

Approved Building Consent Documents

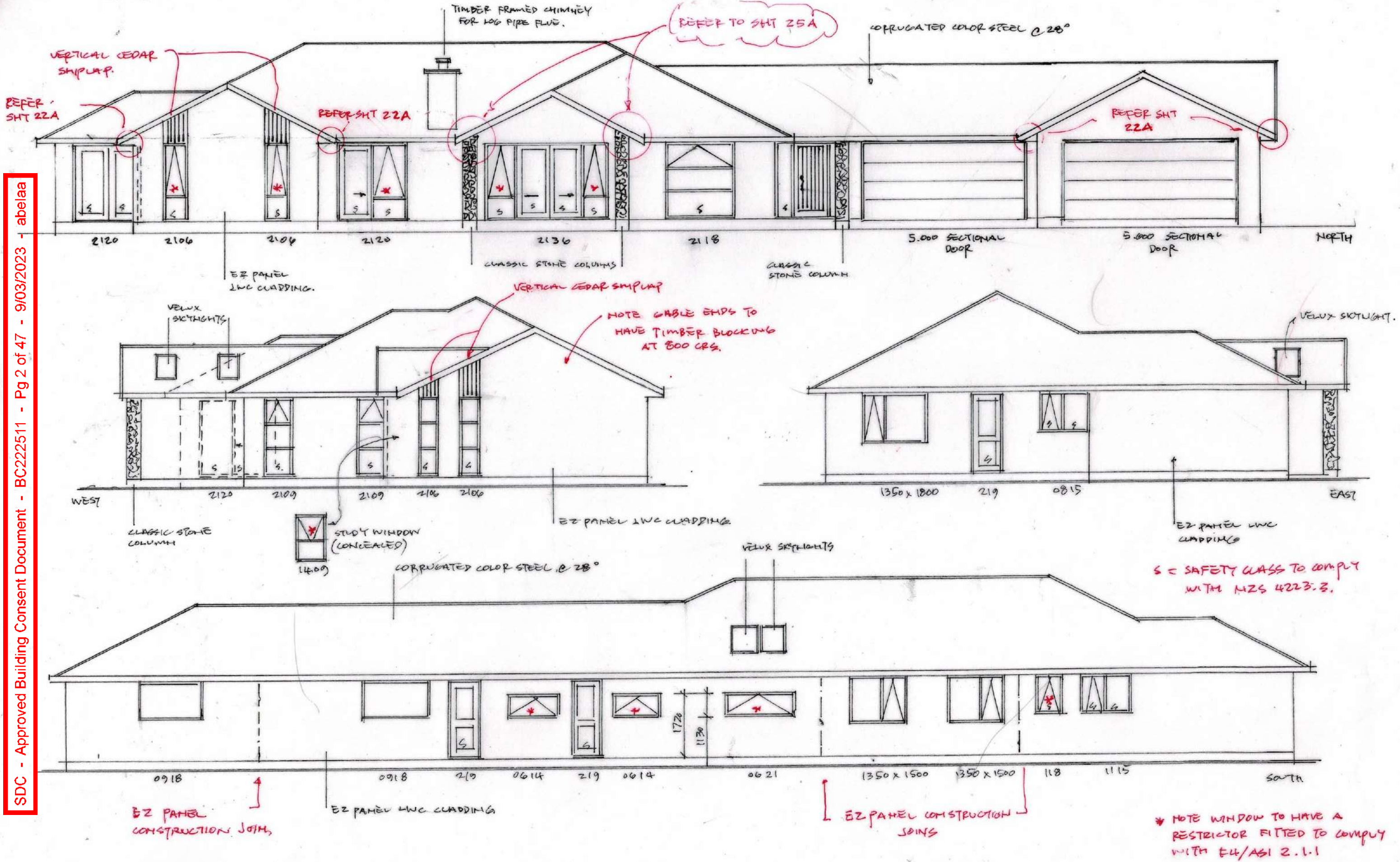
Please Note: A copy of the stamped approved documents must be available on site for all inspections.

Inspection booking timeframes

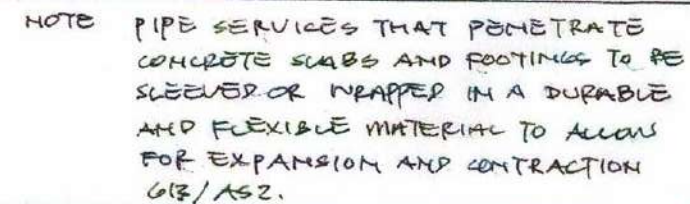
Call received	before 3pm inspection will be done	after 3pm inspection will be done
Monday	Wednesday	Thursday
Tuesday	Thursday	Friday
Wednesday	Friday	Monday
Thursday	Monday	Tuesday
Friday	Tuesday	Wednesday

Building inspections and enquiries phone: 03 347 2839

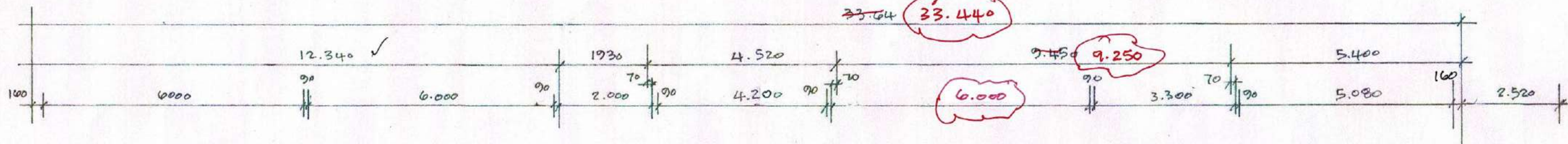
Please ensure all work for inspection is ready the day before. Incomplete work requiring re-inspection will incur an additional inspection fee.



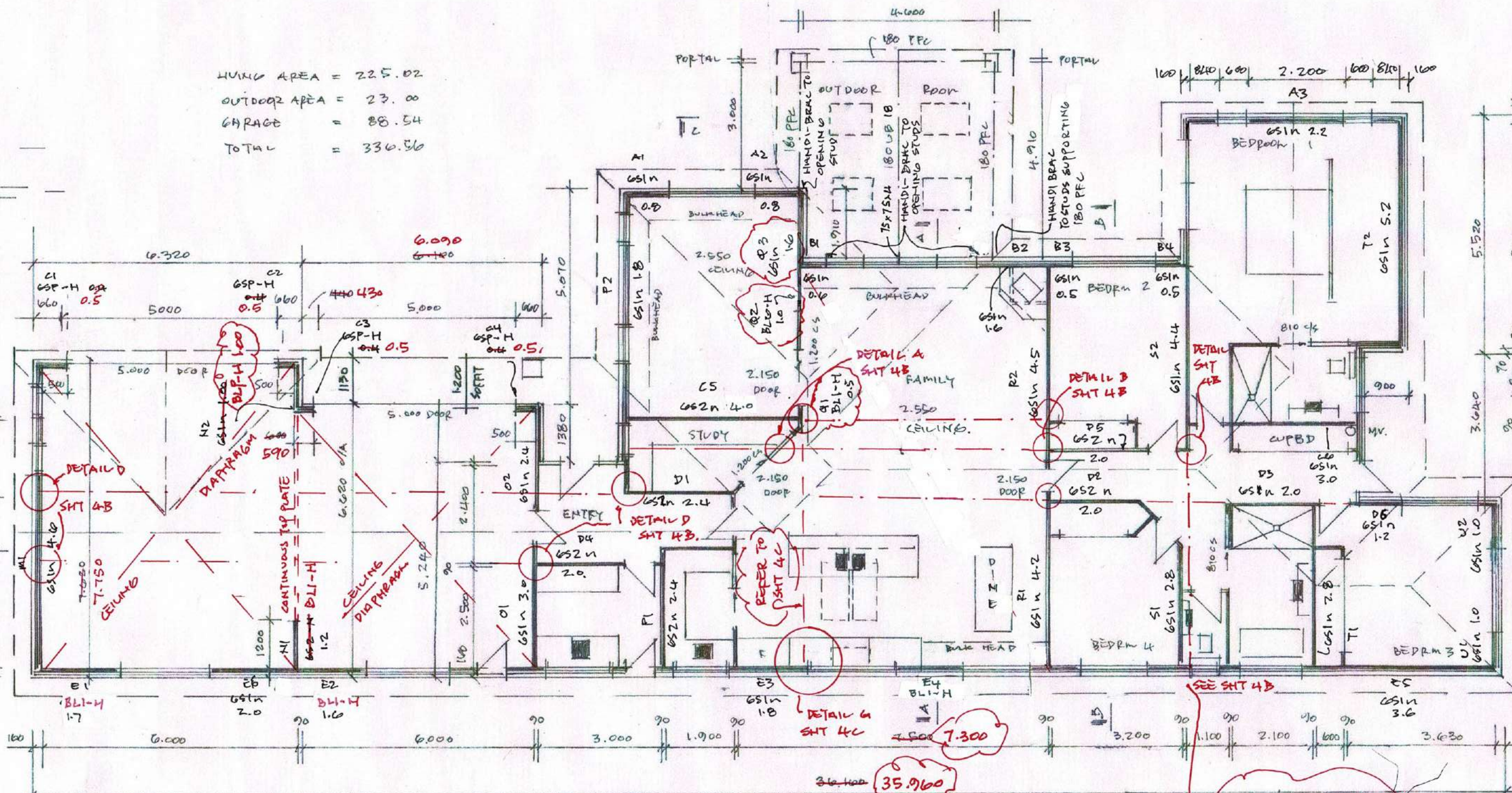
B R SHARR DESIGN 136 Halswell Junction Road Halswell Christchurch 8025	ALL CONSTRUCTION TO COMPLY WITH NZBC AND RELEVANT DOCUMENTS AND NZS 3604		ELEVATIONS		SHEET 1
	PROPOSED RESIDENCE LOT 277 RIDGELAND WAY 				



1.03.2023
DIMENSIONS
ALTERED



LIVING AREA = 225.02
 OUTDOOR AREA = 23.00
 GARAGE = 88.54
 TOTAL = 336.56



INDICATES CEILING BATTEN CONNECTION TO EXTERNAL WALL FOR WALL BRACING UNITS
 REFER TO SHT 4 B
 FOR CONNECTION
 DETAILS

REMOVED
 CEILING DIAPHRAGM FAMILY
 REVISED 1.03.2023

REFER TO DETAIL C
 SHT 4 B
 FOR WALL BRACE CONNECTION

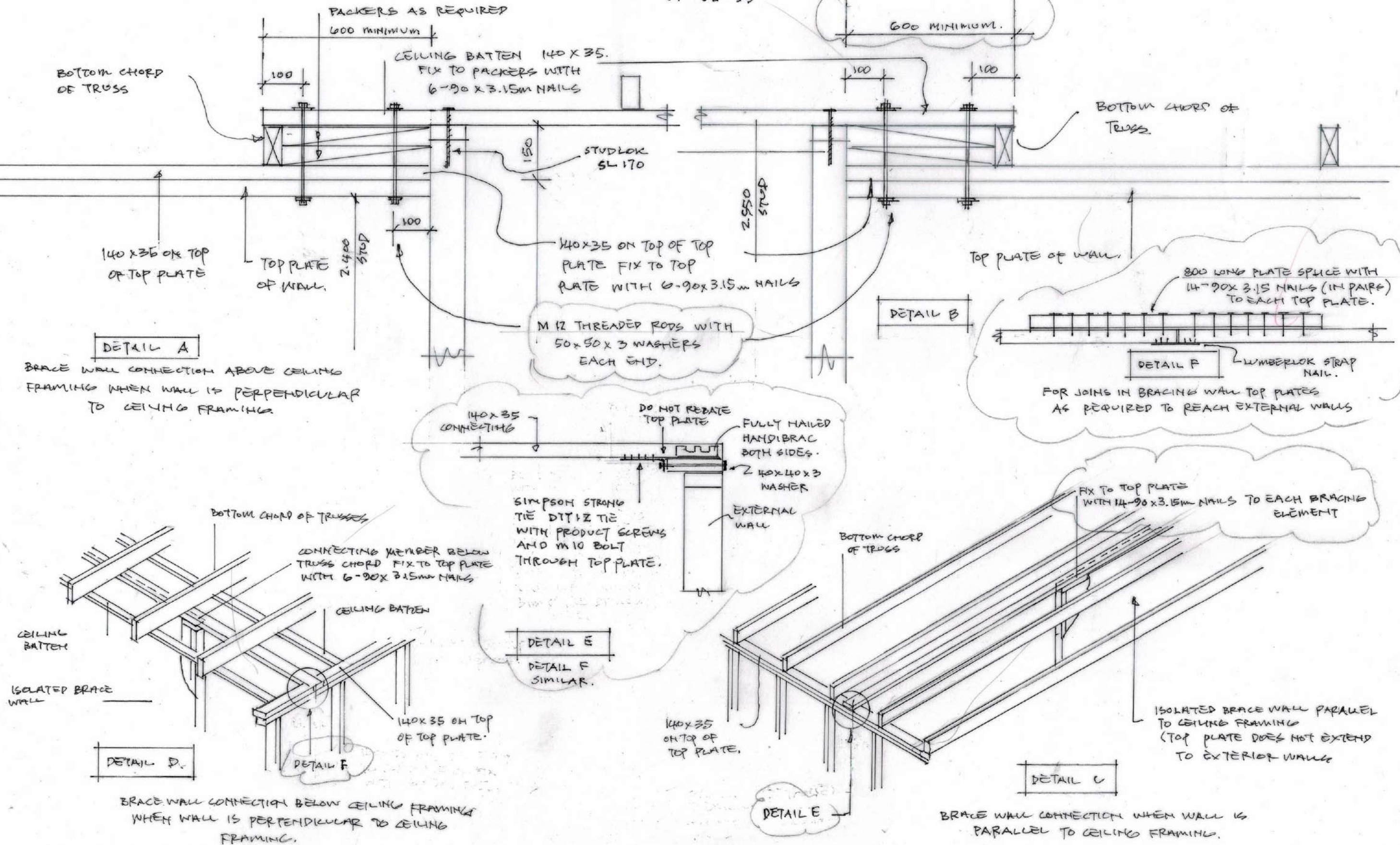
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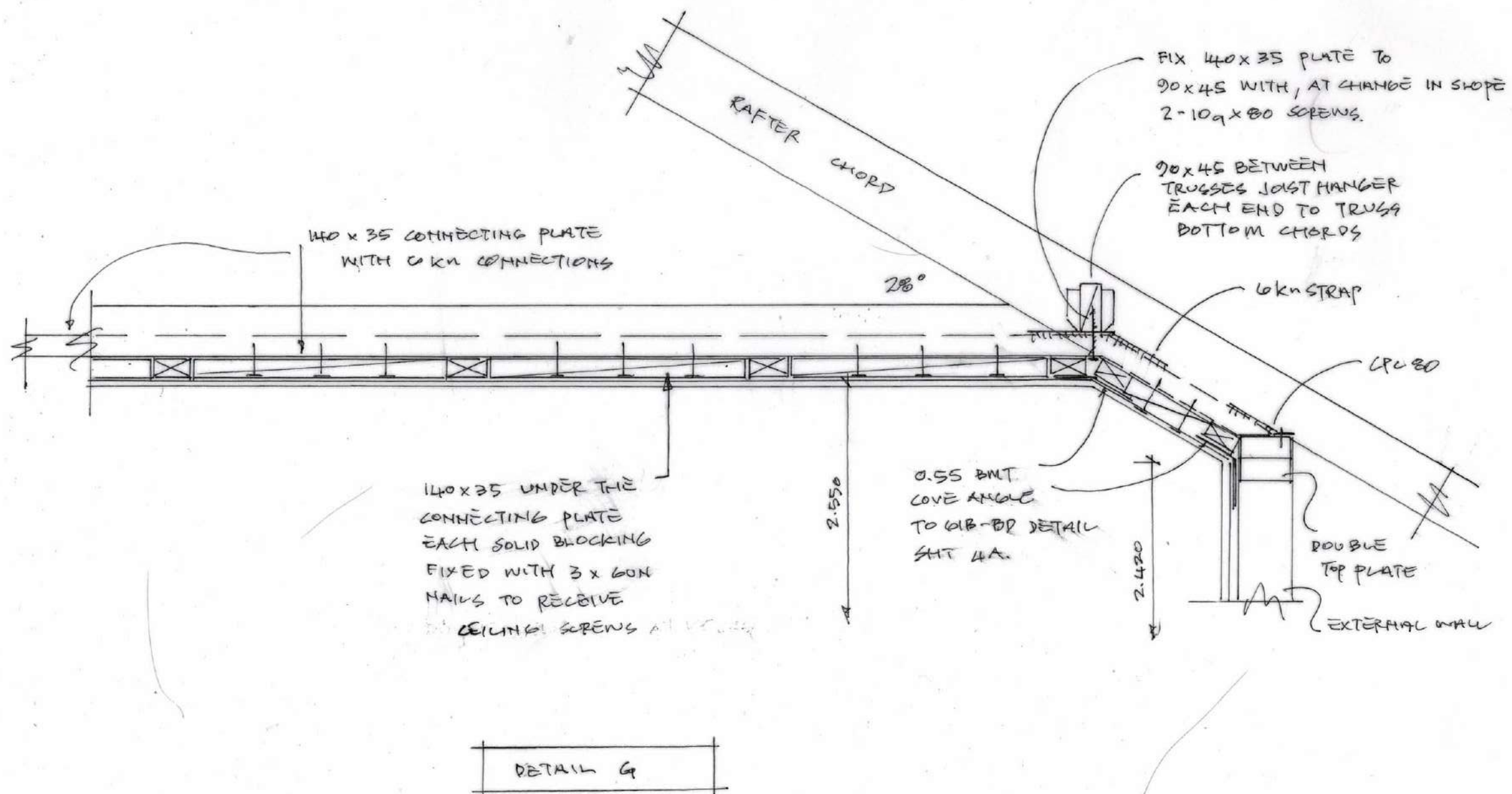
ALL CONSTRUCTION TO COMPLY WITH NZBC AND RELEVANT DOCUMENTS AND NZS 3604
 PROPOSED RESIDENCE LOT 277 RIDGELAND WAY
 WEST MELTON
 5 COOPWORTH MENS

BRACING PLAN
 DRAWN: B.R. SHARR
 REVISED 10.02.2023
 DATE 28.08.2022
 SCALE 1:100

SHEET
 4

CONNECTING DETAILS FOR
BRACING LINE C5-C6
D1-D2-D3





REMOVED
REFERENCE TO
REVISED 1.3.2023 CEILING DIAPHRAGM

B R SHARR DESIGN

136 Halswell Junction Road
Halswell
Christchurch 8025

ALL CONSTRUCTION TO COMPLY WITH NZBC AND RELEVANT DOCUMENTS AND NZS 3604

PROPOSED RESIDENCE 5 COOPWORTH MENS

WEST MELTON

BRACING CONNECTION DETAIL G

DRAWN: B.R. SHARR

DATE 16.2.2023

SCALE 1:10 @ A3

SHEET

40

5 COOPWORTH MEWS DWELLING AREA

NAME	JEM BUILDERS		
STREET ADDRESS	5 COOPWORTH MEWS		
LOT	277	DP	1
CITY/TOWN			
SINGLE	☒	SUB FLOOR	☐
UPPER	☐	SLAB	☒
LOWER OF TWO	☐	2 KPS	☒
BUILDING HEIGHT TO APEX	5.5	METRES	
ROOF HEIGHT ABOVE EAVES	3.0	METRES	
STUP HEIGHT	2.420	METRES	
AVERAGE ROOF PITCH	20	METRES	
BUILDING LENGTH	23.75	METRES	
BUILDING WIDTH	13.320	METRES	
GROSS PLUMB AREA	314	SQ METRE	
LOADING WEIGHT	LIGHT	MEDIUM	HEAVY
SUB FLOOR	☐	☒	☐
LOWER STORSET	☐	☒	☐
UPPER OR SINGLE	☐	☒	☐
ROOF WEIGHT	HEAVY	HEAVY	
ROOM IN ROOF	YES	NO	☒

WIND ZONE

ACTION	REFERENCE	VALUES AVAILABLE	OUTCOME
WIND REGION	FIGURE S.1	A W	A
LEE ZONE	FIGURE S.1	YES NO	NO
GROUND ROUGHNESS	PAGE 6	URBAN SPAT	URBAN
SITE EXPOSURE	PAGE 7	SHELTERED EXPOSED	SHELTERED
TOPOGRAPHIC CLUES		GENTLE TO STEEP	GENTLE
WIND ZONE		L M H V M EX SED	H

EARTHQUAKE

ACTION	REFERENCE	VALUES AVAILABLE	OUTCOME
EARTHQUAKE ZONE		1 2 3 4	2
GTE SUBSOIL CLASSIFICATION		A B C D E	DEFAULT D/E

BUS REQUIRED WIND

W ACROSS	☒	75	BUS PER M	FROM NZS 3604 2011
W ALONG	☒	65	BUS PER M	
TOTAL WIND LOAD				
W ACROSS	ENTER BL	MULTIPLY	BUS PER ACROSS	EQUALS ALONG W REQUIRED
	23.75	x	75	1781
W ALONG	ENTER BW	MULTIPLY	BUS PER ALONG	EQUALS ACROSS W REQUIRED
	13.320	x	65	866

BUS REQUIRED EARTHQUAKE

EC 9 x 0.8	7.2	BUS PER M2	FROM NZS 3604 2011
TOTAL EARTHQUAKE LOAD			
BUS REQUIRED	GPA	MULTIPLY	E EQUALS E REQUIRED
ADDITIONAL BUS	248	x	7.2
			1786

ALONG

WALL OF BRACING LINE		BRACING ELEMENTS PROVIDED			WIND		EARTHQUAKE	
1	2	3	4	5				
LINE LABEL	MINIMUM BUS REQUIRED	BRACING ELEMENT NO	BRACING TYPE	LENGTH ELEMENT (m) L	RATING B/m	BUS ACHIEVED	RATING B/m	BUS ACHIEVED
					W	W	E	E
A		A1	651n	0.8	50	40	55	44
		A2	651n	0.8	50	40	55	44
		A3	651n	2.2	70	154	60	132
B		B1	651n	0.6	50	30	55	33
		B2	651n	1.6	70	112	60	96
		B3	651n	0.5	50	25	55	28
		B4	651n	0.5	50	25	55	28
C		C5	652n	4.0	95	380	80	320
		C6	651n	3.0	70	210	60	180
D		D1	652n	2.4	95	228	80	192
		D2	652n	2.0	95	190	85	170
		D3	651n	2.0	70	140	60	120
		D4	652n	2.0	95	80	80	160
		D5	652n	2.0	95	190	80	160
		D6	651n	2.0	70	140	60	120
E		E3	651n	1.8	70	126	60	108
		E4	BL1-H	1.4	125	175	105	147
		E5	651n	3.6	70	252	60	216
TOTAL ACHIEVED					2647		2298	
TOTAL REQUIRED					2570		2235	
ACROSS					W REQUIRED	866	E REQUIRED	1786

WIND OF BRACING LINE		BRACING ELEMENTS PROVIDED			WIND		EARTHQUAKE	
1	2	3	4	5				
LINE LABEL	MINIMUM B.U'S REQUIRED	BRACING ELEMENT H°	BRACING TYPE	LENGTH ELEMENT L	RATING B/m	B.U'S ACHIEVED	RATING B/m	B.U'S ACHIEVED
					W	W	E	E
P		P1	652n	2.4	95	228	85	204
		P2	651n	1.8	70	126	60	108
Q		Q1	BL1-H	0.5	90	45	100	50
		Q2	BL2-H	1.0	110	110	110	110
R		Q3	651n	1.8	70	126	60	108
		R1	651n	4.2	70	294	60	252
S		R2	651n	4.5	70	315	60	270
		S1	651n	2.8	70	196	60	168
T		S2	651n	4.4	70	308	60	264
		T1	651n	2.8	70	196	60	168
U		T2	651n	5.2	70	364	60	312
		U1	651n	1.0	50	50	55	55
		U2	651n	1.0	50	50	55	55
TOTALS ACHIEVED					2408		2150	
TOTALS REQUIRED					2295		2020	
					W REQUIRED	1781	E REQUIRED	1786

B R SHARR DESIGN

136 Halswell Junction Road
Halswell
Christchurch 8025

IN CONSTRUCTION TO COMPLY WITH NZBC AND RELEVANT DOCUMENTS AND NZS 3604

PROPOSED RESIDENCE 5 COOPWORTH MEWS

WEST MELTON.

BRACING CALC'S
DWELLING

DRAWN: B.R. SHARR

SCALE

DATE

SHEET

5

5 COOP WORTH MENS (GARAGE AREA)

NAME	JEN BUILDERS		
STREET ADDRESS	DR 1		
LOT			
CITY/TOWN	ROSEBURY		
SINGLE	☒	SUB FLOOR	☐
UPPER	☐	SCAB	☐
LOWER OF TWO	☐	2-KP	☐
BUILDING HEIGHT TO APEX	5.5	METRES	
ROOF HEIGHT ABOVE EAVES	2.0	METRES	
STUP HEIGHT	2.420	METRES	
AVERAGE ROOF PITCH	28	METRES	
BUILDING LENGTH BL	12.42	METRES	
BUILDING WIDTH BW	7.75	METRES	
GROSS PLUMB AREA CPA	88.56	SQ METRE	
LOADING WEIGHT	LIGHT	MEDIUM	HEAVY
SUB FLOOR			
ROOF STRENGTH			
UPPER OR SINGLE			
ROOF WEIGHT	HEAVY	HEAVY	
ROOM IN ROOF	YES	NO	

WIND ZONE

ACTION	REFERENCE	VALUES AVAILABLE	OUTCOME
WIND REGION	FIGURE S.1	A W	A
LEE ZONE	FIGURE S.1	YES NO	NO
GROUND ROUGHNESS	PAGE 6	URBAN OPEN	URBAN
SITE EXPOSURE	PAGE 7	SHELTERED EXPOSED	SHELTERED
TOPOGRAPHIC CLINGS		GENTLE TO STEEP	GENTLE
WIND ZONE		L M H V H EX SED	H

EARTHQUAKE

ACTION	REFERENCE	VALUES AVAILABLE	OUTCOME
EARTHQUAKE ZONE		1 2 3 4	2
SITE SUBSOIL CLASSIFICATION		A B C D E	DEFAULT D-E

BUS REQUIRED WIND

W ACROSS	☒	25	BUS PER M	FROM NZS 3604 2011
W ALONG	☐	65	BUS PER M	
TOTAL WIND LOAD				
W ACROSS	ENTER BL	MULTIPLY	BUS PER ACROSS	EQUALS ALONG W REQUIRED
	12.42	X	75	931.5
W ALONG	ENTER BW	MULTIPLY	BUS PER ALONG	EQUALS ACROSS W REQUIRED
	7.75	X	65	503

BUS REQUIRED EARTHQUAKE

$E = 0 \times 0.8$	7.2	BUS PER m ²	FROM NZS 3604 2011	
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TOTAL EARTHQUAKE LOAD

EQ REQUIRED ALONG LENGTH	GPA	MULTIPLY	E	EQUALS E REQUIRED
	88.56	X	7.2	638

ALONG

WALL OR DRAGLINE		BRACING ELEMENTS PROVIDED			WIND		EARTHQUAKE	
1	2	3	4	5				
LINE LABEL	MINIMUM BUS REQUIRED	BRACING ELEMENT NO	BRACING TYPE	LENGTH ELEMENT (m) L	RATING BU/m W	BUS ACHIEVED W	RATING BU/m E	BUS ACHIEVED E
C		C1	OSP-H	0.5	100	50	115	57
		C2	OSP-H	0.5	100	50	115	57
		C3	OSP-H	0.5	100	50	115	57
		C4	OSP-H	0.5	100	50	115	57
E		E1	BLI-H	1.7	125	212	105	178
		E2	BLI-H	1.6	125	200	105	168
		E6	OSIN	2.0	70	140	60	120

ACROSS

WALL OR DRAGLINE		BRACING ELEMENTS PROVIDED			WIND		EARTHQUAKE	
1	2	3	4	5	RATING B/M	BUS ACTUAL	RATING B/M	BUS ACTUAL
LINE LABEL	MINIMUM BUS REQUIRED	BRACING ELEMENT NO	BRACING TYPE	LENGTH ELEMENT (M) L	W	W	E	E
		M1	OSIN	4.6	70	272	60	276
		M1	BLI-H	1.2	125	150	105	126
		M2	OSIN	1.0	50	50	55	55
			OSP-H	1.0	120	120	135	135
		O1	OSIN	3.0	70	210	60	180
		O2	OSIN	3.4	70	168	60	144
TOTALS ACHIEVED					ACHIEVED	1020	E ACHIEVED	861
TOTALS REQUIRED					W REQUIRED	932	E REQUIRED	638

TOTALS
WIND = 270
EQ = 261

REVISED 1.3.2023.

B R SHARR DESIGN

136 Halswell Junction Road
Halswell
Christchurch 8025

IN CONSTRUCTION TO COMPLY WITH NZBC AND RELEVANT DOCUMENTS AND NZS 3604

PROPOSED RESIDENCE 5 COOPWORTH MENS

WEST MELTON

BRACING CALC'S
GARAGE

DRAWN: B.R. SHARR

SCALE

DATE

SHEET

5 A

BRACING NOTES

- 1 GRID N - MINIMUM FOR DIAPHRAGMS 15 BU'/m (E 15 x 13.3 = 200 BU'S MINIMUM TO CLS.5.2.2)
- 2 TOTAL BRACING DEMAND TREATING GARAGE AS SEPERATE WING = $75 \times 12.44 = 933$ BU'S
- 3 TOTAL DEMAND SPREAD OVER 3 X BRACING LINES = $\frac{933}{3} = 311$ EACH LINE WITH MINIMUM OF $\frac{1}{2}(311) = 156$ BU'S TO ANY BRACING LINE

∴ GRIDLINE N REQUIRES AT LEAST 200 BU'S

SINCE 1 ABOVE GOVERNS TO NZS 3604

NOTE: GIB RECOMMENDS EXCEEDING THIS BY 10%

SO PROVIDE 220 BU'S

- 4 BRACING LINE N HAS BEEN AMENDED TO REFLECT THE ABOVE.

CEILING DIAPHRAGM IN FAMILY AREA HAS BEEN REMOVED BY REDUCING WIDTH OF 6.200 TO 6.000 METRES PLANS HAVE BEEN AMENDED ACCORDINGLY.

PLEASE REMOVE SHT 4A FROM CONSENT DOCUMENTS HAS IT NO LONGER APPLIES.

AMENDED SHTS 2, 4, 4C, 5A, 13, 14A ATTACHED.

8.7.3.4 NZS 3604:2011

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

125 BUS

SECTION 8 - WALLS

NZS 3604:2011

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

Connection rated as per table below

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

Ceiling joist

Top plate

Studs

Top plate

(A) BUTT JOINT

(B) BUTT JOINT (WITH CEILING JOIST)

Capacities of metal plate joints

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

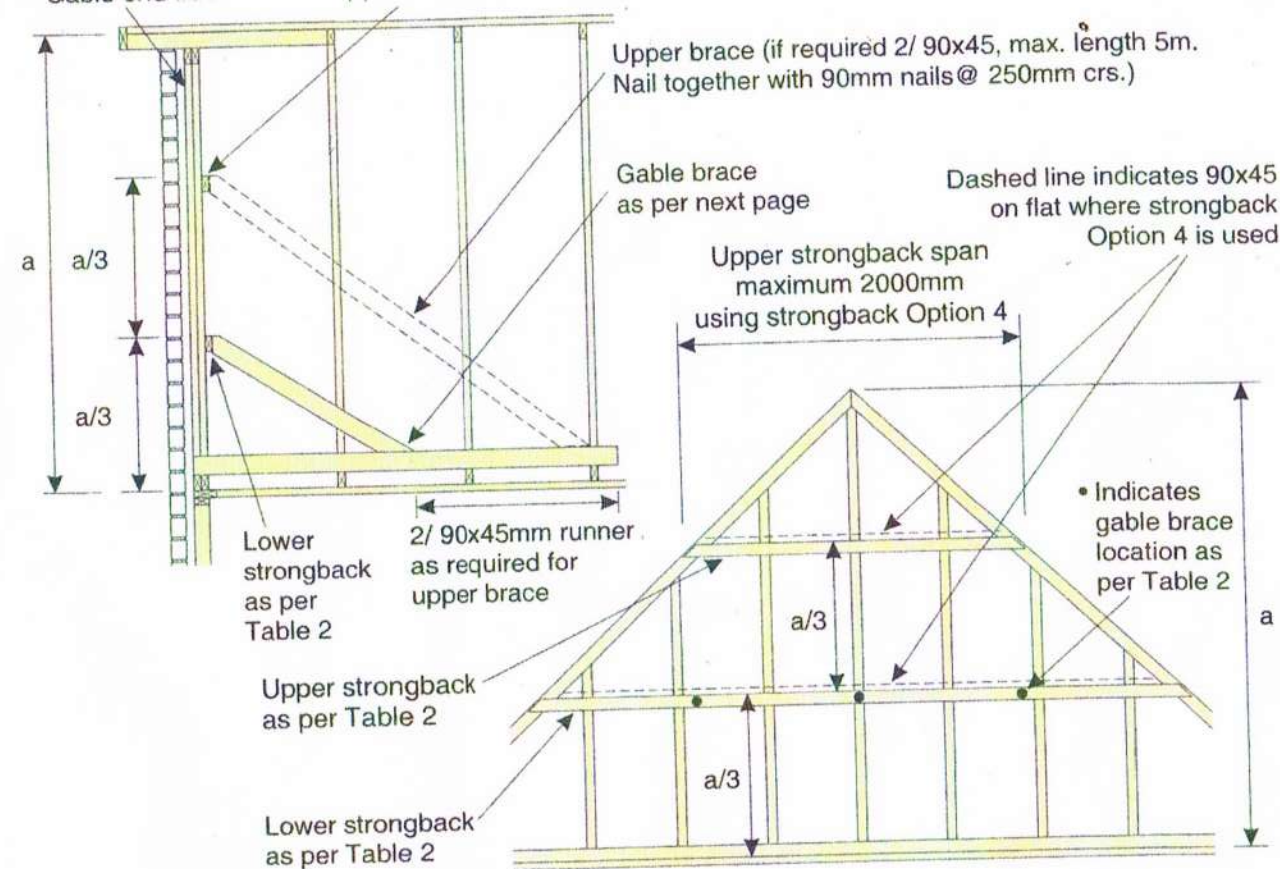
Capacities of nailed joints

Up to 3 kN	3 / 100 x 3.75 mm nails per side
Up to 6 kN	6 / 100 x 3.75 mm nails per side

NOTE - See section 4 for durability requirements.

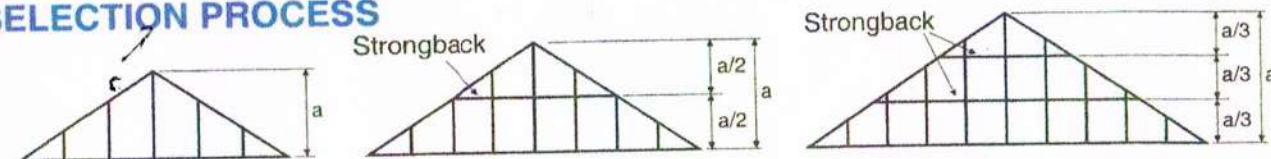
Unless otherwise stated, all dimensions are in mm.

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



DOUBLE STRONGBACK DETAILS FOR ALL GABLE END OPTIONS (full height brick veneer option shown)

SELECTION PROCESS



- Where (a) is less than or equal to (h) - no strongback required.
- Where (a) is greater than (h) but less than 2(h) - lower strongback is required.
- Where (a) is greater than 2(h) but less than 3(h) - lower and upper strongbacks are required.
- Locate the strongback at height of (a/2).
- Locate strongbacks at height increments of (a/3).

STRONGBACK OPTIONS

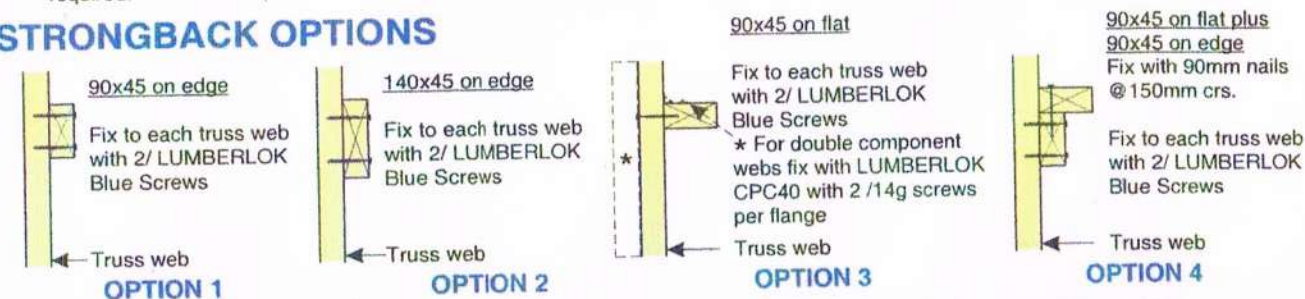


TABLE 2 - STRONGBACK SPAN AND GABLE BRACE LOCATION

OPTION 1	OPTION 2	OPTION 3	OPTION 4
90x45 on edge	140x45 on edge	90x45 on flat	90x45 on flat plus 90x45 on edge
Max. span and/or gable brace location 1200mm	Max. span and/or gable brace location 1400mm	Max. span and/or gable brace location 1600mm	Max. span and/or gable brace location 2000mm

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Christchurch 8025

ALL CONSTRUCTION TO COMPLY WITH NZBC AND RELEVANT DOCUMENTS AND NZS 3604

PROPOSED RESIDENCE

ROCHESTON

BRACING DETAILS

DRAWN: B R SHARR

DATE

SCALE 1:100 @ A3

SHEET

6

SDC - Approved Building Consent Document - BC222511 - Pg 12 of 47 - 9/03/2023 - abelaa



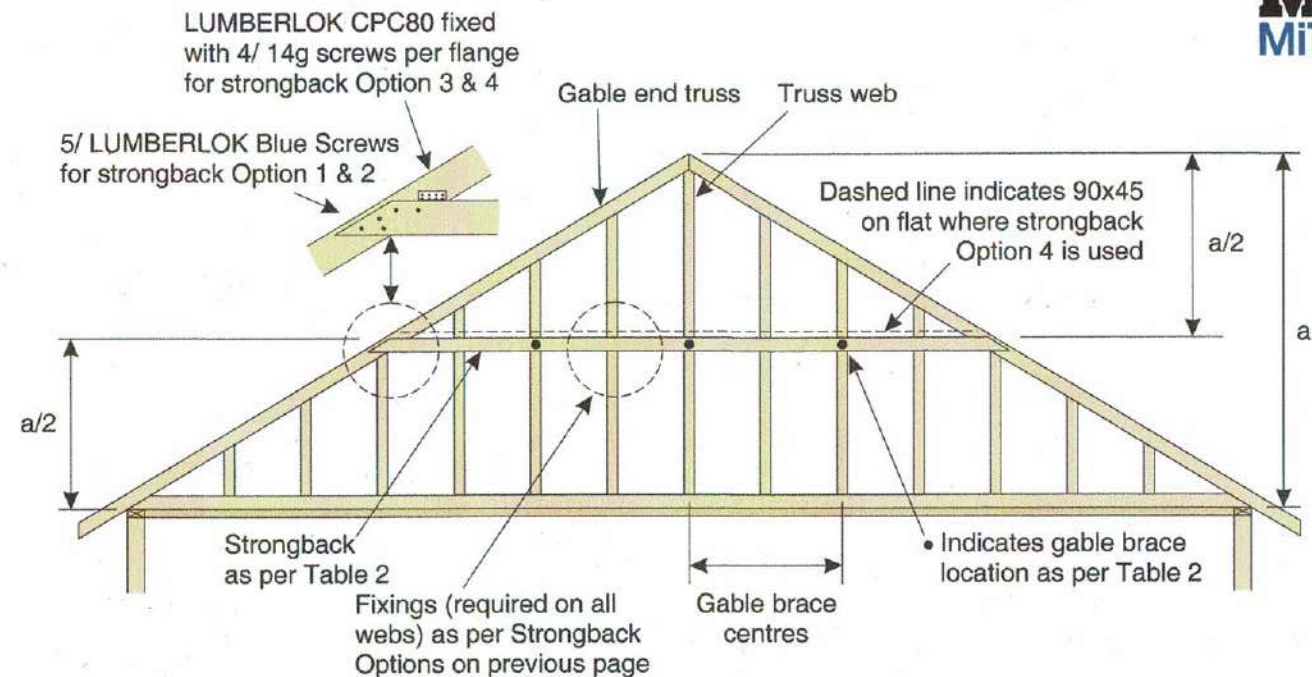
TABLE 1A - STRONGBACK LOCATION FOR WEBS @ 600MM CRS.

WIND ZONE	MAXIMUM STRONGBACK HEIGHT (h)											
	70x45 Web		90x45 Web		Double Component Gable End Webs				45x70 on flat		45x90 on flat	
	SG6	SG8	SG6	SG8	2/ 70x45		2/ 90x45		SG6	SG8	SG6	SG8
LOW	1750	1950	1900	2100	2200	2450	2400	2650	2350	2600	2950	3150
MEDIUM	1600	1750	1750	1900	2000	2200	2200	2400	2150	2350	2750	2950
HIGH	1400	1500	1500	1650	1750	1900	1900	2100	1800	2050	2350	2650
VERY HIGH	1250	1400	1400	1500	1600	1750	1750	1900	1600	1900	2050	2400
EXTRA HIGH	1150	1350	1300	1450	1550*	1700*	1650*	1850*	1450	1700	1850*	2200*

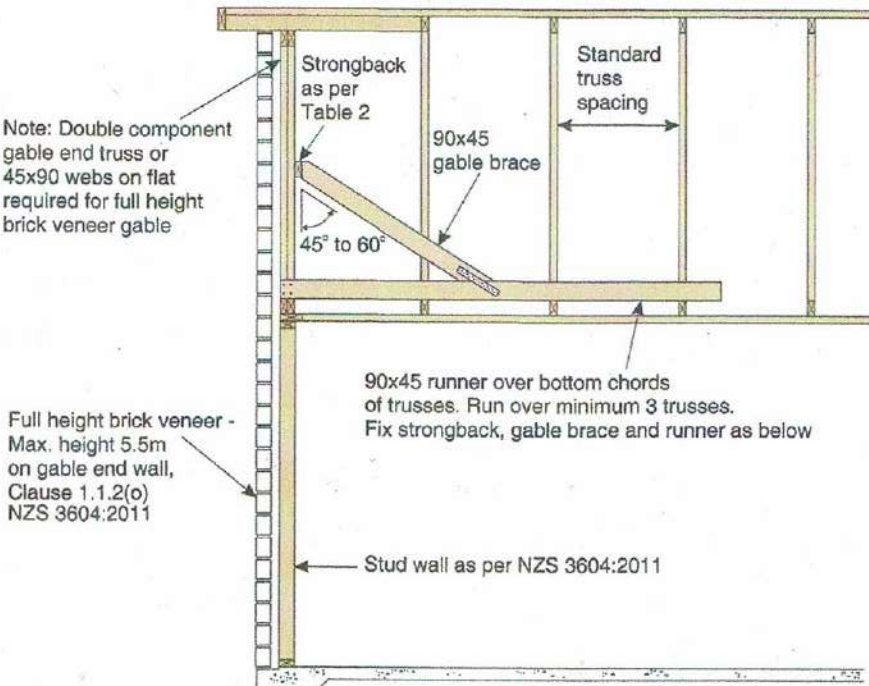
TABLE 1B - STRONGBACK LOCATION FOR WEBS @ 400MM CRS.

WIND ZONE	MAXIMUM STRONGBACK HEIGHT (h)											
	70x45 Web		90x45 Web		Double Component Gable End Webs				45x70 on flat		45x90 on flat	
	SG6	SG8	SG6	SG8	2/ 70x45		2/ 90x45		SG6	SG8	SG6	SG8
LOW	2000	2200	2200	2400	2550	2750	2750	2950	2700	2900	3250	3500
MEDIUM	1800	2000	2000	2200	2300	2550	2500	2750	2450	2700	3050	3300
HIGH	1600	1750	1750	1900	2000	2200	2200	2400	2150	2350	2750	2950
VERY HIGH	1450	1600	1600	1750	1850	2000	2000	2200	1950	2200	2500	2750
EXTRA HIGH	1400	1550	1500	1650	1750*	1950*	1900*	2100*	1800	2100	2300*	2650*

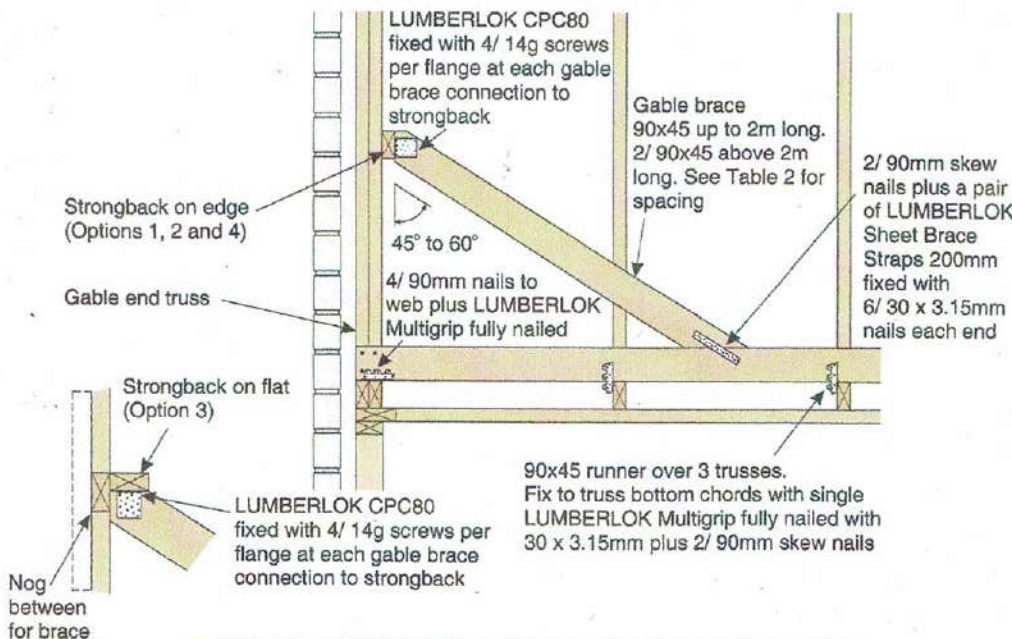
*Use these values for full height brick veneer attached to gable end.
Please note that the maximum height of brick veneer on a gable end wall is 5.5m.



SINGLE STRONGBACK DETAILS



CROSS SECTION
(full height brick veneer option shown)



GABLE BRACE DETAIL FOR ALL GABLE END OPTIONS
(full height brick veneer option shown)



MiTek New Zealand Limited

AUCKLAND
PO Box 58-014, Botany 2163
Phone: 09-274 7109
Fax: 09-274 7100

CHRISTCHURCH
PO Box 8387, Riccarton 8440
Phone: 03-345 8801
Fax: 03-345 0314

www.mitek.co.nz

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136 Halswell Junction Road
Halswell
Christchurch 8025

ALL CONSTRUCTION TO COMPLY WITH NZBC AND RELEVANT DOCUMENTS AND NZS 3604
PROPOSED RESIDENCE
RALESTON

BRACING DETAILS

DRAWN: BRSHARR

DATE

SCALE

SHEET

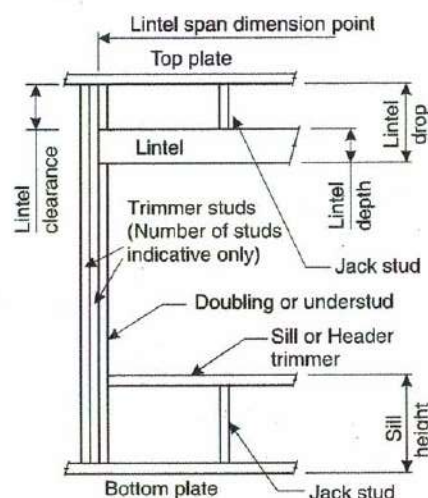
7

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

NOTE:

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

DEFINITIONS



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

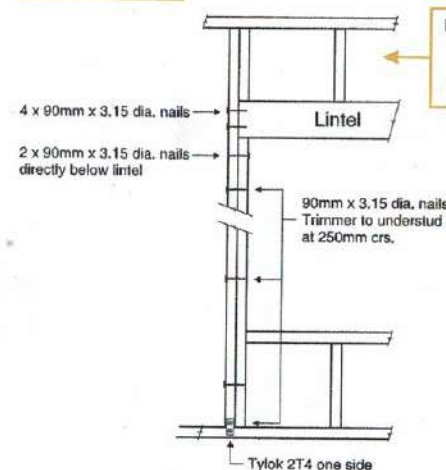
Lintel Span (m)	Loaded Dimension (m) (See Fig. 1.3 NZS 3604:2011)	Light Roof Wind Zone					Heavy Roof Wind Zone				
		L	M	H	VH	EH	L	M	H	VH	EH
1.0	2.0	E	E	F	F	F	E	E	F	F	F
	3.0	E	E	F	F	F	E	E	F	F	F
	4.0	E	F	F	F	G	E	E	F	F	G
	5.0	E	F	F	G	G	E	E	F	F	G
	6.0	E	F	F	G	G	E	E	F	F	G
1.2	2.0	E	E	F	F	F	E	E	F	F	F
	3.0	E	E	F	F	F	E	E	F	F	F
	4.0	E	F	F	G	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	G
	3.0	F	F	G	G	H	E	E	F	G	G
	4.0	F	F	G	G	H	E	E	F	G	G
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	6.0	F	G	G	H	H	E	F	G	H	H
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	6.0	F	G	H	-	-	E	F	G	H	-
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	4.0	F	G	H	H	-	E	F	G	H	H
	5.0	F	G	H	-	-	E	F	G	H	-
	6.0	G	H	H	-	-	E	F	H	-	-
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	3.4	F	G	H	H	-	E	F	G	H	H
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	4.0	G	H	H	-	-	E	F	H	-	-
	5.0	G	H	-	-	-	E	F	H	-	-
6.0	2.0	G	H	-	-	-	E	G	H	-	-
	6.0	G	H	-	-	-	E	G	H	-	-

8.WALLS

8.WALLS

LINTEL FIXING OPTIONS

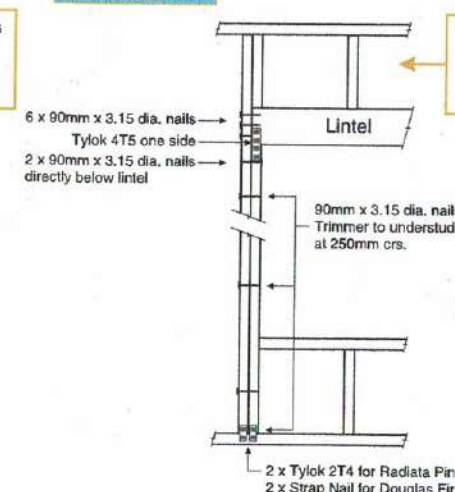
TYPE E 1.4kN



For fixing of jack studs to lintel & top plate, refer to Stud to Top Plate Fixing Schedule

Stud numbers indicative only. Refer Table 8.5 NZS 3604:2011

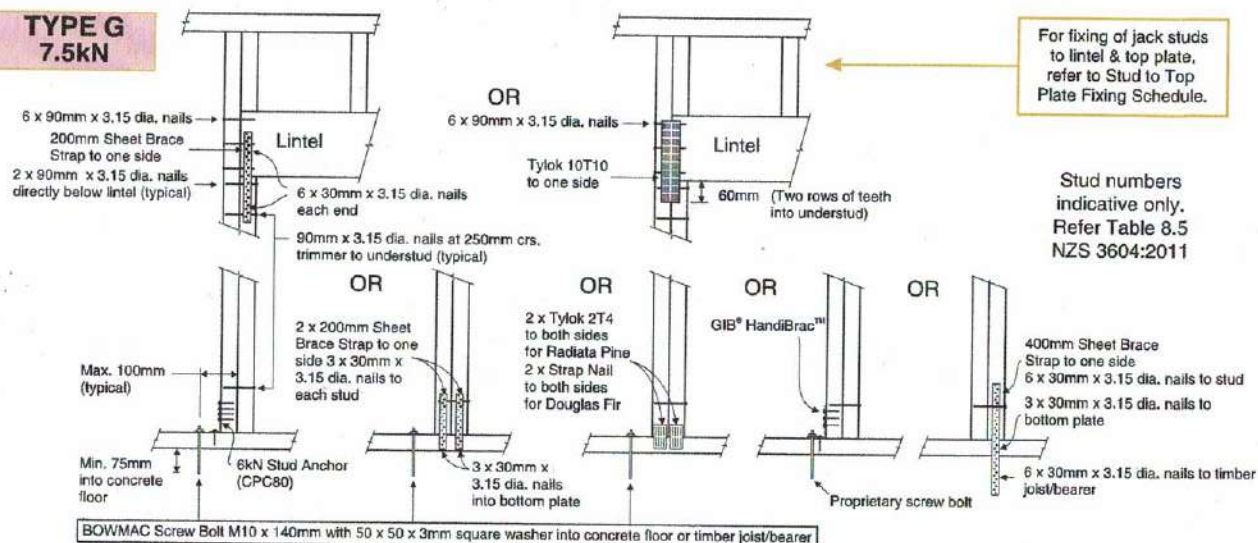
TYPE F 4.0kN



For fixing of jack studs to lintel & top plate, refer to Stud to Top Plate Fixing Schedule

Stud numbers indicative only. Refer Table 8.5 NZS 3604:2011

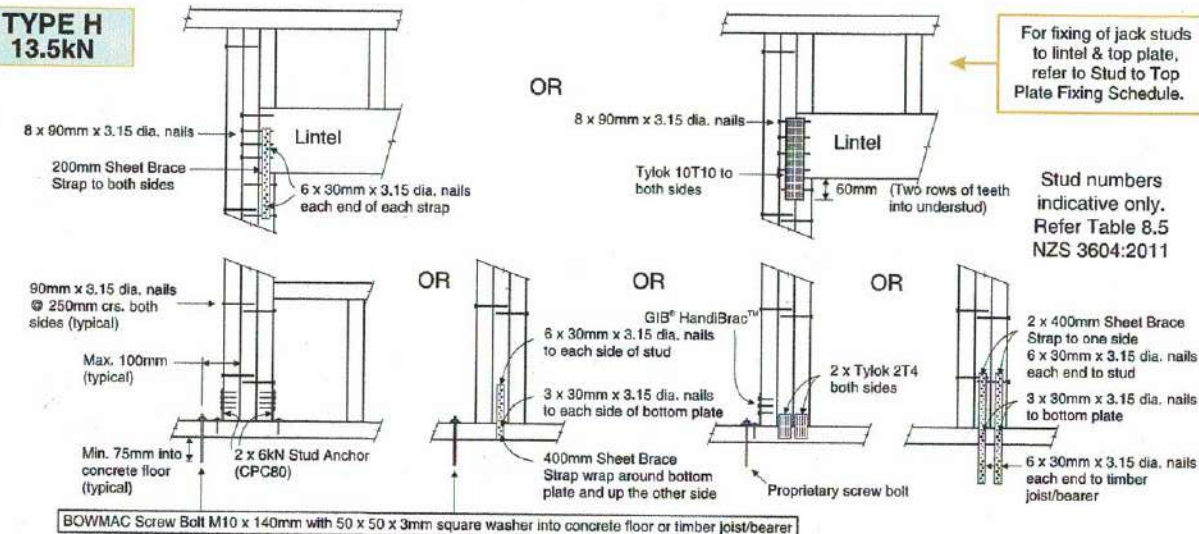
TYPE G 7.5kN



For fixing of jack studs to lintel & top plate, refer to Stud to Top Plate Fixing Schedule.

Stud numbers indicative only. Refer Table 8.5 NZS 3604:2011

TYPE H 13.5kN



For fixing of jack studs to lintel & top plate, refer to Stud to Top Plate Fixing Schedule.

Stud numbers indicative only. Refer Table 8.5 NZS 3604:2011

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PROPOSED RESIDENCE

LINTEL FIXINGS

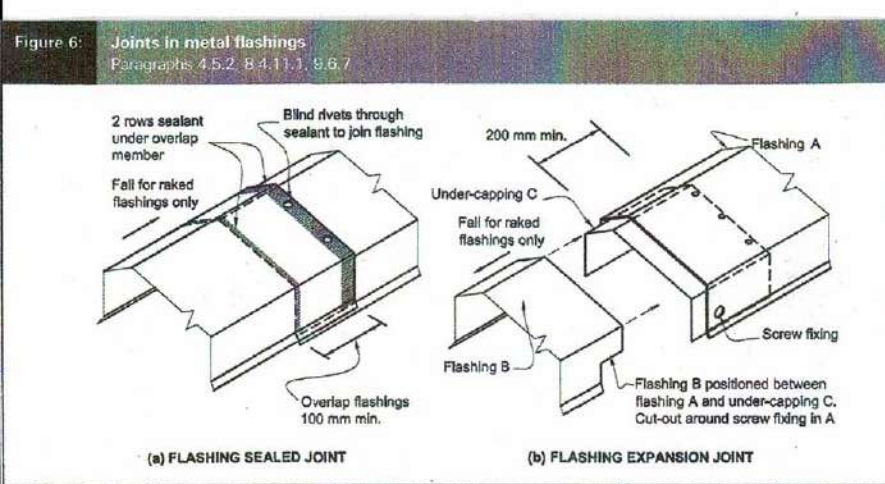
DRAWN: B.R. SHARR

DATE

SCALE

SHEET

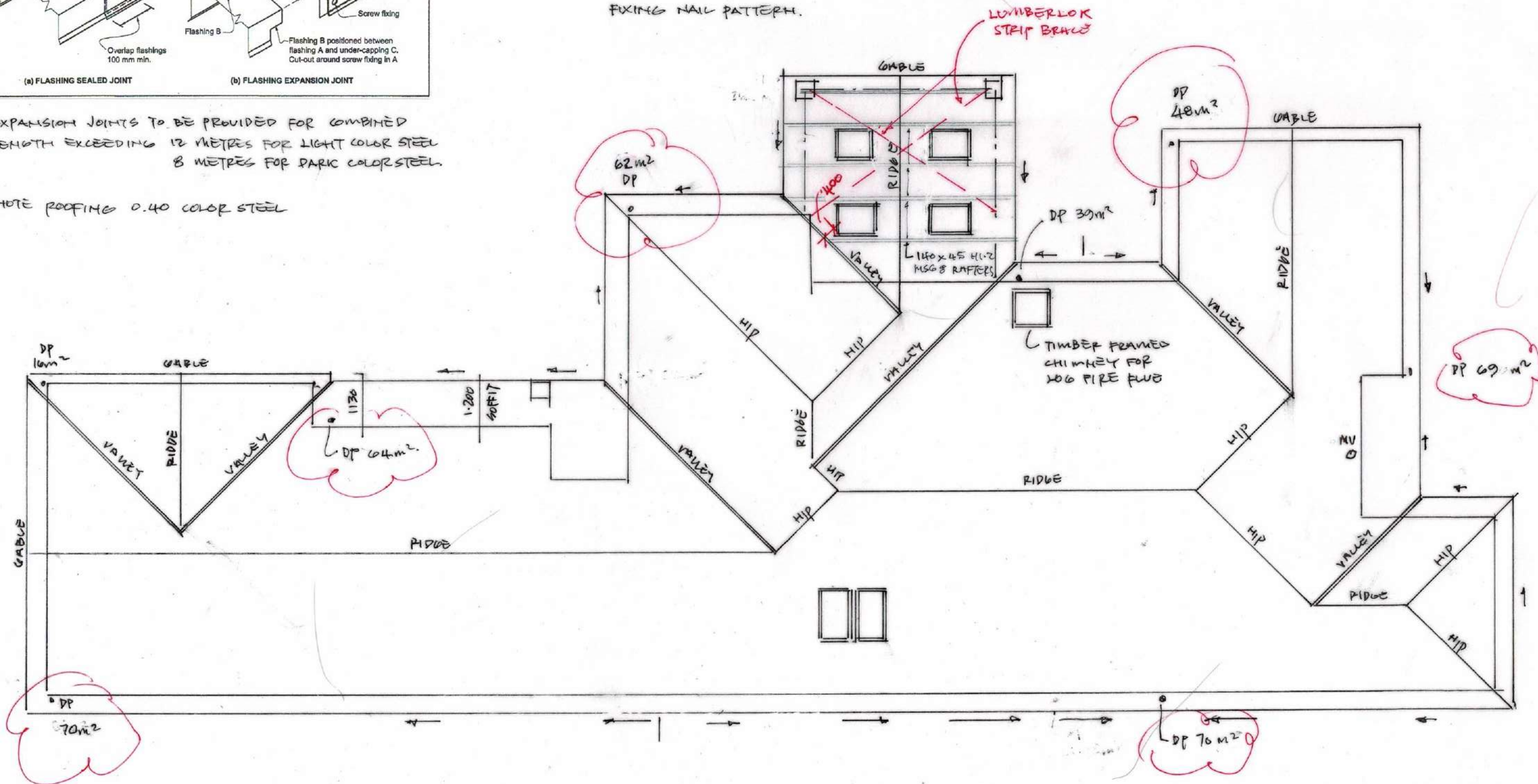
7A



EXPANSION JOINTS TO BE PROVIDED FOR COMBINED LENGTH EXCEEDING 12 METRES FOR LIGHT COLOR STEEL
8 METRES FOR DARK COLOR STEEL.

NOTE ROOFING 0.40 COLOR STEEL

3 FASTENERS PER SHEET HIT ONE, MISS TWO, HIT ONE, MISS THREE.
FIXING NAIL PATTERN.



ROOFLINE FASCIA & QUAD SPOUTING 7,200 m²

0.55 COLOR STEEL

BRACKETS @ MAXIMUM OF 900 CFS

WITH OVER STRAPS AND SPRINGS @ MAXIMUM OF 600 CFS.

TOTAL ROOF AREA = 433 m²

74m Ø DP = 70m² MAX ROOF AREA (TABLES)

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PROPOSED RESIDENCE LOT 217 RIDGELAND WAY
WEST MELTON
5 COOP WORTH MENS

ROOF PLAN

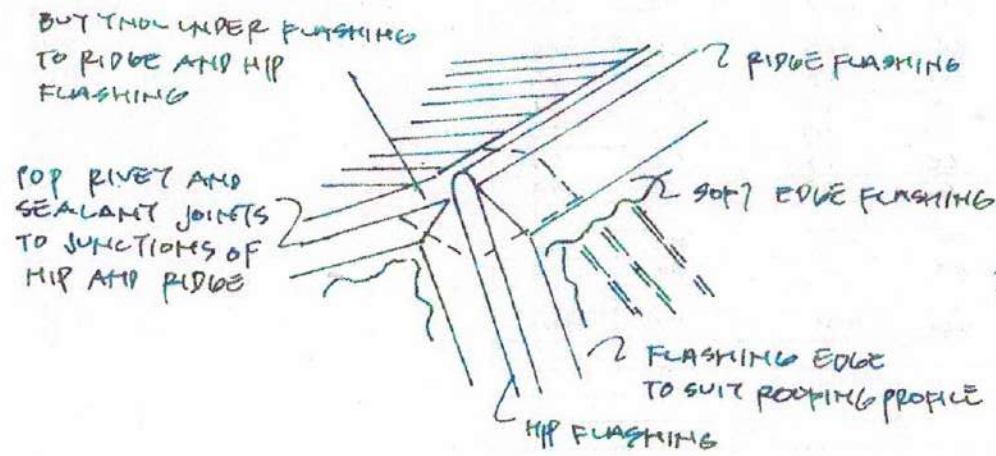
DRAWN: B.R. SHARR

DATE

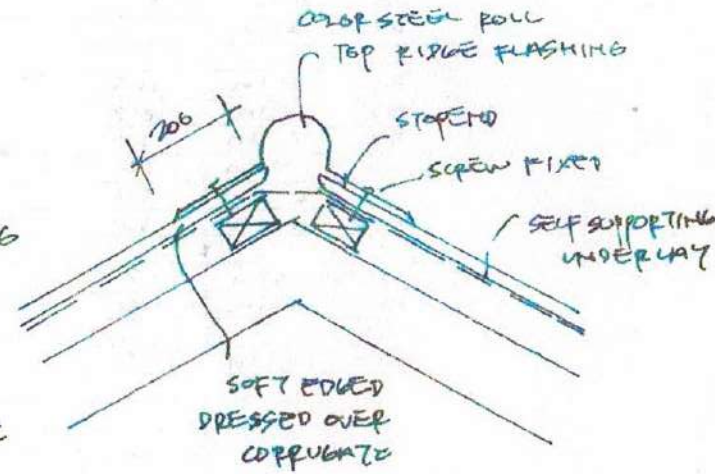
SCALE 1:100 @ A3

SHEET

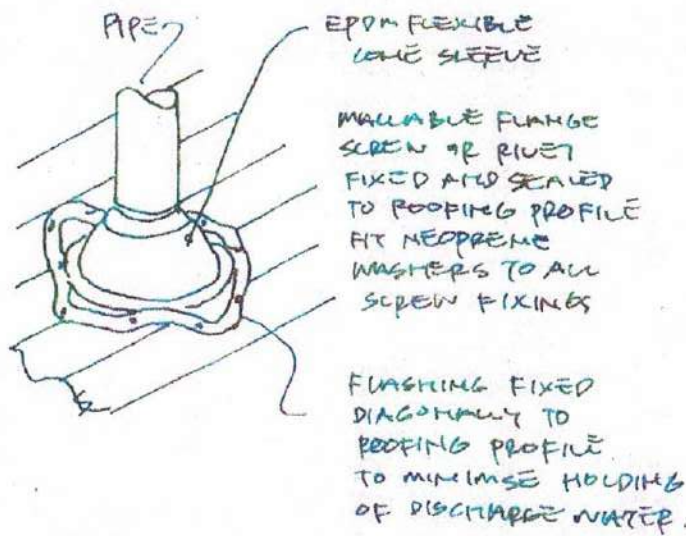
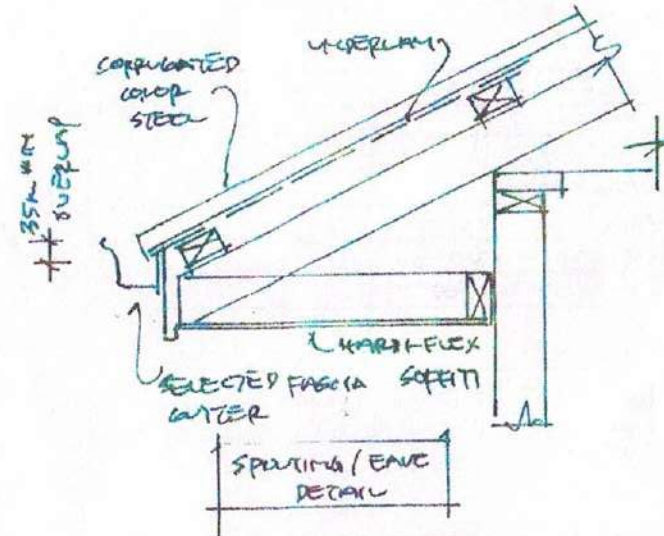
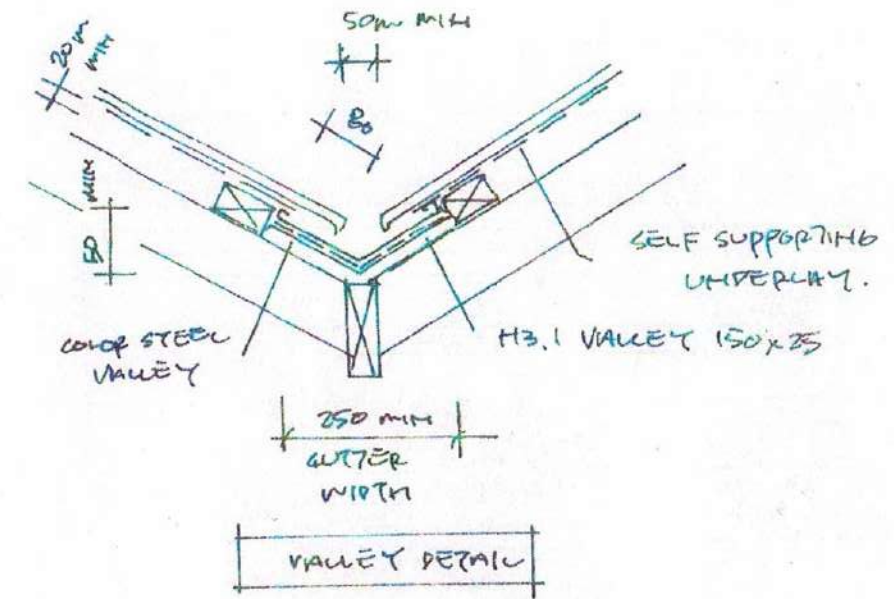
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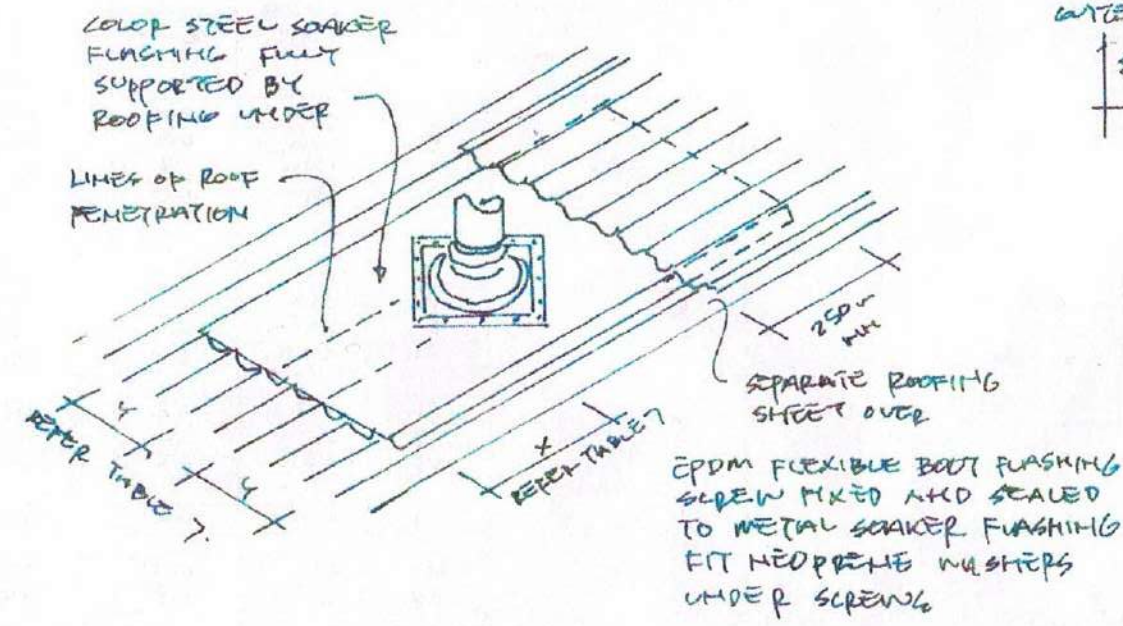
RIDGE TO HIP FLASHING



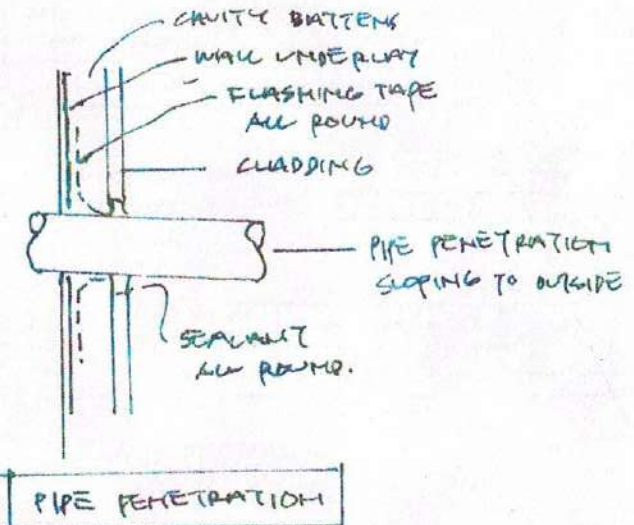
RIDGE DETAIL



NOTE SUITABLE FOR PIPES 80mm - 500mm Ø
ROOF PITCHES OF 10° OR MORE



FLASHING DETAIL FOR ROOF PENETRATIONS



PIPE PENETRATION

NOTE MAX ROOF PITCH 45° MINIMUM 10°
IF BASE OF FLANGE COVERS ONE OR MORE COMPLETE TROUGHS
FOR PIPES UP TO 85mm Ø

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PROPOSED RESIDENCE.

RAIESTON.

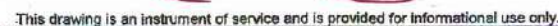
ROOF FLASHING DETAILS

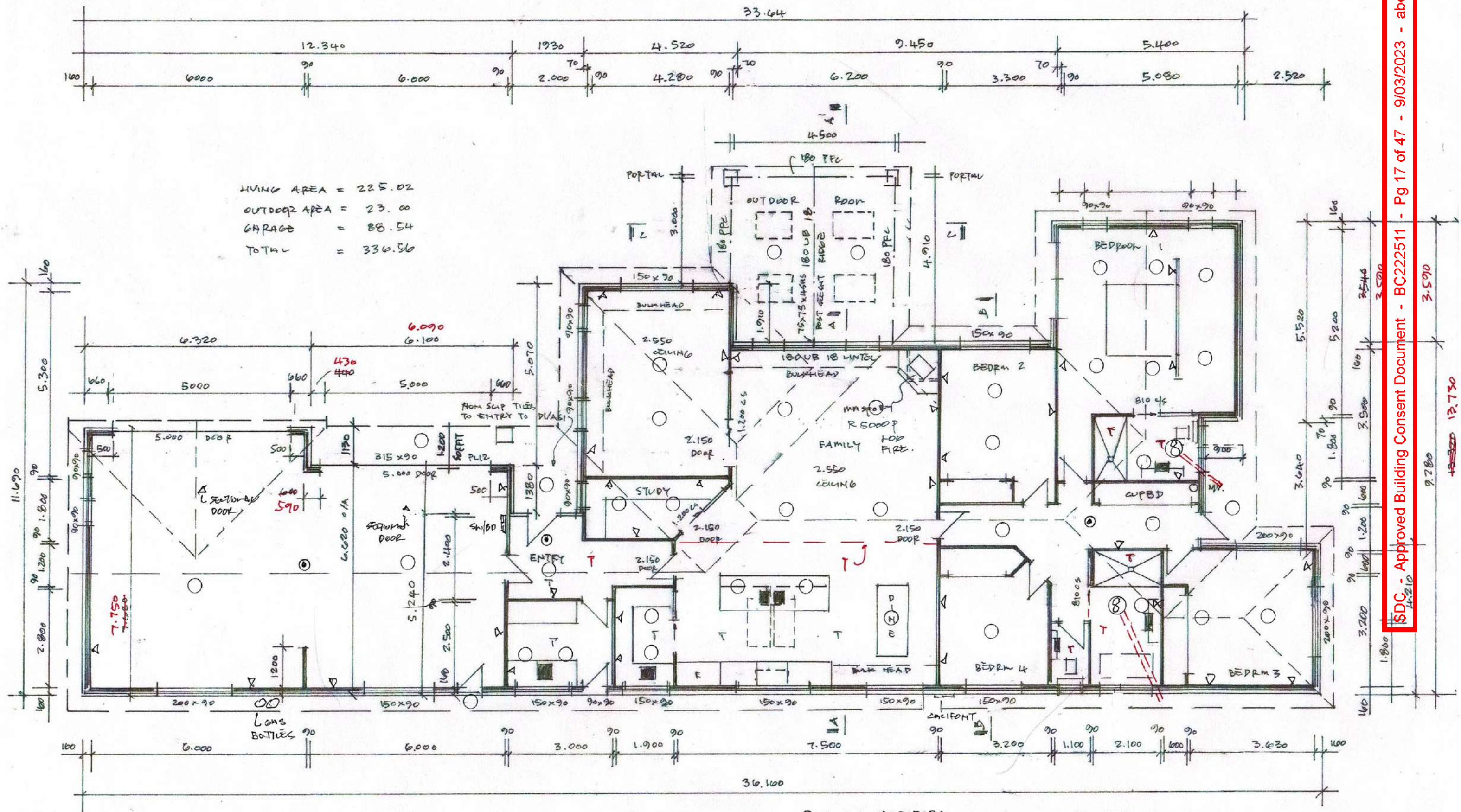
DRAWN B.R. SHARR

SCALE

REF

9





○ LIGHT OUTLET DOWNLIGHTS TO COMPLY WITH CA 80 CA 85 IC OR ICF

△ DOUBLE PLUG (SWITCHED)

⑧ INLINE BATHROOM FAN 150mm Ø MANGROSE (DUCT OUT THRU SOFFIT) 87 1/2 313m³/hr.

⊙ SMOKE DETECTORS
TYPE 1 TO COMPLY WITH NZS 4514

T = TILED AREAS

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PROPOSED RESIDENCE LOT 277 RIDGELAND WAY

WEST MELTON 5 COOPWORTH MEWS

ELECTRICAL PLAN

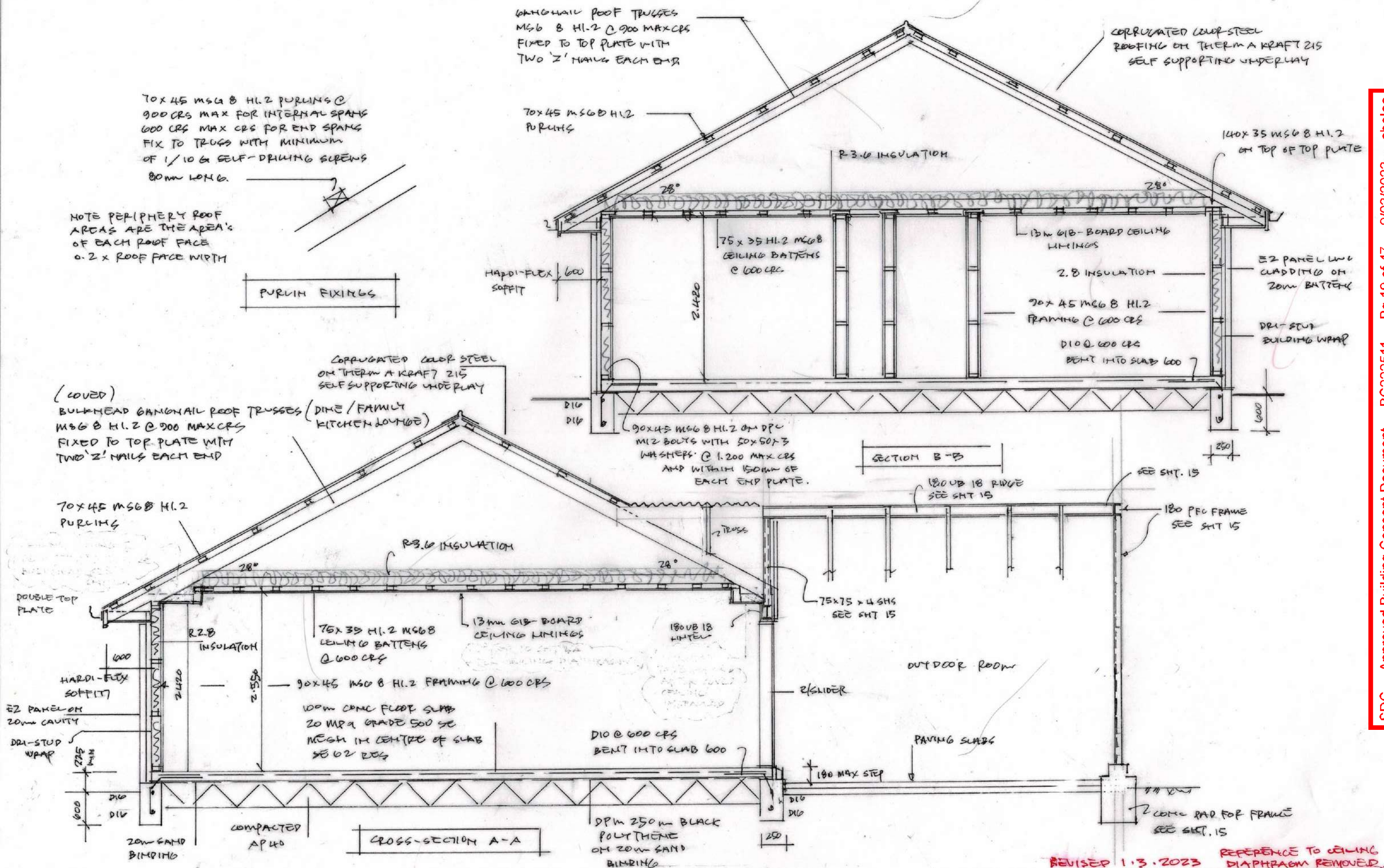
DRAWN: B.R. SHARR

DATE 28.8.2022

SCALE 1:100

SHEET

11



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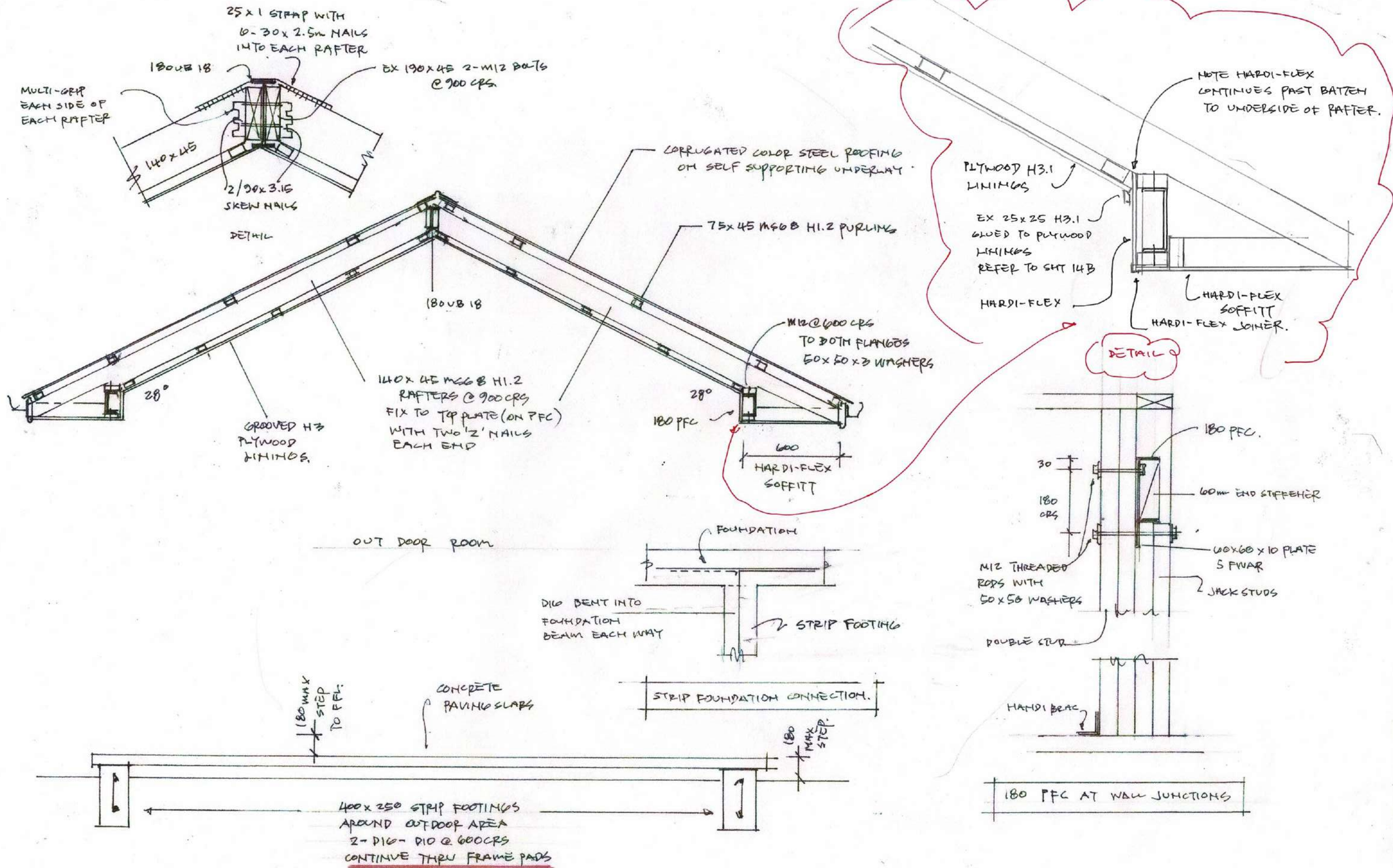
PROPOSED RESIDENCE LOT 277 RIDGELAND WAY
WEST MELTON 5 COOPWORTH MEWS

DRAWN: B. R. SHARP

SCALE 1:50 @ A3

12

REVISED 1.3.2023



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PROPOSED RESIDENCE LOT 277 RIDGELAND WAY
WEST MELTON 5 COOPWORTH MOUNTS

SECTION C-C

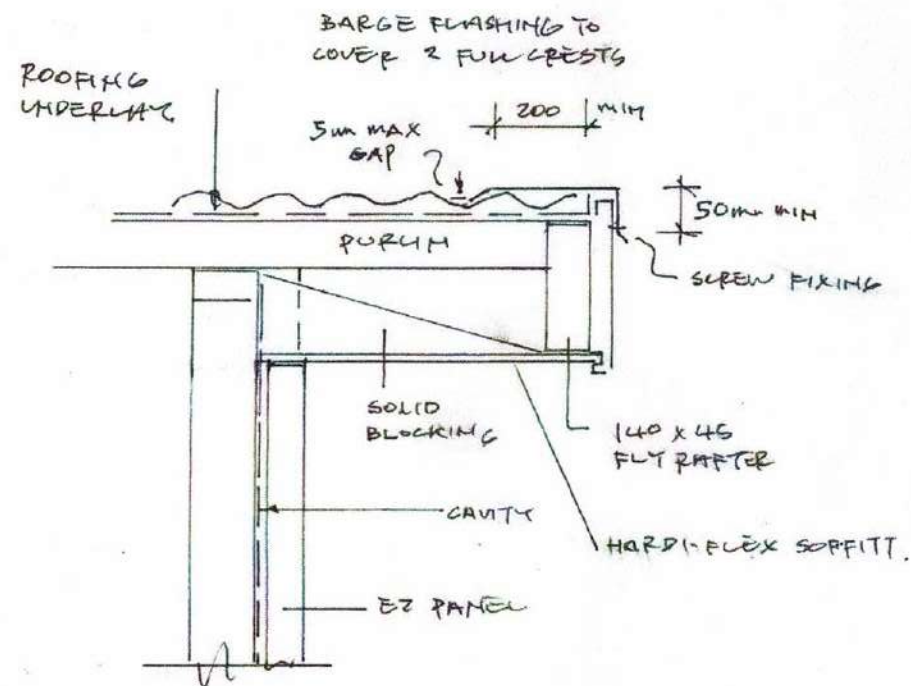
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SCALE 1:25 @ A3

DATE 28.8.2022

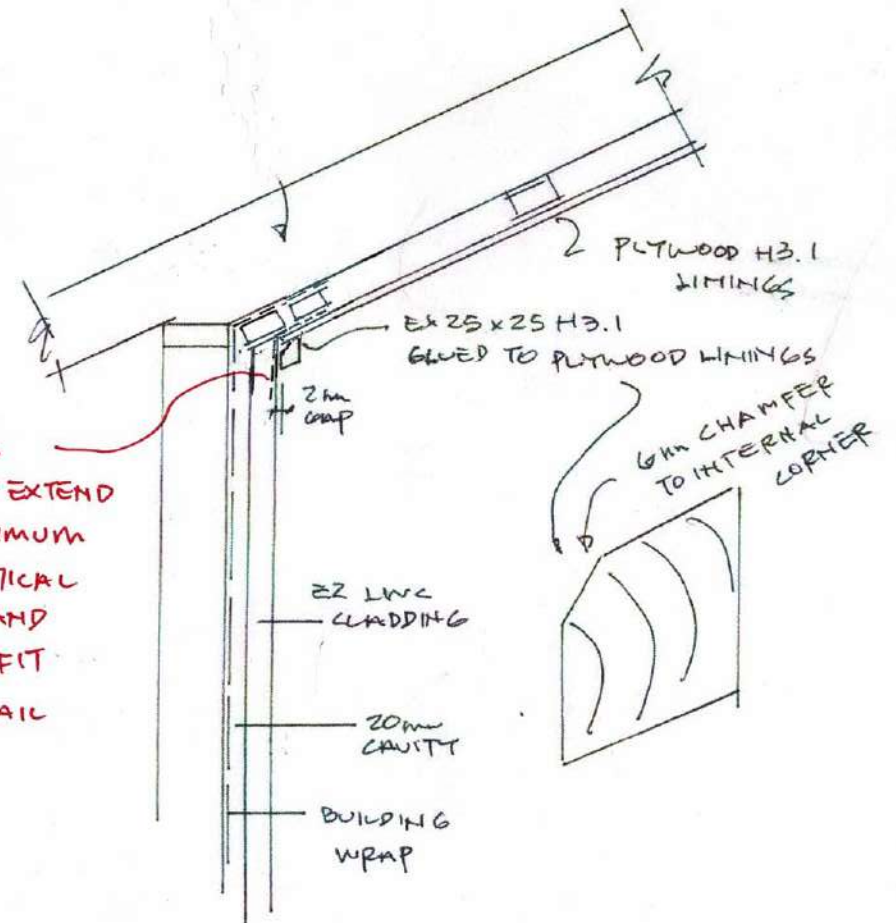
SHEET

14



BARGE FLASHING.

PROTECTEIPS
TAPE MUST EXTEND
75mm MINIMUM
DOWN VERTICAL
SURFACE AND
UNDER SOFFIT.
REFER DETAIL
SHT 14C.



DETAIL RAKING SOFFIT

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PROPOSED RESIDENCE

ROLESTON

BARGE / SLOPING SOFFIT.

DRAWN: B.R. SHARR

DATE

SCALE 1:10 @ A3

SHEET
14B

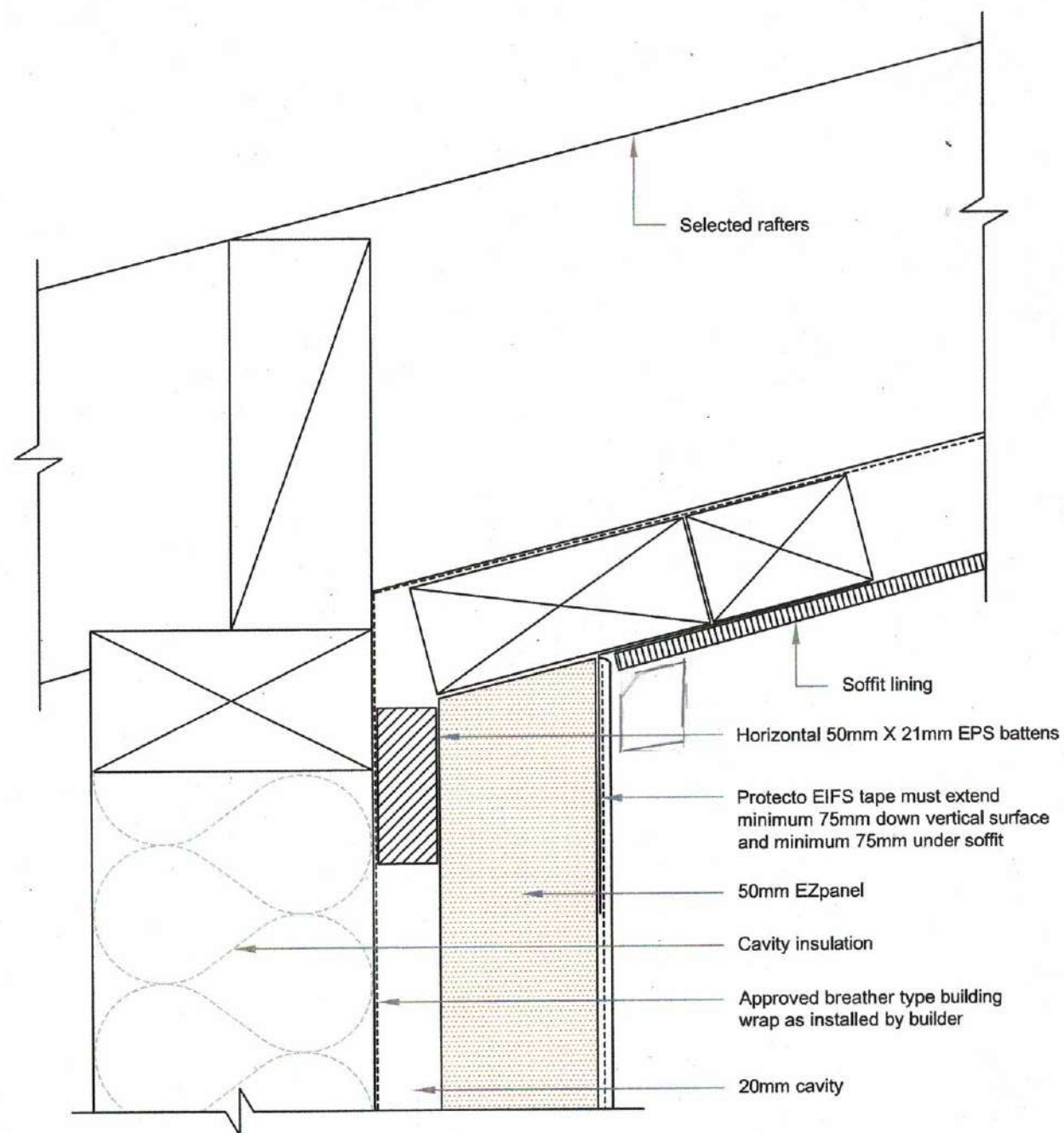


EzPanel

LIGHTWEIGHT CONCRETE CLADDING SYSTEM

Specialized
CONSTRUCTION PRODUCTS LTD

Note: this drawing is outside of the BRANZ Appraisal.



17D

REVERSE RAKING SOFFIT HIDDEN FLASHING DETAIL

SCALE: 1:2

50mm EZpanel - 20mm cavity with EPS Battens

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PROPOSED RESIDENCE 5 COOPWORTH MENS
WEST MELTON.

RAKING SOFFIT DETAILS

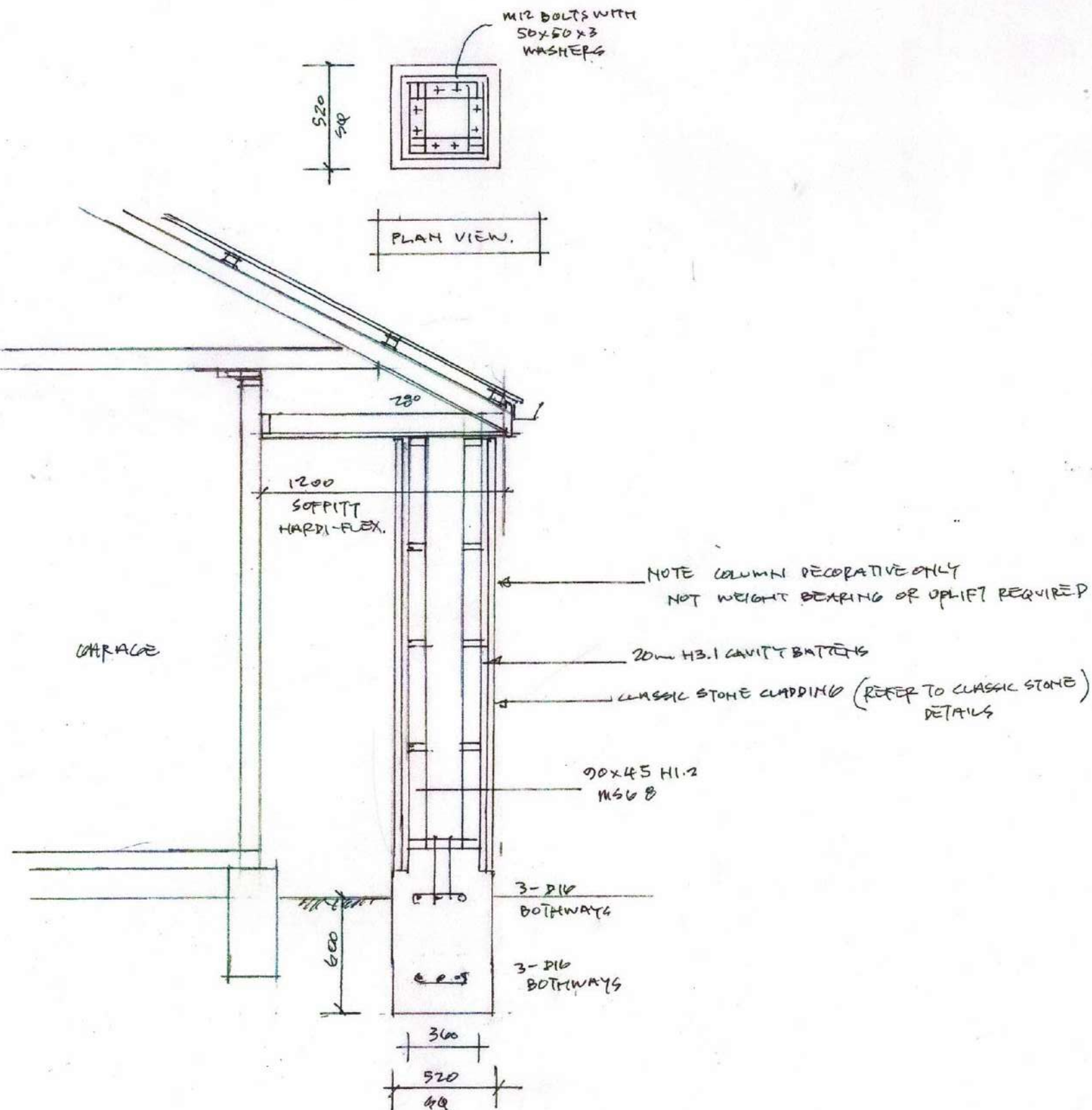
DRAWN: B.R. SHARR

DATE

SCALE 1:2 1:5

SHEET

14 C.



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PROPOSED RESIDENCE 5 COOPWORTH MENS

ENTRY COLUMN DETAILS

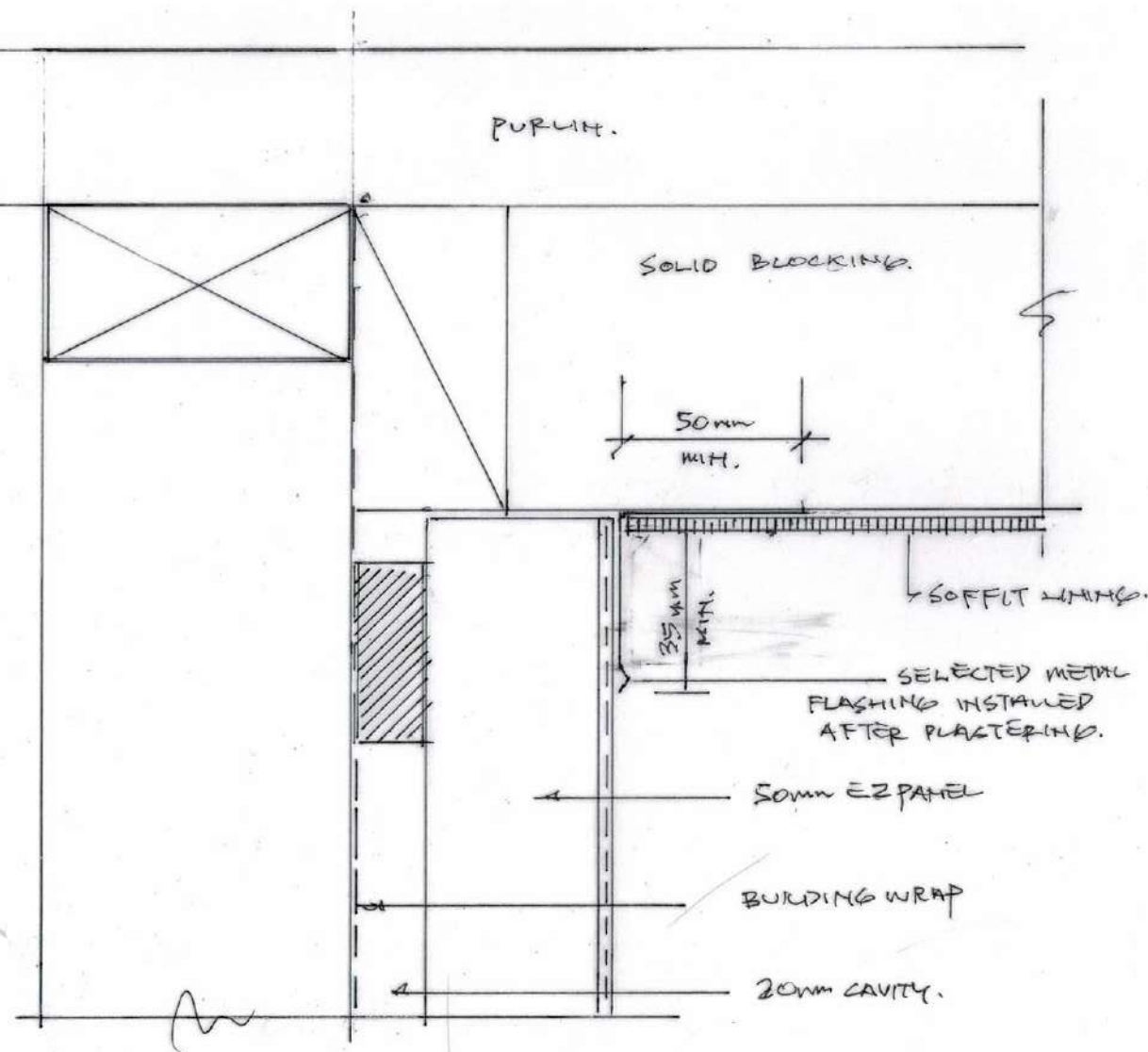
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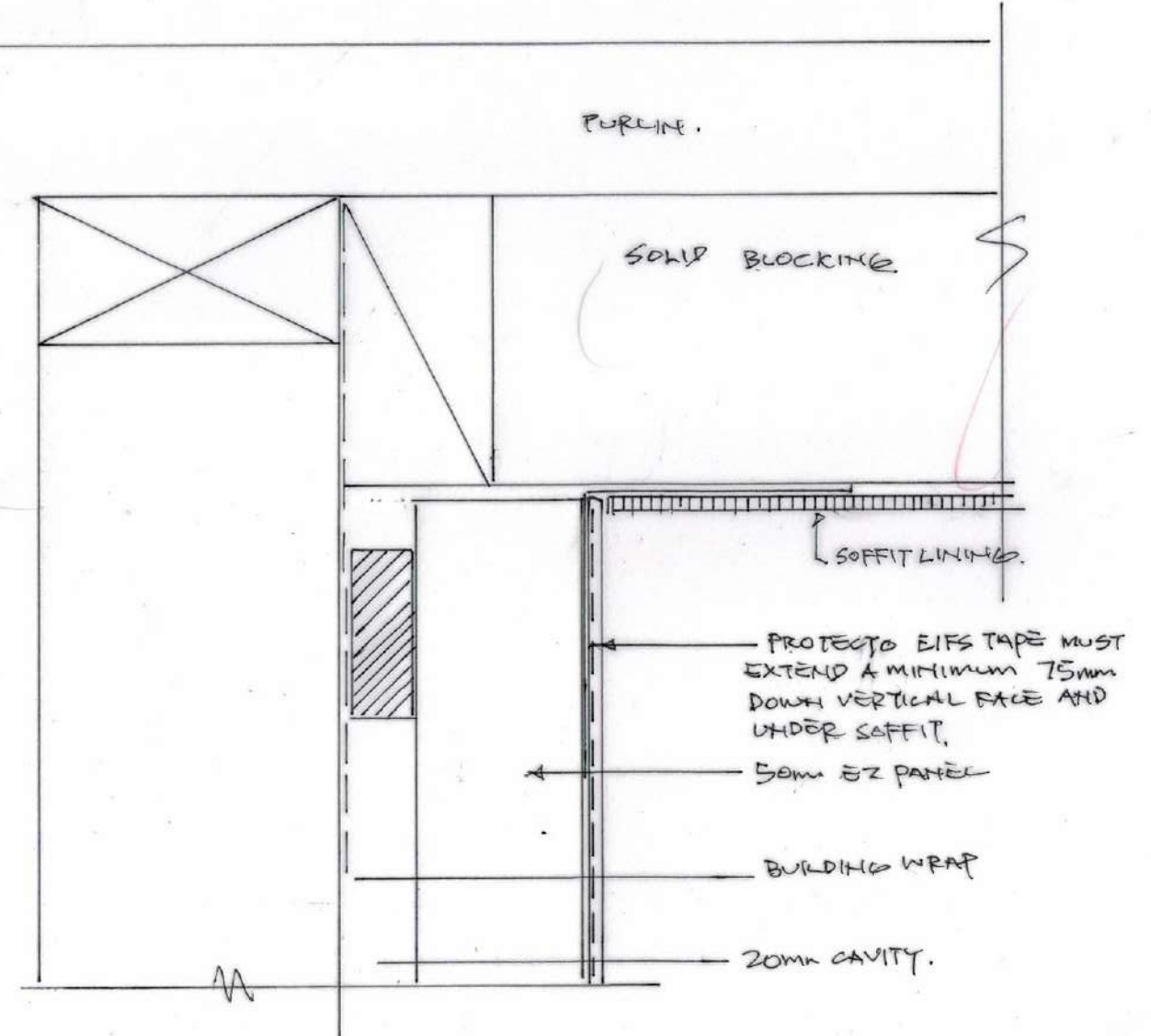
SHEET

14 D



SOFFIT DETAIL AT GABLE VERGE

EXPOSED FLASHING.



SOFFIT DETAIL AT GABLE VERGE

HIDDEN FLASHING

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PROPOSED RESIDENCE 5 COOPWORTH MENS

WEST MELTON.

CABLE AND BARGE DETAILS

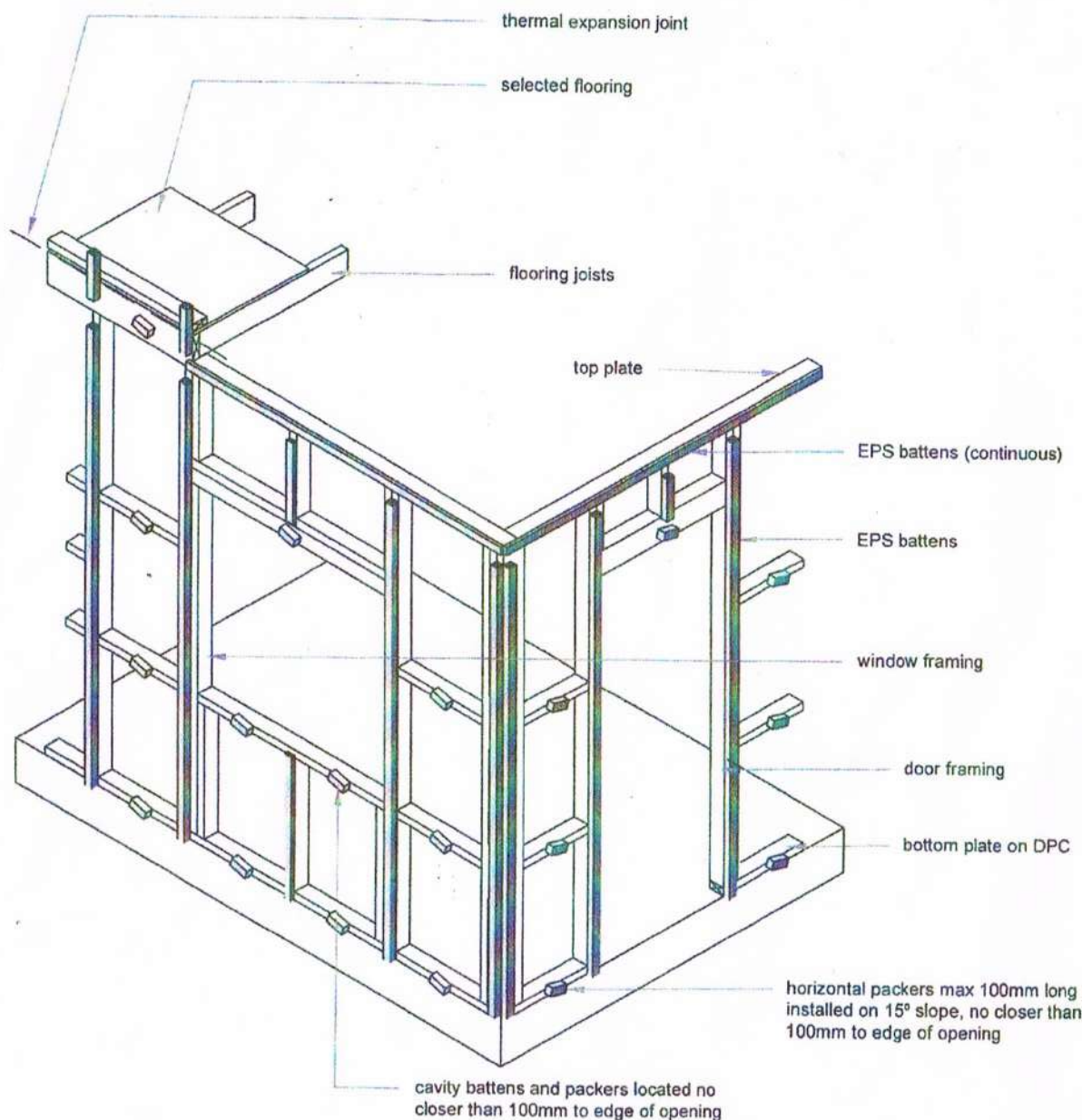
DRAWN B.R. SHARR

DATE

SCALE 1:20

SHEET

14 E



26

BATTEN LAYOUT

N.T.S.

50mm EZpanel - 20mm cavity with EPS Battens

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Note: For all wind zones, EZpanel fixings to be at maximum 300mm centers to perimeter of panel edges and to intermediate studs.

Note: Building wrap omitted for clarity

Cavity insulation
Breather type building wrap installed by builder
Selected plaster finish
Bottom plate anchor
50mm EZpanel
Discontinuous horizontal 50mm x 21mm EPS battens on 15° slope and no longer than 100mm in length where required for fixing

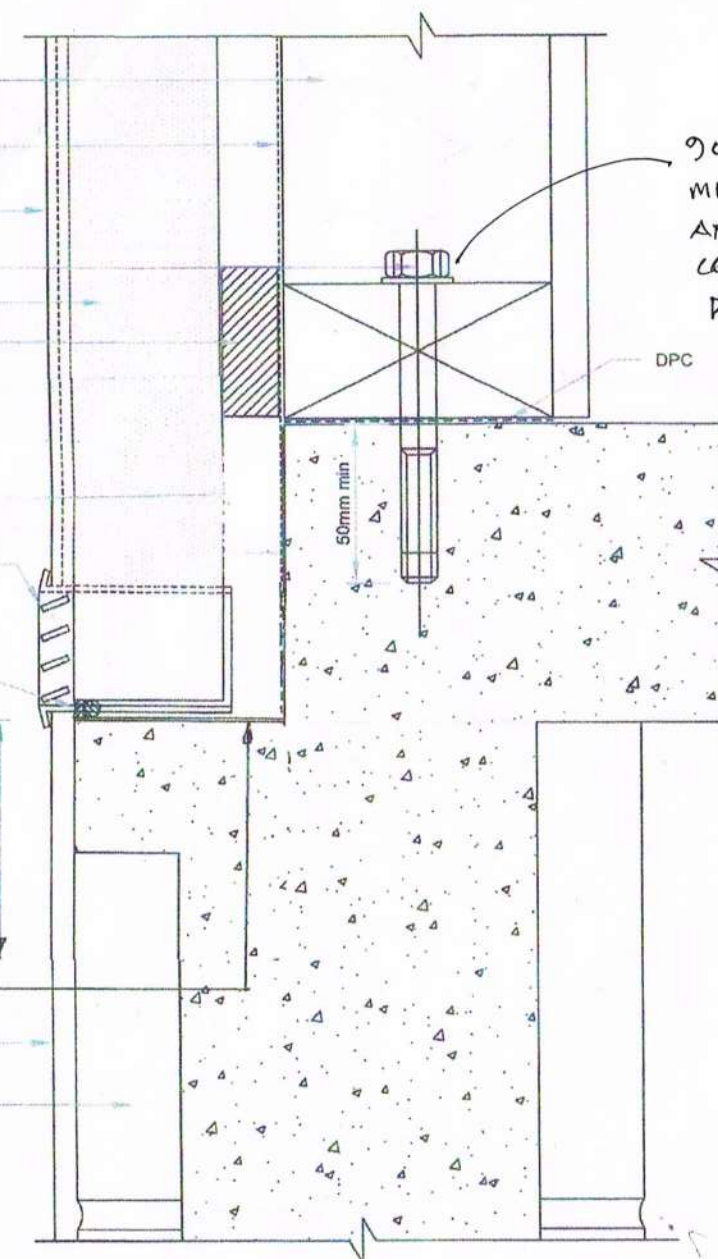
Proprietary subfloor vents to be installed at 1200mm max centers (Vents provide ventilation not drainage)

Proprietary PVC control joint or 6mm bead of MS sealant against PEF backing rod between vents

Rebate in slab must be completely waterproofed with Tankit proprietary waterproofing as supplied by Specialized Construction Products

Specialized Masonry Leveling compound with selected finish

Concrete block wall (NZS 4229:1999)



07D

REBATED CONCRETE SLAB DETAIL

SCALE 1:2

50mm EZpanel - 20mm cavity with EPS Battens

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PROPOSED RESIDENCE

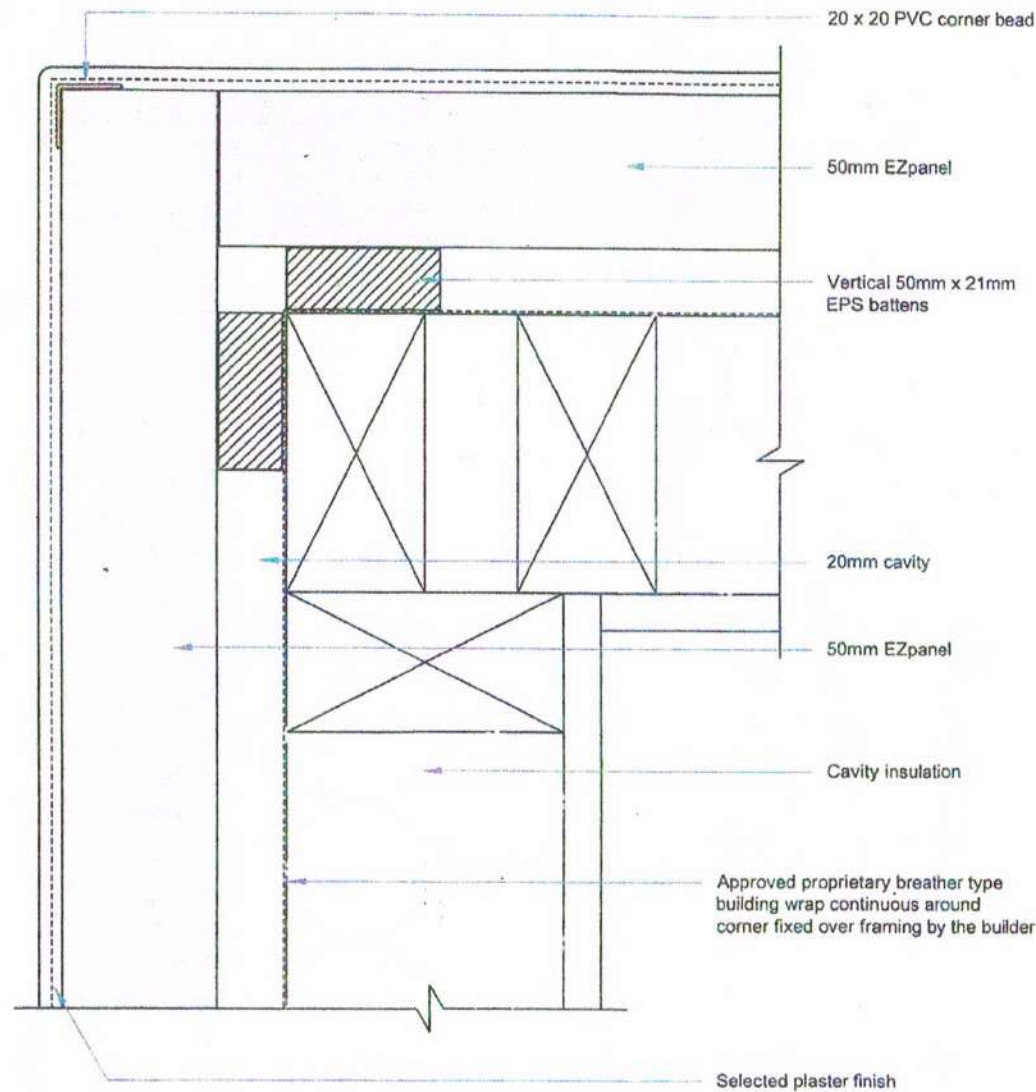
EZ PANEL DETAILS

DRAWN: B.R. SHARR

SCALE

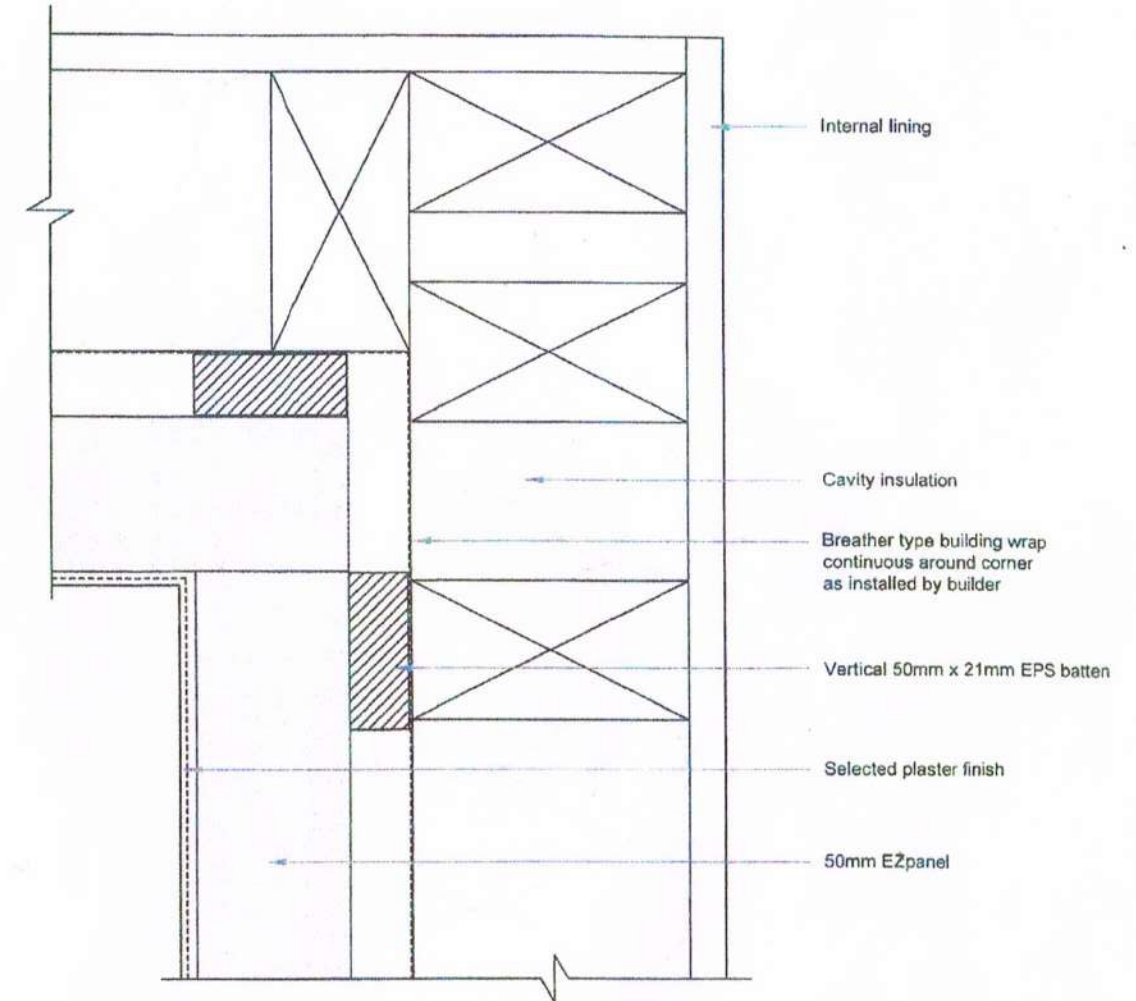
SHEET

16



05A EXTERNAL CORNER DETAIL
SCALE: 1:2 50mm EZpanel - 20mm cavity with EPS Battens

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06A INTERNAL CORNER DETAIL
SCALE: 1:2 50mm EZpanel - 20mm cavity with EPS Battens

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PROPOSED RESIDENCE

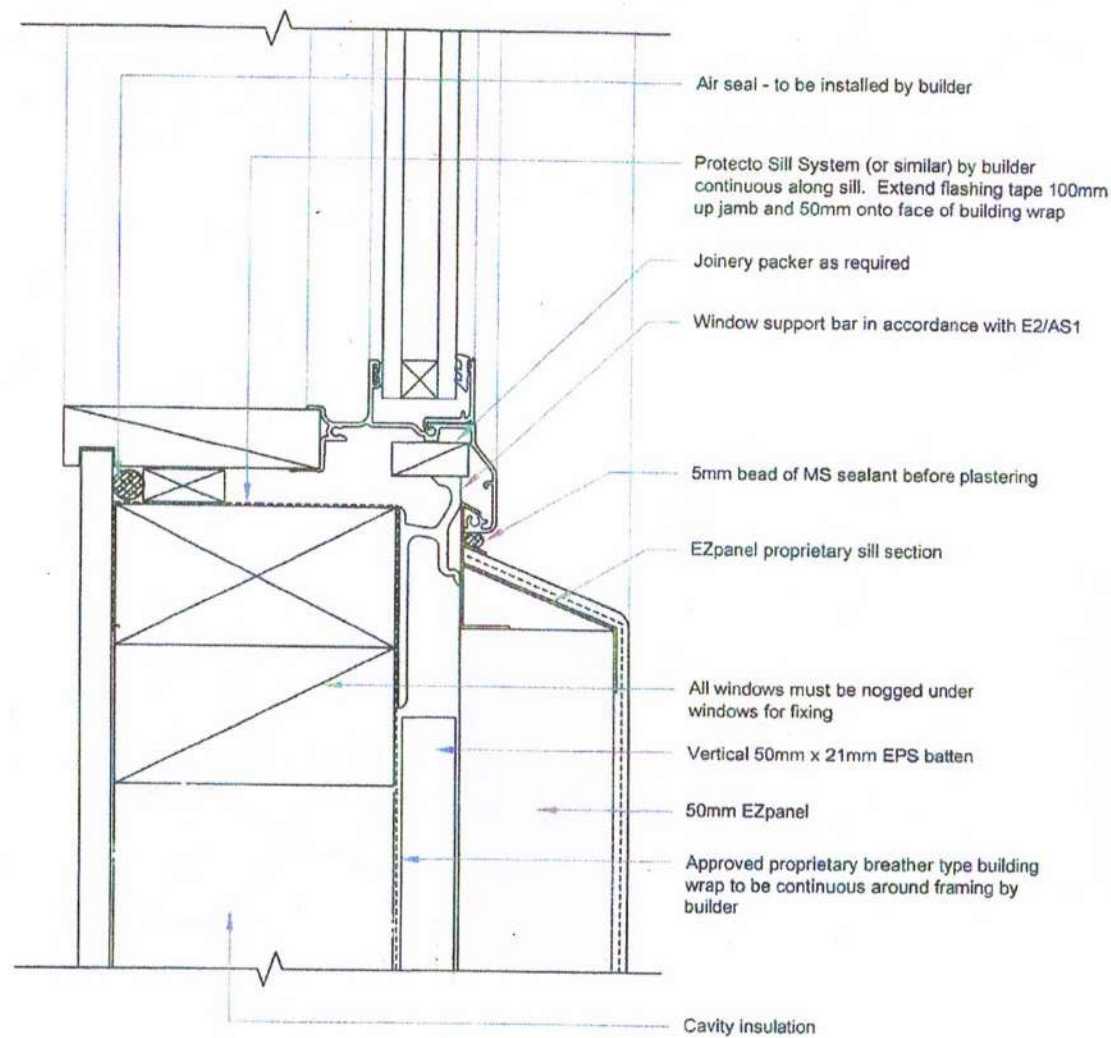
ROLLESTON

EZ PANEL DETAILS

DRAWN: B.R. SHARR

SCALE

SHEET -
17



Note:
A 3" angled sill terminal must be used. If the back of the glazing packer is positioned back over the line of wall frame.

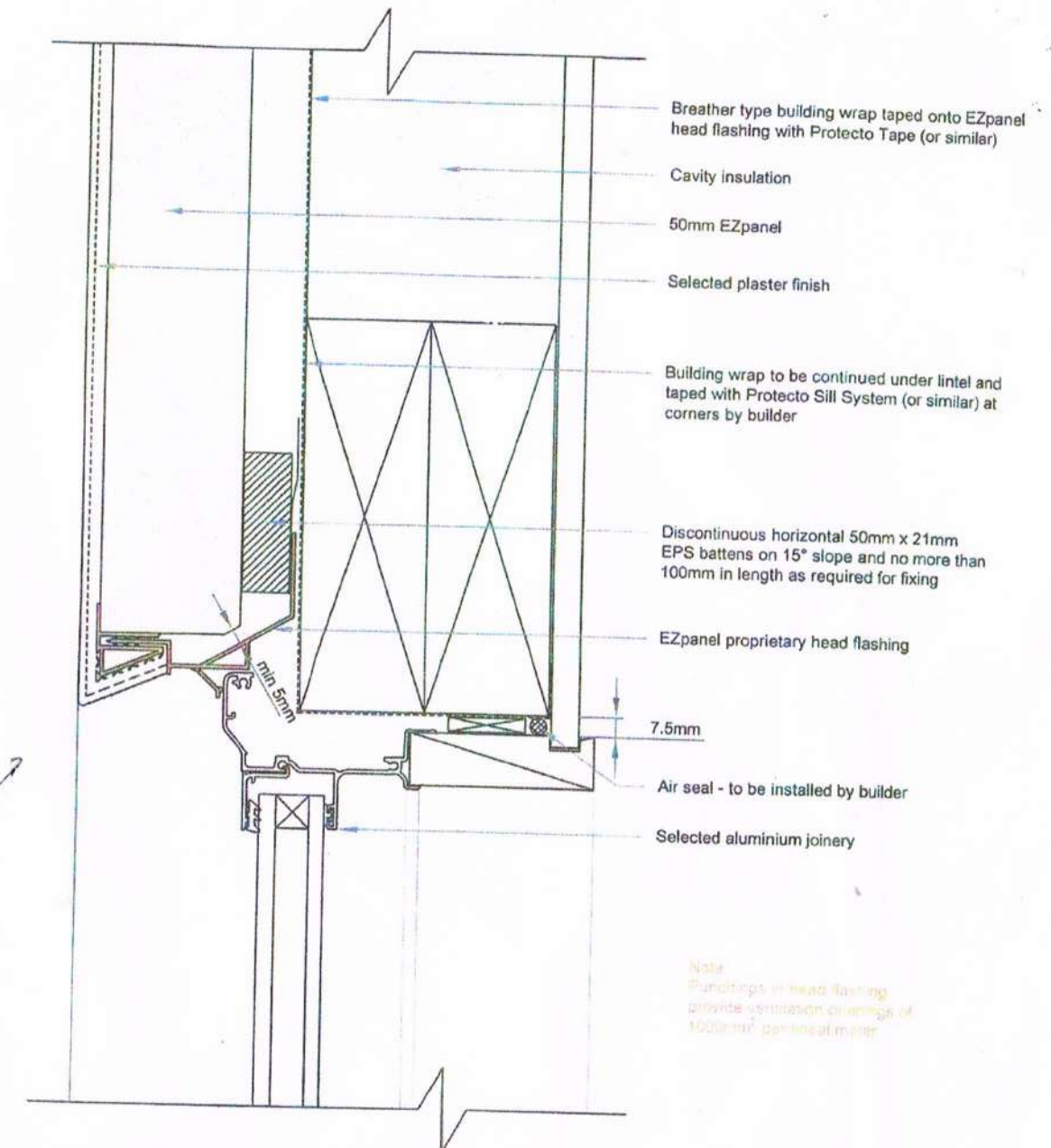
Caution:
To ensure the proprietary flashing for this system can be installed correctly, please allow a gap of 24mm from the surface of the building paper to the backside of the aluminium joinery.

03A WINDOW SILL DETAIL

SCALE: 1/2 50mm EZpanel - 20mm cavity with EPS Battens

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Note:
Punchings of head flashing provide ventilation openings of 1000mm² per unit meter.

01A WINDOW HEAD DETAIL

SCALE: 1/2 50mm EZpanel - 20mm cavity with EPS Battens

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PROPOSED RESIDENCE

ROUESTON

EZ PANEL DETAILS

DRAWN: B.R. SHARR

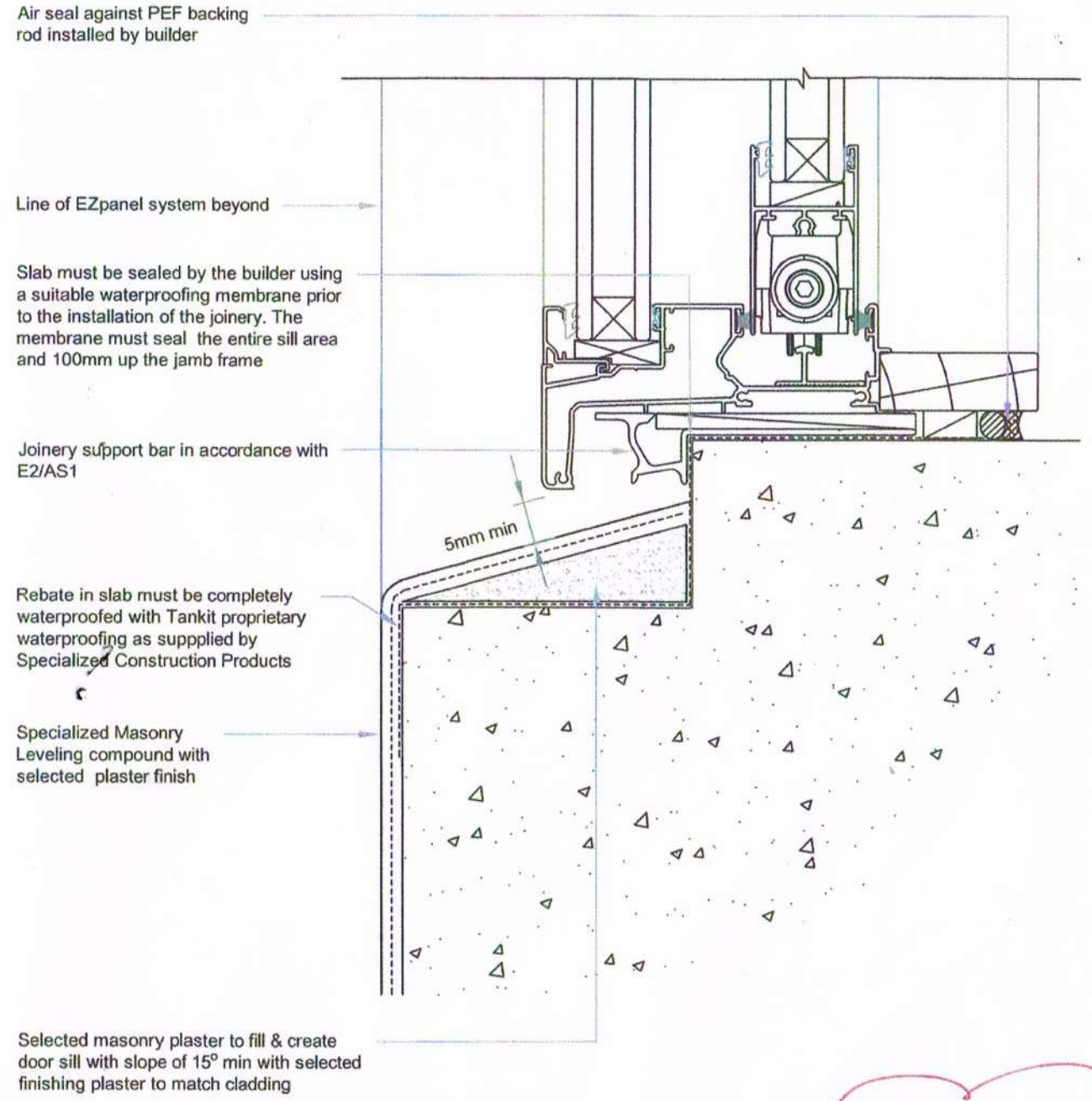
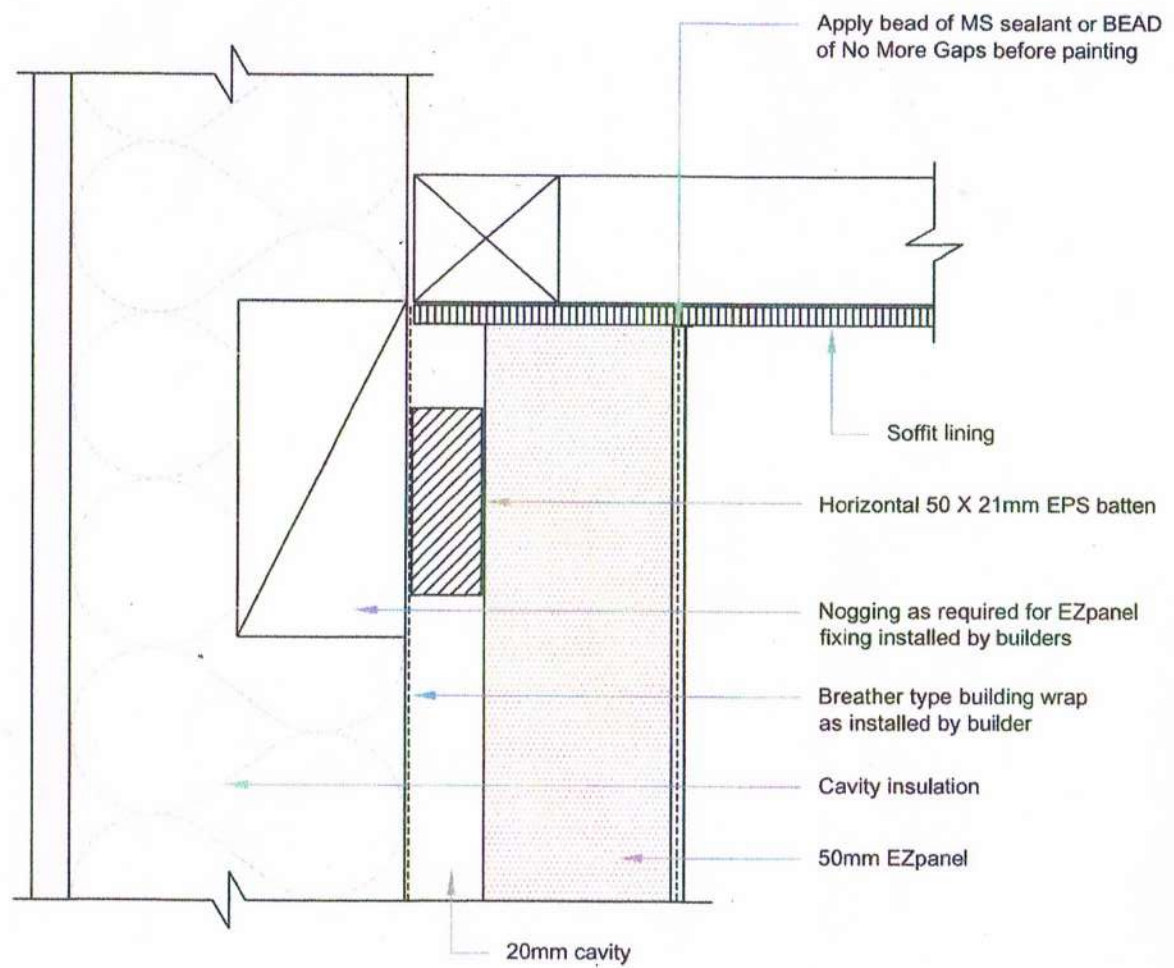
SCALE

SHEET

18

3

SDC - Approved Building Consent Document - BC222511 - Pg 30 of 47 - 9/03/2023 - abelaa



17A
SCALE: 1:2

SOFFIT DETAIL
50mm EZpanel - 20mm cavity with EPS Battens

09C
SCALE: 1:2

DOOR SILL DETAIL - REBATED SLAB
50mm EZpanel - 20mm cavity with EPS Battens

NOTE FULL LENGTH WINDOW SIMILAR DETAIL.

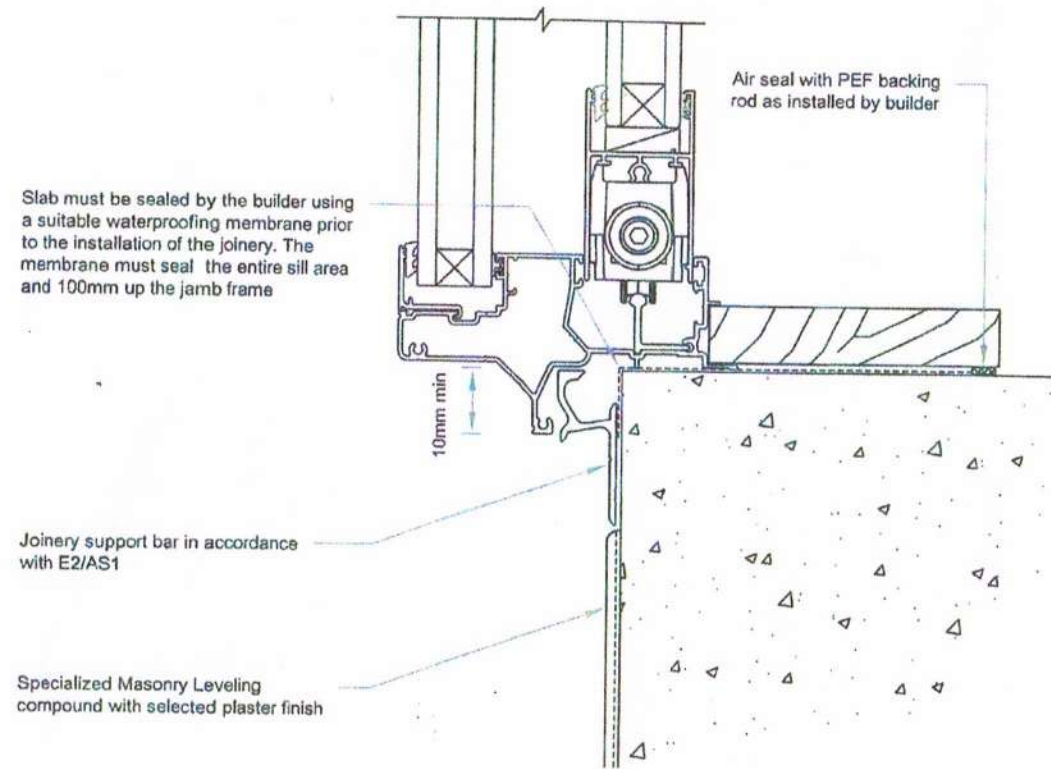
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PROPOSED RESIDENCE

ROLESTON

E2 PANEL DETAILS			SHEET 19
DRAWN: B.R. SHARR	SCALE		
	DATE		



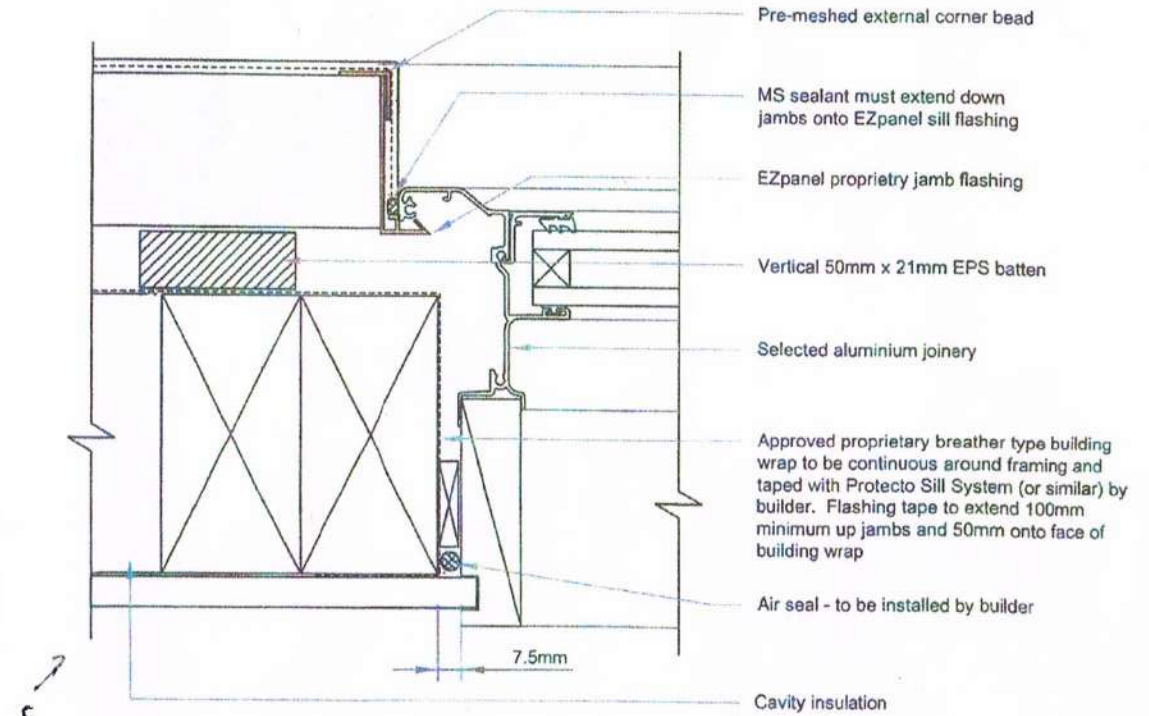
09B DOOR SILL DETAIL - SLAB

SCALE: 1:2 50mm EZpanel - 20mm cavity with EPS Batters

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02A WINDOW JAMB DETAIL

SCALE: 1:2 50mm EZpanel - 20mm cavity with EPS Batters

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PROPOSED RESIDENCE

ROUDESTON

E Z PANEL DETAILS

DRAWN: B.R. SHARR

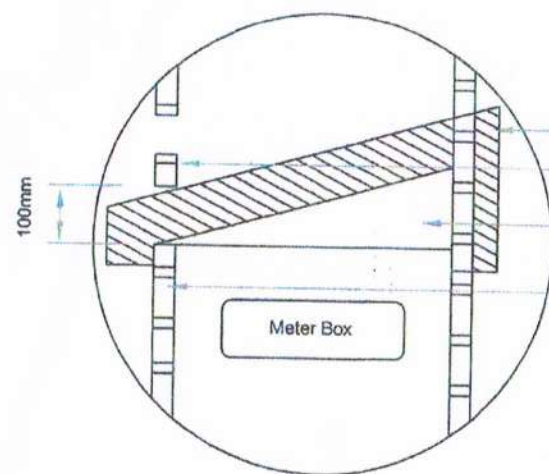
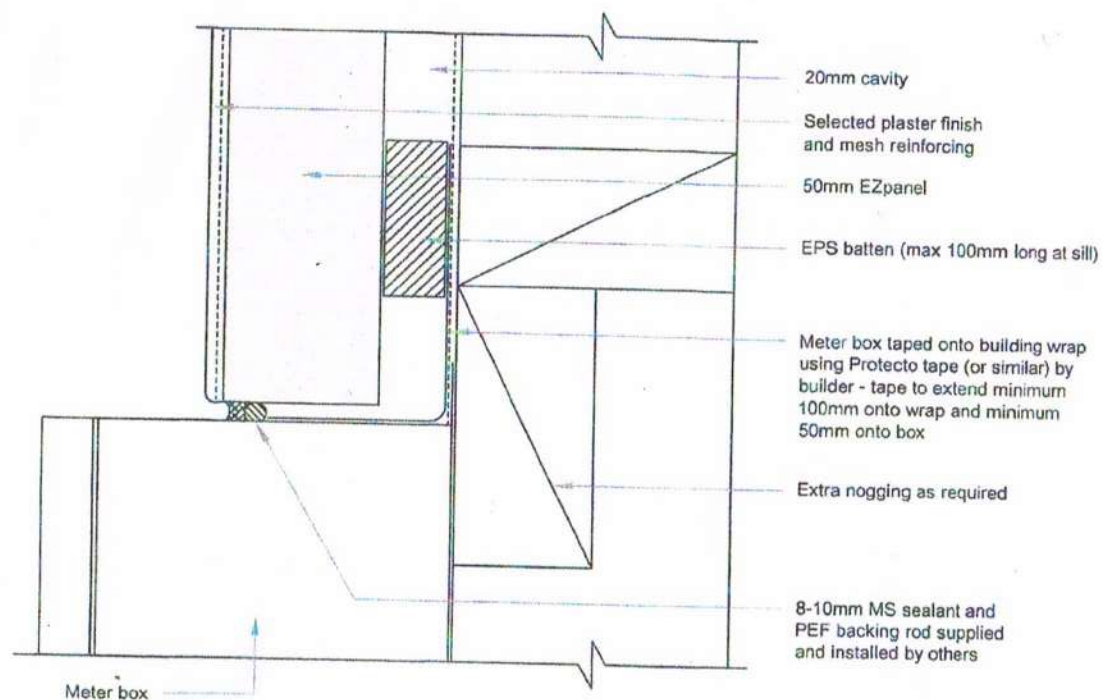
SCALE

SHEET

20

4

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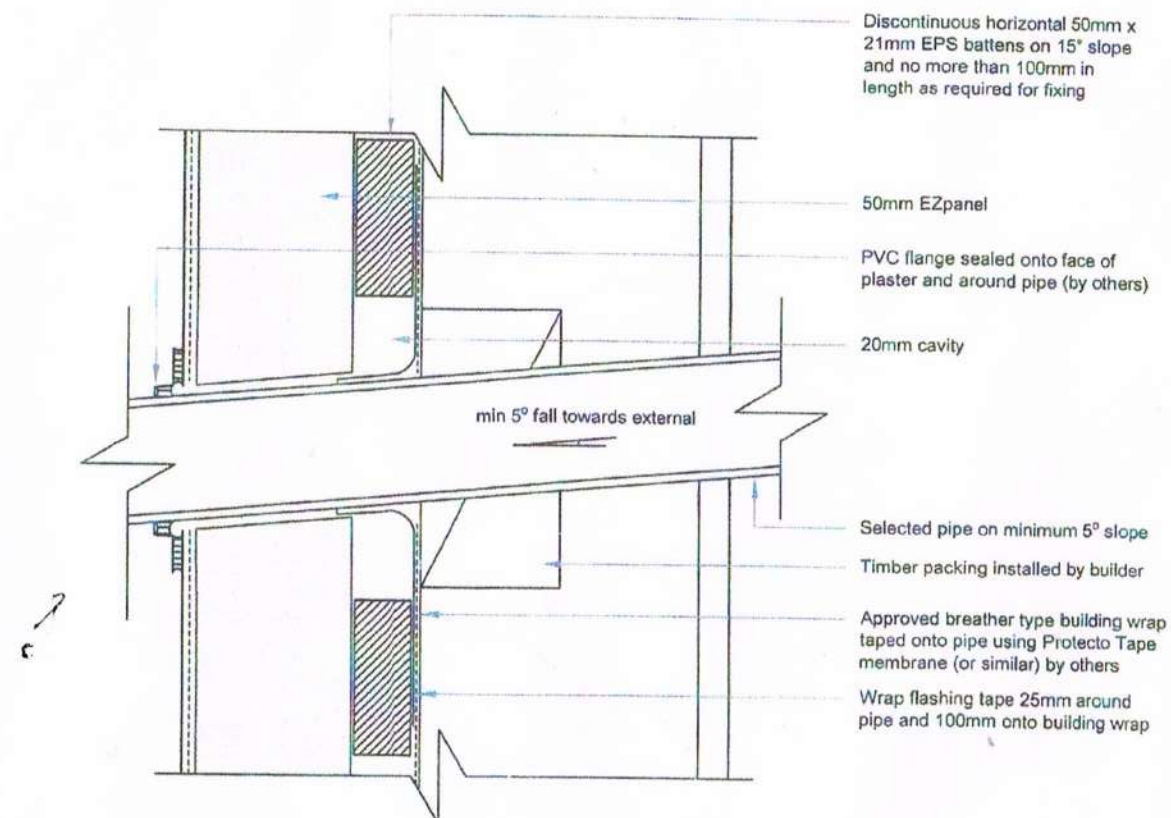
Note: a wedge of EPS with a 15° slope must be placed on top of the meter box and be taped to the building wrap using protecto tape (or similar) to shed water to the outside edge. Square tip of the wedge is not blocked by a vertical batten.

25A METER BOX DETAIL
SCALE: 1:2
50mm EZpanel - 20mm cavity with EPS Battens

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16A PIPE PENETRATION DETAIL
SCALE: 1:2
50mm EZpanel - 20mm cavity with EPS Battens

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web www.specialized.co.nz

B R SHARR DESIGN

136 Halswell Junction Road
Halswell
Christchurch 8025

ALL CONSTRUCTION TO COMPLY WITH NZBC AND RELEVANT DOCUMENTS AND NZS 3604

PROPOSED RESIDENCE

ROWESTON

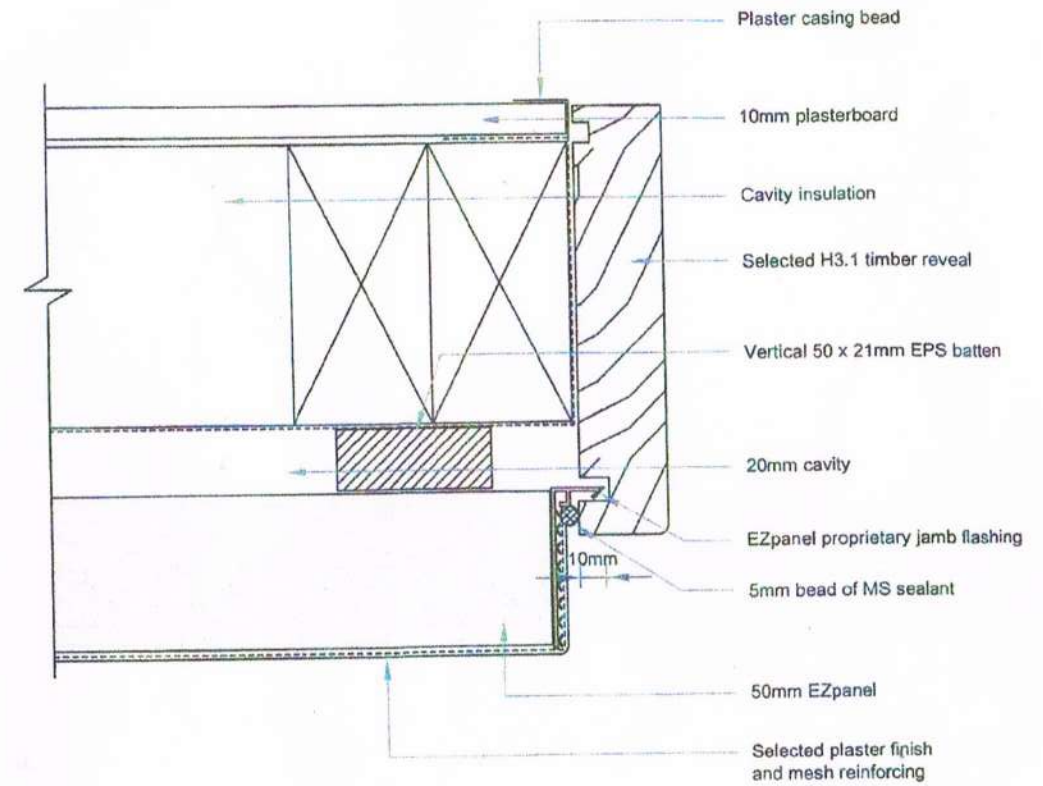
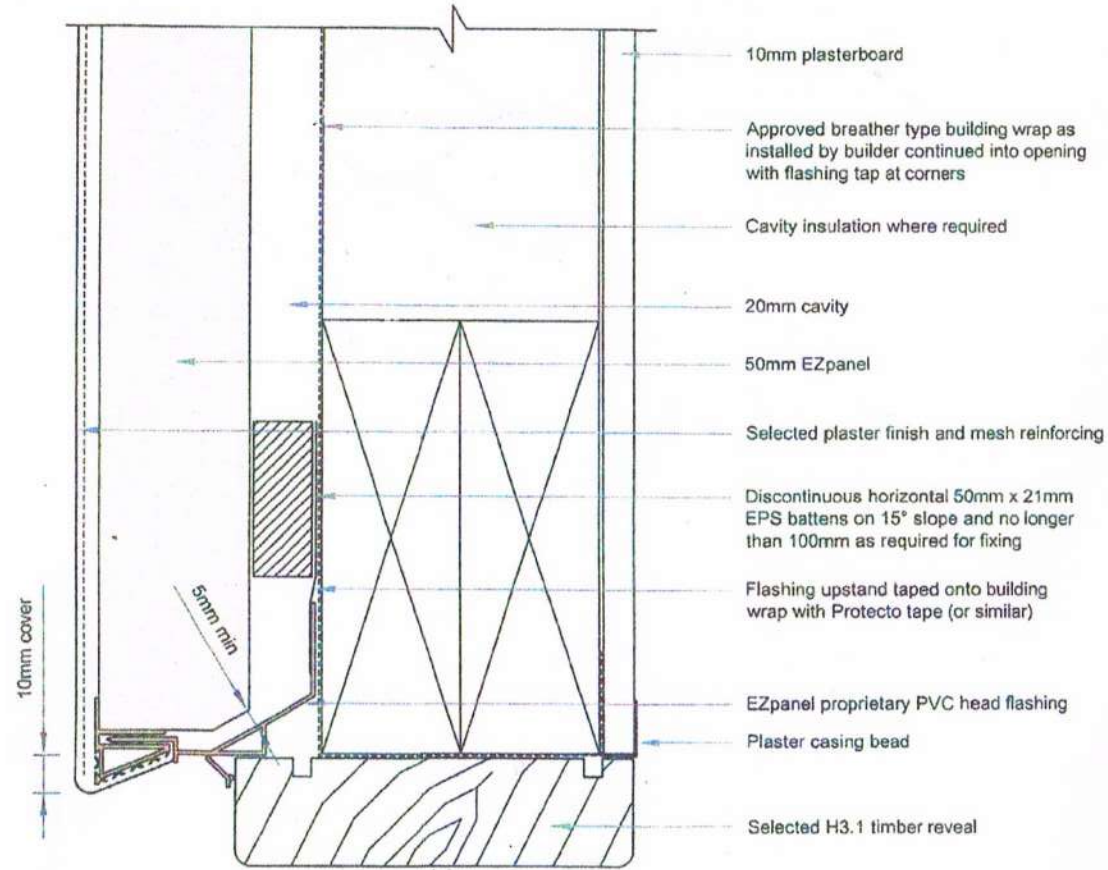
EZ PANEL DETAILS

SHEET -

21

DRAWN: B.R. SHARR

SCALE



21B GARAGE DOOR HEAD DETAIL - TIMBER HEAD

SCALE 1:2 50mm EZpanel - 20mm cavity with EPS Battens

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21A GARAGE DOOR JAMB DETAIL - TIMBER JAMB

SCALE 1:2 50mm EZpanel - 20mm cavity with EPS Battens

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PROPOSED RESIDENCE

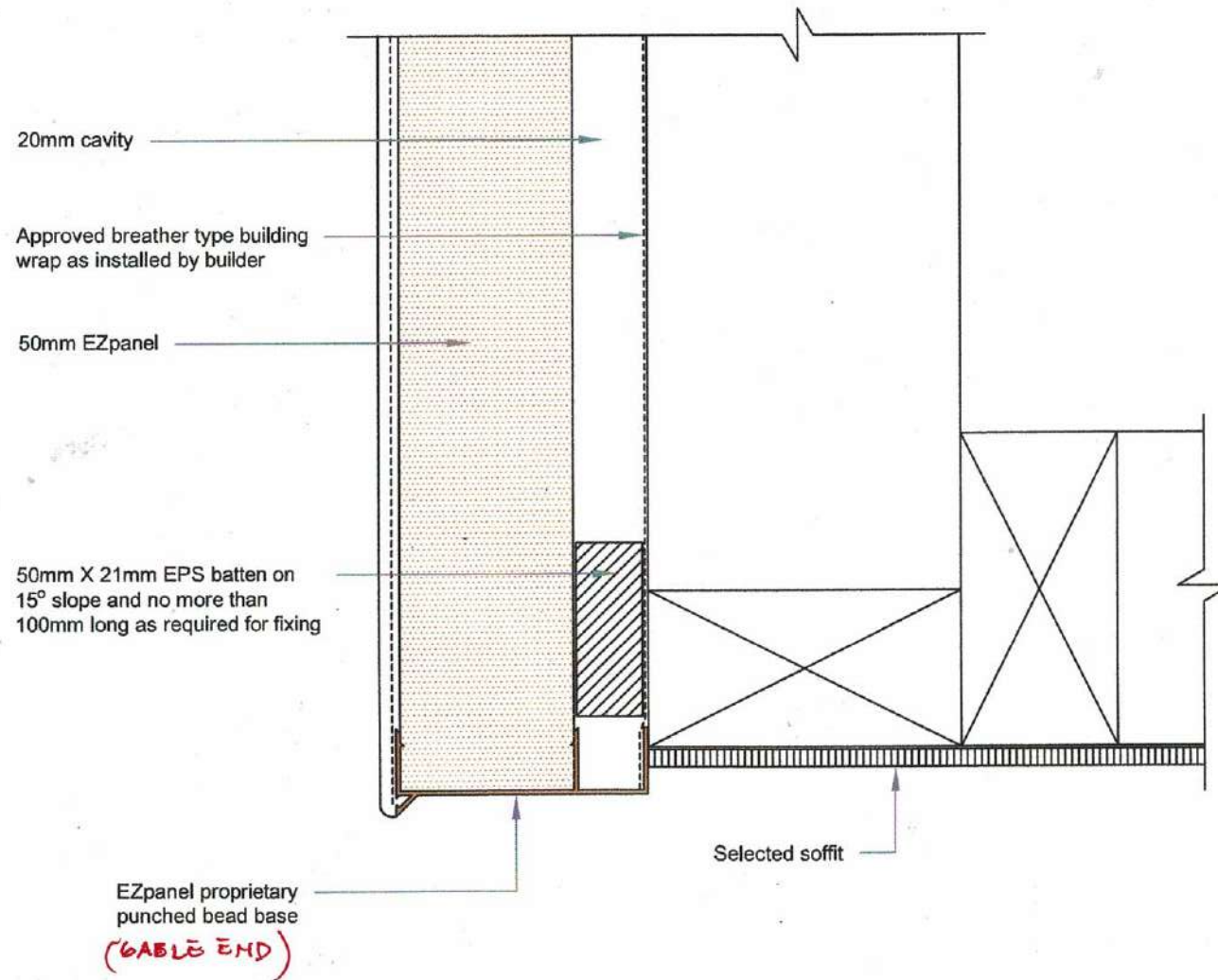
ROUËSTON.

EZ PANEL DETAILS

DRAWN: B.R. SHARR

SCALE

SHEET:
22



17B

SOFFIT EDGE DETAIL

SCALE: 1:2

50mm EZpanel - 20mm cavity with EPS Battens

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PROPOSED RESIDENCE 5 COOPWORTH MENS

WEST MELTON

SOFFITT EDGE DETAIL (GABLE)

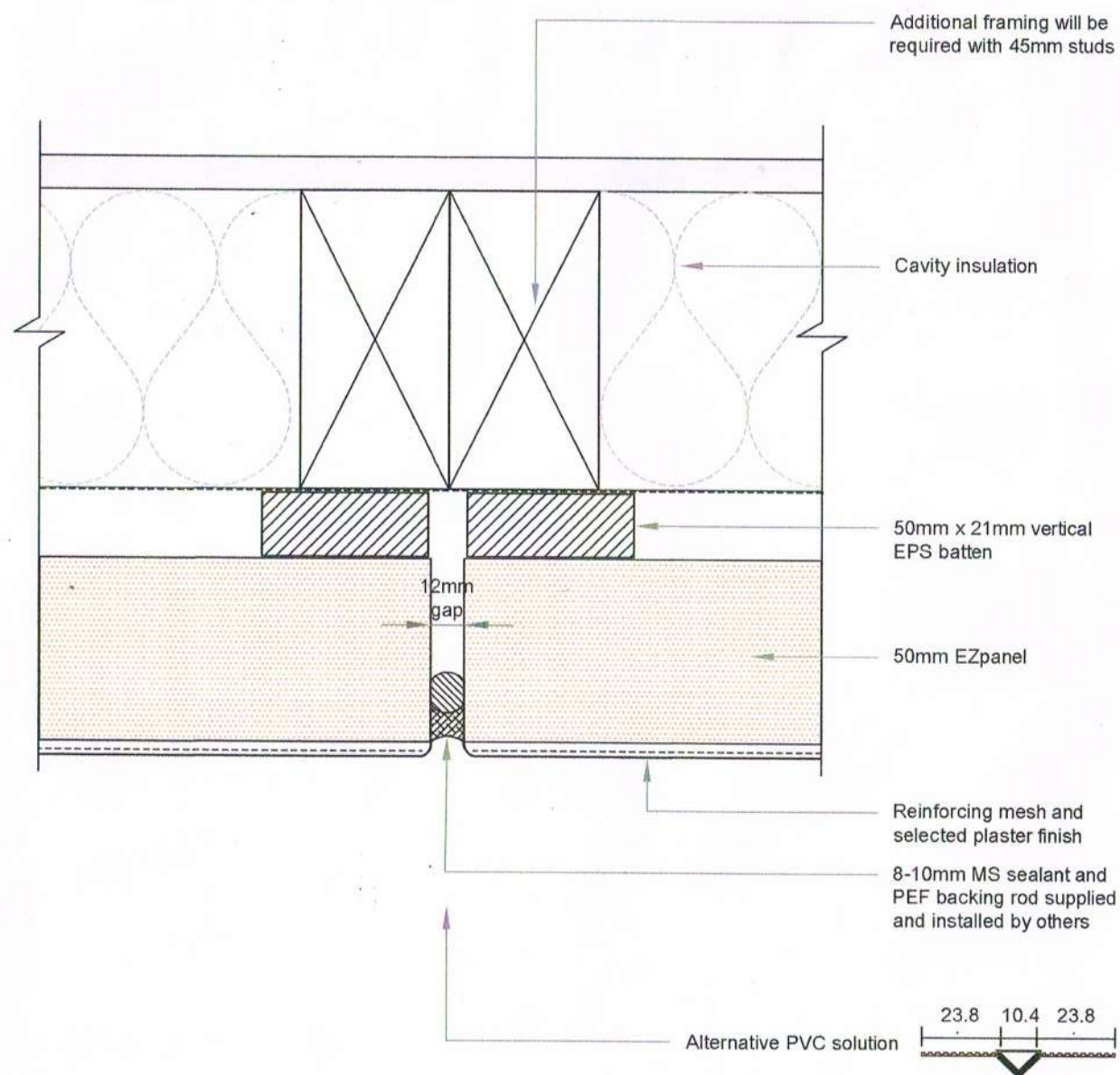
DRAWN B R SHARR

SCALE 1:2

DATE 16.02.2023

SHEET.

22A



18B

VERTICAL CONTROL JOINT DETAIL

SCALE: 1:2

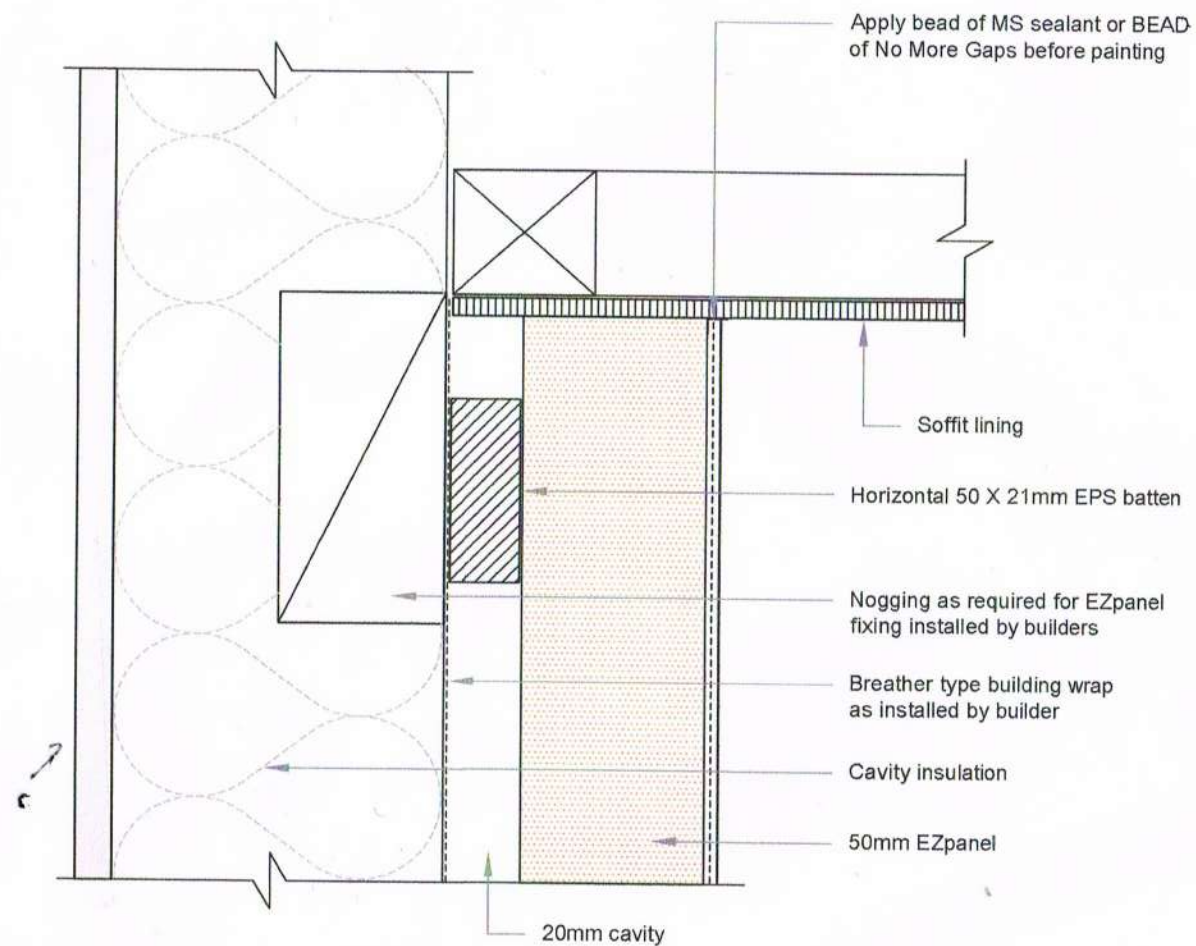
50mm EZpanel - 20mm cavity with EPS Battens

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17A

SOFFIT DETAIL

SCALE: 1:2

50mm EZpanel - 20mm cavity with EPS Battens

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PROPOSED RESIDENCE

ROUESTON.

EZ PANEL CONTROL JOINT / SOFFIT

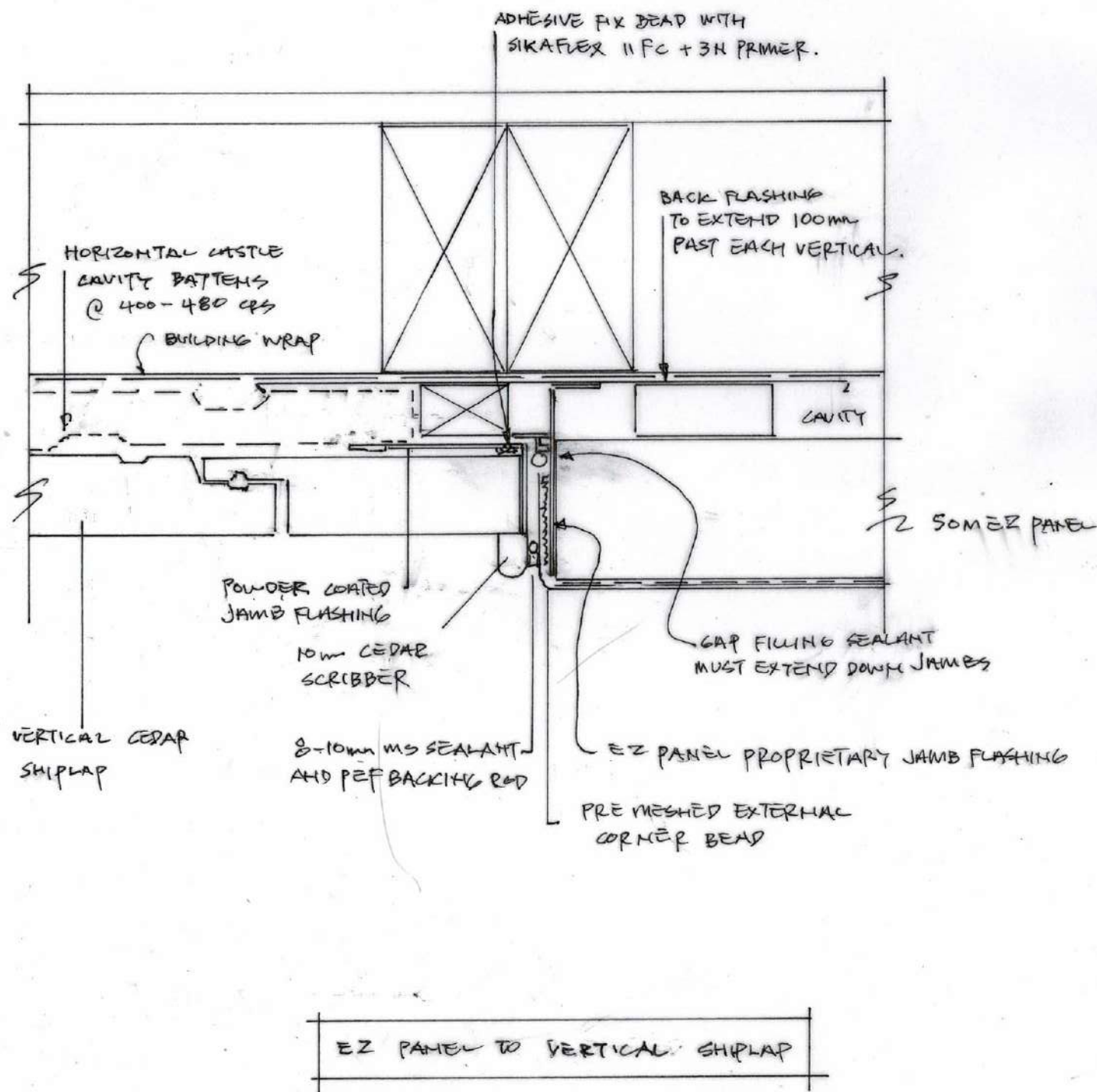
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SCALE

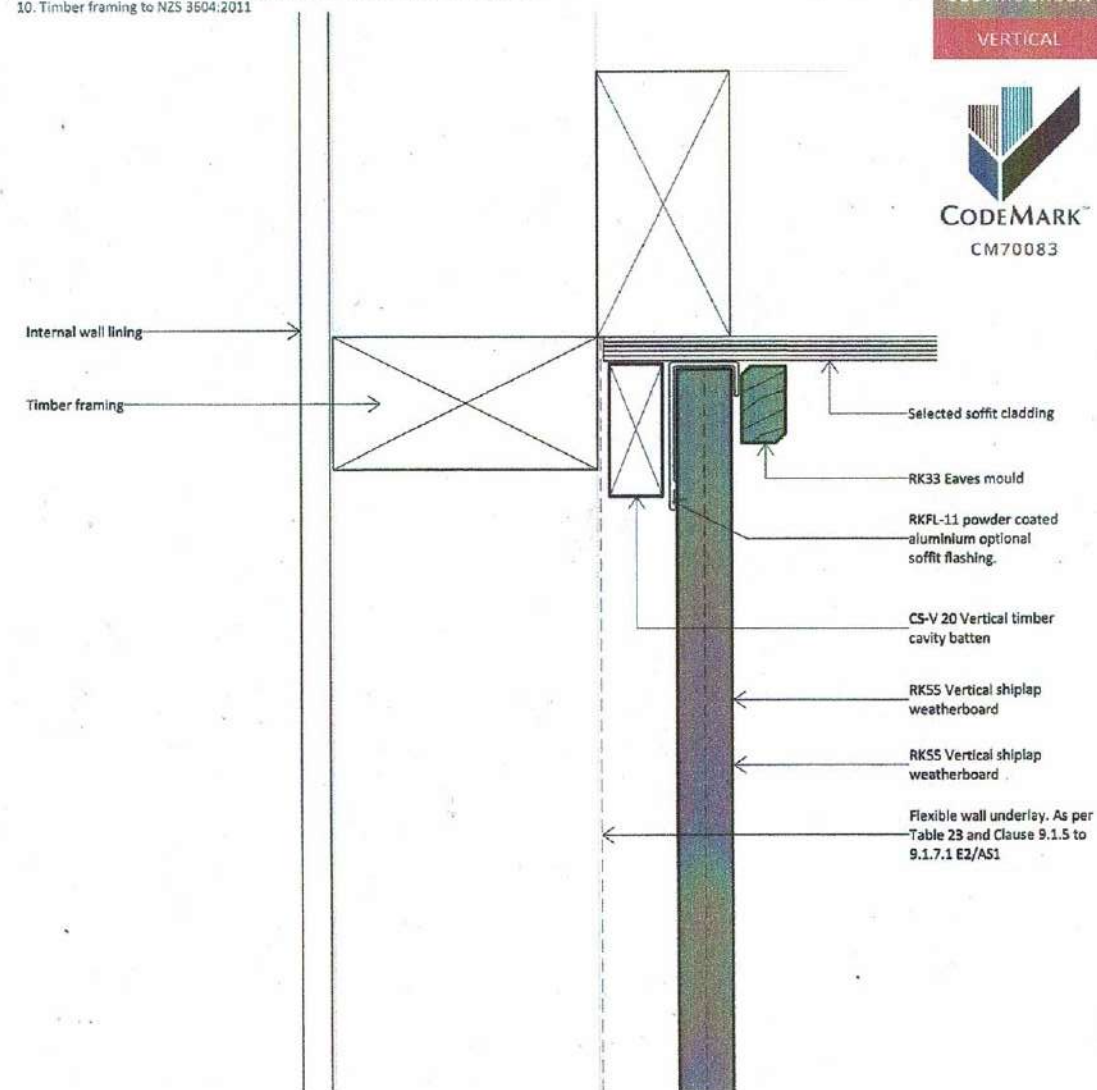
DATE

SHEET

23



1. Scope as per Clauses 1.0 and 9.4 E2/AS1
2. Profiles as per NZS 3617, Branz Bulletin 411 and/or compliance achieved through in-service history, length of service not less than 15 years in all NZ environments B2/VM1 1.1.1 (a)
3. Fixings as per Table 24 E2/AS1
4. Compatibility of materials as per Tables 20-22 E2/AS1
5. Flashing as per Clause 4.0 E2/AS1
6. Rigid and flexible underlay as per Table 23 and Clauses 9.1.5 to 9.1.7 E2/AS1 or proprietary approved alternative
7. All weatherboards to be factory cilled to all faces and weathergrooves prior to installation, ensure maintenance is to manufacturers recommendations
8. The weatherboard system relies on the joinery meeting the requirements of NZS 4211 for the relevant building windzone or wind pressure
9. Timber to NZBC B2 Durability B2.3.1(b), Western Red Cedar, Larch and Truwood®
10. Timber framing to NZS 3604:2011



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Auckland Branch:

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+64 9 573 0504
513 Mt Wellington Highway
Mt Wellington, Auckland 1060

Christchurch Branch:

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+64 3 349 3317
15 Edmonton Road
Hornby, Christchurch 8042

Title
Top Plate to Soffit Detail

Drawing
RKV20-FU-42

Scale 1:2 @ A4 Date 12.10.2020

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ALL CONSTRUCTION TO COMPLY WITH NZBC AND RELEVANT DOCUMENTS AND NZS 3604

PROPOSED RESIDENCE COOPWORTH MENS
WEST MELTON,

EZ PANEL CEDAR SHIPLAP

DRAWN: B.R. SHARR

DATE

SCALE

SHEET

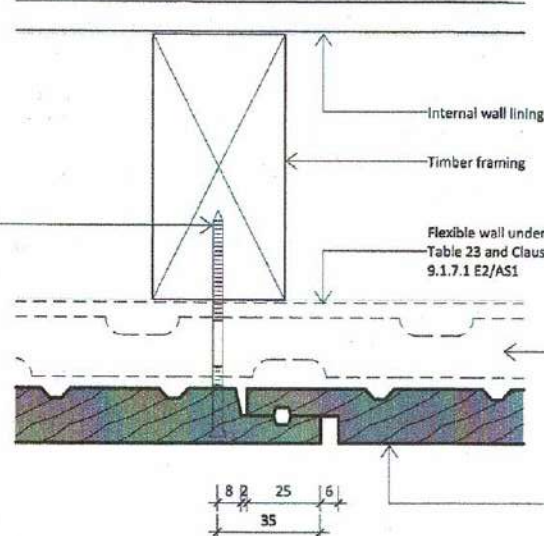
23A

1. Scope as per Clauses 1.0 and 9.4 E2/AS1
2. Profiles as per NZS 3617, Branz Bulletin 411 and/or compliance achieved through in-service history, length of service not less than 15 years in all NZ environments B2/VM1 1.1.1 (a)
3. Fixings as per Table 24 E2/AS1
4. Compatibility of materials as per Tables 20-22 E2/AS1
5. Flashing as per Clause 4.0 E2/AS1
6. Rigid and flexible underlay as per Table 23 and Clauses 9.1.5 to 9.1.7 E2/AS1 or proprietary approved alternative
7. All weatherboards to be factory oiled to all faces and weathergrooves prior to installation, ensure maintenance is to manufacturers recommendations
8. The weatherboard system relies on the joinery meeting the requirements of NZS 4211 for the relevant building windzone or wind pressure
9. Timber to NZBC B2 Durability B2.3.1(b), Western Red Cedar, Larch and Truwood®
10. Timber framing to NZS 3604:2011



75 x 3.15 Annular grooved nail, Stainless steel 316. To be countersunk 2mm. Fill countersunk nail head with approved filler. Sand and pre-prime prior to finishing coats.

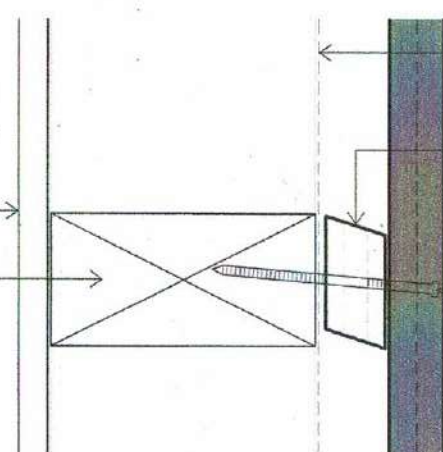
Horizontal fixing



CS-H 20 Horizontal timber cavity batten. Fixed horizontal to dwangs @ 400 - 480mm c/s max

Internal wall lining
Timber framing

Vertical fixing



Flexible wall underlay. As per Table 23 and Clause 9.1.5 to 9.1.7.1 E2/AS1

CS-H 20 Horizontal timber cavity batten. Fixed horizontal to dwangs @ 400 - 480mm c/s max

75 x 3.15 Annular grooved nail, Stainless steel 316. To be countersunk 2mm. Fill countersunk nail head with approved filler. Sand and pre-prime prior to finishing coats.

RKSS Vertical shiplap weatherboard

1. Scope as per Clauses 1.0 and 9.4 E2/AS1
2. Profiles as per NZS 3617, Branz Bulletin 411 and/or compliance achieved through in-service history, length of service not less than 15 years in all NZ environments B2/VM1 1.1.1 (a)
3. Fixings as per Table 24 E2/AS1
4. Compatibility of materials as per Tables 20-22 E2/AS1
5. Flashing as per Clause 4.0 E2/AS1
6. Rigid and flexible underlay as per Table 23 and Clauses 9.1.5 to 9.1.7 E2/AS1 or proprietary approved alternative
7. All weatherboards to be factory oiled to all faces and weathergrooves prior to installation, ensure maintenance is to manufacturers recommendations
8. The weatherboard system relies on the joinery meeting the requirements of NZS 4211 for the relevant building windzone or wind pressure
9. Timber to NZBC B2 Durability B2.3.1(b), Western Red Cedar, Larch and Truwood®
10. Timber framing to NZS 3604:2011



Flexible wall underlay. As per Table 23 and Clause 9.1.5 to 9.1.7.1 E2/AS1

RKSS Vertical shiplap weatherboard

Timber framing

Internal wall lining

RKFL-12 42x14mm Cavity closer. Tack cavity closer @ 600mm c/s

Proprietary prefolded head flashing with 15° fall

Head flashing turned up to form stop end

Continuous air seal

Temporary packer

Flashing tape over head flashing
CS-H 20 Horizontal timber cavity batten. Fixed horizontal to dwangs @ 400 - 480mm c/s max

75mm Cover to flashing for extra high wind zones

For very high and extra high wind zone only head flashing is bedded on continuous bead of sealant. Refer Page 104 fig 71 E2/AS1
Flexible flashing tape over flexible wall underlay. As per Clause 9.1.5 (a) (b) and figure 72A and 72B E2/AS1

Line of jamb scribe

Window joinery supplied by others

Optional stop end

Interactive assembly instructions available
<http://wkapunzr.com/20-10-03>



g31 WorkingSpec from Apple App Store or Google Play



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Title
Aluminium Head Detail

Drawing
RKV20-FU-01

Scale 1:2 @ A4 Date 12.10.2020



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+64 3 349 3317
15 Edmonton Road
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Title
Nail Fixing Detail (Paint Finish Only)

Drawing
RKV20-FU-48

Scale 1:2 @ A4 Date 12.10.2020

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PROPOSED RESIDENCE & COOPWORTH MENS
WEST MELTON

CEDAR SHIPLAP DETAILS

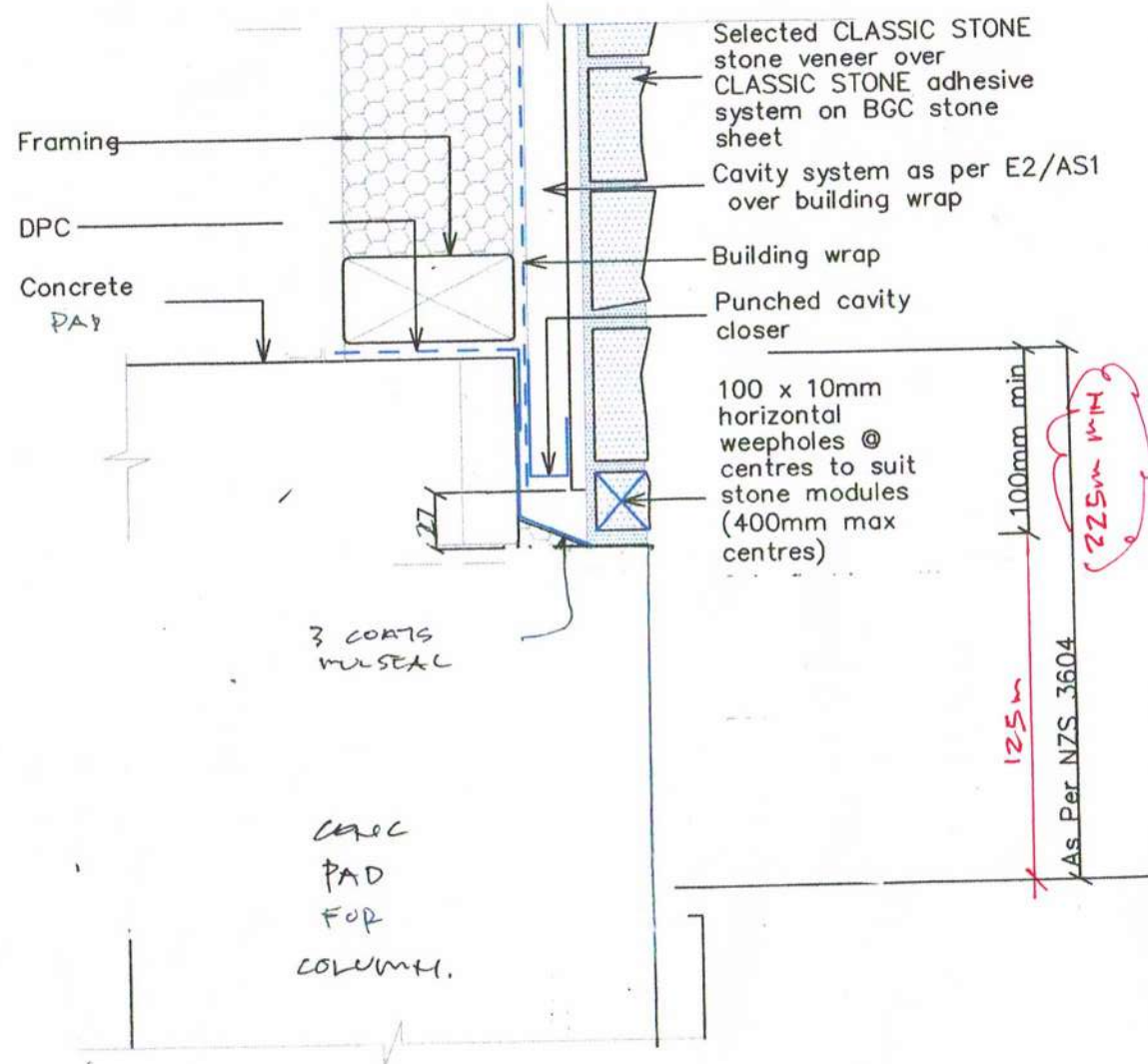
DRAWN: B.R. SHARR

SCALE

DATE

SHEET

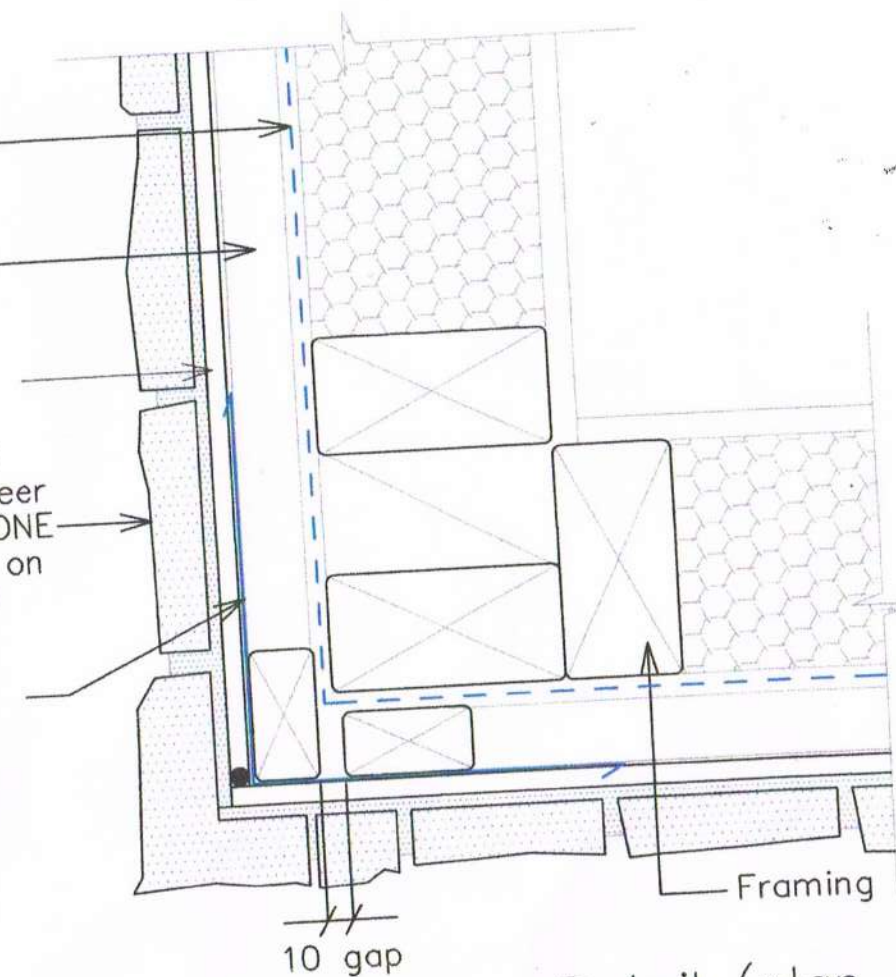
23 B



9c - Typical Slab Edge Detail
(with weepholes)



Building wrap
Cavity system
as per E2/AS1
over building
wrap
Fibre Cement
sheet
Selected CLASSIC
STONE stone veneer
over CLASSIC STONE
adhesive system on
BGC stone sheet
Galv. soaker
flashing



6 - Typical External Corner Detail (plan
view)

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PROPOSED RESIDENCE FOR.

CLASSIC STONE DETAILS

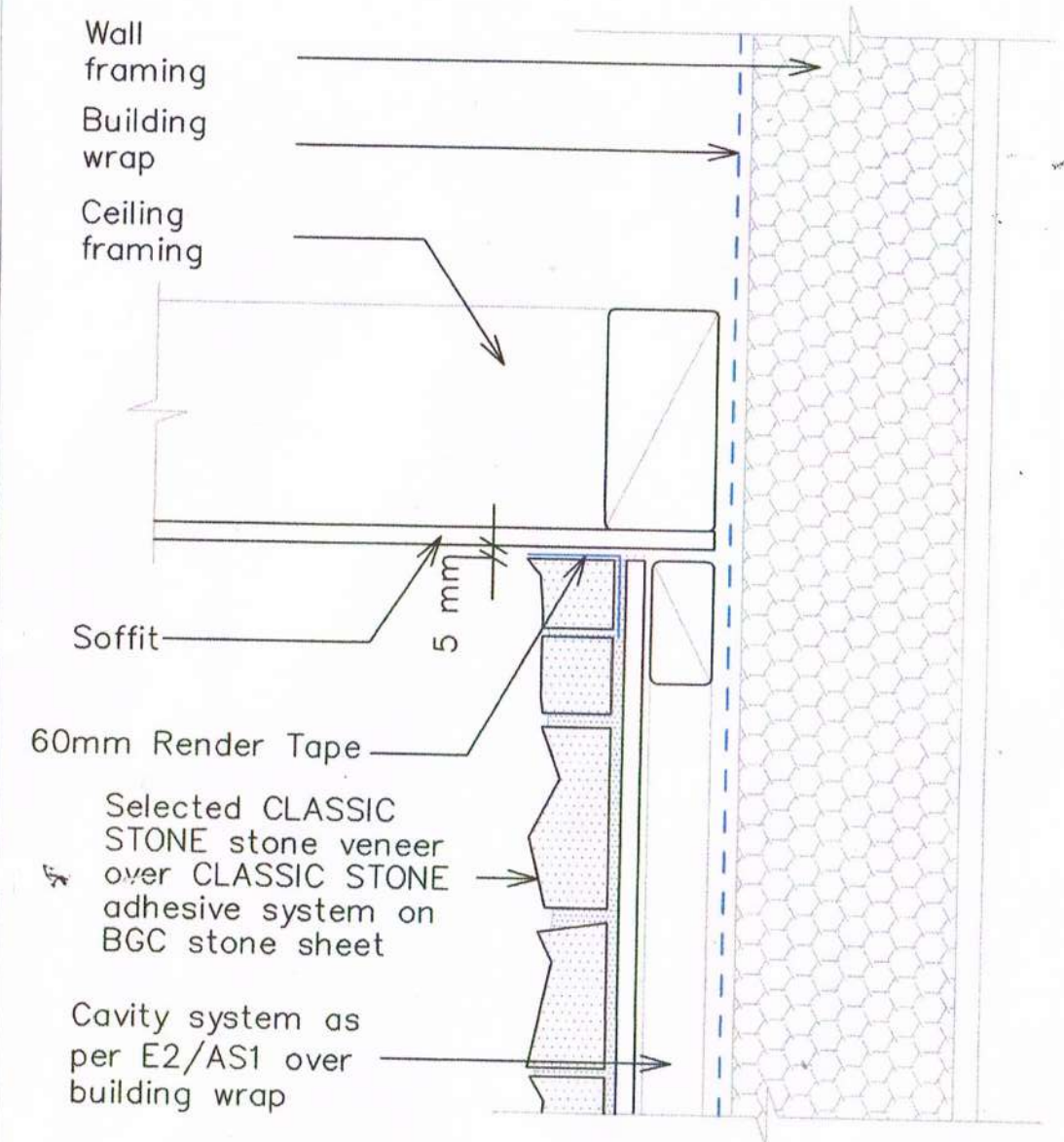
DRAWN
TRACED

DATE

SCALE

SHEET
24

REF



8 - Typical Soffit Detail

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PROPOSED RESIDENCE

ROLLISTON

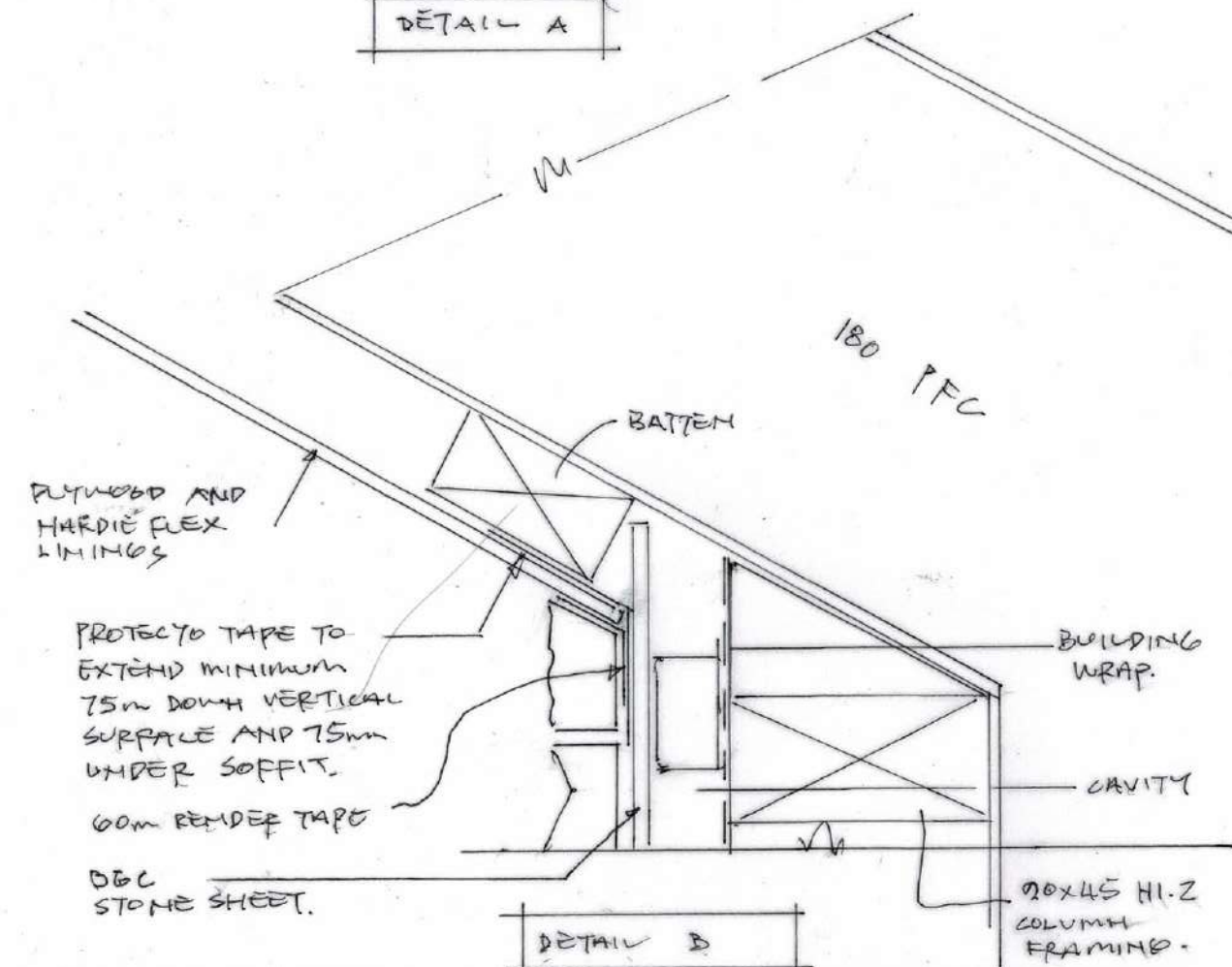
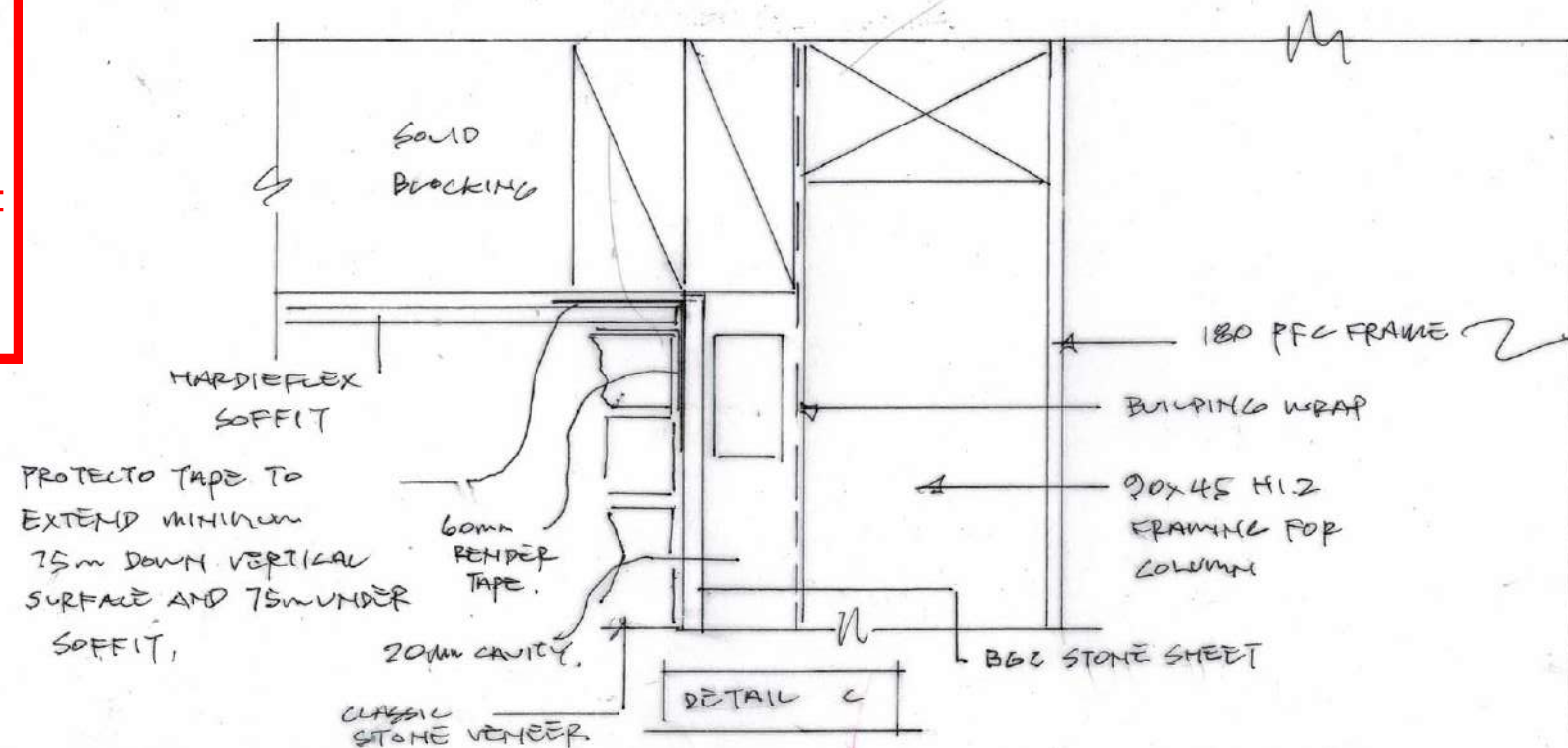
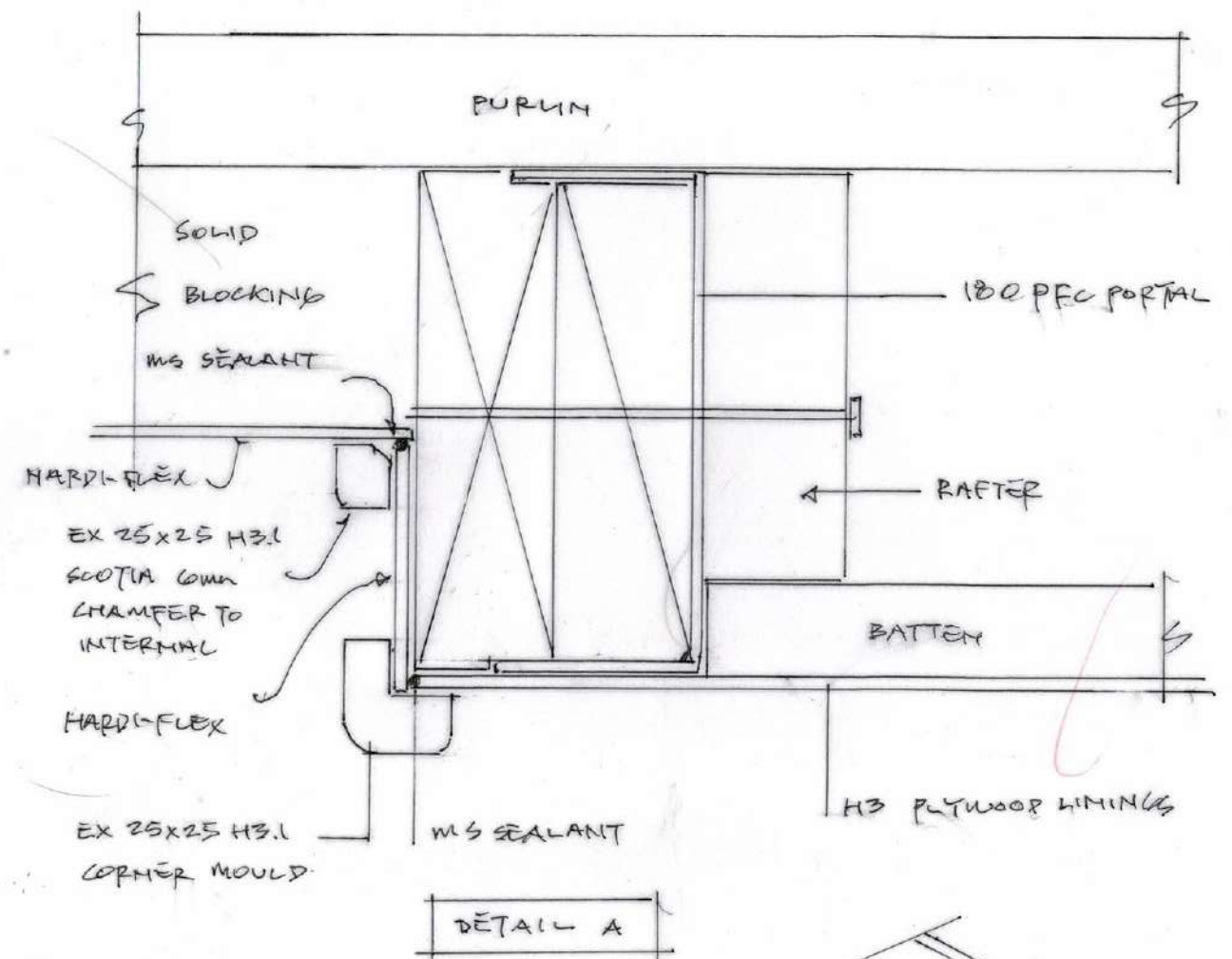
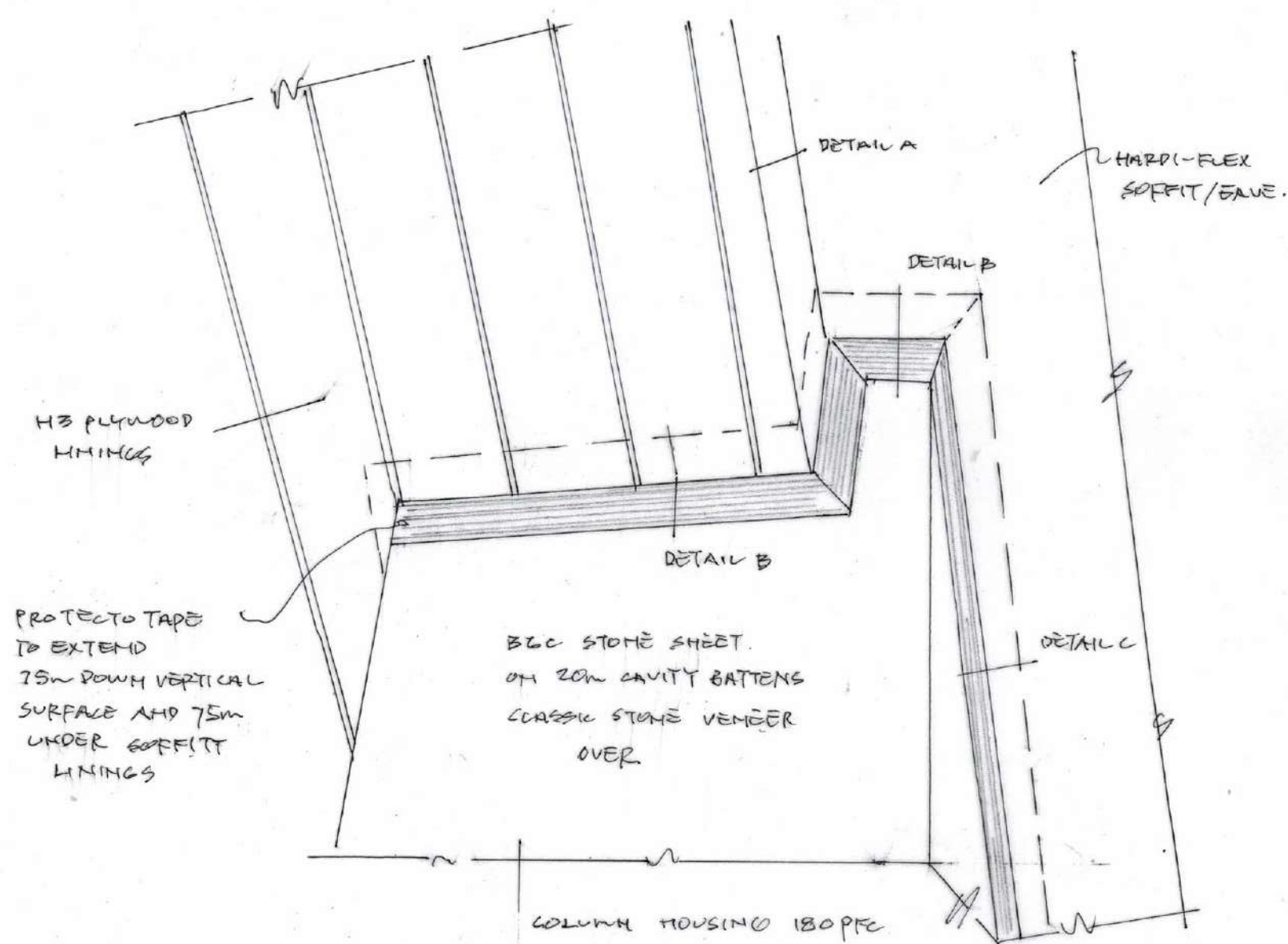
CLASSIC STONE DETAIL

DRAWN: B. SHARR

DATE

SCALE 1:100 A3

SHEET
25



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Halswell
Christchurch 8025

ALL CONSTRUCTION TO COMPLY WITH NZBC AND RELEVANT DOCUMENTS AND NZS 3604

PROPOSED RESIDENCE 5 COOPWORTH MENS

WEST MELTON.

COLUMN PFC FLASHING DETAILS

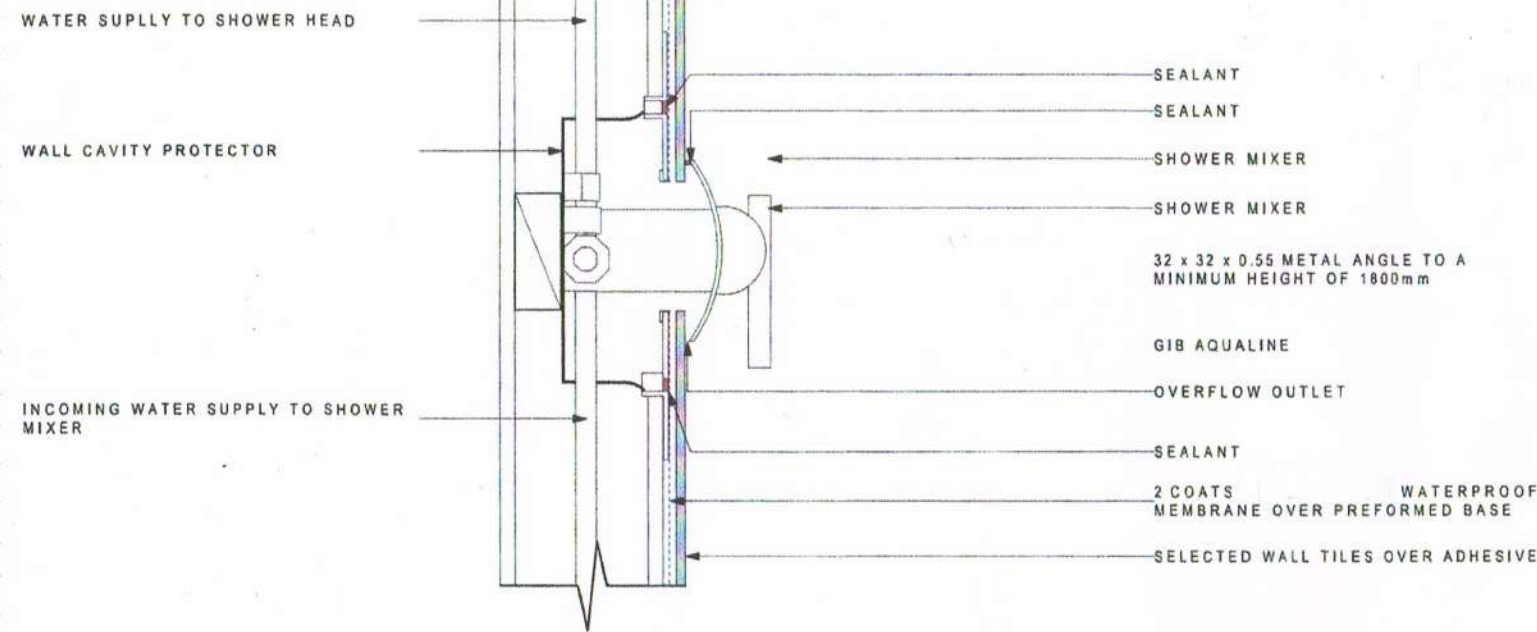
DRAWN: BR SHARR

DATE

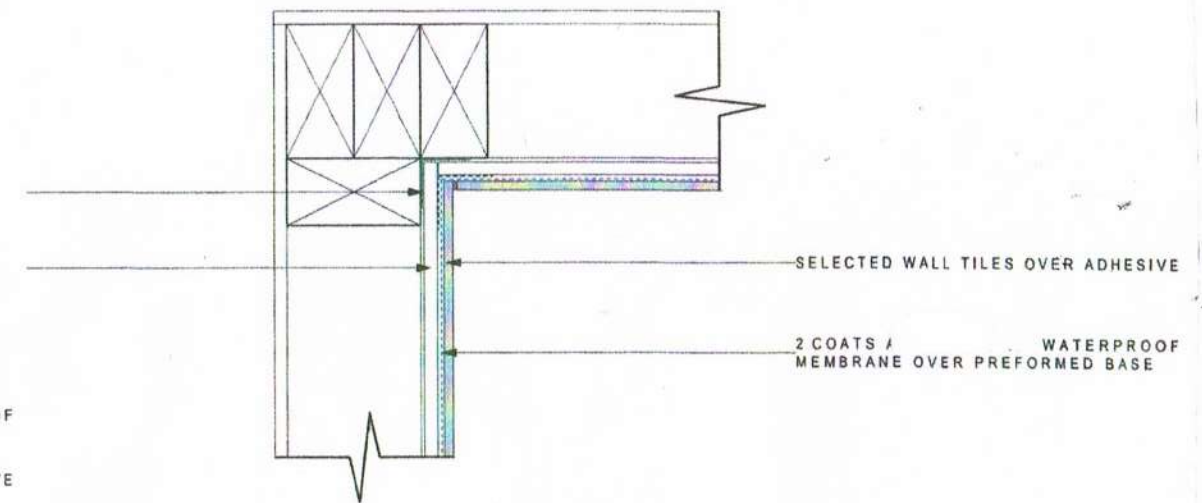
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SHEET

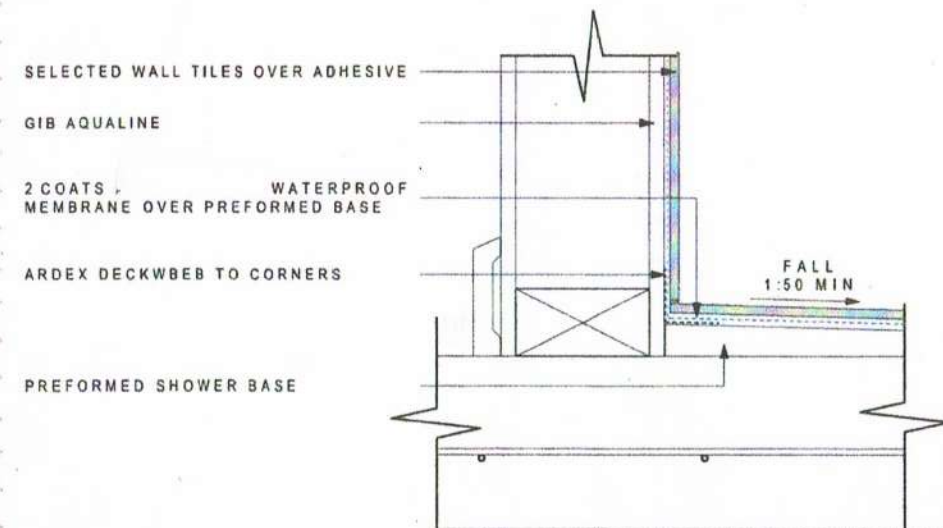
25 A



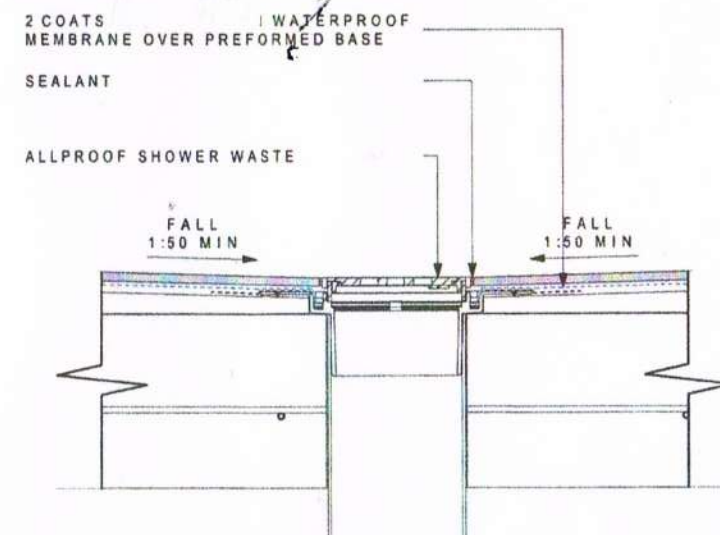
1 | SHOWER PLUMBING PENETRATION
SCALE 1:5



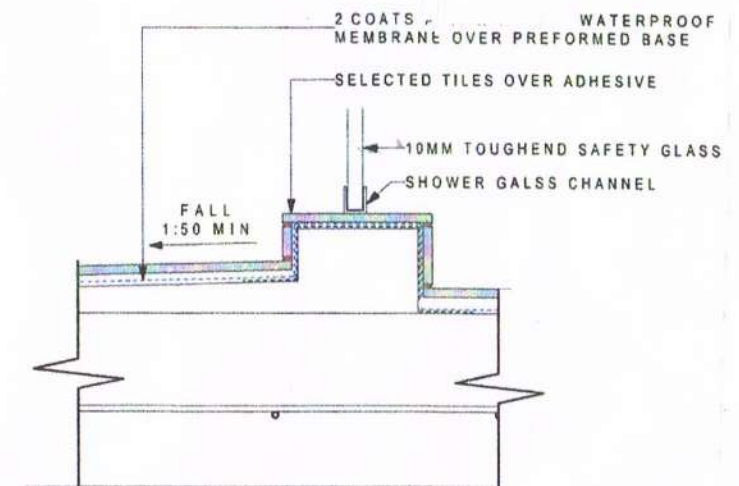
2 | TILED SHOWER INTERNAL CORNER
SCALE 1:5



3 | SHOWER WALL TO FLOOR
SCALE 1:5



4 | SHOWER WASTE
SCALE 1:5



5 | SHOWER UPSTAND
SCALE 1:5

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PROPOSED RESIDENCE

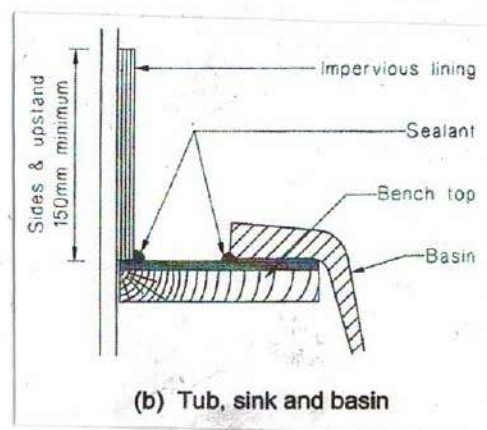
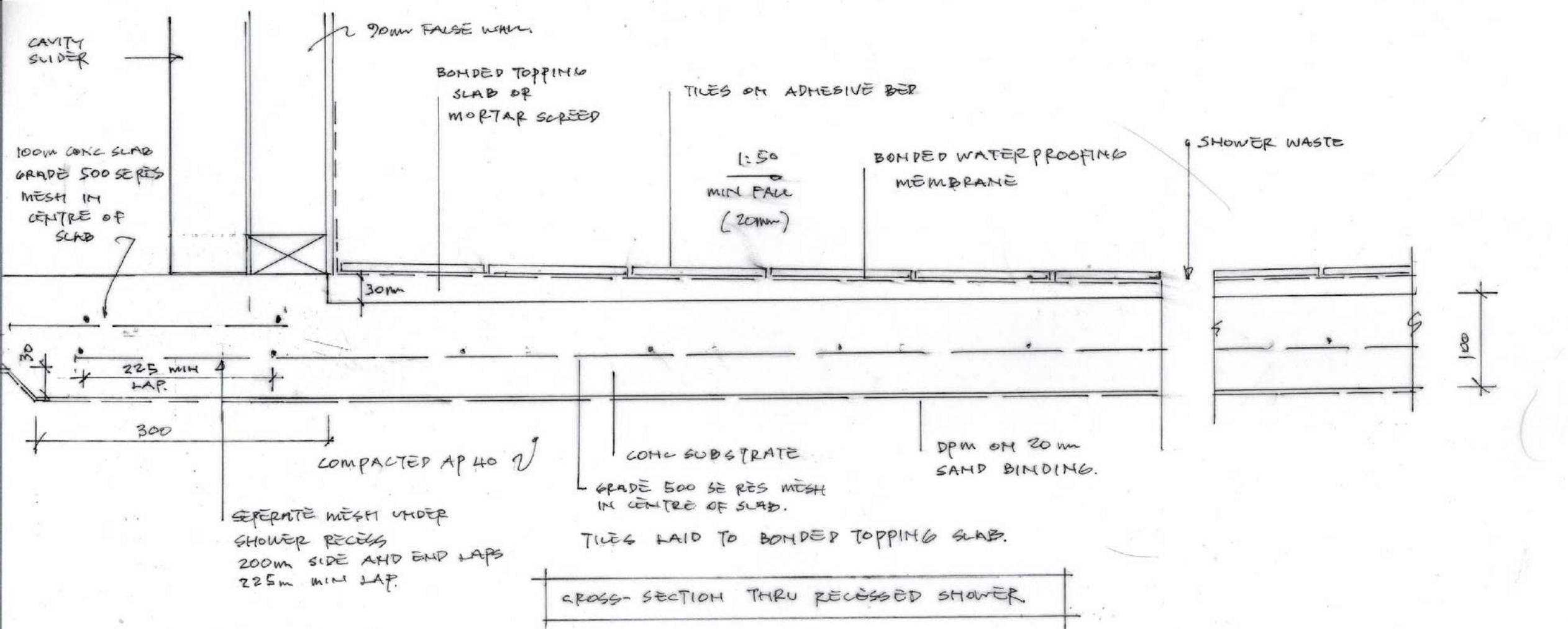
WET FLOOR DETAILS

DRAWN - B. R. SHARR

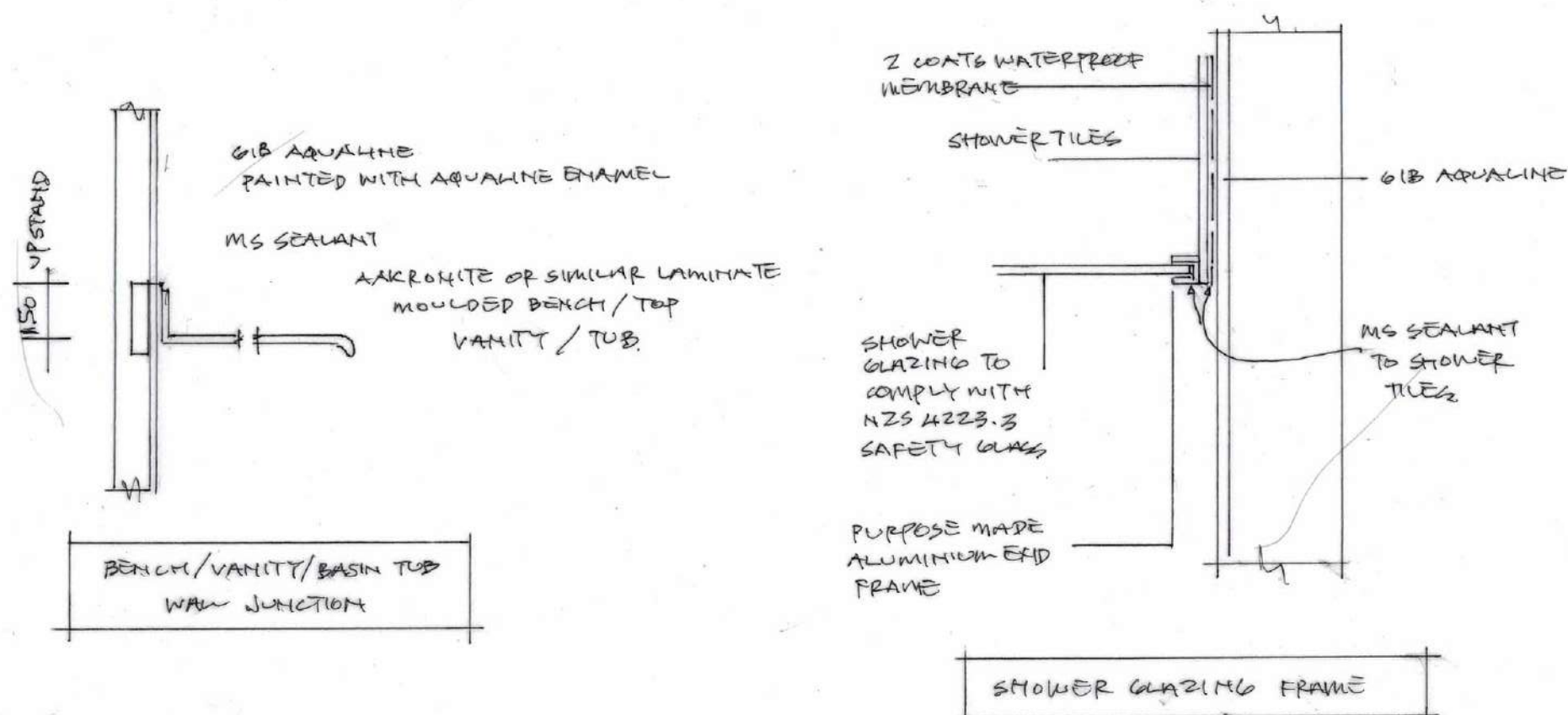
SCALE 1:100/4 A3

SHEET

26



E3 / AS1 FIGURE 3.



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PROPOSED RESIDENCE 5 LOOPWORTH MENS

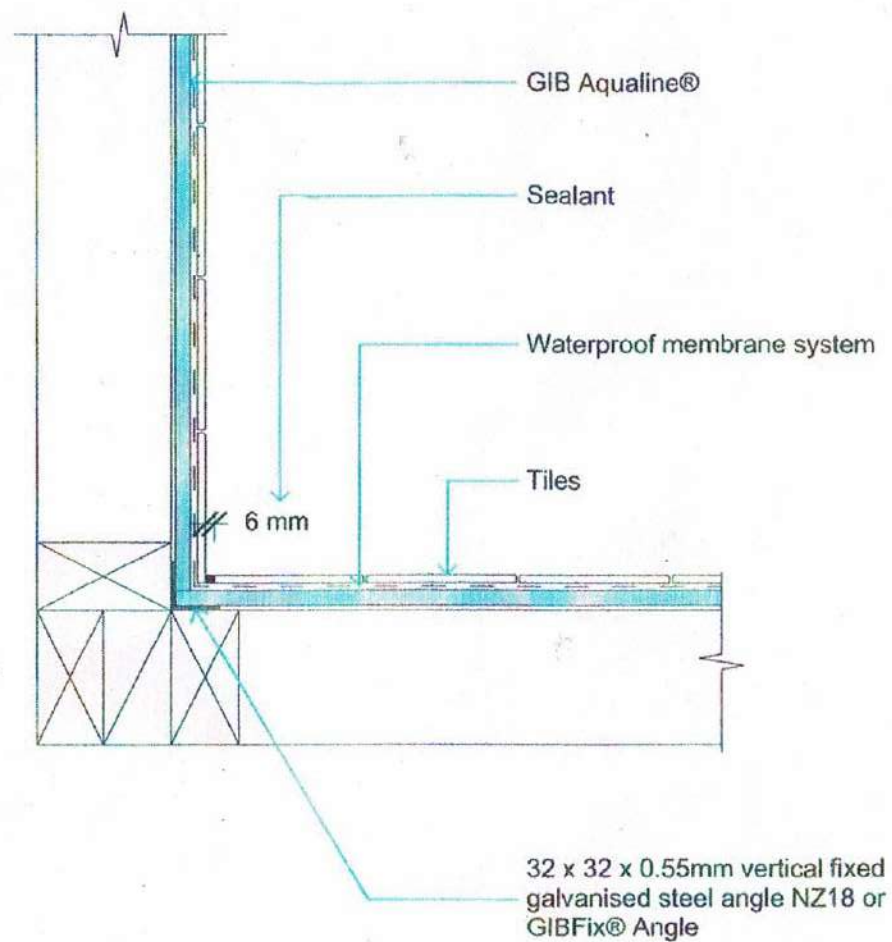
TILED SHOWER DETAILS

SHEET
27

DRAWN: B. R. SHARR

DATE 13.2.2023

SCALE 1:5



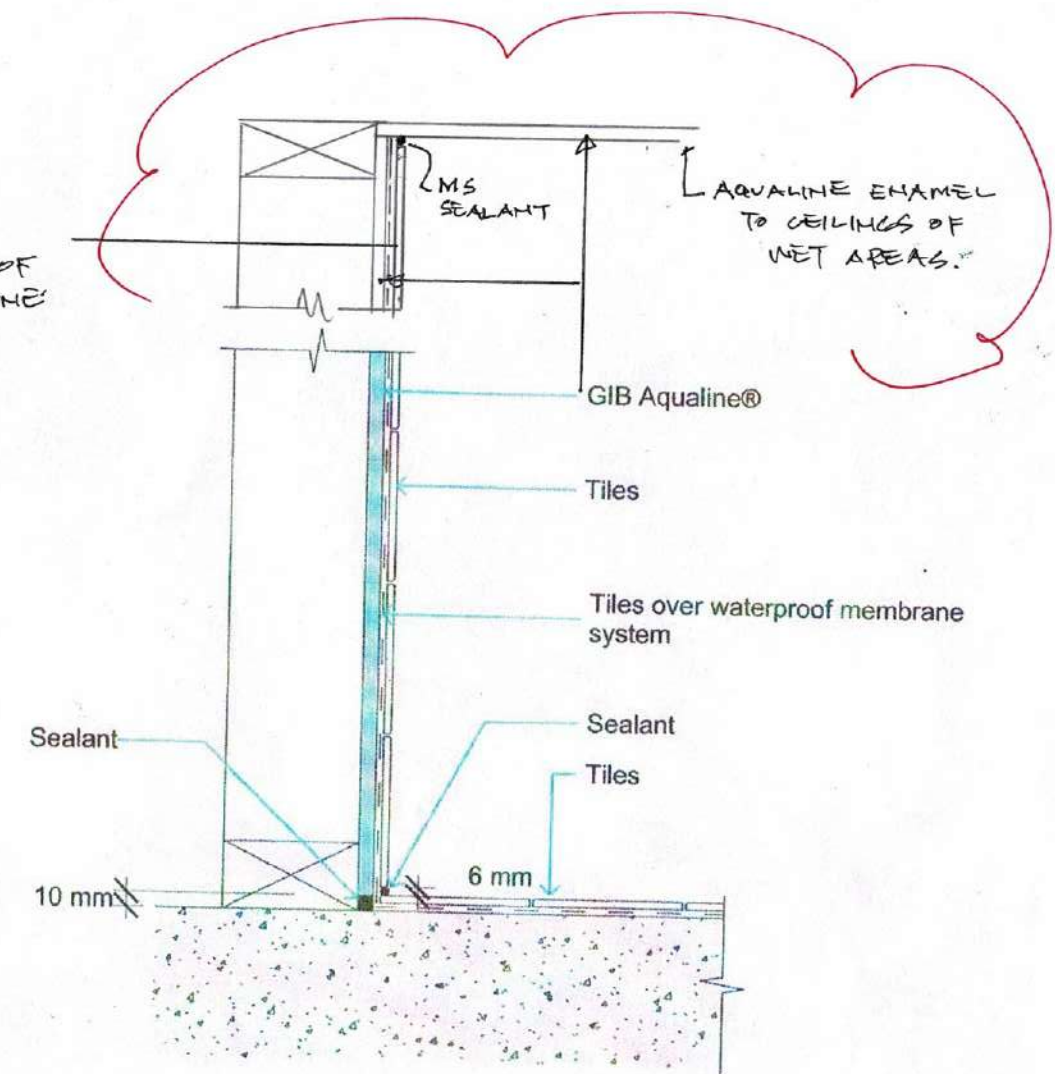
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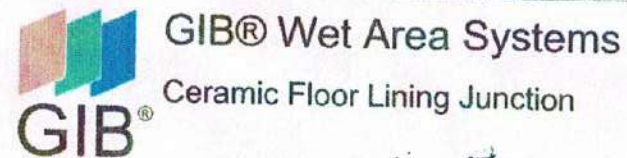
File: GAL029 Tiled Internal Corner	
Issue: 1	
Scale: 1:5	Reference
Date: 19 Feb 2021	GAL029

TILES ON
WATERPROOF
MEMBRANE



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File: GAL002A Ceramic Floor Lining Junction	
Issue: 1	
Scale: 1:5	Reference
Date: 19 Feb 2021	GAL002A

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PROPOSED RESIDENCE FOR.

WET FLOOR DETAILS

SHEET

28

DRAWN B.R. SHARR

SCALE

Planning Approved

3/11/2022

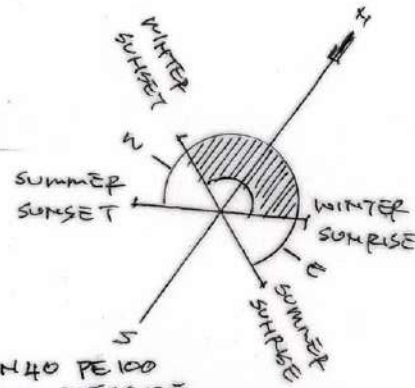
abelaa

LEGAL DESCRIPTION

LOT 277 DP 558751

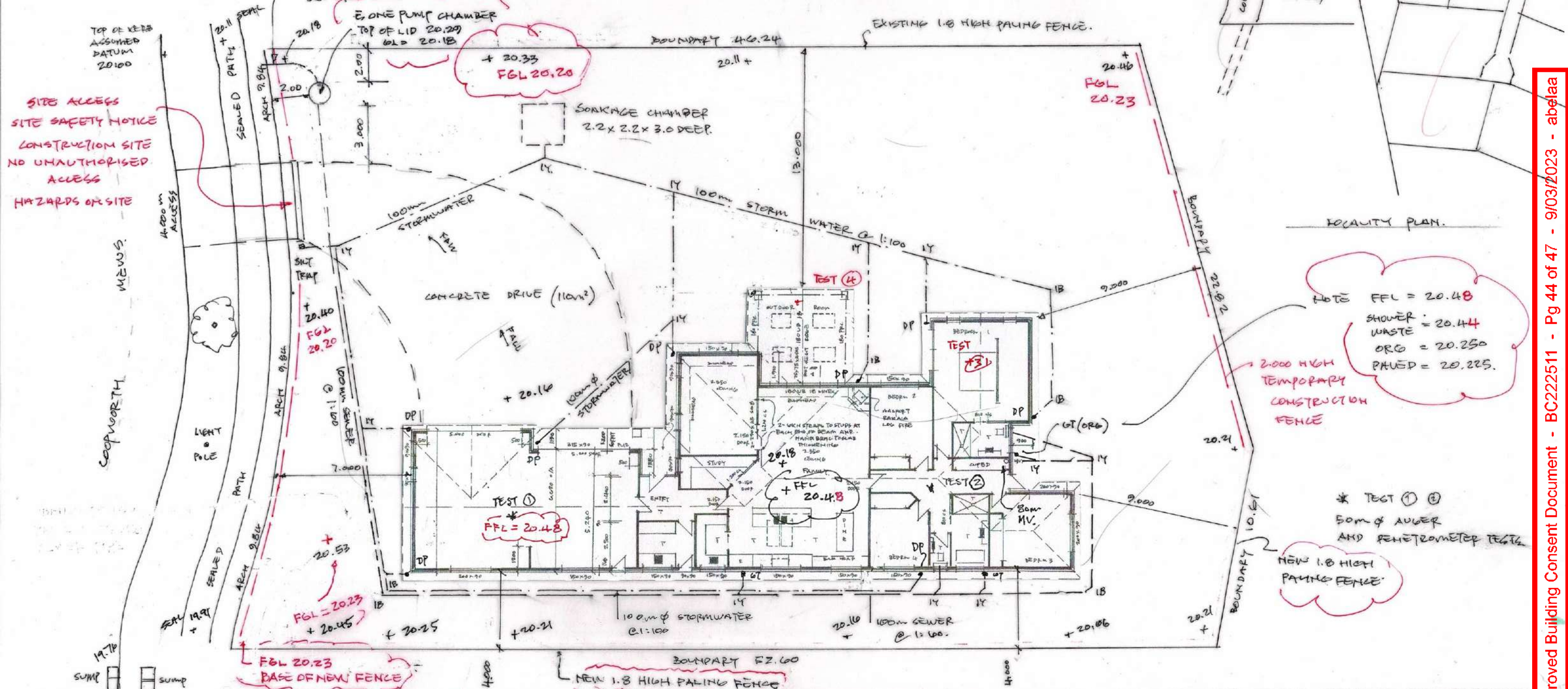
AREA = 1615 m²

21% SITE COVER
(336.56 m²)



NOTE

DRAINLAYER TO GIVE WRITTEN VERIFICATION AND SUPPORTING DOCUMENTS RE PERLOCATION TESTING AND CATCHMENT CALLS AS PER E1/VMI SECTION 9 PRIOR TO INSTALLATION OF SOAK PIT/CHAMBER AND AN ACCURATE SOAK/PIT DIMENSIONS TO BE DETAILED ON "AS BUILTS" DRAINAGE PLANS FOR CODE OF COMPLIANCE.



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ALL CONSTRUCTION TO COMPLY WITH NZBC AND RELEVANT DOCUMENTS AND NZS 3604

PROPOSED RESIDENCE 5 COOPWORTH MEWS
(LOT 277 RIDGELAND WAY)
WEST MELTON.

SITE / DRAINAGE PLAN.

DRAWN: B. R. SHARR

DATE 28.8.2022

SCALE 1:200

SHEET
30

Figure 1: Connection of drains
Paragraph 3.2.1

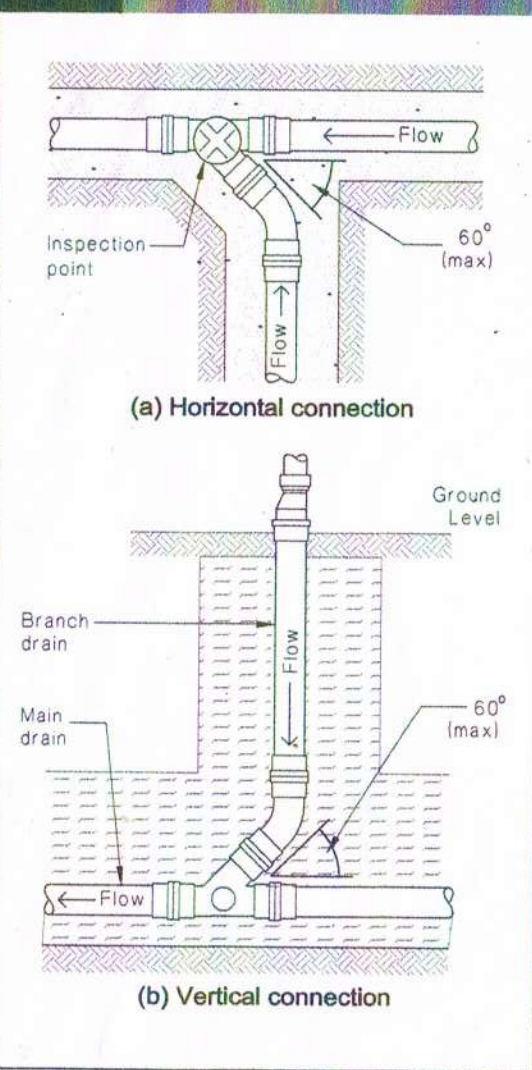


Figure 2: Details of gully traps
Paragraph 3.3.1

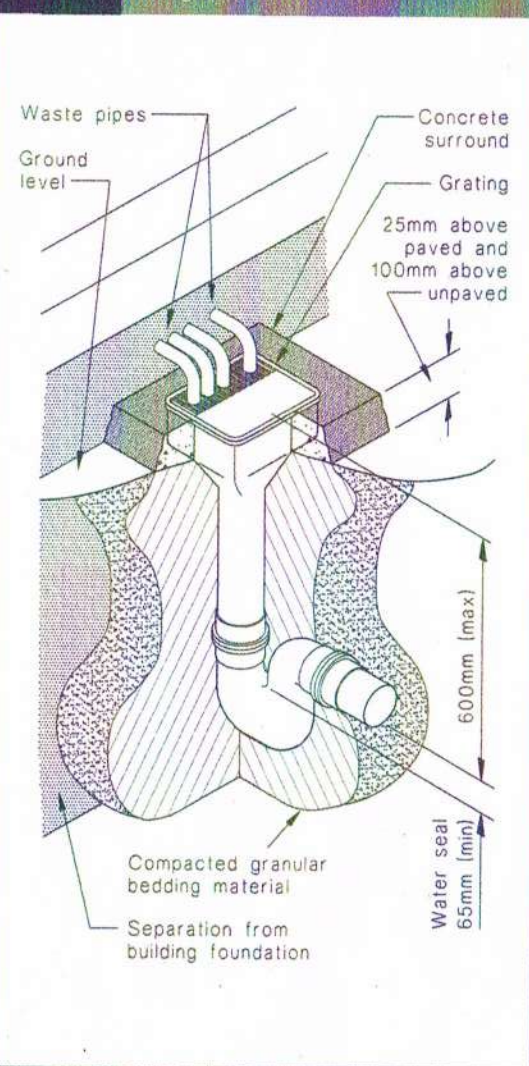


Figure 13: Bedding and Backfilling
Paragraphs 3.9.2, 3.9.4 and 3.9.5

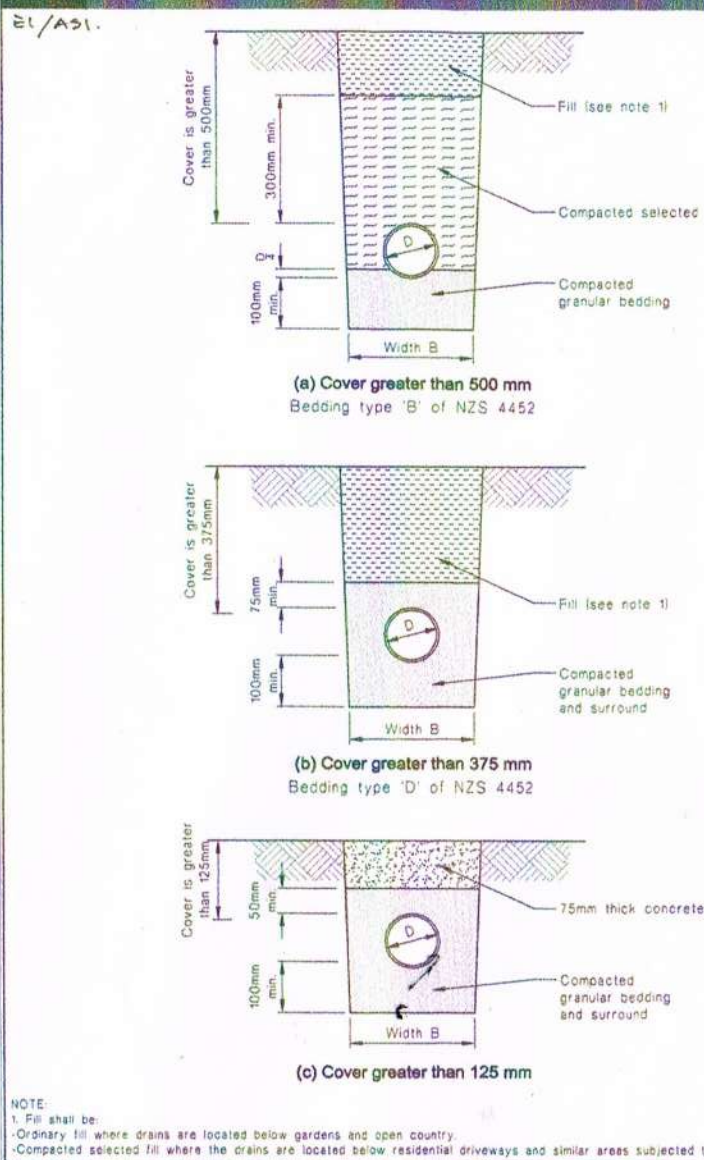
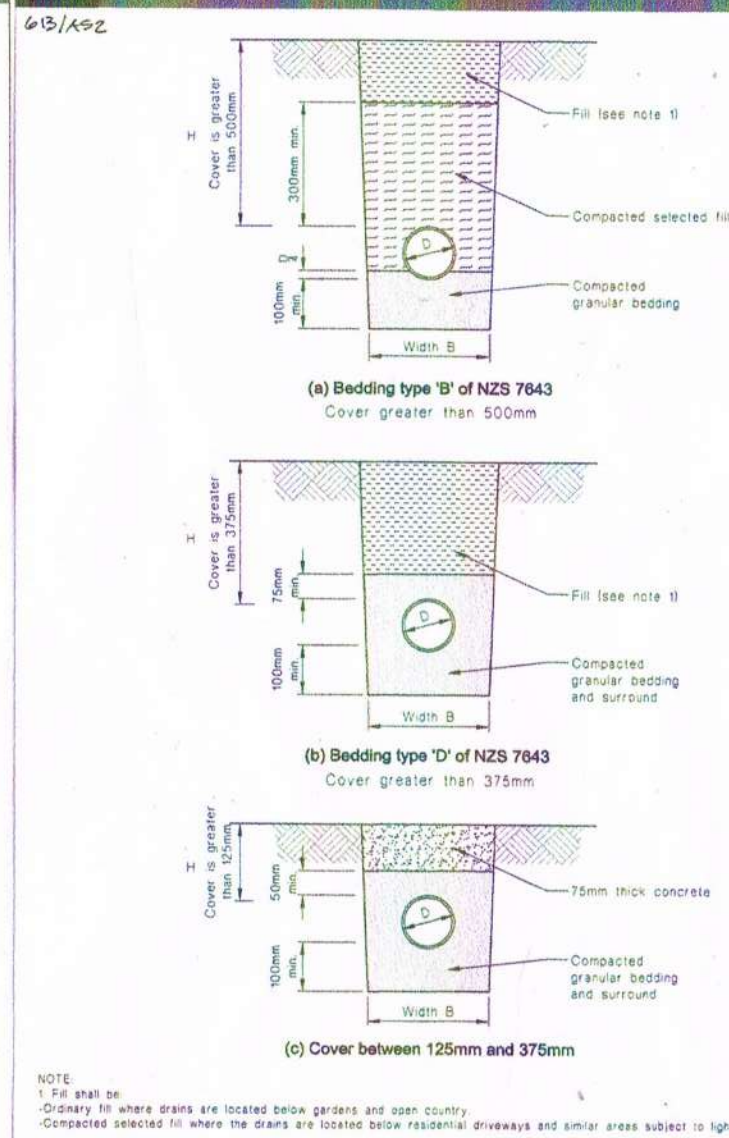


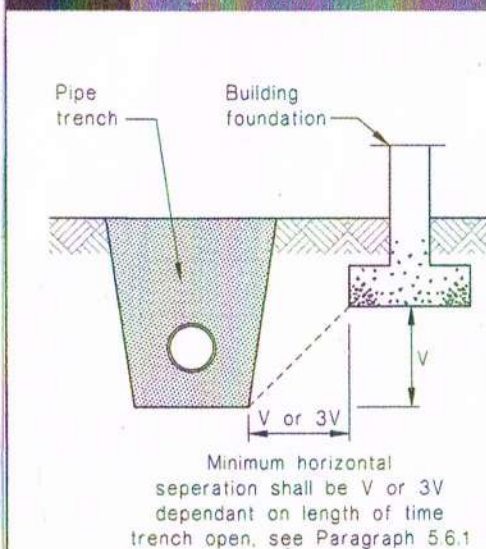
Figure 7: Bedding and backfilling
Paragraphs 3.2.1, 3.3.1 and 3.4.1



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 subjected to light traffic.

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.

Figure 8: Relationship of pipe trench to building foundation
Paragraph 5.6.1



3.9.7 Proximity of trench to building

For light timber frame and concrete masonry buildings constructed to NZS 3604 or NZS 4229 in accordance with B1/AS1, pipe trenches which are open for no longer than 48 hours shall be located no closer than distance 'V' (see Figure 14) to the underside of any building foundation. Where the trench is to remain open for periods longer than 48 hours, the minimum horizontal separation shall increase to 3V in all ground except rock.

Amend 9
Feb 2014

DRAINAGE NOTES

- 100mm Ø SEWER @ 1:60 MIN PVC UP PIPES SHALL INCORPORATE EXPANSION JOINTS AS PER SECTION 6.4 OF AS/NZS 2032
- SUPPORTS AT FLOOR & WALL PENETRATIONS NOT INCORPORATING EXPANSION JOINT MOVEMENT TO BE ACCOMMODATED USING PIPE SLEEVES OF FLEXIBLE/DURABLE LAGGING MATERIAL 613/AS1
- PIPES TO BE LAID IN 100mm MIN OF COMPACTED GRANULAR BEDDING OF NON-COHESIVE MATERIAL WITH MAX PARTICLE SIZE OF 20mm. TRENCH SIZE TO BE PIPE Ø + 200mm

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PROPOSED

DRAINAGE DETAILS

DRAWN
TRACED

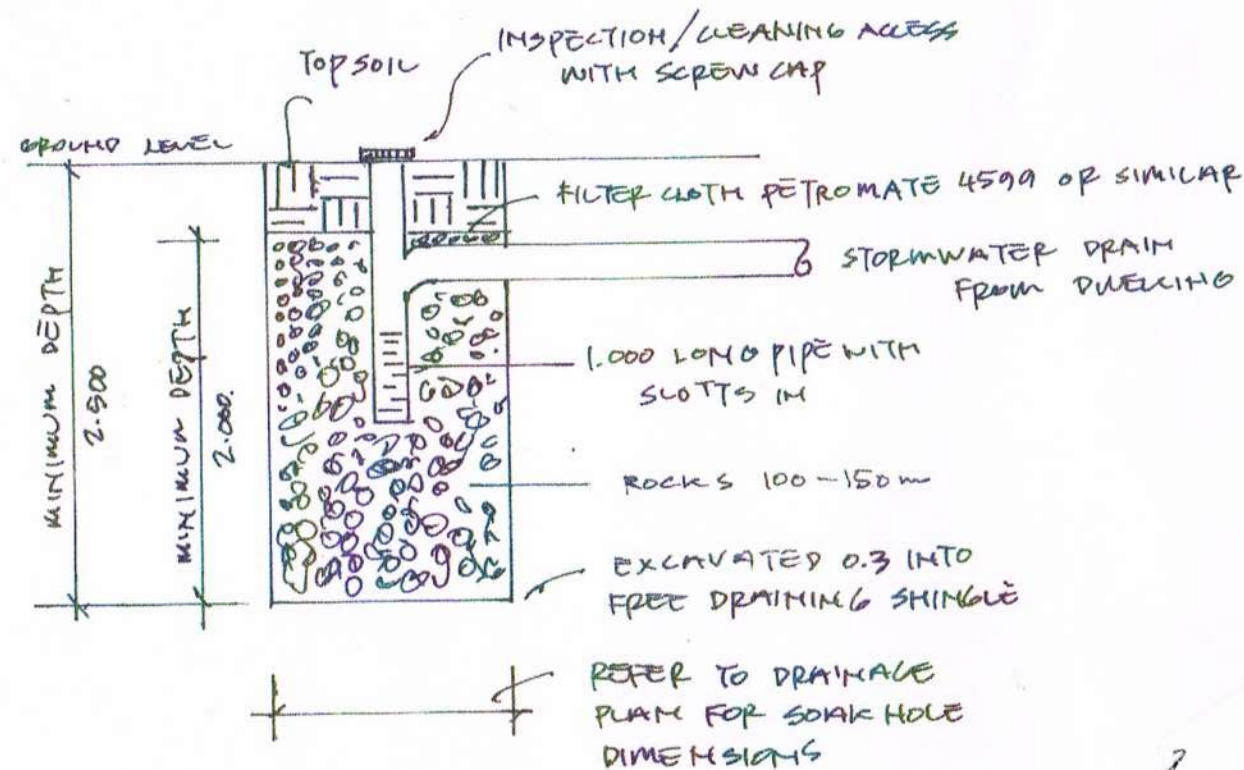
CHECKED
DATE

SCALE

SHEET

31

REF



NOTES

1. EXCAVATE INTO CONTINUOUS FREE DRAINING SHINGLE. POUR TWO 10 LITRE BUCKETS OF CLEAN WATER INTO BASE TO CONFIRM FREE DRAINING (RECORD READING).
2. THE OPEN END OF THE DISCHARGE PIPE TO BE PROTECTED AGAINST BLOCKAGE BY PLACING LARGE STONES AROUND THE END OF THE PIPE TO CREATE A CAVITY.
3. DRAINLATER TO GIVE WRITTEN VERIFICATION AND SUPPORTING DOCUMENTS RE PERCOLATION TESTING AND CATCHMENT CALCS AS PER RI/UMI SECTION 9 PRIOR TO INSTALLATION OF SOAK PIT. DIMENSIONS TO BE DETAILLED ON THE "AS BUILT" DRAINAGE PLANS FOR CODE OF COMPLIANCE.

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ALL CONSTRUCTION TO COMPLY WITH NZBC AND RELEVANT DOCUMENTS AND NZS 3604

PROPOSED RESIDENCE FOR.

ROUDESTON

STORMWATER SOAK PIT

DRAWN B.R. SHARR
TRACED

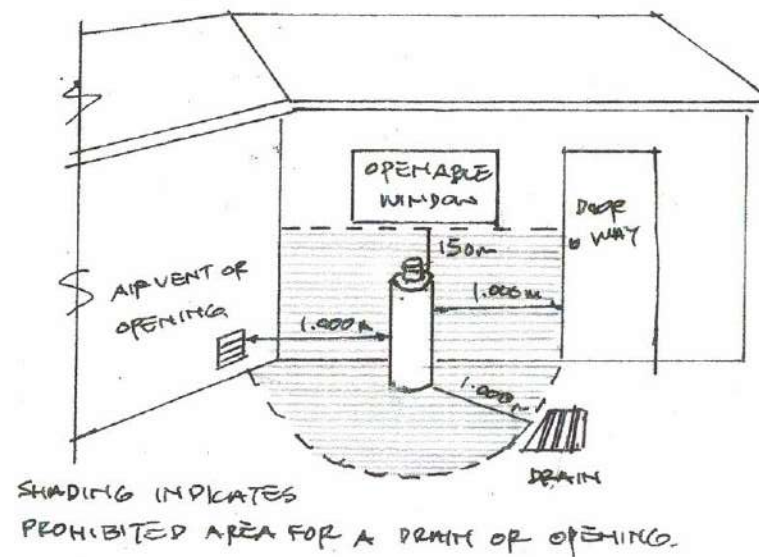
CHECKED
DATE

SCALE

SHEET

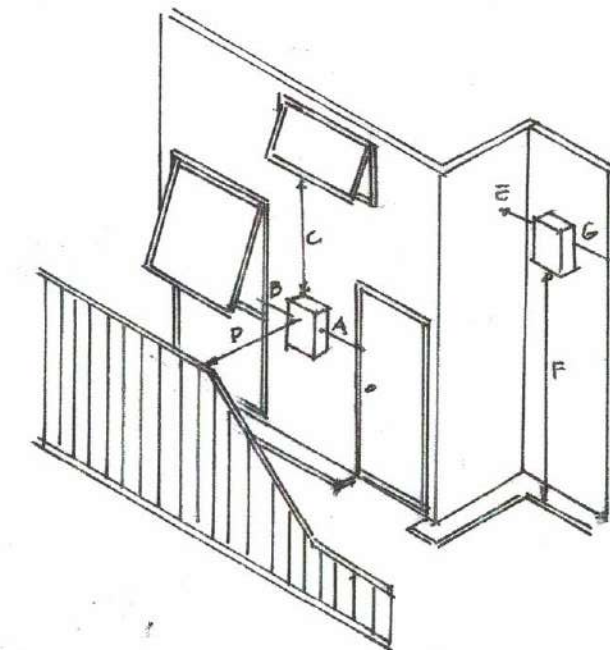
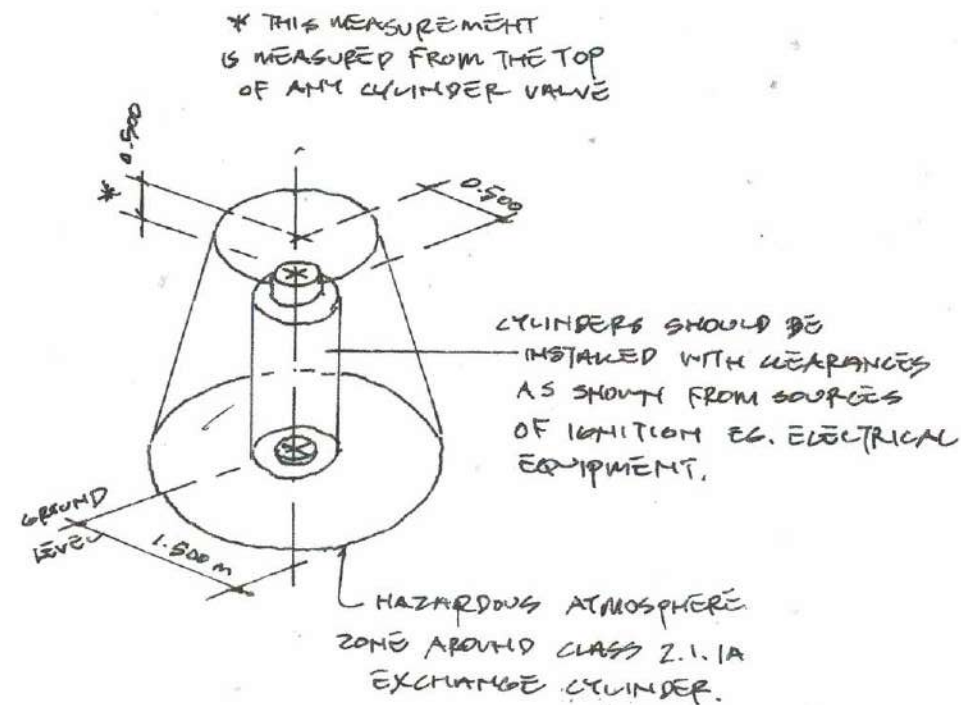
32

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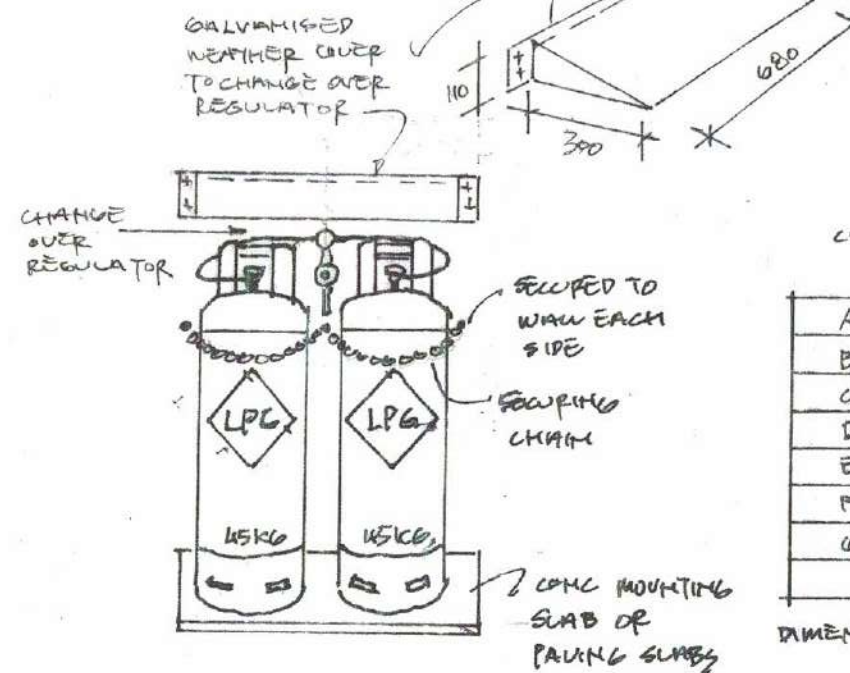


ISOLATION DISTANCES AROUND CLASS 2.1.1A EXCHANGE CYLINDERS (UP TO 100 KG)

CYLINDERS MUST BE INSTALLED IN ACCORDANCE WITH MZS 5001.2.2013 BY A QUALIFIED GAS FITTER. THE FULL SYSTEM INSTALLATION MUST BE CERTIFIED BY A CRAFTSMAN GASFITTER PRIOR TO COMMISSIONING.



RINNAI INFINITY EXTERNAL GENERAL CLEARANCES



CLEARANCE BELOW EAVES, BALCONIES AND OTHER PROJECTIONS FOR ALL MODELS IS 300MM MIN.

A	MIN 300	MIN 500
B	MIN 300	MIN 500
C	MIN 1.500	MIN 1.500
D	MIN 500	MIN 500
E	MIN 300	MIN 500
F	MIN 300*	MIN 300*
G	MIN 300	MIN 300

DIMENSION INFINITY V-T MODELS
INFINITY HD 2000
INFINITY EF MODELS

INFINITY HD 250 MODELS

* RINNAI RECOMMEND 1.500 TO GIVE ENOUGH CLEARANCE FOR PIPEWORK AND SAFETY EXPEL FWE GASES

B R SHARR DESIGN

136 Halswell Junction Road
Halswell
Christchurch 8025

ALL CONSTRUCTION TO COMPLY WITH NZBC AND RELEVANT DOCUMENTS AND NZS 3604

PROPOSED RESIDENCE FOR 5 COOPWORTH MENS
WEST MELTON.

GAS INSTALLATION DETAILS

DRAWN:
TRACED:

CHECKED:
DATE:

SCALE:

SHEET:

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SERIES OF:
REF: