**Code Compliance Certificate No: 14226**

Section 43(3), Building Act 1991

Application No: **021933**

<i>Owner</i>	<i>Project</i>
Name: <b>Blain T and J</b> Address: <b>34 Caldwell Road</b> <b>WOODBOURNE 7354</b>	Use(s): <b>Dwelling with Attached Garage</b>  Life: <b>Indefinite, but not less than 50 years</b>  Stage: <b>1</b> Of: <b>1</b> Nature of consent: <b>1</b> <b>HN</b> Estimated Value <b>\$153,000.00</b>
<i>Site</i>	<i>Legal Description</i>
Address: <b>10 Hillside Terrace</b> <b>BLENHEIM 7301</b>	Property no: <b>252545</b> Legal Description: <b>Lot 28 DP 11017</b>  Valuation Roll No: <b>20550 25714</b>

This is

- ☒ A final code compliance certificate in respect of all of the building work under the above building consent.
- ☐ An interim code compliance certificate in respect of part only, as specified in the attached particulars, of the building work under the above building consent.

This code compliance certificate is issued subject to the conditions specified below.

Signed for and on behalf of the Council :

Name: Position: **Building Administration Officer**Date: **20-Jun-03**

### 7.5.5 Bituminous sheet damp-proof membranes

#### 7.5.5.1

Bituminous sheet DPM material shall:

- (a) Have a hessian or fibreglass core;
- (b) Be not less than 3 mm thick;
- (c) Have heat-bonded lap joints not less than 50 mm wide;
- (d) Be protected from damage.

#### C7.5.5.1

Vertical faces cannot be exposed in any situation where the sheet might suffer damage.

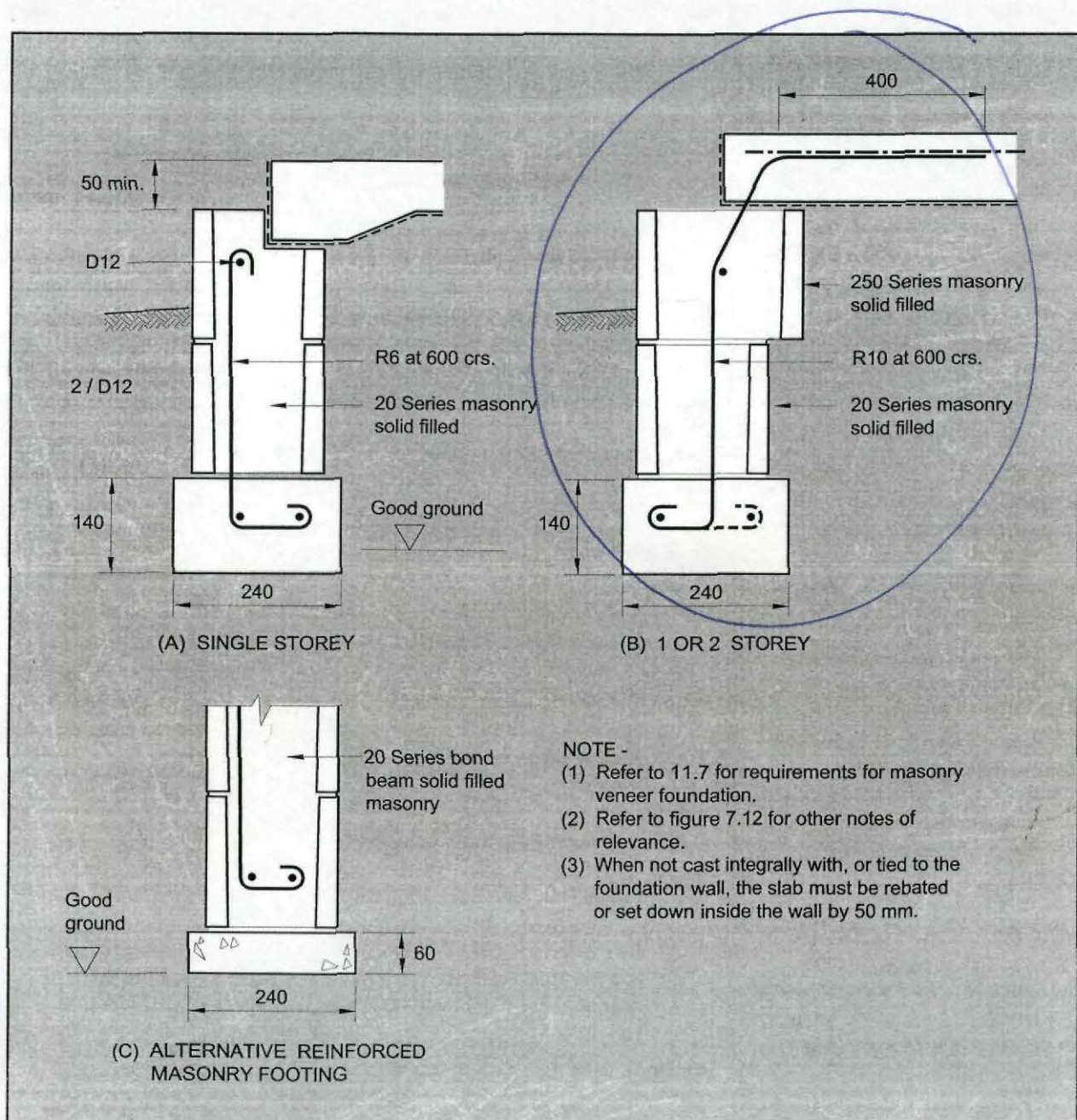


Figure 7.15 – Masonry veneer foundation edge details – Concrete masonry (see 7.5.2.3 and 11.7)





# FOWLER CONSTRUCTION LTD.

CHRISTCHURCH BRANCH: 9 Print Place • PO Box 37-021 • Phone: 03-338 8340 • Fax: 03-338 3167

BLenheim BRANCH: The Forum Centre • Market Square • Phone: 03-579 1005 • Fax: 03-579 1006

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## SPECIFICATIONS

All aspects of the construction project to be carried out as per working drawings provided in a tradesman like manner in accordance with the NZ Building Code 1991

### **SITE SCRAPE**

The building site shall be stripped of all top growth and vegetable matter with top spoil being stockpiled on site. Should unexpected soft ground conditions be encountered the owner will be advised so an engineer can be consulted for additional foundation details.

### **GENERAL SITE CONDITIONS**

Quotations and material volumes are based on a level site or as detailed on the construction drawings with drive on access being provided for all materials including concrete from truck (pumping costs extra, if required)

### **CONCRETE FOUNDATION AND FLOOR**

Foundation concrete shall be at the strength of 17.5 MPA at 28 days, complying with NZS 3109. Reinforced with 2 x D16mm bars with R10 floor slab ties at 600 centres.

At 17.5 MPA concrete floor slab shall be poured over .25 micron polythene damp prevention course on a minimum 150mm of washed round tailings. The slab shall be finished to a high standard while still green to a NZS 3114 1987.

Expansion control joints provide at nominally 4m. apart. Unless specified, floor height to be 250mm minimum above ground level. Generally wet area floor preparation and tile isolation membrane to prevent cracking by flooring contractor (Mesh excluded)

### **PATIO AREAS**

Patio concrete supplied and placing **by others**.

### **WALL FRAMING**

All work to comply with NZS 3604 framing generally to be H1 treated rimu or H1 treated radiata 100 x 50 studs at 600 CRS and dwangs at 800 centres. Bracing to be as per schedule and will be steel angle brace or ply sheet bracing. Use Malthoid DPC between concrete and timber. Lintels – size from N.Z.S. 3604 Table 6.7. All treated to NZ Timber Preservation Council 3650 1992. B2 durability. B1 stability.

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## **ROOF FRAMING**

Provided by Gang nail trusses at 900 centres designed and manufactured by a licensed manufacturer. Fixed to batten plated with 2 -"Z" nails. Ceiling battens Ex 75 x 40 at 400 centres B2 durability B1 stability.

## **SOFFIT LININGS**

4.5mm Compressed cement sheet as per plans, supported by 75 x 40 sprockets.

## **ROOFING**

### **Colourtile**

Roofing to be Colourtile on 50 x 40 battens at 300 CRS on self supporting breather type roof underlay to NZS 4217 1980. B2 durability weather security 25 years. Surface coating 10 years prorata. Installation 3 years.

### **Longrun**

Fit 40Trimline G2 Longrun Coloursteel to manufacturer's specifications on self-supporting roofing underlay on 75 x 50 H1 treated purlins 900 CRS. B2 durability 15 years.

### **Monier Tile**

Monier concrete roof tiles shall be fixed on 50 x 50 H1 treated battens to manufacturer's specifications and to comply with NZS 4206, 2299,3601,3602,4203 and 3604. B2 durability 50 years.

## **FASCIA/GUTTER**

Klass coloursteel fascia gutter system fixed to rafters. Fix fascia and gutter system to manufacturer's specification and NZS 3617 1979. B2 durability – **Refer to pricing schedule for particular style/colour.**

## **MASONRY VENEER**

Run breather type building paper to NZS / BS 1521:1972 NZS 2295 1988 horizontally and well secured to outside face of framing. Repair tears and holes before constructing veneer. Construct brick veneer with approved face fixed ties at correct spacings in accordance with appendix F of NZS 3604 and materials and workmanship to NZS 4203, 4229. – **Refer to pricing schedule for particular brick choice.**



## **PLUMBING AND DRAINAGE**

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### **Cold water Reticulation**

20mm PVC main through house to supply tank with 15mm tees to kitchen, laundry, bathrooms and two outside house taps. 20mm control valve at point of entry to house and 15mm central valve at supply tank. Low pressure cold from supply tank run in 20mm PVC brushed to 15mm PVC at ceiling height. B2 durability.

### **Hot Water Reticulation**

Low pressure hot fed by 135 litres Nuva Tank positioned as high as possible in roof space. 20mm copper feed from hot water cylinder through tempering valve with 15mm branches to feed all fittings. All pipe work in ceiling to be lagged with aeroflex or similar material to comply with NZ Building Code. 270 litre hot water cylinder to be installed. Fit 65mm PVC downpipes from gutter outlets to stormwater risers. All plumbing to comply with NZ Building Code 1991 G12 and G13. B2 durability and AS1. - **Specific plumbing and tap ware schedule attached.**

## **DRAINAGE**

Drainage and stormwater to site plan to comply with G13, AS2 and E1, B2 of NZ Building Code 1991. Generally stormwater yards sumps and drains excluded unless specified on drainage plan. Backfilled with original material subjected to shrinkage.

## **WINDOWS**

Supply and install Aluminium windows in accordance with NZS 4223 and 4221. - **Refer to pricing schedule for specific glass and reveal details.**

## **INTERIOR LININGS**

Wall and ceiling linings are 905mm gib board fixed to the manufactures specifications. Stopping to be carried out to a level four finish and machine sanded to a high standard of finish suitable for painting. Unless stated corners are square plastered. (Gibcove optional extra) - **Refer to pricing schedule for specific finish.**

## **JOINERY**

Supply and install kitchen as per joinery design. - **Specific details attached.**

## **ELECTRICAL WORK**

All electrical work to be carried out in a tradesman like manner and comply with the relevant codes of practice to G8, G9 NZ Building Code. Lighting to NZS 6703 1984. Private heating to

give an adequate controlled interior temperature to NZ Building Code G5.2.1 (a), G5/AS1.  
(Heating as per quote) – **Specific electrical schedule attached.**

## **INTERNAL DOORS**

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Fit prehung doors in 30mm Gib grooved jambs. B2 durability 15 years. – **Hardware as per pricing schedule.**

## **SKIRTINGS AND FINISHING TIMBER**

Mouldings as specified in pricing schedules. (Generally 60 x 12)

## **INSULATION**

All ceilings to be insulated with R2.4 fibreglass batts. All external walls to be insulated with 1.8 fibreglass batts. No insulation is required to the garage. Insulation to NZS 4214 1977. B2 durability.

## **PAINTER**

All painting work to be carried out in a tradesman like manner. Internal surfaces shall have three (3) coats of acrylic paint (**3 main colours**) and/or polyurethane (owner's choice) sanding out blemishes between each coat. All walls to be sized before wallpapering. – **Refer to pricing schedule.**

## **SERVICES**

- Refer to pricing schedule for inclusions.

## **VANITY UNITS**

- Refer to pricing schedule, joinery sections for type/style.

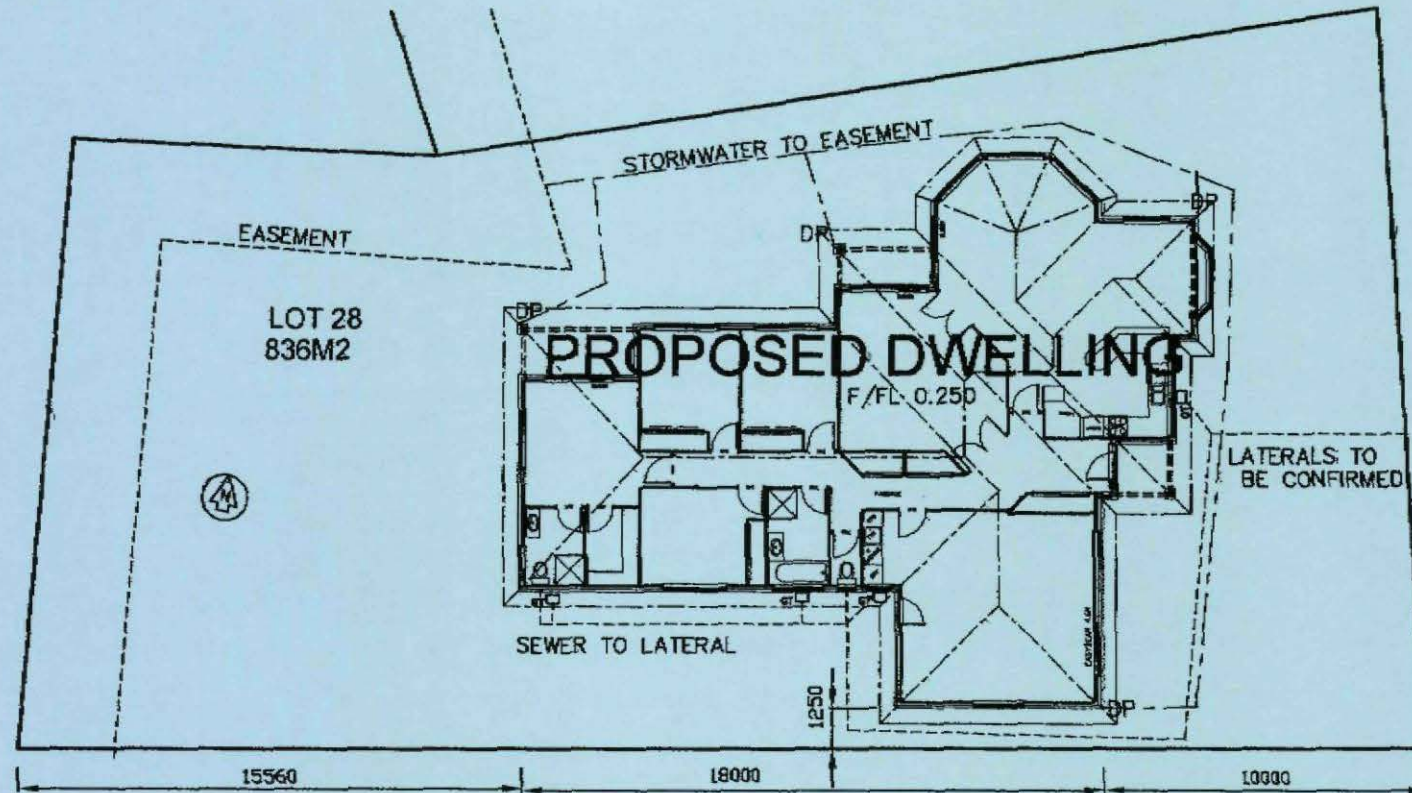
## **SHOWER CUBICLES**

- Refer to pricing schedule for type/style.

## **GARAGE DOOR**

- Refer to pricing schedule for type/style.





HILLSIDE TERRACE  
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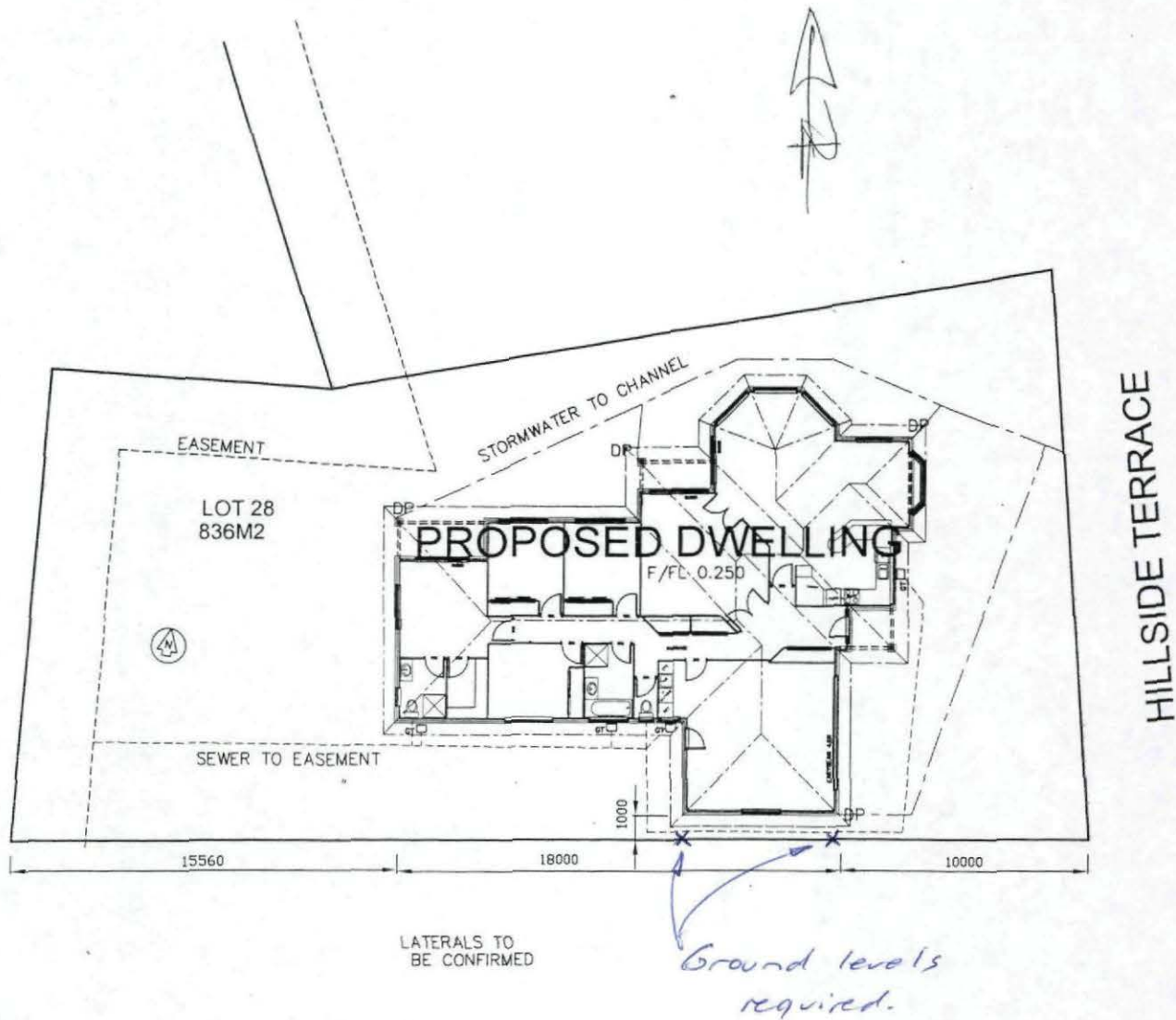
CRONIN  
DESIGN

9 Printt Place Christchurch  
Ph 03 3388394  
Fax 03 3383167  
cronin@extra.co.nz

Tony and Joanne Blain  
Lot 28 Hillside Terrace  
Rlenheim

Site Plan

Merv C  
New



18 NOV 2002  
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CRONIN  
DESIGN

9 Print Place Christchurch  
Ph 03 3388394  
Fax 03 3383167  
cronin@xtra.co.nz

Tony and Joanne Blain  
Lot 28 Hillside Terrace  
Blenheim

Site Plan

Designed by Merv Cronin - R2002.90	Date 8/10/02	Scale 1:200
New Dwelling		
Drawing No. 02234	RevNo	S4 of 4



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ATTN: ROLF WASS

RE. DC021933 - LOT 28 HILLSIDE

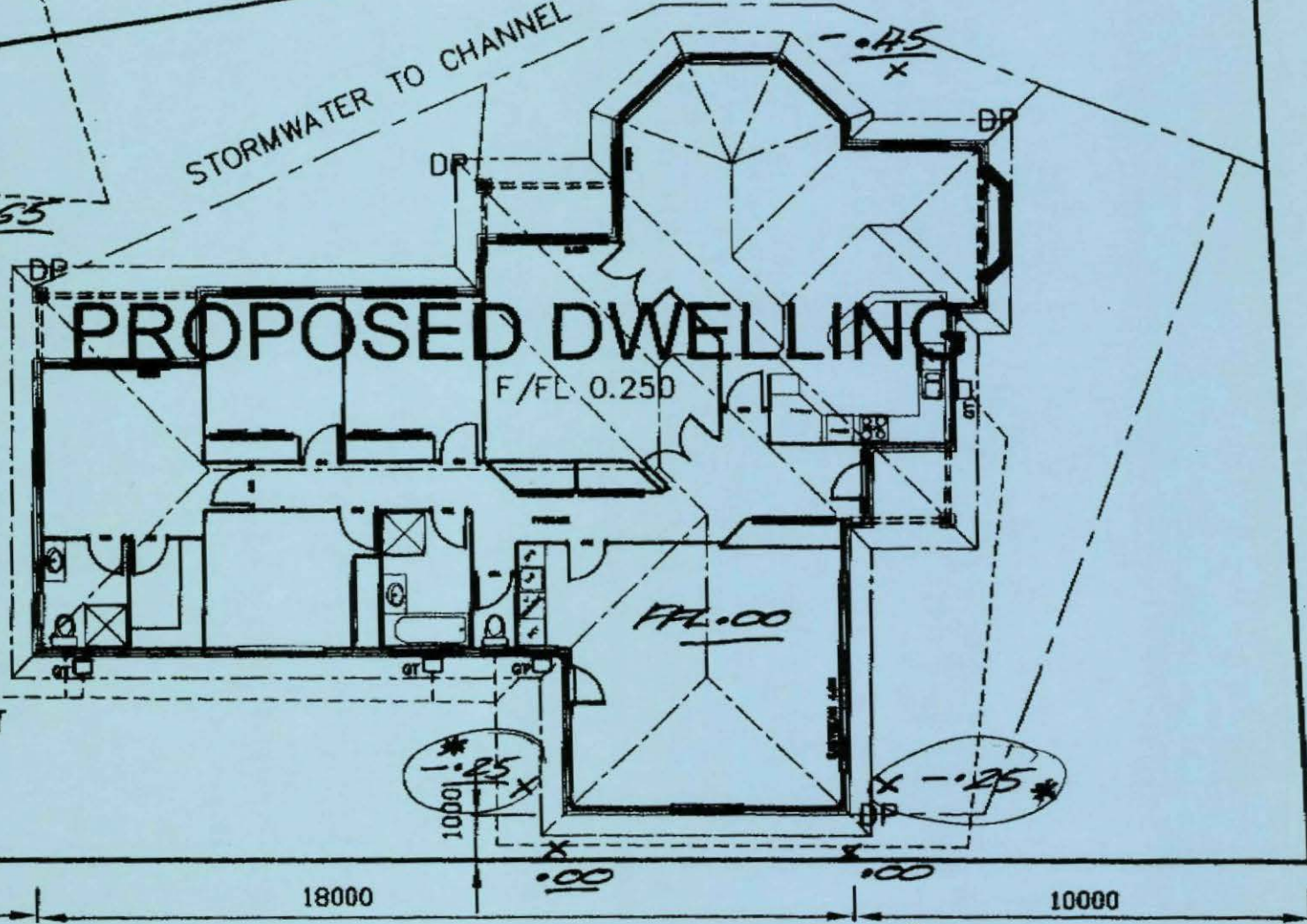
GROUND & FINISHED FLOOR LEVELS  
AS REQUESTED.

-0.8  
X EASEMENT

LOT 28  
836M2

STORMWATER TO CHANNEL

-0.65  
X



BOUNDARY

LATERALS TO

\* NOTE! - SITE TO BE  
EXCAVATED .25  
BELOW EXISTING



**Table 8.18 – Fixing of top plate of wall to supporting members such as studs and lintels at 600 mm centres (see 8.7.6)**

Loaded dimension of wall (m)	Light roof								Heavy roof			
	Truss spacing (mm)											
	900				1200				900			
	Wind zone				Wind zone				Wind zone			
	L	M	H	VH	L	M	H	VH	L	M	H	VH
3.0	B	B	B	C	B	B	B	C	A	A	B	B
3.5	B	B	B	C	B	B	B	C	A	A	B	B
4.0	B	B	C	C	B	B	C	C	A	A	B	C
4.5	B	B	C	C	B	B	C	C	A	A	B	C
5.0	B	B	C	D	B	B	C	D	A	A	B	C
5.5	B	B	C	D	B	B	C	D	A	A	B	C
6.0	B	B	C	D	B	B	C	D	A	B	B	C

Fixing type	Fixing to resist uplift	Capacity of alternative fixing (kN)
A	2/100 x 3.75 skewed nails	0.7
B	2/100 x 3.75 skewed nails + 1 wire dog	2.7
C	2/100 x 3.75 skewed nails + 2 wire dogs	4.7
D	2/100 x 3.75 skewed nails + 3 wire dogs	6.7

**8.7.6 Connection of plates to studs**

The fixing of top plates supporting roof trusses to wall studs or lintels shall be in accordance with table 8.18 (see figure 8.12).

**C8.7.6**

Each additional fixing required should be as close as possible to a truss.

**8.8 Dwangs and walings****8.8.1**

Dwangs, walings, and metal angle walings, where required by 8.5.4, shall be spaced at not more than 1350 mm centre-to-centre and shall be of not less than the following dimensions:

- (a) Dwangs: 50 mm x 50 mm or 75 mm x 40 mm;
- (b) Walings: 75 mm x 25 mm;
- (c) Metal angle walings: 22 mm x 22 mm x 1.2 mm angle.

**8.8.2**

Dwangs for the support of cladding or lining shall be flush with the face of studs.

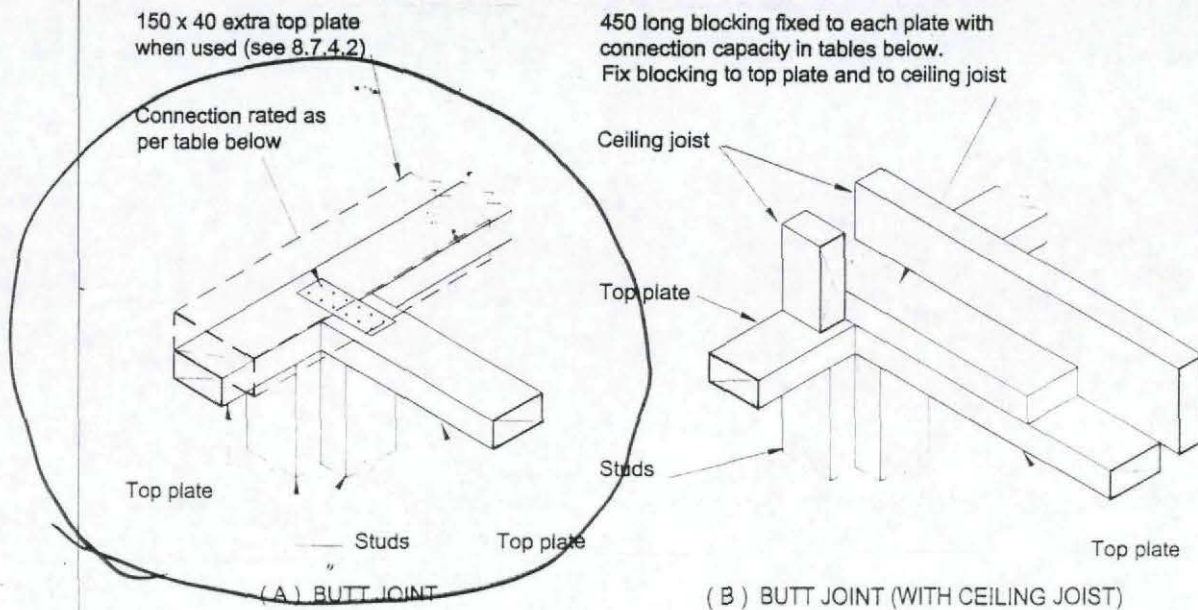
**8.8.3**

Walings may be butt jointed on a stud anywhere along their length with the fixings required by table 8.19 on both sides of the butt joint.

**C8.8.1**

Dwangs may be staggered either side of a horizontal straight line by a centre-to-centre distance not exceeding 300 mm.





Capacities of metal plate joints

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

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.

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

**8.7.3.2**

Joints in the *top plate* of a wall that does not contain any *wall bracing elements* (either in line or at wall intersections), shall be halved and nailed at the joints, see figure 8.14(A), or be butted over *blocking* and nailed, see figure 8.14(B), or be provided with an alternative fixing, having a capacity in tension or compression of 3 kN.

**8.7.3.3**

For single storey buildings the connection in line of the *top plate* of a wall that contains one or more *wall bracing elements* shall be jointed according to the *bracing capacity* of the highest-rated individual *wall bracing elements* as follows:

- Bracing capacity* not exceeding 100 *bracing units*:  
A 3 kN connection as shown in figure 8.15 or by an alternative fixing of 3 kN *capacity* tension or compression along the plate;
- Bracing capacity* exceeding 100 *bracing units*:  
A 6 kN connection as shown in figure 8.15 or by an alternative fixing of 6 kN *capacity* tension or compression along the plate.

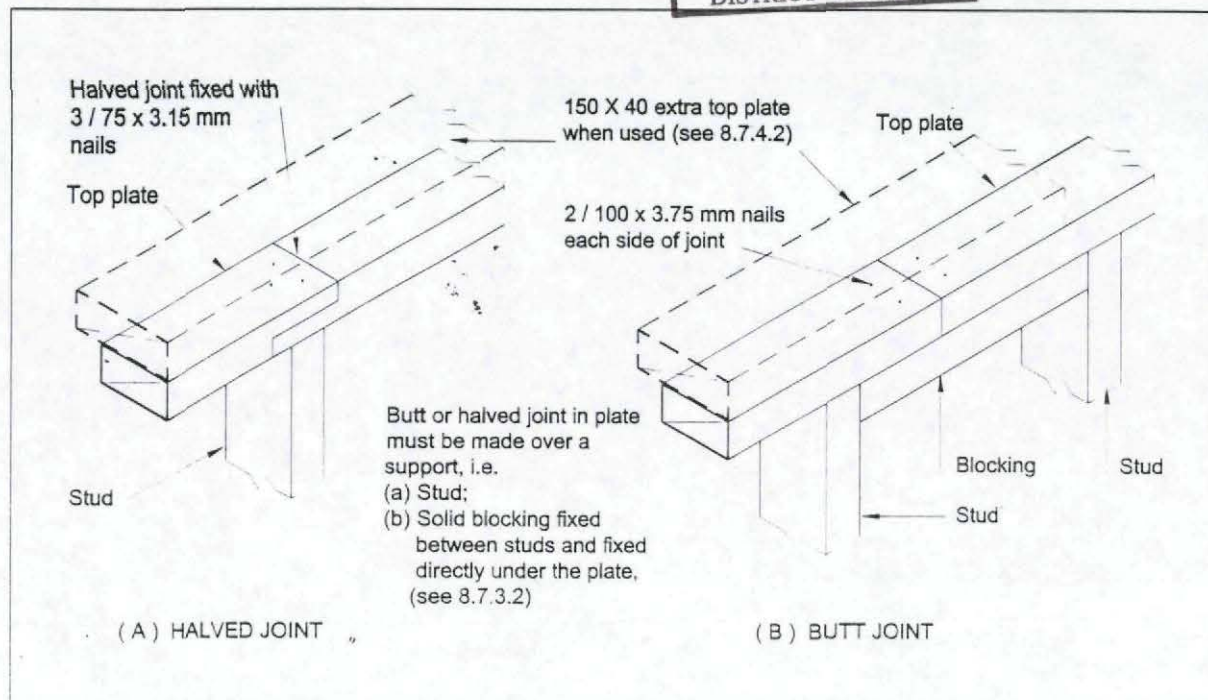


Figure 8.14 – Connecting top plates – Walls not containing bracing (see 8.7.3.2)

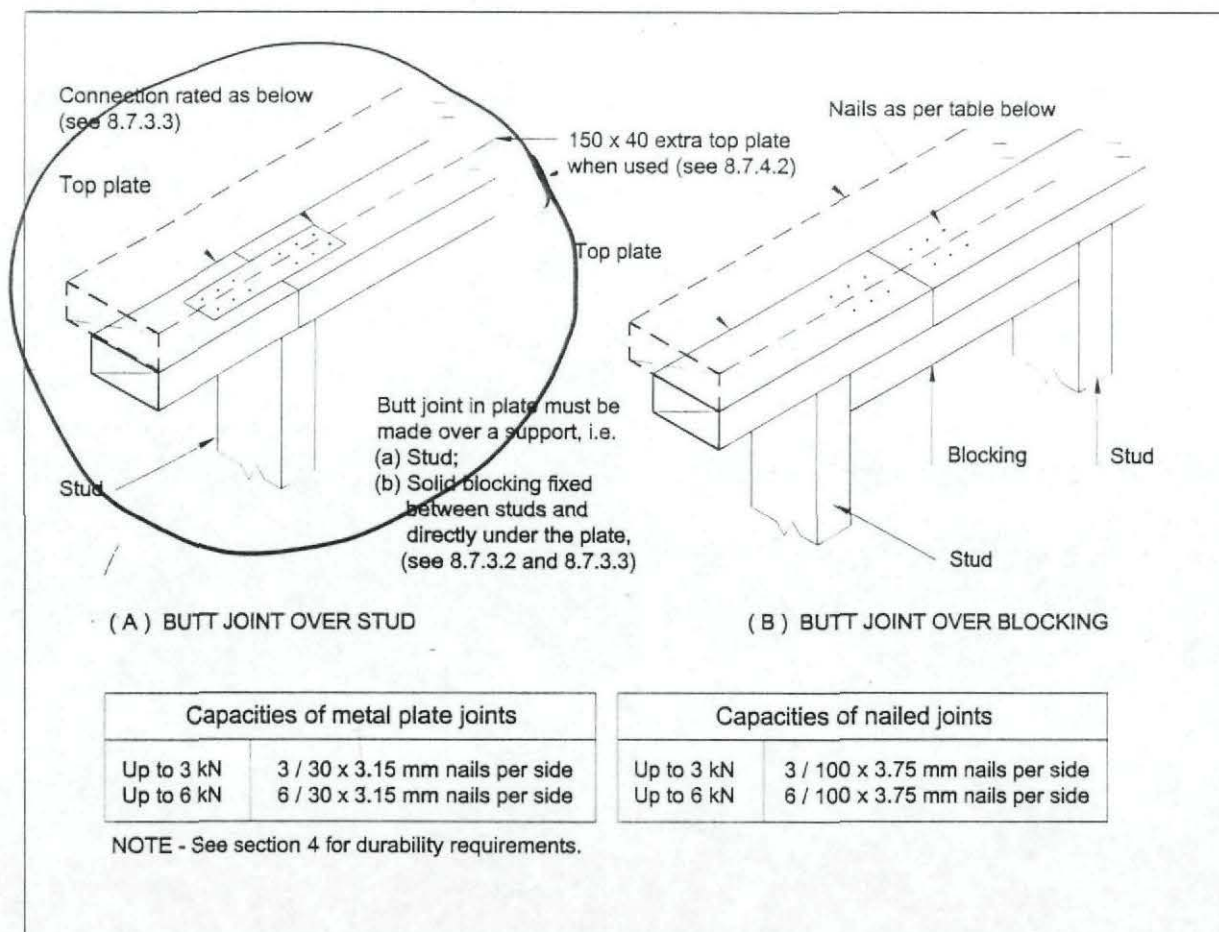


Figure 8.15 – Connecting top plates in line – Walls containing bracing (see 8.7.3.3)



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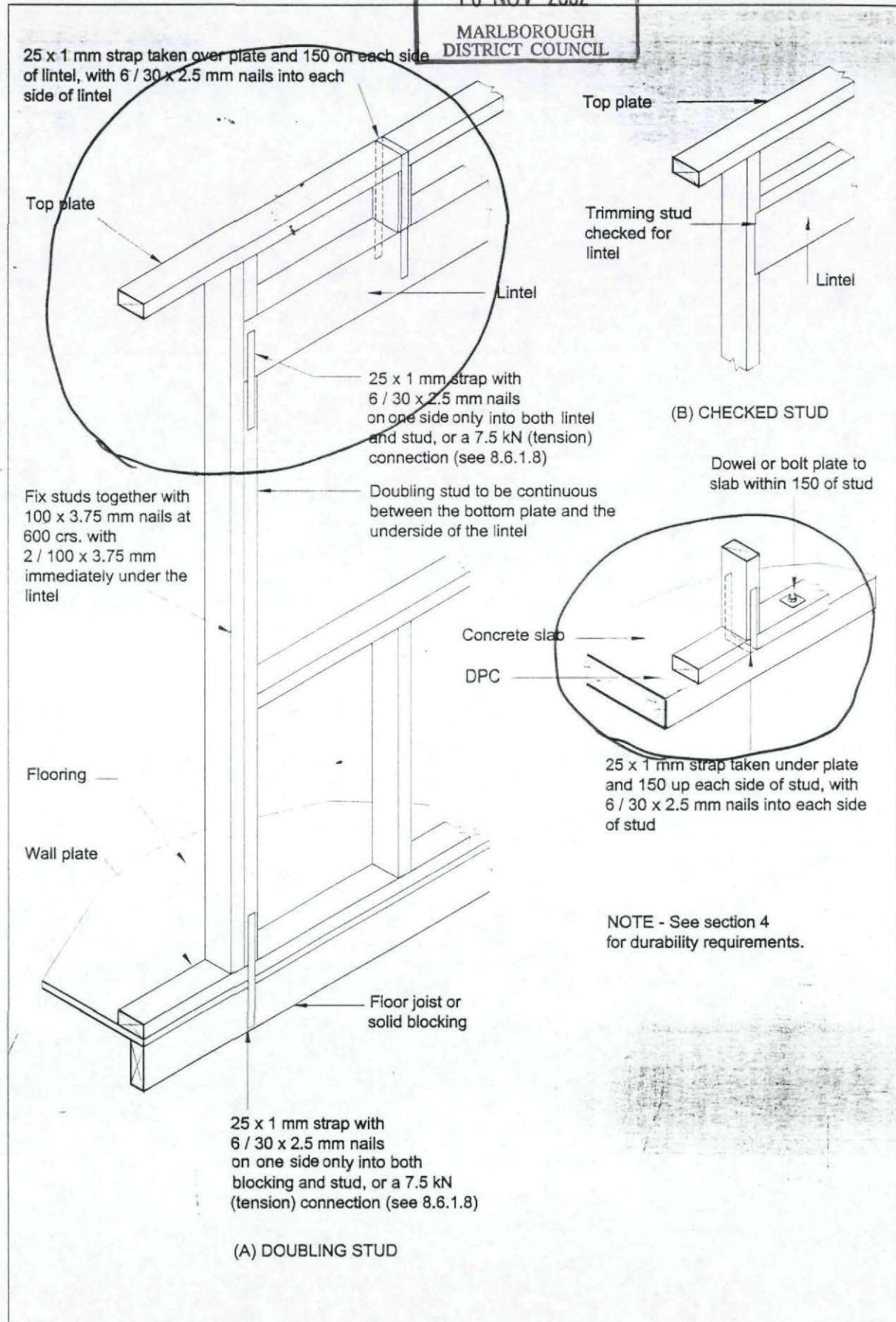
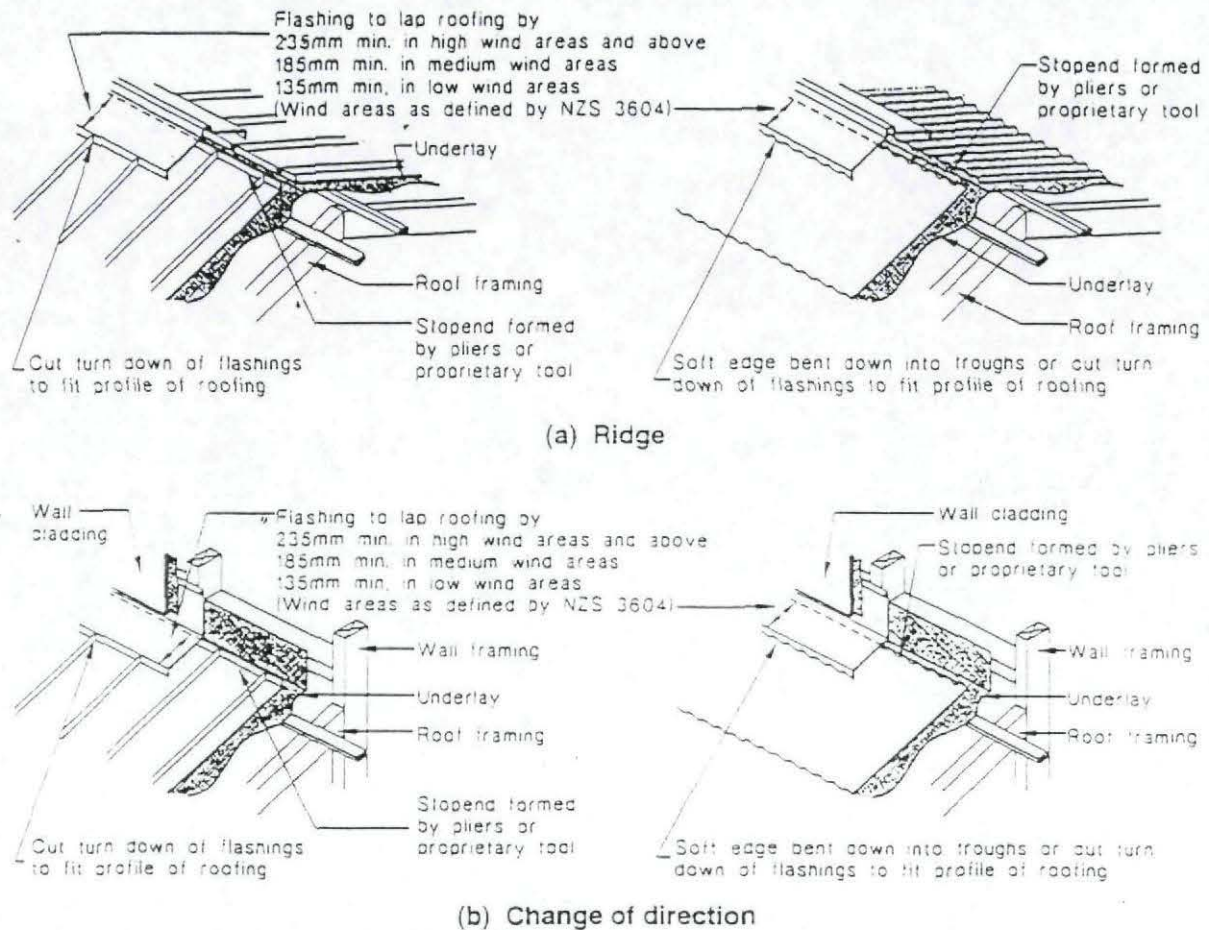
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Figure 8.12 - Fixing of lintels to prevent uplift (see 8.6.1.8 and tables 8.14(A) and (B))



**Figure 1: Flashings and stopends for metal profile roofing**  
Paragraph 1.3.3



**Note:** These details are to be used when there are no installation methods given in the relevant Standard in Table 2 or there are no manufacturer's instructions (see Paragraph 1.3.2).

- b) Have a surface absorptency greater than  $100 \text{ g/m}^2$  (underlays complying with NZS 2295 meet this requirement),
- c) Have a vapour transmission resistance of no more than  $7 \text{ MN s/g}$  (meganewton seconds per gram) measured using ASTM E96 procedure B or BW, and
- d) Be installed in a manner which prevents ponding of water by:
  - i) allowing self-supporting underlay to span no more than 1200 mm in one direction, or
  - ii) allowing underlay which is not self-supporting to span no more than 300 mm in one direction unless supported by corrosion-resistant material, (polypropylene packing tape, nylon string, galvanised wire or wire netting are examples which satisfy this requirement), and
  - iii) installing anti-ponding boards at the bottom edge of tile roofs with less than  $15^\circ$  pitch.



**BRACING SHEET 1****NAME: BLAIN****ADDRESS: HILLSIDE TERRACE**

Storey: ☒ Single or Uppermost  
☐ Lower of Two or Middle of Three  
☐ Lower of Three

**PLAN NO.02234**

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Roof Pitch: ☐ 0/25  
☒ 26/45  
☐ 46/60

Roof Type ☒ Light  
☐ Heavy

Wind Area: ☒ High ☐ Med ☐ Low

(Width) W = 78 B.U.'s

(Length) L = 78 B.U.'s

Earthquake Zone ☒ A ☐ B ☐ C

E = 5.6 B.U.'s

**Calculation:**

Roof or Building Length B.L. = 22.0 m

Roof or Building Width: B.W. = 18.2 m

Gross Roof or Building Plan Area G.P.A. = 215 m<sup>2</sup>

Earthquake: B.U.'s E x GPA 5.6 x 215 = 1204 B.U.'s

Wind: B.U.'s ALONG W x BW 78 x 18.2 = 1419 B.U.'s

Wind: B.U.'s ACROSS L. x BL 78 x 22.0 = 1716 B.U.'s

**BRACING LEGEND:****B.U.S. provided along** 1809


Gib 1 Type of Brace

2.4 Length of Brace

180 Bracing Units

**B.U.S. provided across** 2197

Wall for Brace to be positions



## ALONG

## BRACING SHEET B

## ACROSS

1	Wall or Bracing Line		Wall Bracing Elements Provided					1	Wall or Bracing Line		Wall Bracing Elements Provided				
	2	3	4	5	6	7	8		2	3	4	5	6	7	8
Total Bracing Units Required for this Storey	Line Label	Min. BU's Required	Bracing Element NO.	Type Table 20	Rating BU's Table 20	Length of Element (m)	BU's achieved	Total Bracing Units required for this storey	Line Label	Min. BU's Required	Bracing Element NO.	Type Table 20	Rating BU's Table 20	Length of Element (m)	BU's achieved
From Sheet A greater of earthquake or along wind			1	SP2G	95	.7	66	From Sheet A greater of earthquake or along wind			14	GIB 1	75	2.4	180
	A	80	2	SP2G	95	.7	66		M	65	15	SP1G	100	1.2	120
			3	SP1G	100	1.2	120				16	GIB 1	75	2.4	180
	B	70	4	SP2G	95	.6	57		N	70	17	GIB2	80	2.4	192
			5	GIB2	80	2.4	192				18	GIB2	80	2.4	192
	C	70	6	GIB2	80	2.4	192		O	70	19	GIB2	80	2.4	192
			7	GIB2	80	2.4	192								
			8	GIB2	80	2.4	192				20	GIB2	80	2.4	192
	D	70	9	GIB2	80	2.4	192		P	70	21	GIB2	80	2.4	192
											22	GIB 1	75	2.4	180
			10	GIB 1	75	2.4	180				23	GIB2	80	2.4	192
	E	116	11	SP1G	100	1.2	120		Q	70					
			12	SP1G	100	1.2	120				24	SP2G	95	.6	57
	F	64	13	SP1G	100	1.2	120		R	70	25	SP1G	100	1.0	100
												SP2G	95	.6	57
											26	SP2G	95	.6	57
									S	92	27	SP2G	95	.6	57
											28	SP2G	95	.6	57
1419	TOTAL				1809			1716	TOTAL				2197		

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DISTRICT COUNCIL



BC021933

## CARTERS Blenheim

Page: ProdSt - 1

Job: QC201023

Client: Fowler Construction

Site: T and J Blain

Phone:

Description:

Phone:

MiTek 2000 2.100 g6f

Gang Nail Group Ltd.

Thu Nov 14 09:52:53 2002

**PRODUCER STATEMENT**  
**MiTek 2000(tm) ROOF TRUSS DESIGN**

**Certification of MiTek 2000(tm) Design Program**

The MiTek 2000(tm) roof truss design program has been developed by Gang-Nail Group Ltd for the design of Gang-Nail timber roof trusses in New Zealand. The truss designs computed by this program are prepared using sound and widely accepted engineering principles, and in accordance with NZS 4203, NZS 3603 and NZS 3604 as verification methods and acceptable solutions of the approved documents issued by the Building Industry Authority to satisfy the requirements of Clause B1:Structure of the Building Regulations 1992. This computer design for the proposed building complies with the relevant provisions of the NZ Building Code. This is subject to all proprietary products meeting their performance specification requirements, the provision of adequate bracing, fixings and the correct input of design data carried out by suitably trained personnel.

**Summary of MiTek 2000(tm) Design Data and Output**

The MiTek 2000(tm) computer design output for this job titled and located at the site identified on the top of this page is based on the following parameters entered into the program. The owner must ensure that the following job details below are current and relevant to the project before fabrication and erection of the Gang-Nail trusses.

**Job Details**

Roof Pitch:	28.00 deg	Timber Inventory:	Default	Building Wind Zone:	Medium
Roof Material:	Metal Tiles	Ceiling Material:	Standard	Design Wind Speed:	37.0 m/s
TC Dead Load:	0.210 kPa	BC Dead Load:	0.200 kPa	Pressure Coefficient:	Cpe = -0.9
TC Restraints:	400 mm centres	BC Restraints:	400 mm centres		Cpi = 0.3
Roof Live Load:	Lu = 0.250 kPa	Truss Spacing:	900 mm		
	Lc = 1.0 kN	Standard Overhang:	600 mm		

These trusses must be fabricated and erected in accordance with the Gang-Nail manual. Proper erection bracing must be installed to hold the components true and plumb and in a safe condition until permanent bracing is fixed. All permanent bracing and fixing must be installed before any loads are applied. The specifications for timber shall be as shown on the output. The timber shall be standard gauged and treated to the requirements of NZMP 3640.

**Truss List**

Legend: \*: detail only, ?: input only, Fxx: failed design, Unmarked trusses: designed successfully

Truss	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Span (mm)	Pitch (deg)	Spacing (mm)
F01	628	0.00	900	J06A	1216	28.00	900	T02	8060	28.00	818
F01A	628	0.00	900	J07	2238	28.00	900	T03	8060	28.00	818
J01	3106	28.00	900	J07A	2238	28.00	900	T04	6080	28.00	900
J01A	3106	28.00	900	J07B	2238	28.00	900	T04A	6080	28.00	900
J01B	3106	28.00	900	J07C	2238	28.00	900	T05	8060	28.00	900
J01C	3106	28.00	900	J07D	2238	28.00	900	T06	8060	28.00	791
J01D	3106	28.00	900	J07E	2238	28.00	900	T06A	8060	28.00	791
J01E	3106	28.00	900	J07F	2238	28.00	900	T07	7961	28.00	900
J01F	3106	28.00	900	J08	1120	28.00	900	T08	4981	28.00	900
J01G	3106	28.00	900	J08A	1120	28.00	900	T09	2467	28.00	900
J01H	3106	28.00	900	J09	1338	28.00	900	T10	2339	26.16	900
J01I	3106	28.00	900	J09A	1338	28.00	900	T10A	2339	26.16	900
J01J	3040	28.00	900	J10	2406	28.00	900	T10B	2339	26.16	900
J02	2206	28.00	900	J10A	2406	28.00	900	T10C	2339	26.16	900
J02A	2206	28.00	900	J11	3306	28.00	900	T11	10245	28.00	900
J02B	2206	28.00	900	J12	1506	28.00	900	T12	3580	28.00	900
J02C	2206	28.00	900	J12A	1506	28.00	900	TG01	8060	28.00	900
J03	1306	28.00	900	J13	2143	28.00	900	TG02	8060	28.00	900
J03A	1306	28.00	900	J14	2787	28.00	900	TG03	8460	28.00	900
J03B	1306	28.00	900	J14A	2787	28.00	900	V01	2610	28.00	900
J03C	1306	28.00	900	J14B	2787	28.00	900	V02	1834	28.00	900
J04	3016	28.00	900	J14C	2787	28.00	900	V03	1817	28.00	900
J04A	3016	28.00	900	J15	2787	28.00	893	V04	475	28.00	900
J04B	3016	28.00	900	J16	1766	28.00	900	V05	2262	28.00	900
J05	2116	28.00	900	J16A	1766	28.00	900	V06	1369	28.00	900
J05A	2116	28.00	900	J16B	1766	28.00	900	V07	2205	28.00	900
J05B	2116	28.00	900	J17	866	28.00	900	V08	2140	28.00	900
J05C	2116	28.00	900	J17A	866	28.00	900	V09	1240	28.00	900
J06	1216	28.00	900	T01	8060	28.00	900	V10	2143	28.00	900

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18 NOV 2002

MARLBOROUGH  
DISTRICT COUNCIL

Job: QC201023 Client: Fowler Construction Site: T and J Blain  
Phone:

Description:

Phone:

MiTek 2000 2.100 g6f

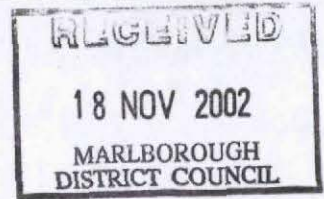
Gang Nail Group Ltd.

Thu Nov 14 09:52:53 2002

The computer design input has been carried out by:

Signed: 

Date: 14/11/02



Name of Computer Operator: .....

Qualifications and Title: .....

Company: CARTERS Blenheim

**Verification / Acceptance of Input Data:**

I have checked the input data against the construction drawings and specifications and verify that they are correct and suitable for this job.

Signed: .....

Date: .....

Name: .....

Company: .....



# CARTERS Blenheim

Burleigh Industrial Estate BLENHEIM	Name: Fowler Construction Address: T and J Blain	Description:
Telephone: (03) 5775344 Fax: (03) 5775322	Telephone:	Job: QC201023
Scale: 1 : 100		Date: 21/10/2001 Drawn By: RPT

## Job Details:

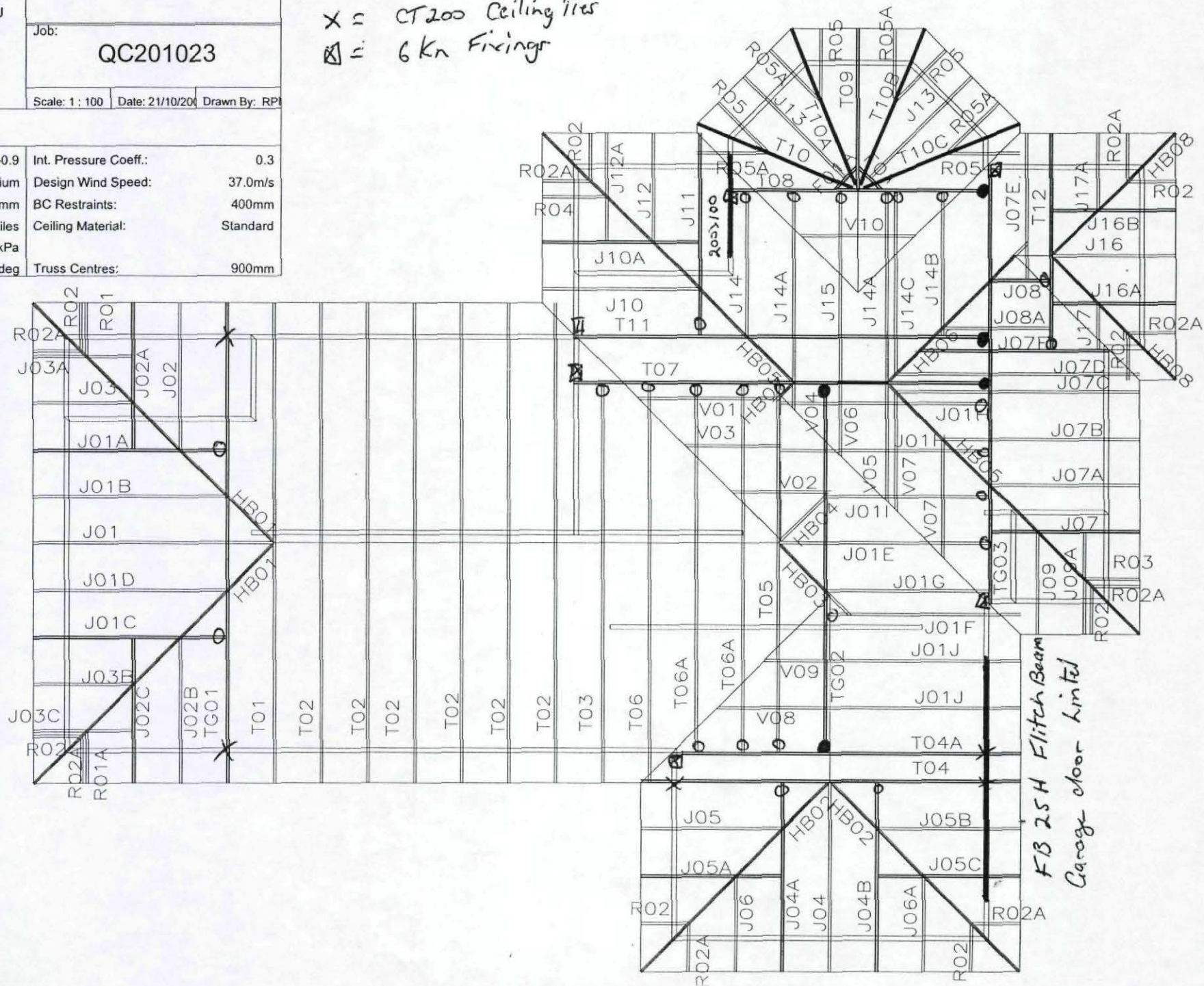
Ext. Pressure Coeff.:	-0.9	Int. Pressure Coeff.:	0.3
Wind Area:	Medium	Design Wind Speed:	37.0m/s
TC Restraints:	400mm	BC Restraints:	400mm
Roof Material:	Metal Tiles	Ceiling Material:	Standard
Roof Live Load:	0.250kPa		
Roof Pitch:	28.00deg	Truss Centres:	900mm

- = 94x47 Joist hangers
- = 120x47 Joist hangers
- X = CT200 Ceiling ties
- ⊠ = 6 Kn Fixings

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**BRACING SHEET 1****NAME: BLAIN****ADDRESS: HILLSIDE TERRACE**

Storey: ☒ Single or Uppermost  
☐ Lower of Two or Middle of Three  
☐ Lower of Three

**PLAN NO.02234****18 NOV 2002****MARLBOROUGH  
DISTRICT COUNCIL**

Roof Pitch: ☐ 0/25  
☒ 26/45  
☐ 46/60

Roof Type ☒ Light  
☐ Heavy

Wind Area: ☒ High ☐ Med ☐ Low  
(Width) W = 78 B.U.'s  
(Length) L = 78 B.U.'s

Earthquake Zone ☒ A ☐ B ☐ C  
E = 5.6 B.U.'s

**Calculation:**


Roof or Building Length	B.L. =	22.0	m	
Roof or Building Width:	B.W. =	18.2	m	
Gross Roof or Building Plan Area	G.P.A. =	215	m <sup>2</sup>	
Earthquake: B.U.'s	E x GPA	5.6	x 215	= 1204 B.U.'s
Wind: B.U.'s ALONG	W x BW	78	x 18.2	= 1419 B.U.'s
Wind: B.U.'s ACROSS	L. x BL	78	x 22.0	= 1716 B.U.'s

**BRACING LEGEND:****B.U.S. provided along** 1809

Gib 1 Type of Brace  
2.4 Length of Brace  
180 Bracing Units

**B.U.S. provided across** 2197

Wall for Brace to be positions





## ALONG

## BRACING SHEET B

## ACROSS

1	Wall or Bracing Line		Wall Bracing Elements Provided					1	Wall or Bracing Line		Wall Bracing Elements Provided				
	2	3	4	5	6	7	8		2	3	4	5	6	7	8
Total Bracing Units Required for this Storey	Line Label	Min. BU's Required	Bracing Element NO.	Type Table 20	Rating BU's Table 20	Length of Element (m)	BU's achieved	Total Bracing Units required for this storey	Line Label	Min. BU's Required	Bracing Element NO.	Type Table 20	Rating BU's Table 20	Length of Element (m)	BU's achieved
From Sheet A greater of earthquake or along wind			1	SP2G	95	.7	66	From Sheet A greater of earthquake or along wind			14	GIB 1	75	2.4	180
	A	80	2	SP2G	95	.7	66		M	65	15	SP1G	100	1.2	120
			3	SP1G	100	1.2	120				16	GIB 1	75	2.4	180
	B	70	4	SP2G	95	.6	57		N	70	17	GIB2	80	2.4	192
			5	GIB2	80	2.4	192				18	GIB2	80	2.4	192
	C	70	6	GIB2	80	2.4	192		O	70	19	GIB2	80	2.4	192
			7	GIB2	80	2.4	192								
			8	GIB2	80	2.4	192				20	GIB2	80	2.4	192
	D	70	9	GIB2	80	2.4	192		P	70	21	GIB2	80	2.4	192
											22	GIB 1	75	2.4	180
	E	116	10	GIB 1	75	2.4	180				23	GIB2	80	2.4	192
			11	SP1G	100	1.2	120		Q	70					
			12	SP1G	100	1.2	120				24	SP2G	95	.6	57
	F	64	13	SP1G	100	1.2	120		R	70	25	SP1G	100	1.0	100
												SP2G	95	.6	57
											26	SP2G	95	.6	57
									S	92	27	SP2G	95	.6	57
											28	SP2G	95	.6	57
1419	TOTAL				1809			1716	TOTAL				2197		

18 NOV 2002

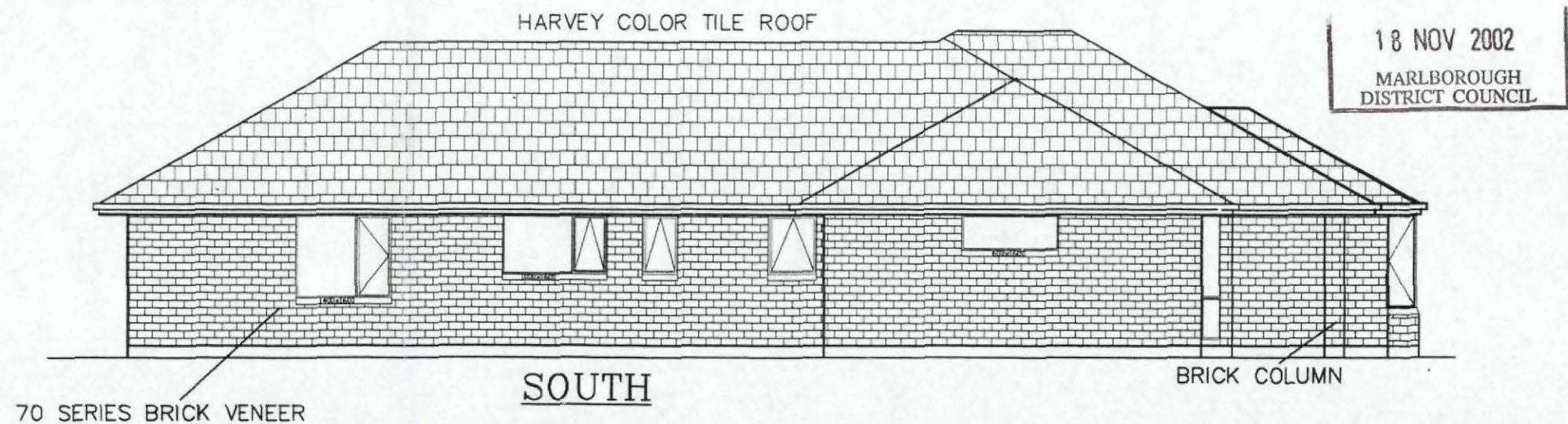
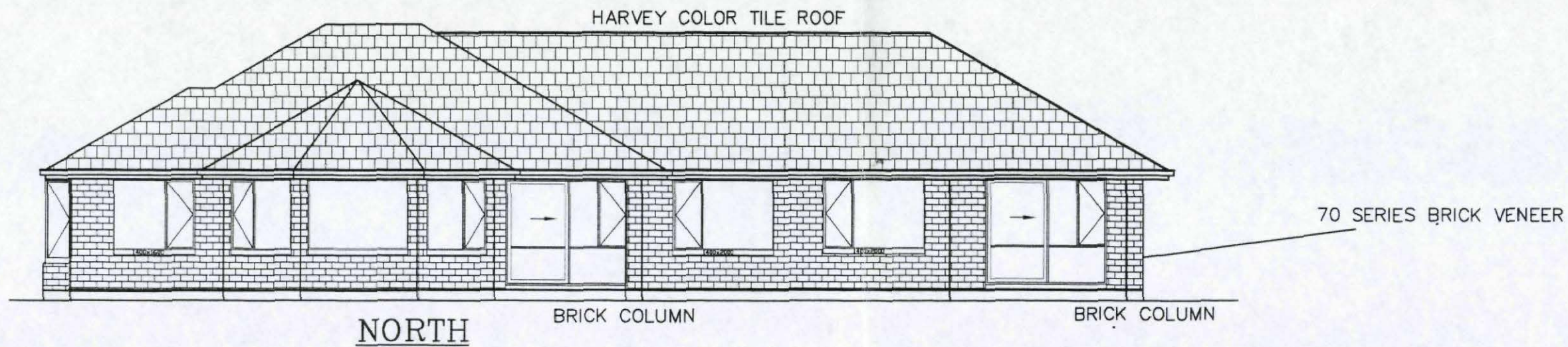
MARLBOROUGH DISTRICT COUNCIL



Designed by Merv Cronin - R2002.90	Date 8/10/02	Scale 1:100
New Dwelling		
Drawing No. 02234	RevNo	S1 of 4



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CRONIN  
DESIGN

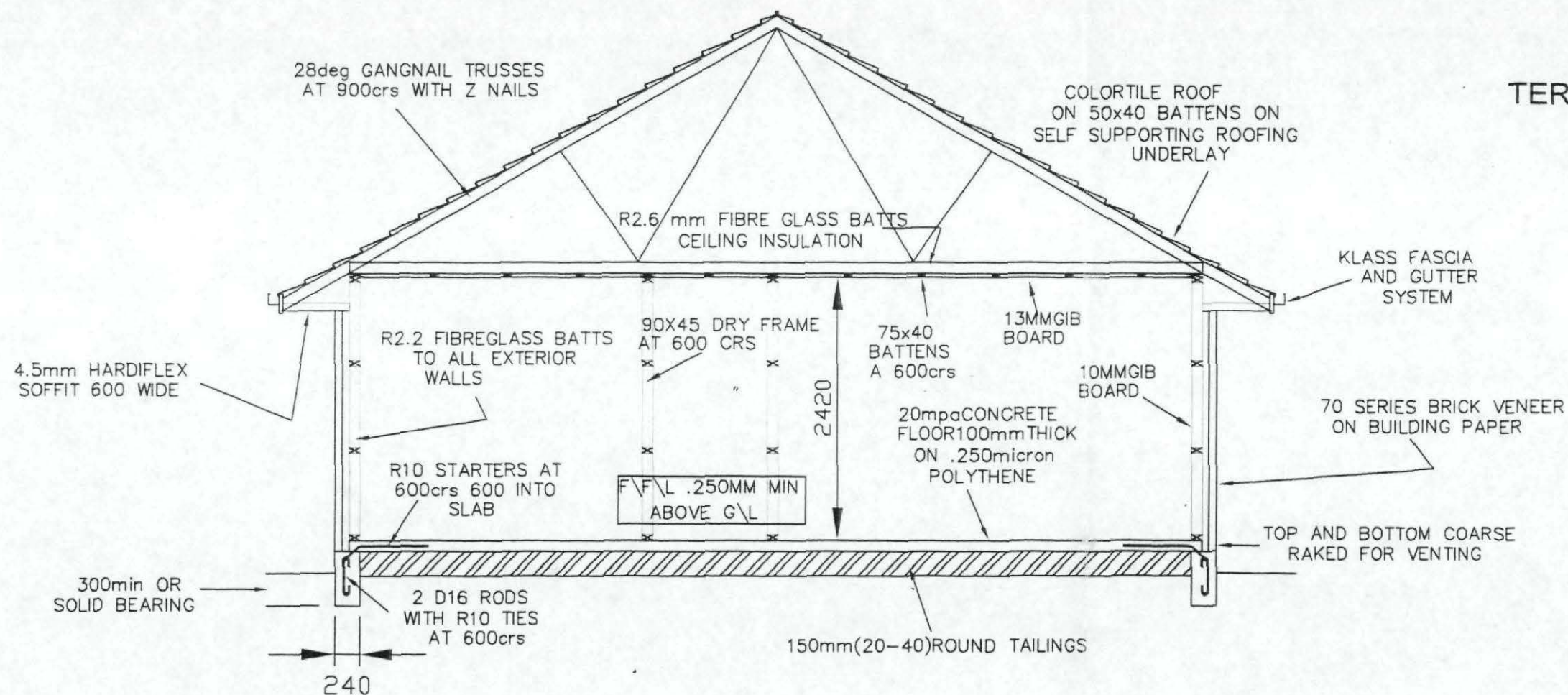
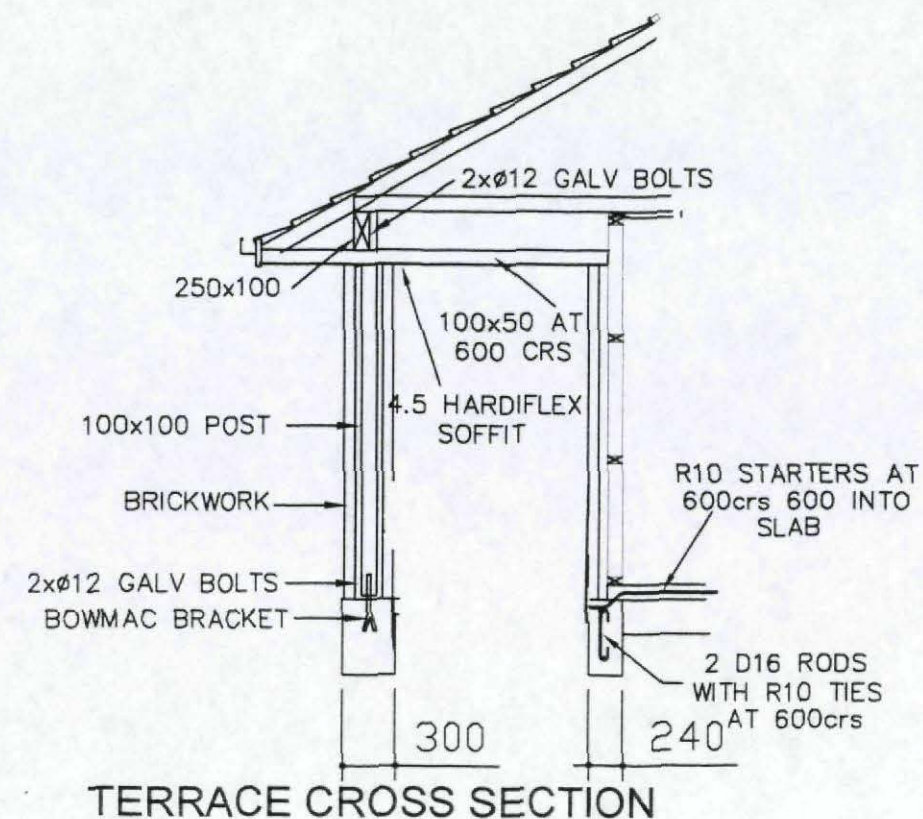
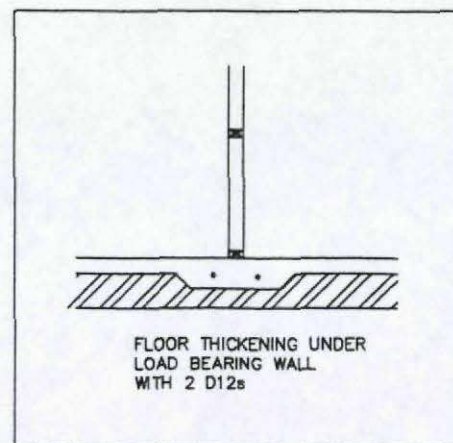
9 Print Place Christchurch  
Ph 03 3388394  
Fax 03 3383167  
cronin@extra.co.nz

Tony and Joanne Blain  
Lot 28 Hillside Terrace  
Blenheim

## Elevations

Designed by Merv Cronin - R2002.90	Date 8/10/02	Scale 1:100
New Dwelling		
Drawing No. 02234	RevNo	S2 of 4





18 NOV 2002  
MARLBOROUGH  
DISTRICT COUNCIL

#### NOTES

- ALL WORKMANSHIP TO BE OF BEST TRADESMAN LIKE MANNER
- ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED BEFORE ANY CONSTRUCTION COMMENCES.
- ALL WORK TO CONFORM TO NZ BUILDING CODE 1991.AND AMENDMENTS
- THESE PLANS TO BE READ IN CONJUNCTION WITH WRITTEN SPECIFICATIONS ATTACHED.

**CRONIN  
DESIGN**

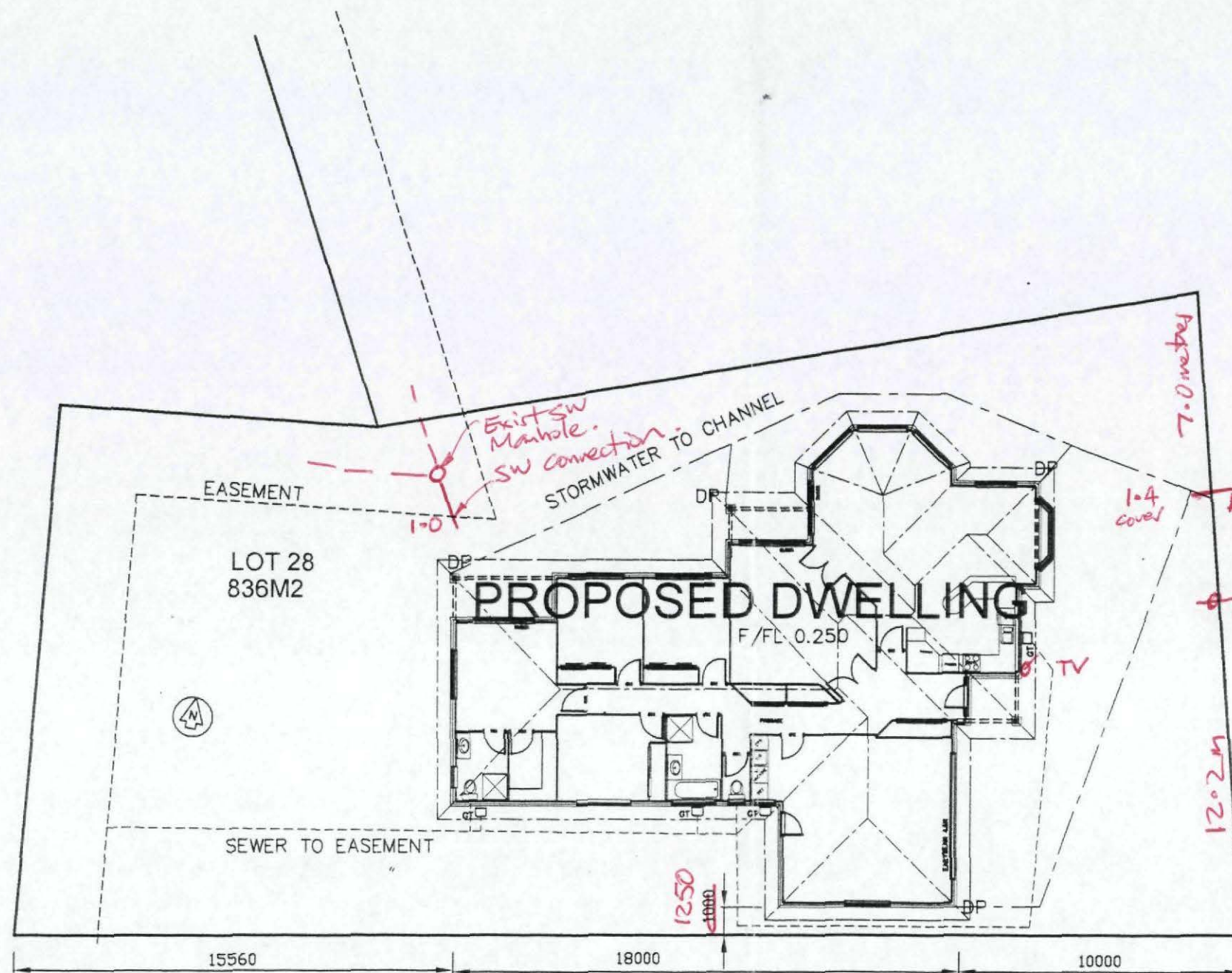
9 Print Place Christchurch  
Ph 03 3388394  
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cronin@extra.co.nz

**Tony and Joanne Blain**  
Lot 28 Hillside Terrace  
Blenheim

**Cross  
Sections**

Designed by Merv Cronin - R2002.90	Date 8/10/02	Scale 1:50
<b>New Dwelling</b>		
Drawing No. 02234		RevNo S3 of 4





Connect SW to main at rear of section.  
Sewer to lateral at front of section.

HILLSIDE TERRACE

Sewer connection  
Water connection

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**CRONIN  
DESIGN**

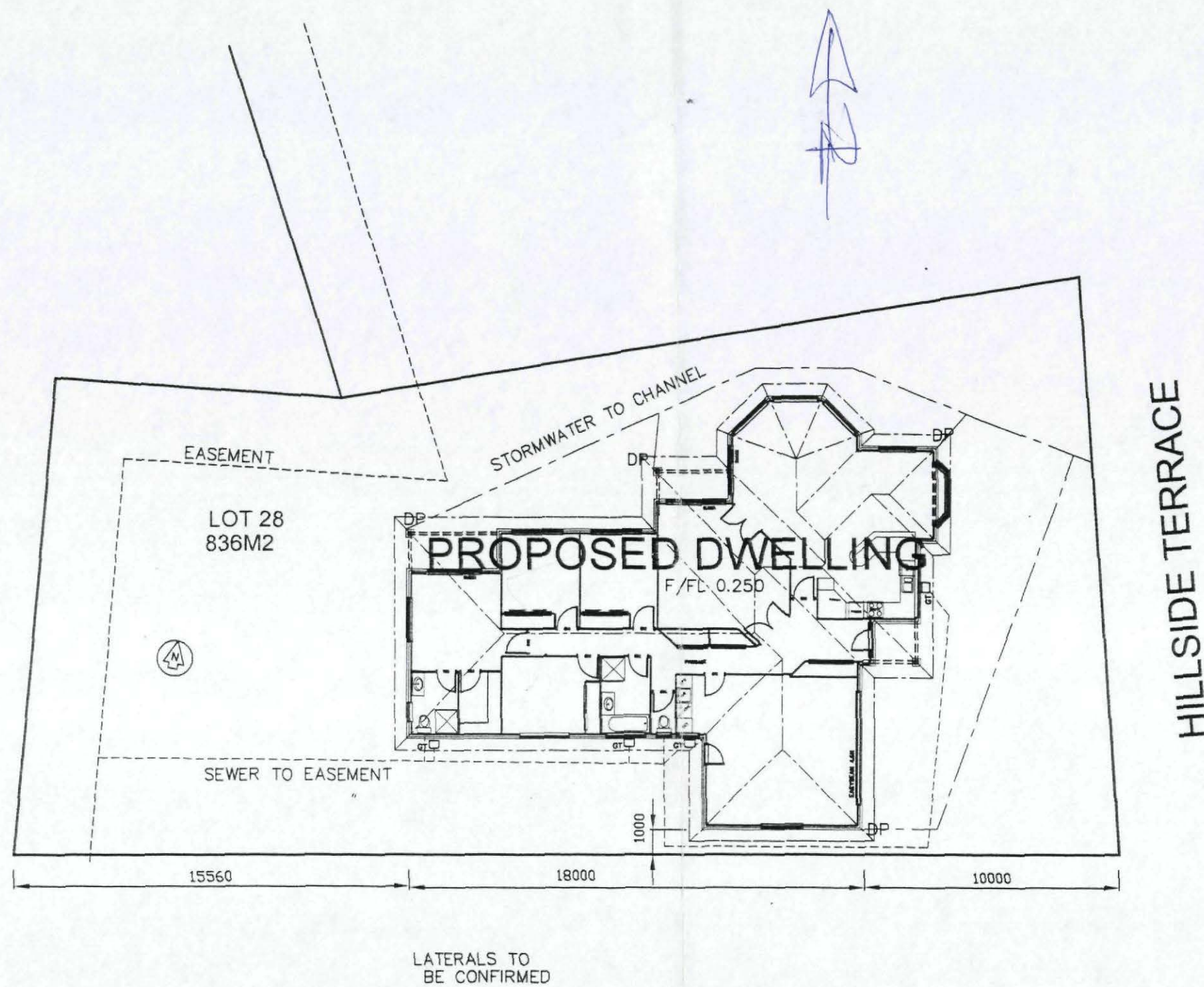
9 Print Place Christchurch  
Ph 03 3388394  
Fax 03 3383167  
cronin@extra.co.nz

**Tony and Joanne Blain**  
Lot 28 Hillside Terrace  
Blenheim

# Site Plan

Designed by Merv Cronin - R2002.90	Date 8/10/02	Scale 1:200
<b>New Dwelling</b>		
Drawing No. 02234	RevNo	S4 of 4





18 NOV 2002  
MARLBOROUGH  
DISTRICT COUNCIL

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**CRONIN  
DESIGN**

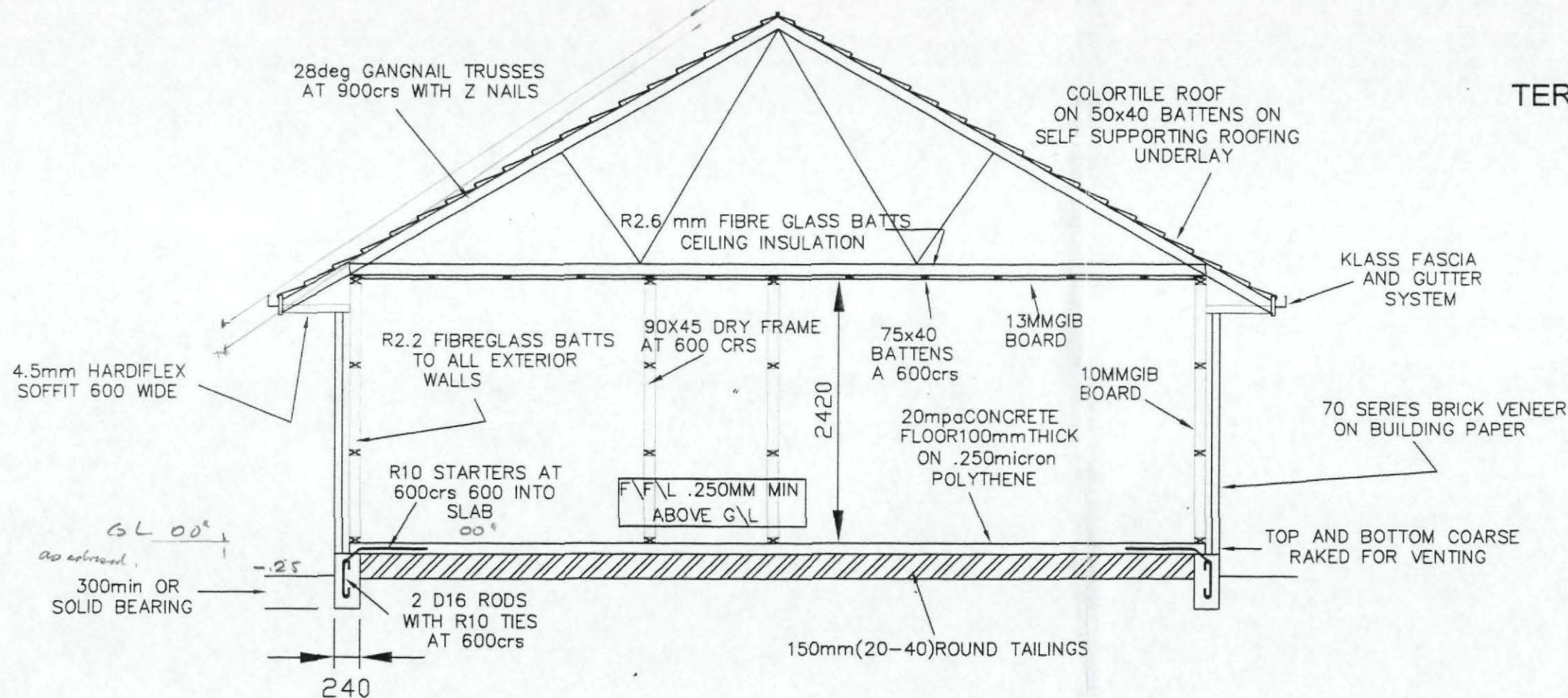
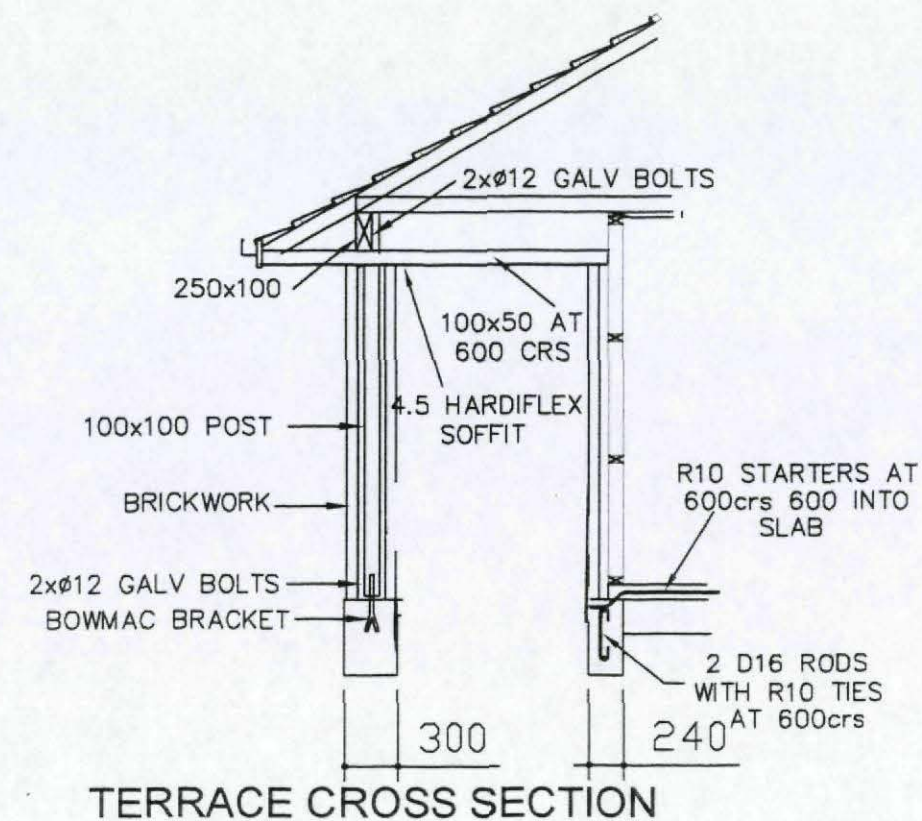
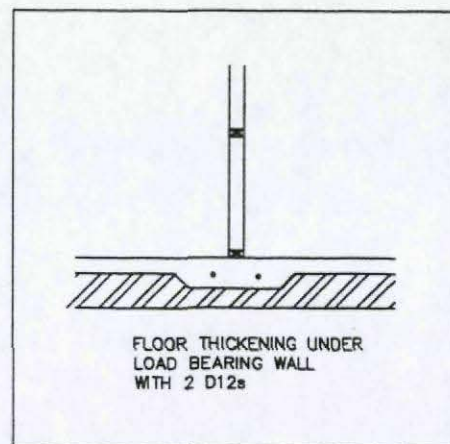
9 Print Place Christchurch  
Ph 03 3388394  
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cronin@extra.co.nz

**Tony and Joanne Blain**  
Lot 28 Hillside Terrace  
Blenheim

## Site Plan

Designed by Merv Cronin - R2002.90	Date 8/10/02	Scale 1:200
<b>New Dwelling</b>		
Drawing No. 02234		RevNo S4 of 4





18 NOV 2002  
MARLBOROUGH  
DISTRICT COUNCIL

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**Tony and Joanne Blain**  
Lot 28 Hillside Terrace  
Blenheim

**Cross  
Sections**

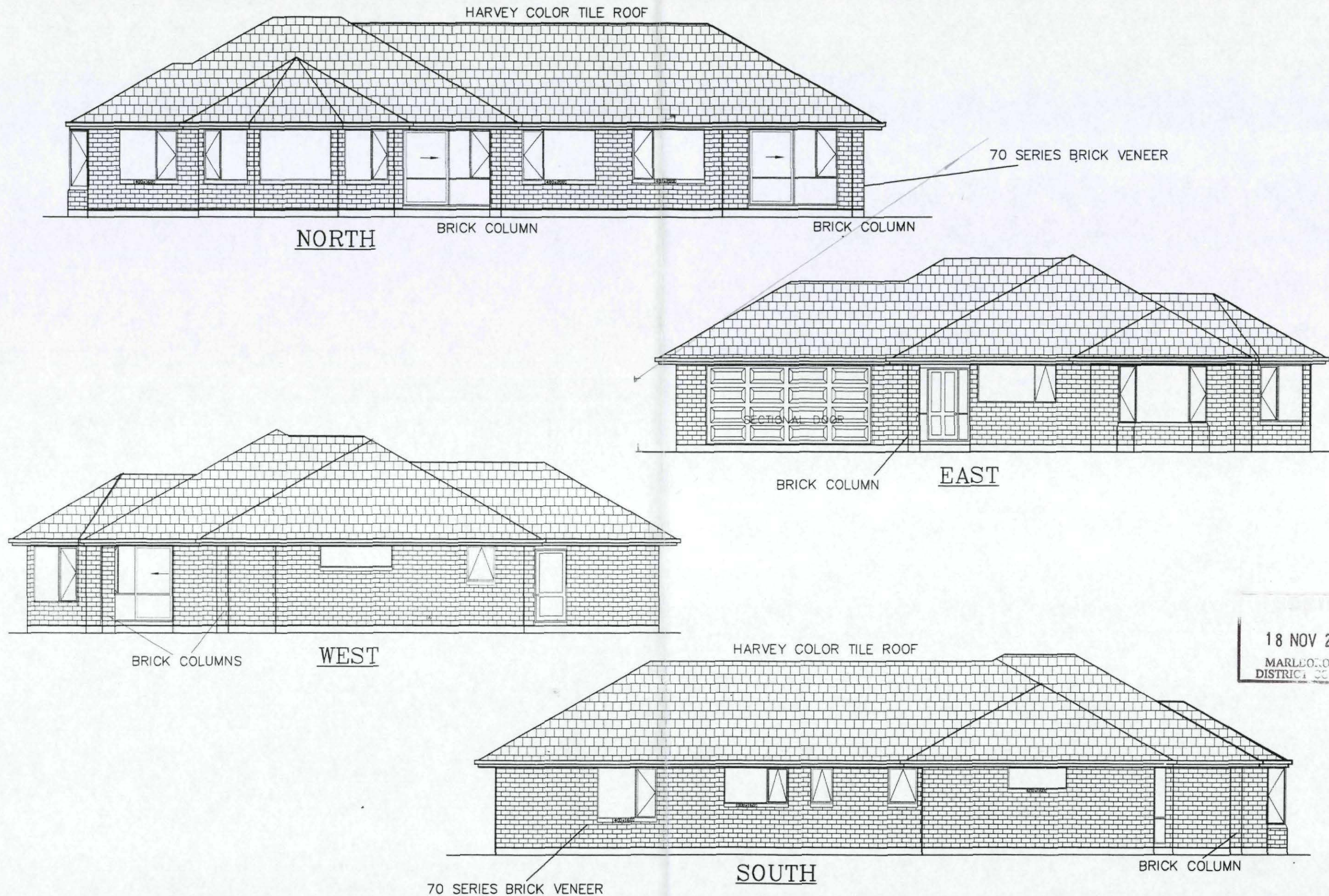
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<b>New Dwelling</b>		
Drawing No. 02234	RevNo S3 of 4	







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CRONIN  
DESIGN

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Tony and Joanne Blain  
Lot 28 Hillside Terrace  
Blenheim

## Elevations

Designed by  
Merv Cronin - R2002,90

Date  
8/10/02

Scale  
1:100

New Dwelling

Drawing No. 02234

RevNo S2 of 4



# CODE COMPLIANCE CERTIFICATE



MARLBOROUGH  
DISTRICT COUNCIL

**Section 95, BUILDING ACT 2004**  
**FORM 7**

ISO 9001  
Document Number:  
BCF0041-CI2767

Building Consent Number: BC240089

Property Number: 252545

## The Building

### Street Address of Building:

10 Hillside Terrace  
Blenheim

### Legal description of land where building is located:

LOT 28 DP 11017

### Building name:

### Location of building within site/block number:

### Level/unit number:

### Current, lawfully established, use:

Detached Dwellings

### Year first constructed:

UNKNOWN

### Maximum occupant number per level and per use *(if more than 1)*:

N/A



## The Owner

**Name of Owner(s):**

John Edward Miller & Temple Trustees Limited

**Contact Person:** *(If the owner is other than individual)***Mailing Address:**

10 Hillside Terrace  
Witherlea  
Blenheim

**Street Address/Registered Office:****Contact Details:**

Phone Number:

Landline: 03 577 8221

Mobile: 027 358 1669

Daytime: \_\_\_\_\_

After Hours: \_\_\_\_\_

Facsimile Number: \_\_\_\_\_

Email Address: JohnMiller5424@gmail.com

Website: \_\_\_\_\_

**First point of contact for communications with the building consent authority:**☐

Owner/Contact person *(details as listed above)*

☒

Other: *(State full name, mailing address, phone number(s), facsimile number(s) and email address(es))*

Full Name:	Heating Marlborough 2018 Limited
Contact Person	
Mailing Address:	
Phone Number(s):	
Facsimile Number(s):	
Email Address:	<a href="mailto:office@heatingmarlborough.co.nz">office@heatingmarlborough.co.nz</a>



## Building Work

**Building Consent Number:** BC240089

**Project Description:** Free-Standing Ravelli Dual 7 Pellet Fire

**Issued By:** Marlborough District Council

## Code Compliance

The Marlborough District Council is satisfied, on reasonable grounds, that—

[✓ tick applicable option(s)]

- ☒ (a) the building work complies with the building consent; and
- ☐ (b) the specified systems in the building are capable of performing to the performance standards set out in the building consent.

## Attachments

The following documents are attached to this Code Compliance Certificate

[✓ tick if applicable]

☐ Compliance schedule

Signature:



Position: Building Control Group Manager

On behalf of: Marlborough District Council

Date: 10 April 2025