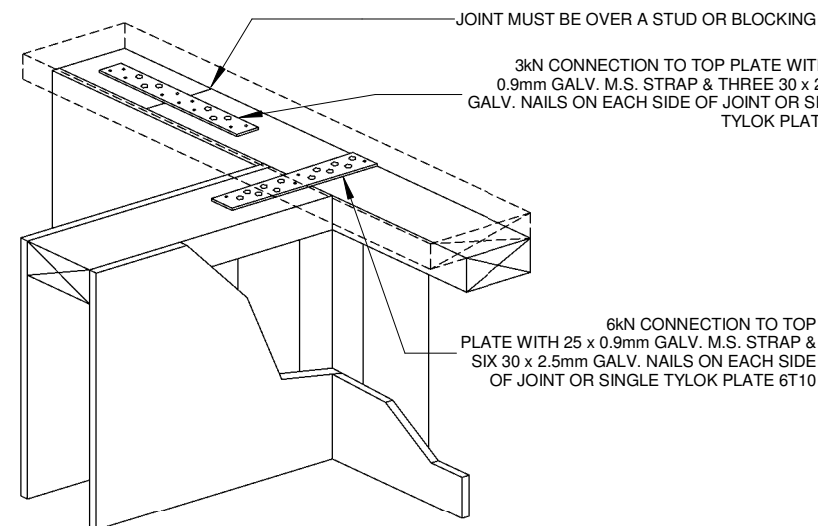
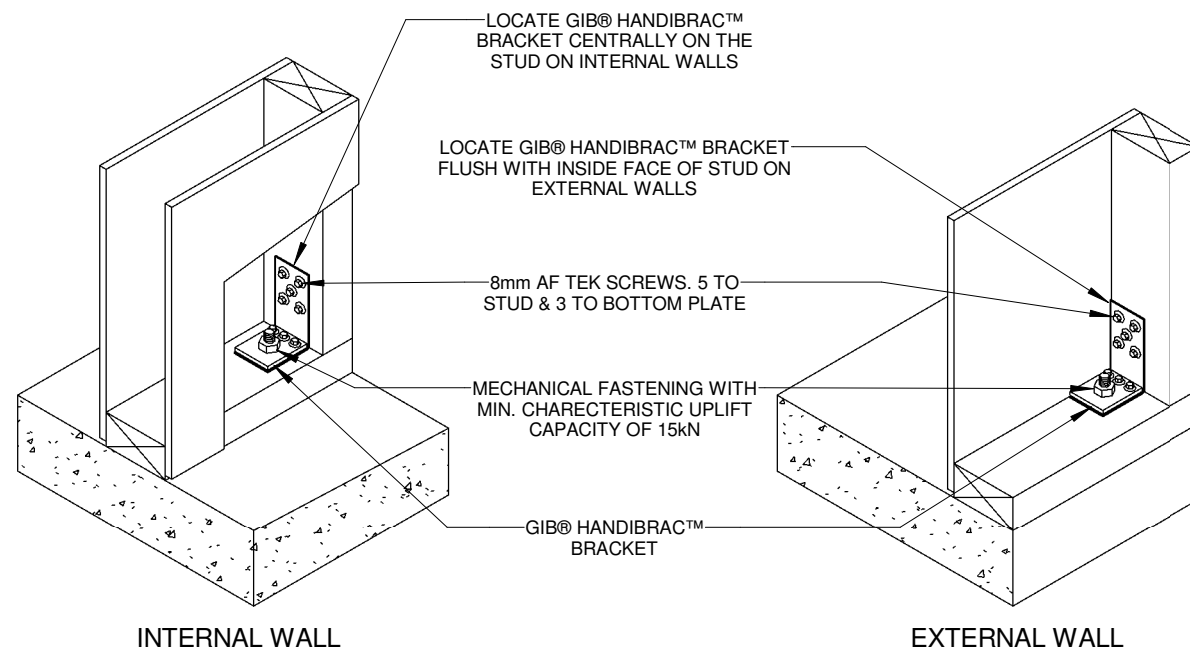
NOTE: FP = Foundation Pad FS = Foundation Strip



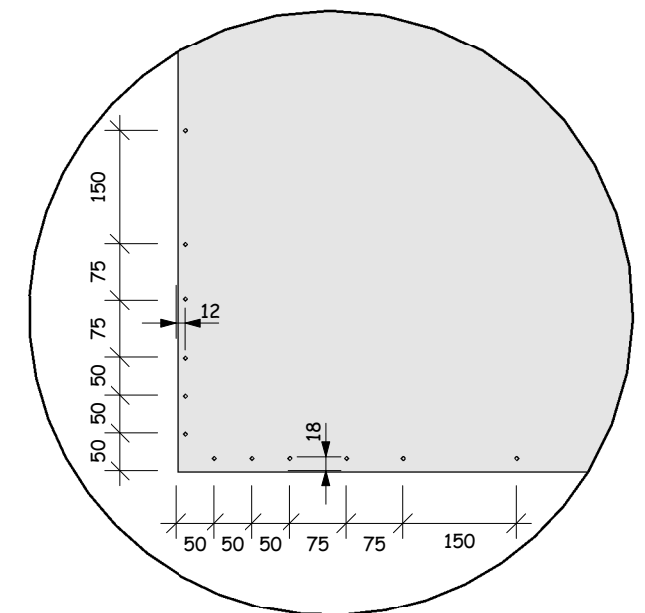
GS1 - 10mm OR 13mm GIB® STANDARD PLASTERBOARD ONE SIDE ONLY WITH A MINIMUM LENGTH OF 400mm
FOR FURTHER INFORMATION REFER TO GIB® EzyBrace™ SYSTEMS MANUAL 2011



BL1 - 10mm OR 13mm GIB BRACELINE® ONE SIDE WITH A MINIMUM LENGTH OF 400mm & PANEL HOLD-DOWN CONNECTIONS AT EACH END OF THE BRACING ELEMENT
FOR FURTHER INFORMATION REFER TO GIB® EzyBrace™ SYSTEMS MANUAL 2011

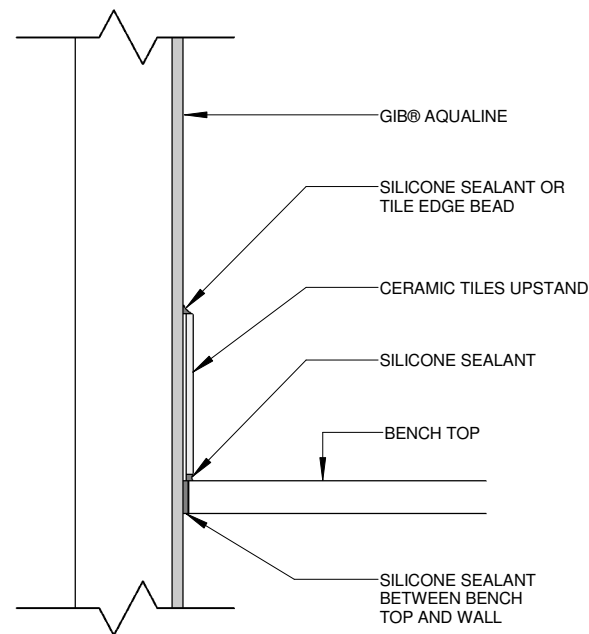


THE TOP PLATE OF A WALL CONTAINING ONE OR MORE WALL BRACING ELEMENTS SHALL BE JOINED WITH:
- A 3kN CONNECTION WHEN THE RATING DOES NOT EXCEED 100 BRACING UNITS
- A 6kN CONNECTION WHEN THE RATING EXCEED 100 BRACING UNITS

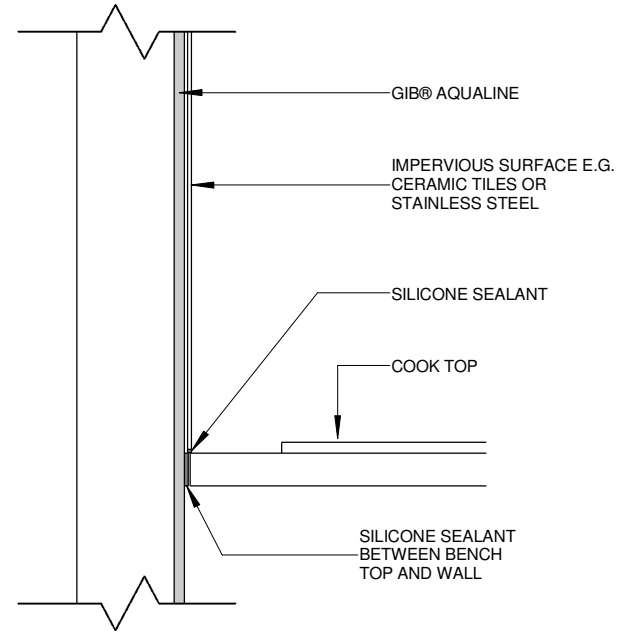


CORNER FASTENING PATTERN FOR ALL 4 CORNERS OF GIB® BRACING ELEMENTS

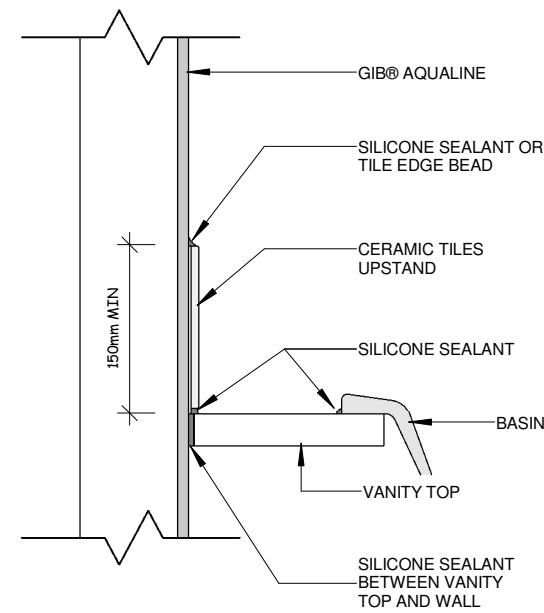
FASTENERS ARE PLACED AT 150mm CRS AROUND THE BRACING ELEMENT PERIMETER STARTING AT 50,50,50,75,75 & 150mm FROM THE BRACING ELEMENT CORNER. FASTENERS ARE PLACED NO CLOSER THAN 12mm TO A PAPER BOUND MACHINE EDGE OF THE SHEET AND NO CLOSER THAN 18mm TO A SHEET END OR CUT EDGE



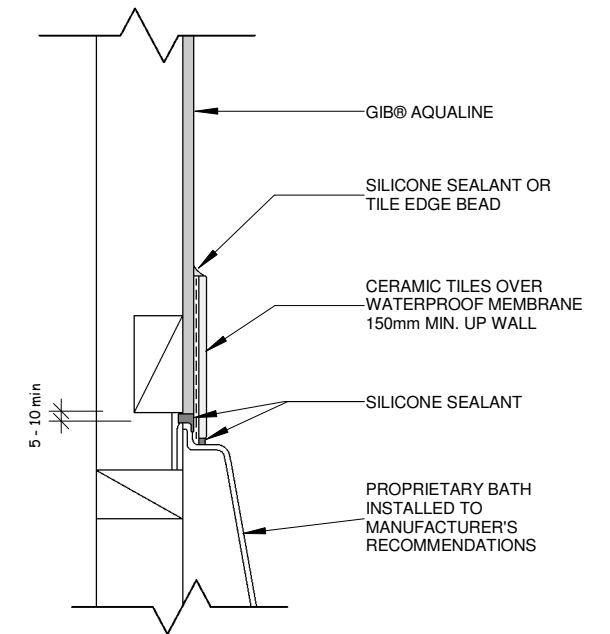
BENCH TOP / WALL DETAIL



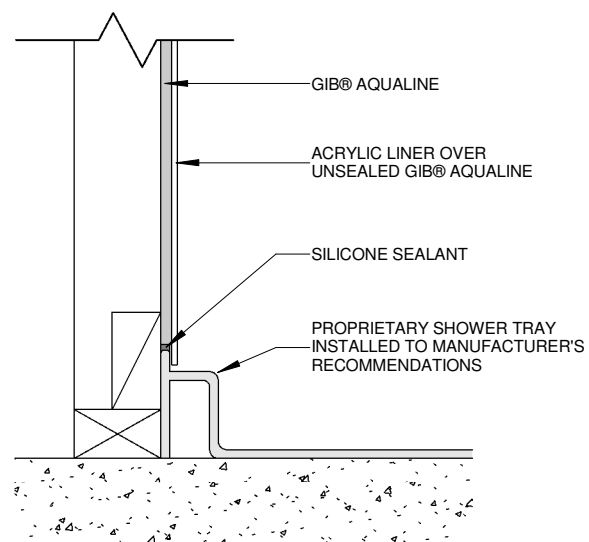
COOK TOP / WALL DETAIL



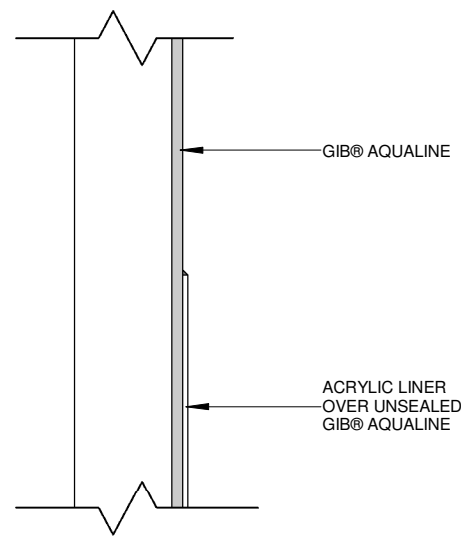
VANITY TOP DETAIL



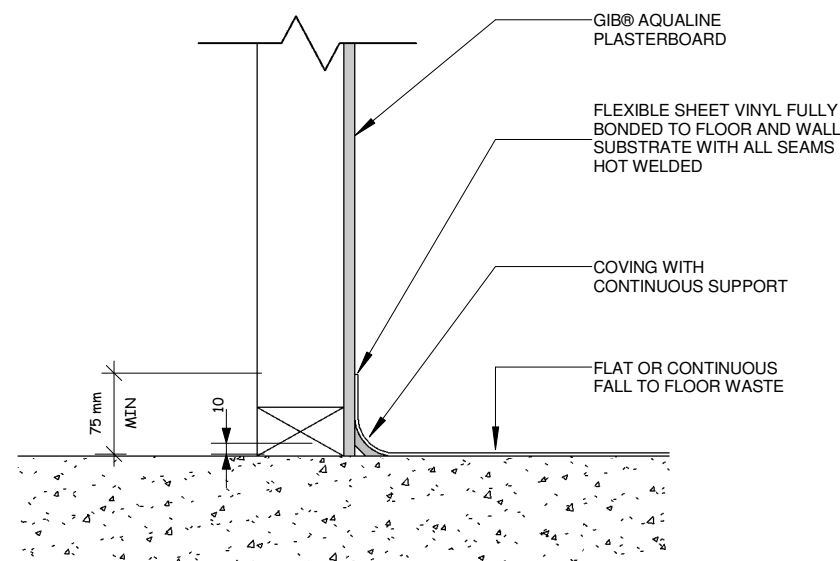
BATH / WALL DETAIL



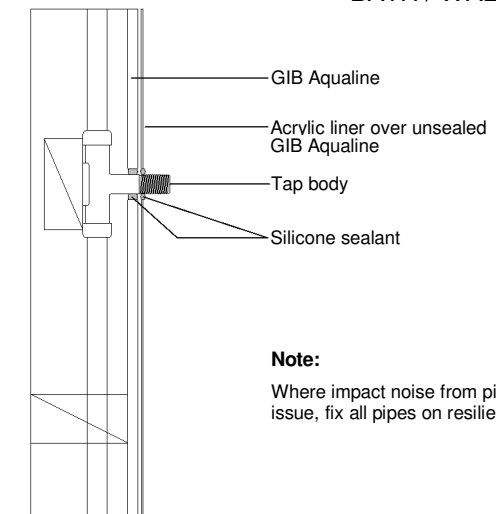
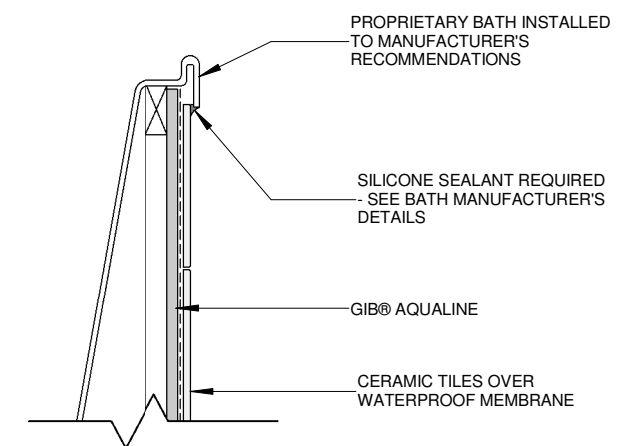
ACRYLIC SHOWER WALL / TRAY DETAIL



ACRYLIC SHOWER LINER TOP DETAIL



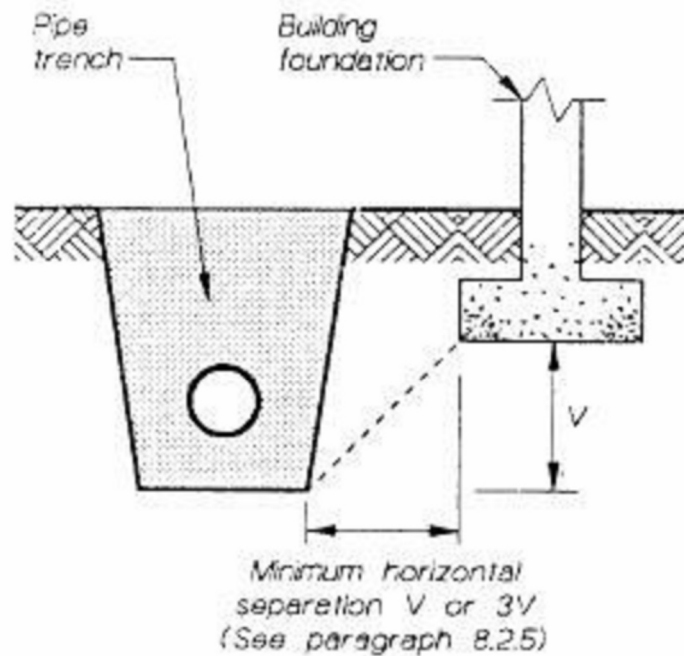
VINYL FLOOR COVERING - WALL / FLOOR DETAIL

Penetration Detail
Acrylic Liner

BATH PLINTH DETAIL

Figure 7: Relationship of pipe trench to building foundation

Paragraph 8.2.5



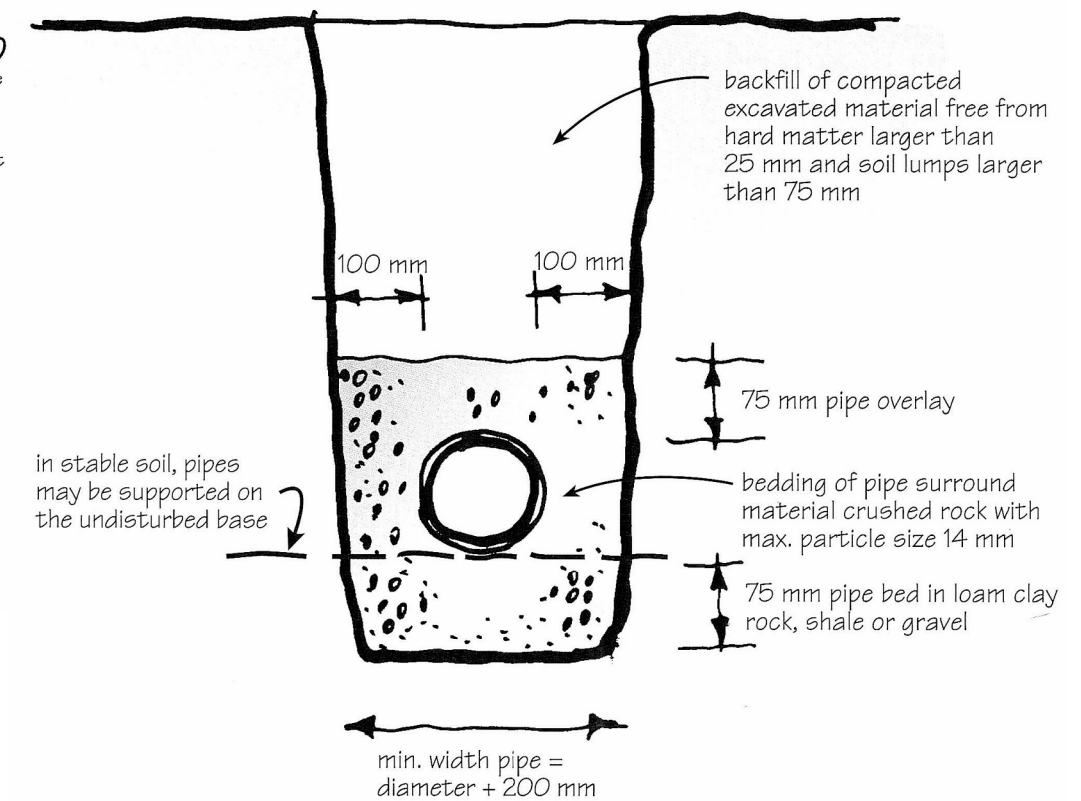
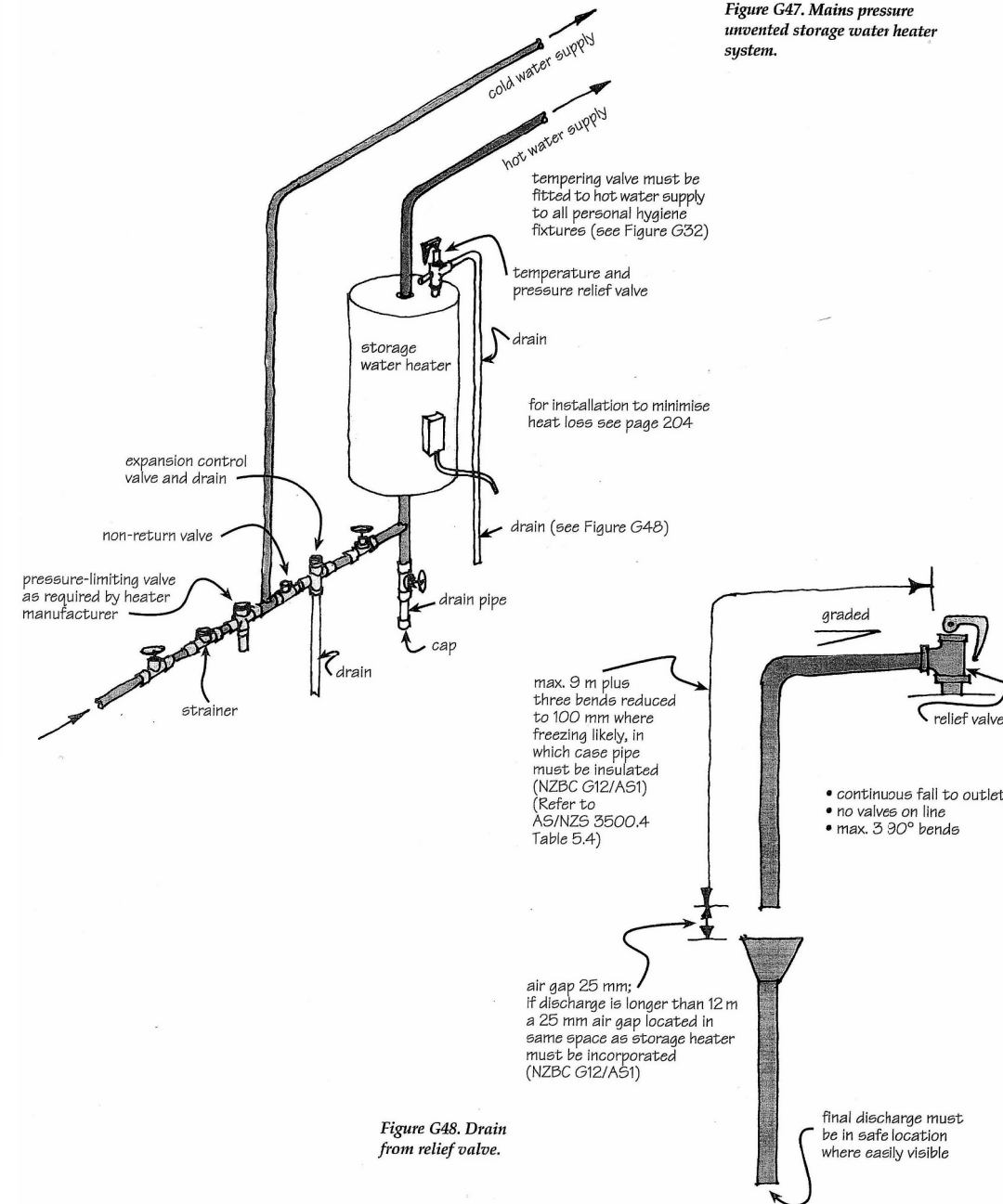
Selwyn District Council
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25/11/2014

mcmilj

Figure G48 shows the requirements for a relief valve drain to avoid blockage.



CRONIN
DESIGN

9 Print Place Christchurch
Ph 03 3388394
merv@cronindesign.co.nz

WALTERS RESIDENCE
LOT 267 PARK LANE
ROLLESTON

Pipe Bedding and
Backfill

Designed by
A.L

Date
14/10/2014

Scale
1 : 120

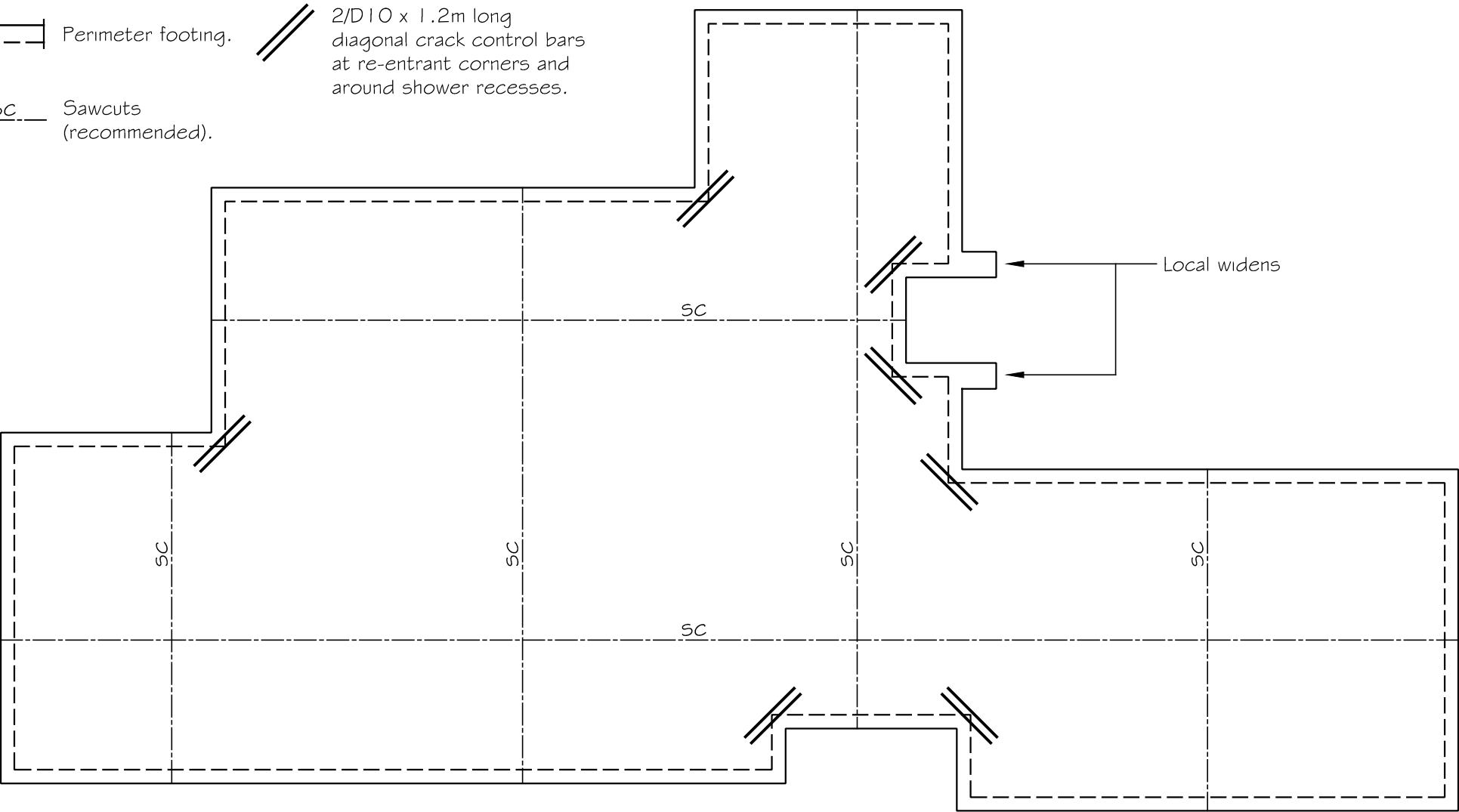
New Dwelling

14209

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LEGEND:

- Perimeter footing.
- 2/D10 x 1.2m long
diagonal crack control bars
at re-entrant corners and
around shower recesses.
- SC Sawcuts
(recommended).



Local widens

SC

SC

SC

SC

SC

SC

SC

SC

SC

SC

SC

SC

SC

FOUNDATION PLAN

1:100

GENERAL NOTES

- 1) These drawings shall be read in conjunction with all architectural and other consultants drawings and specifications and with such other written instructions as may be issued.
- 2) Any discrepancies or omissions shall be referred to the engineer or architect for a decision before proceeding with the work.
- 3) All materials and workmanship shall comply with the current relevant NZS standards and Building Code.
- 4) All dimensions are in millimetres unless noted otherwise.
- 5) Contractor shall verify all dimensions required for set-out, construction, and fabrication. These drawings should not be scaled.

REINFORCED CONCRETE

- 1) All concrete shall be minimum 20 MPa compressive strength U.N.O.
- 2) All reinforcing steel to be ductility class "E" as per AS/NZS 4671.
- 3) Minimum concrete cover to reinforcement (finishes not included):

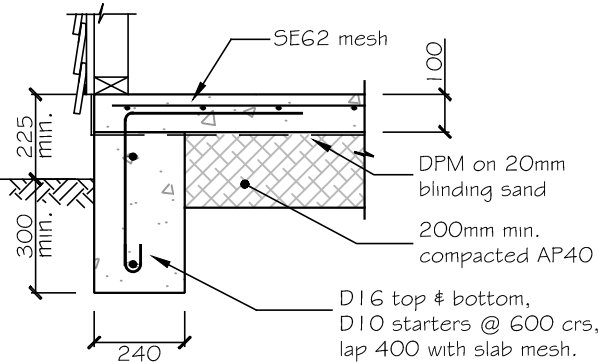
To dry interior or DPM: 30mm (classification A1)

To exterior or cast against earth: 50mm (classification B1)

INSPECTIONS

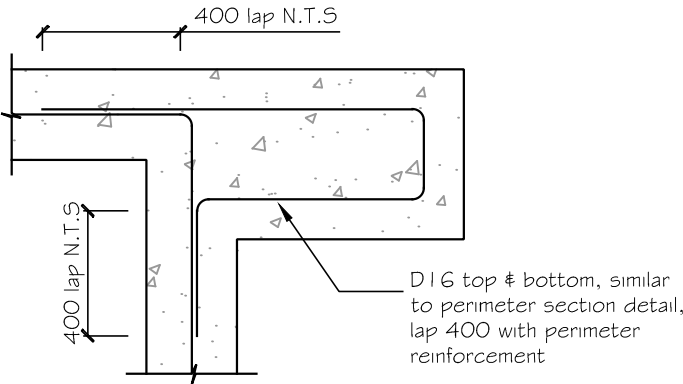
- 1) Subsoil conditions and bearing capacity (Geotechnical Ultimate: 200kPa) to be verified after footprint is cut and before fill placement.
- 2) All reinforcement shall be completely placed, tied and inspected by the engineer prior to concrete pour.
- 3) Minimum 24 hour notice is required for all inspections.

(Superstructure and rebate details indicative)



PERIMETER FOOTING DETAIL

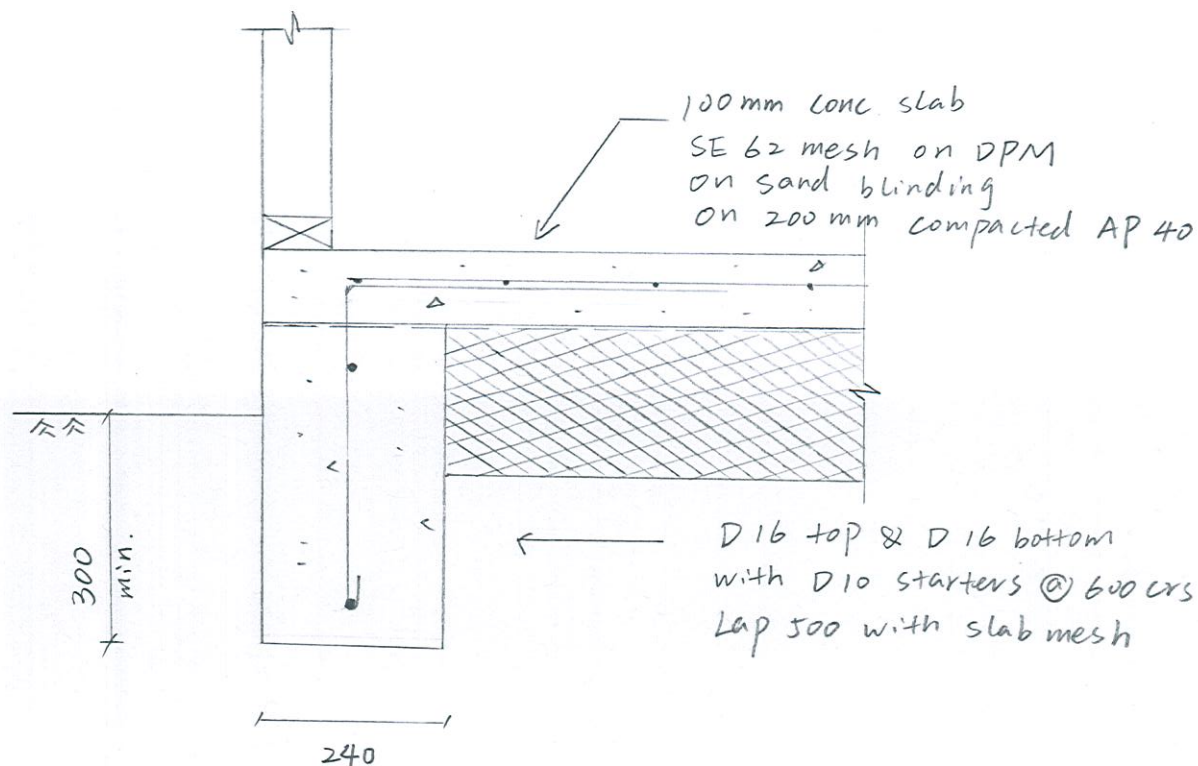
1:20



LOCAL WIDEN DETAIL (BOTH SIDES OF ENTRANCE) 1:20

Selwyn District Council Approved Building Consent Document				Cephas Rock Limited Structural Engineers		Title: Foundations and Details		Job no.:	14-G24	Sheet: 51 of 1
BC142343 - Pg 18 of 20				PO Box 37174 Christchurch 8425		Address: New Dwelling Lot 267 Park Lane Rolleston		Client: Kate Worner		Design: B.F.
25/11/2014				P: (03) 338 5387 E: admin@cephasrock.co.nz		F: (03) 338 5389 www.cephasrock.co.nz		Drawn: R.W.		Original size: A3
Rev.				Remark/Comment		Date		Approved: J.W.		

(Superstructure indicative)



Foundation F1 Detail

Scale 1:10

GENERAL NOTES:

- 1) These drawings shall be read in conjunction with the architectural drawings. Any discrepancy shall be referred to the engineer or architect before proceeding with the work.
- 2) Contractor shall verify all dimensions required for set-out and construction. Do not scale from these drawings.
- 3) All concrete minimum 20MPa compressive strength U.N.O.
- 4) All reinforcing steel ductility class "E" as per AS/NZS4671.
- 5) Reinforcing bar diameters are shown in millimetres with the following prefixes:

'D' denotes grade 300E deformed bars
'R' denotes grade 300E plain round bars
'HD' denotes grade 500E deformed bars
'HR' denotes grade 500E plain round bars

- 6) Minimum concrete cover to reinforcement (finishes not included):

To dry interior & DPM: 30mm (exposure A1)
Cast against ground: 50mm (exposure B1)

INSPECTIONS:

- 1) Subsoil conditions and bearing capacity (Geotechnical Ultimate: 200kPa) to be verified after footing is cut. All footing reinforcement shall be completely placed, tied and inspected by the engineer prior to concrete pour.
- 2) All slab reinforcement shall be completely placed, tied and inspected by the engineer prior to concrete pour.
- 3) Minimum 24 hour notice is required for all inspections.

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Rev. 25/11/2014 mcmilj Date



Cephas Rock Limited
Structural Engineers

PO Box 37171, Christchurch 8425
Ph: 03-3385387, 0211031200
Email: admin@cephasrock.co.nz

Foundation Details 1

Lot 267 Park Lane
Rolleston

JOB NO:

14-624

DRAWN BY:

B. F.

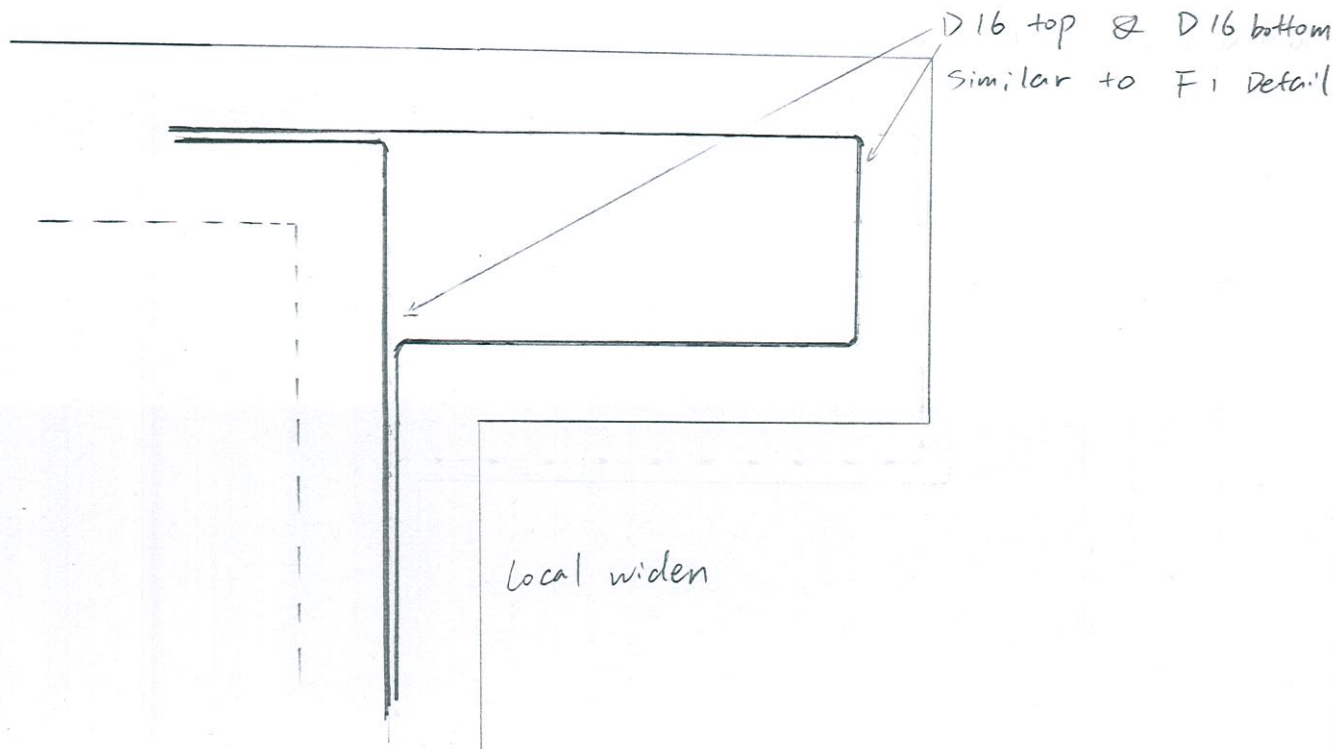
CHECKED BY:

J. W.

SHEET:

2

OF: 3



Foundation Detail 2 plan view
Scale 1 = 10

GENERAL NOTES:

- 1) These drawings shall be read in conjunction with the architectural drawings. Any discrepancy shall be referred to the engineer or architect before proceeding with the work.
- 2) Contractor shall verify all dimensions required for set-out and construction. Do not scale from these drawings.
- 3) All concrete minimum 20MPa compressive strength U.N.O.
- 4) All reinforcing steel ductility class "E" as per AS/NZS4671.
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- 3) Minimum 24 hour notice is required for all inspections.

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Rev 25/11/2014 Remarks mcmilj



Cephas Rock Limited
Structural Engineers

PO Box 37171, Christchurch 8425
Ph: 03-3385387, 0211031200
Email: admin@cephasrock.co.nz

Foundation Detail 2.

Lot 267 Park Lane
Rolleston

JOB NO:

14-624

DRAWN BY:

B.F.

CHECKED BY:

J.W.

SHEET:

3

OF: 3