Council Property Files

Disclaimer

This document has been obtained on behalf of the Vendor and copies have been made available to prospective Purchasers and interested parties for general information purposes only. However, neither the Vendor nor Bayleys in the North (Mackys Real Estate Limited), warrant the accuracy of this copy and they accept no liability for any errors or omissions in the report. It is recommended to all prospective Purchasers and interested parties that they obtain and reply on their own reports and make their own independent enquiries for due diligence purposes.





IN THE MATTER

of the Resource Management

Act 1991 ("the Act")

<u>A N D</u>

IN THE MATTER

of a subdivision consent as evidenced by Land Transfer Plan

No. 396361

A N D

IN THE MATTER

of a Consent Notice issued pursuant to Section 221 of the Act by <u>WHANGAREI DISTRICT COUNCIL</u> ("the Council")

<u>IT IS HEREBY CERTIFIED</u> that the following conditions to be complied with on a continuing basis by the subdividing owner and subsequent owners were imposed by the Council as conditions of approval for the subdivision as effected by Land Transfer Plan No. 396361 ("the plan")

Any development undertaken on the properties being lots 2 and 3 on the plan shall be done in accordance with the recommendations and restrictions specified in the site suitability engineering report compiled by Richardson Stevens Consultants (1996) Limited dated 10 September 2007, a copy of which is attached hereto, and in particular shall ensure that:

- foundations for all buildings will be specifically designed to take account
 of the ultimate bearing strength of the soil testing at less than 300kPa and
 the moderately expansive soils; and
- (ii) above ground tanks to provide temporary water storage off roofs installed to meet Council's requirement for attenuation to limit 1 in 5 ARI and 1 in 50 ARI storm peak run-offs to predevelopment flows with:
 - (a) the roof down pipes on buildings on each lot to flow into a tank with a minimum volume of 1600 litres;

- (b) the outlet orifice at the base of the tank must be 50mm in diameter to reduce the discharge to predevelopment levels; and
- (c) beyond the orifices the pipes will be 100mm diameter stormwater pipes at 1 in 100 minimum grade connected to the Council's reticulation system as shown on the plan attached to the engineering report.

<u>DATED</u> at Whangarei this

of // AC

2008

SIGNED for WHANGAREI DISTRICT COUNCIL pursuant to the authority of the Council given pursuant to the Local Government Act 2002 and the Resource Management Act 1991

Authorised Signatory



ACENZ

Email: engineers@richardsonstevens.co.nz



Grant Stevens
B.E., M.I.P.E.N.Z. (Civil, Structural)
Chartered Professional Engineer

Steve Turner

8.E., M.I.P.E.N.Z. (Civil, Structural)
Chartered Professional Engineer

CIVIL & STRUCTURAL ENGINEERS, 2 SEAVIEW RD, WHANGAREI. PH: 09 438 3273, FAX: 09 438 5734

File: 8352

10 September 2007

ENGINEERING REPORT

Proposed Subdivision Lots 6 and 7 DP37268

61/63 Raurimu Road Onerahi

Introduction

As assessment has been made of the above properties where it is-proposed to subdivide two lots into four lots.

An application for resource consent (subdivision) has been made (RC.No 40450) and a letter received from Whangarei District Council requesting an Engineering Suitability Report.

Site Description

The two lots are located on the south side of Raurimu Road, at the intersection with Cockburn Street. Lots 6 and 7 have areas of 1012m² and 1135m² respectively. Dwellings occupy both lots, situated towards the north end fronting Raurimu Avenue. The land slopes up towards the west from Cockburn Street with moderate slopes at the northern end and gentle slopes at the southern end.

Both lots have a garage immediately behind the house and are landscaped with lawns, gardens and scattered shrubs or trees.

Proposal

The proposal is to divide both lots approximately in half to create two additional lots at the southern end, for residential development. The proposal is shown on plan C2254 prepared by Beasley and Burgess surveyors, dated 2 July 2007.

Geology

The geological map of Whangarei Urban Area (Map 26) indicates this area is underlain by "Northern Allochthon"; Omahuta sandstone – calcareous, glauconitic sandstone and interbedded sandstone and mudstone; minor conglomerate".

Site Investigations

A walkover inspection was carried out by a Chartered Professional Engineer. A hand augered borehole was drilled at proposed Lot 3 and Scala penetrometer tests were carried out at proposed Lots 2 and 3 – refer to attached plan for site test locations.

The borehole revealed a hard pan layer at 0.3m depth, becoming plastic orange clay for the full depth of the hole (2.2m). Undrained shear strengths, measured with the Pilcon shear vane, ranged from 118kPa at 0.7m depth increasing to 200kPa at 1.4m depth. The Scala penetrometer tests indicate that the ground does not comply with NZS3604:1999; "good ground", thereby requiring specific foundation design by a Chartered Professional Engineer. The soils are judged to be moderately expansive.

Site Stability

The northern and southern half of the lots are zoned low and moderate stability hazard respectively, on Councils hazard maps.

No signs of instability were evident at the properties or in the surrounding area.

Based on the gentle slopes, firm soils encountered and our site observations we are satisfied that proposed Lots 2 and 3 are stable against landslip and therefore suitable for residential development.

Foundations

Specific design will be required for foundations to take account of the ultimate bearing strength of the soil testing at less than 300kPa and the moderately expansive soils.

Stormwater

Stormwater from proposed Lots 1 and 4 have existing connections to the Councils stormwater system. These lots include the existing houses.

At Lots 2 and 3 it is proposed to install above-ground tanks to provide temporary water storage off roofs to meet Councils requirement for attenuation to limit 1 in 5 ARI and 1 in 50 ARI storm peak runoffs to predevelopment flows. The roof down pipes at each lot must flow into a tank with a minimum volume of 1600 litres. The tank outlet orifice at the base must be 50mm diameter to reduce the discharge to predevelopment levels. Beyond the orifice the pipe will be 100mm diameter stormwater pipe at 1 in 100 minimum grade connected to the Whangarei District Council reticulation system, as shown on the attached plan.

Refer to attached calculations for stormwater attenuation.

Summary

Lots 6 and 7 DP 37268 are considered stable and suitable for subdivision into four lots subject to the above recommendations regarding foundation design and stormwater attenuation.

In terms of Section 106 of the Resource Management Act the land recommended for building development will not be subject to material damage by slippage.

Limitations

This report has been prepared solely for the benefit of our client and the Whangarei District Council. The comments in it are limited to the purpose stated in this report. No liability is accepted by Richardson Stevens Consultants (1996) Ltd in respect of its use by any other person and any other person who relies upon any matter contained in this report does so entirely at their own risk.

Recommendations and opinions in this report are based on data obtained as previously detailed. The nature and continuity of subsoil conditions away from the test locations are inferred and it should be appreciated that actual conditions could vary from those assumed.

If during excavation and construction conditions are encountered that differ from the inferred conditions on which the report has been based, the site should be examined by a suitably qualified engineer to determine if any modification of the design based upon this report is required.

Prepared by:

M J Beazley

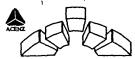
Senior Design Engineer

Approved by:

G R Stevens

Chartered Professional Engineer

Richardson Stevens Consultants (1996) Ltd



2 Seaview Road, Whangarei.
Ph. (09)4383273. Fax. (09) 4385734.
Email: engineers@richardsonstevens.co.nz
Co-ordinates:

Borehole no: HAND AUGER Drill size: 75mm Dated: 04/09/07 Em Ground datum level:

Nulai	dson Stevens Consultants (1996) Ltd CIVIL & STRUCTURAL ENGINEERS	Nm Job no: 8352					
Pro	ect: Hattingh						
Loc	tion: Proposed Lot 3, Raurimu Ave, Onerahi	mm)	TYPE	UNDRAINED SHEAR STRENGTH (KPa)		% L7	OTHER TESTING
SYMBOL	STRATA DESCRIPTION	DEPTH (mm)	SAMPLE TYPE	Vane readings corrected of GEO 167 GEO 200 R	091 091	WATER	AND COMMENTS (UNDISTRUBED /REDIOULDED)
	Topsoil	_ _ 200					_
	Weathered Clay pan hard	-					-
	Plastic orange day massive structure	400					 -
	riasuc utange day massive suucune	-					
		600					Su=118kPa
		800					Rm=51kPa
	Mottled white	-	1				 -
		-1000					-
		-	1				— Su≈155kPa Rm=51kPa
		1200					
	:	1400					Su=237+kPa
		_	1		###		 -
		1600			110		Su=216kPa
		-					Rm=68kPa
		1800					
		2000					Su=196kPa
		_2000					Rm=101kPa
	PODE FAIDS AT 2.2m NO COOLING WATER	-2200			1110	•	_ Su=203kPa
-	BORE ENDS AT 2.2m NO GROUND WATER	-					Rm=105kPa
-		-2400					-
-		— —2600					
		2000					
	·	_2800					_
-		-	}				-
-	·	-3000					-
		-			###		-
		-3200	'				
		3400	,				
		-					
-		—3600					-
-	:	-					-
-		-3800					<u> </u>
-		— —4000					
СО	MMENTS:			,			
	Clay Silt Sand Gravel Fill	Topsoi	· · · · · · · · · · · · · · · · · · ·	Organic(peat)	Re	odk	No Bore

RICHARDSON STEVENS CONSULTANTS (1996) Ltd.

CIVIL AND STRUCTURAL ENGINEERS

SCALA PENETROMETER TESTING

Tested:

MJ

Hattingh

File: Date: 8352 4/09/2007

Strengths Shown are Ultimate Bearing

Test 1						Test 2					
height	# of blows	max. depth	depth/ blow	KPa	CBR	height	# of blows	max. depth	depth/ blow	KPa	CBR
2770						1270					
2450	5	320	64	164	3	1000	1	270	270	49	0
2200	5	. 570	50	201	3	900	1	370	100	113	2
1990	5	780	42	232	4	720	5	550	36	264	5
1830	5	940	32	291	6	560	5	710	32	291	6
1650	5	1120	36	264	5	440	5	830	24	>300	8
1500	5	1270	30	>300	6	300	5	970	28	>300	7
1260	9	1510	27	>300	7	180	5	1090	24	>300	8
1140	10	1630	12	>300	18.						
1050	10	1720	9	>300	25						

Design Conclusion 1 of 2

Richardson Stevens Consultants (1996) Ltd.

CONSULTING CIVIL & STRUCTURAL ENGINEERS

2 SEAVIEW ROAD, WHANGAREI.

Ph (09) 438 3273. Fax (09) 438 5734.

E-mail engineers@richardsonstevens.co.nz

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Checked by.

Date.

7/09/07

Refers to.

Stormwater Attenuation - using roof flows to attenuation tank

Client.

G Hattingh Subdivision - Raurimu Rd, Onerahi

Output Design

Diameter deep

Volume Base = 2.54 m² Take tank size as: 1.75 1.8 4.45 m³

Tank Outlet

Using a Low Flow Orifice

 $Q = 0.62 A (2g h_i)^{0.5}$

Exit Size

Use exit oriface size

50 mm

Pipe Area=

0.00196 m²

Check Pipe Flow through Pipe

 $Q = A 1/n R^{2/3} s^{1/2}$ Using

Pipe Size=

100 mm

Pipe Area= 0.00785 m²

n= 0.011 R= 0.025

From New Zealand Building Code

0.0079

0.314159 R=A/P (Q5 pipe)

s= 0.01

100.00 Actual s used

Q=

1/ 0.011

0.0250 2/3

0.01 1/2

Q = 0.00610m³/s

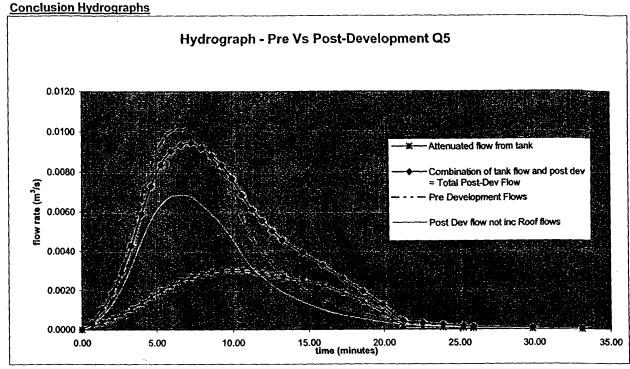
Design

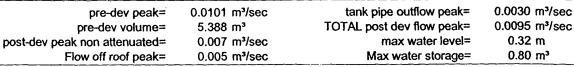
Stormwater flows from the subdivision and development of Lots 6 & 7 DP37268 are to be maintained at or below pre-development by attenuating the stormwater flow off the proposed houses. (see conclusion hydrographs)

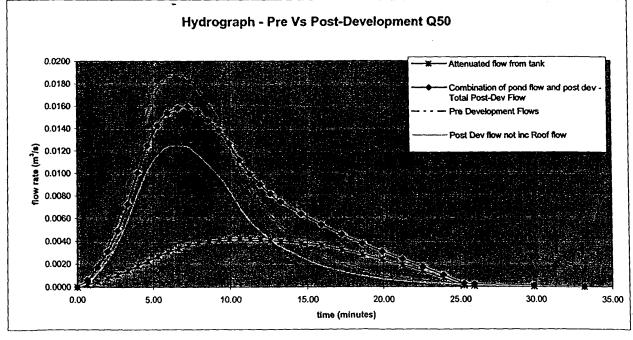
Design Conclusions

The roof downpipes from a dwelling either Lot are to flow into a tank of at least 1,600 litre via a silt trap. The flow from the tank is attenuated via a 50mm diameter outlet at the base of the tank, this reduces the flow enough to allow for the increase in impervious areas (roof, paving and roads) in these Lots. The tank outlet then flows via a 100mm diameter stormwater pipe at a slope of no less than 1:100 to the WDC stormwater system.

An overflow outlet at the top of the tank should be installed for extreme (greater than 1/50 yr events) Allow for periodical cleaning of the tank to ensure the outlet is not blocked.







pre-dev peak= pre-dev volume= post-dev peak non attenuated= Flow off roof peak= 0.019 m³/sec 10.0 m³ 0.012 m³/sec 0.007 m³/sec Tank pipe outflow peak=
TOTAL post dev flow peak=
max water level=
Max water storage=

0.0042 m³/sec 0.0160 0.61 m 1.55 m³

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CONSULTING CIVIL & STRUCTURAL ENGINEERS

2 SEAVIEW ROAD, WHANGAREI.

Ph (09) 438 3273. Fax (09) 438 5734.

E-mail engineers@richardsonstevens.co.nz

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Refers to.

Stormwater Attenuation - using roof flows to attenuation tank

Client.

G Hattingh Subdivision - Raurimu Rd, Onerahi

Calculations are based on Auckland Regional Council's TP 10 and TP 108

Development Catchment Information

PREDEVELOPMENT

5 yr stormwater

Catchment area = 580

Area total

580 m²

Soil type: Type C

(pg 8 section 3.2 for soil des)

Change in height =

ARI≃ 5

3.90

5.00

0.01

0.01

0.00

1 m

length of catchment=

catchment slope - se page 14

0.06 km

Slope (Sc)= 0.017 P₂₄= 136.4 mm

24 hour design rainfall depth from WDC for ARI

Find CN	Area	CN	look up each area and get individual CN's for eac	h land area from App B
1 [(m²)	(Apx B)		
A1	520	79	Natural grassland on clay	<u>CN=</u>
A2	0	0	·	catchment curve
A3	0	0		number
A4	0	0	1	1
A -imperv	60	98	(impervious CN = 98)	į

CN =	81.0		
la≔	4.5	mm	
C=	1		
t _c =	0.166	hrs	10.0 min
t _p =	0.111	hrs	6.6 min
Ś≔	59.7	mm	
C*=	0.52 ~		
q*=	0.128	m³/s/km²mm	

Weighted CN (see section eq 3.4 pg 9) Weighted initial abstraction - la (mm)

Check channalisation number tbl 4.3 pg 13 (see note)

Time of concentration see sec 4.2 pg 12

Time to peak

check same as above

Soil Storage parameter see eq 3.2 pg 6 Runoff index for looking up q* fig 6.1 pg 22 Specific flow rate from fig 5.1 pg 22 using c* & tc

Peak flow rate see sec 6.2 pg 21

q _p =	0.0101	m ⁻ /S				
Unit Hydrog	raph	Catchment Hydrograph				
t/t _p	q/q,	t _p	`Q _p	volume		
0.00	0.00	0.00	0.00	0.00		
0.10	0.03	0.66	0.00	0.01		
0.20	0.10	1.33	0.00	0.03		
0.30	0.19	1.99	0.00	0.06		
0.40	0.31	2.66	0.00	0.10		
0.50	0.47	3.32	0.00	0.16		
0.60	0.66	3.98	0.01	0.23		
0.70	0.82	4.65	0.01	0.30		
0.80	0.93	5.31	0.01	0.35		
0.90	0.99	5.98	0.01	0.39		
1.00	1.00	6.64	0.01	0.40		
1.10	0.99	7.30	0.01	0.40		
1.20	0.93	7.97	0.01	0.39		
1.30	0.86	8.63	0.01	0.36		
1.40	0.78	9.30	0.01	0.33		
1.50	0.68	9.96	0.01	0.29		
1.60	0.56	10.62	0.01	0.25		
1.70	0.46	11.29	0.00	0.21		
1.80	0.39	11.95	0.00	0.17		
1.90	0.33	12.62	0.00	0.15		
2.00	0.28	13.28	0.00	0.12		
2.20	0.21	14.61	0.00	0.20		
2.40	0.15	15.94	0.00	0.14		
2.60	0.11	17.26	0.00	0.10		
2.80	0.08	18.59	0.00	0.07		
3.00	0.06	19.92	0.00	0.05		
3.20	0.04	21.25	0.00	0.04		
3.40	0.03	22.58	0.00	0.03		
3.60	0.02	23.90	0.00	0.02		
3.80	0.02	25.23	0.00	0.01		

25.90

29.88

33.20

Minutes

0.00

0.00

0.00

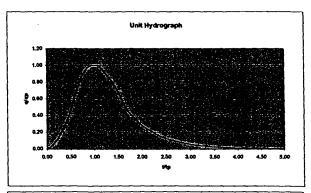
m³/sec

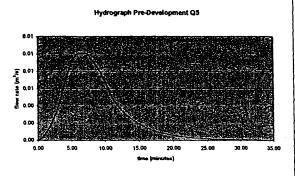
0.01

0.02

0.01

- m³



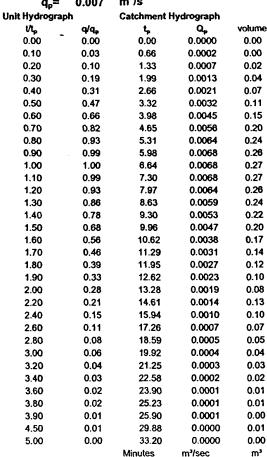


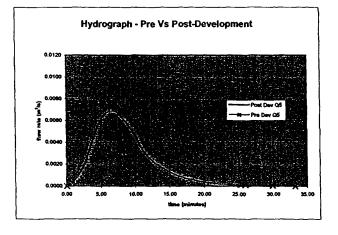
Total Volume =

5.4 m³

5 yr Storm NOTE: CATACHMENT AREA LESS DUE TO REMOVAL POST DEVELOPMENT 380 m² OF FLOW FROM ROOF Catchment area = see page 8 section 3.2 for soil designations Soil type: Type c - clay/volc Change in height = 1 m² 0.06 km length of catchment= catchment slope - for larger catchments use equal Slope (Sc)= 0.017 ARI= 5 P24= 24 hour design rainfall depth from WDC for ARI 136.4 mm Developed areas:- example calcs for CN number below Lot area 0.1482 acre (lookup table 2-2 Appendix B for impervious % below) 580 m² 65% Imprevious area total lot area imperv % 377 m² CN Impervious area in lots Area (Apx B) Roof Area 200 m² (m²)203 68 Grass - Lawn on volc/clay Grassed area in lots 203 m² **A1** 177 m² **A2** 0 Other impervious areas (road etc) Find CN - catchment curve number A3 0 0 look up each area and get individual CN's A4 0 0 for each land area from App B -imperv 177 98 (impervious CN = 98) A total 380 check same as above

t/t _p	_ q/q _p	t _p	Q _p	volume	
nit Hydrog	raph	Catchment Hydr	ograph		
q _p :	= 0.007	m³/s			Peak flow rate see sec 6.2 pg 21
q *:	= 0.132	m ³ /s/km ² mm			Specific flow rate from fig 5.1 pg 22 using q* & tc
C*	0.54				Runoff index for looking up q* fig 6.1 pg 22
S		mm			Soil Storage parameter see eq 3.2 pg 6
t _p :	= 0.111	hrs	6.6 m	in	Time to peak
t _c :	= 0.166	hrs	10.0 m	in	Time of concentration see sec 4.2 pg 12
C:	= 0.6				Check channalisation number tbl 4.3 pg 13 (see note)
la:	= 2.67	mm			Weighted initial abstraction - la (mm)
CN =	82.0				Weighted CN (see section eq 3.4 pg 9)





Pre-development flows

Q5 peak= 0.010 m³/sec Q5 volume= 5.388 m³

Post-development flows

Q5 peak= 0.007 m³/sec Q5 volume= 3.64 m³

Total Volume =

Richardson Stevens Consultants (1996) Ltd.

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G Hattingh Subdivision - Raunmu Rd, Onerahi

Calculations are based on Auckland Regional Council's TP 10 and TP 108

Development Catchment Information

PREDEVELOPMENT

50 yr stormwater

Catchment area = 580 m² Soil type: Type C

(pg 8 section 3.2 for soil des)

Change in height =

1 m

length of catchment=

0.06 km

Slope (Sc)=

0.017

catchment slope - se page 14 24 hour design rainfall depth from WDC for ARI

ARI= 5 P24= 220.2 mm look up each area and get individual CN's for each land area from App B Find CN Area CN (m²) (Apx B) **A1** 520 79 Natural grassland on clay/volc CN= catchment curve **A2** 0 0 A3 0 0 number A4 0 0 60 98 A -imperv (impervious CN = 98)

Area total 580 CN = 81.0 la= 4.482759 mm

C= 1

0.166 10.0 min t_c= hrs 6.6 min 0.111 hrs

59.7 mm c*= 0.64

5.00

0.00

m³/s/km²mm **q*=** 0.147

0.019 m³/s check same as above

Weighted CN (see section eq 3.4 pg 9) Weighted initial abstraction - la (mm)

Check channalisation number tbl 4.3 pg 13 (see note)

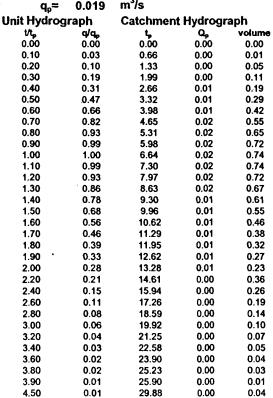
Time of concentration see sec 4.2 pg 12

Time to peak

Soil Storage parameter see eq 3.2 pg 6 Runoff index for looking up q* fig 6.1 pg 22

Specific flow rate from fig 5.1 pg 22 using c* & tc

Peak flow rate see sec 6.2 pg 21



33.20

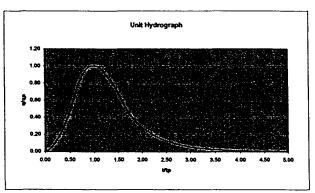
Minutes

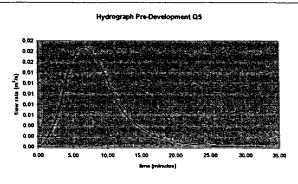
0.00

m³/sec

0.01

m³





Total Volume =

10.0 m^a

Q50 Stormwater Flows Page 2 of 2 **POST DEVELOPMENT** 50yr stormwater NOTE: CATACHMENT AREA LESS DUE TO REMOVAL OF FLOW FROM ROOF Catchment area = 380 m² Soil type: Type c - clay/volc see page 8 section 3.2 for soil designations Change in height = 1 m² length of catchment= 0.06 km Slope (Sc)= 0.017 catchment slope - for larger catchments use equal ARI= 5 24 hour design rainfall depth from WDC for ARI P₂₄= 220.2 mm Developed areas:- example calcs for CN number below 0.1482 acre (lookup table 2-2 Appendix B for impervious % below) Lot area total lot area 580 m² 65% Imprevious area imperv % Impervious area in lots 377 m² Area CN Roof Area 200 m² (m²)(Apx B) 203 68 Grass - Lawn on volc/clay Grassed area in lots 203 m² **A1** Other impervious areas (road etc) 177 m² A2 0 0 Find CN - catchment curve number **A3** 0 0 look up each area and get individual CN's O A4 0 98 for each land area from App B 177 (impervious CN = 98) A -imperv A total 380 check same as above CN = 82.0 Weighted CN (see section eq 3.4 pg 9) la= 2.67 Weighted initial abstraction - la (mm) mm C= 0.6 Check channalisation number tbl 4.3 pg 13 (see note) t.= 0.166 hrs 10.0 min Time of concentration see sec 4.2 pg 12 0.111 6.6 min Time to peak hrs 55.9 Soil Storage parameter see eg 3.2 pg 6 mm c*= 0.66 Runoff index for looking up q* fig 6.1 pg 22 **q***= 0.149 m³/s/km²mm Specific flow rate from fig 5.1 pg 22 using q* & tc 0.012 m³/s Peak flow rate see sec 6.2 pg 21 $q_p =$ Catchment Hydrograph Unit Hydrograph q/q_p Q, volume 0.00 0.00 0.00 0.0000 0.00 0.10 0.03 0.66 0.0004 0.01 0.20 0.10 1.33 0.0012 0.03 0.30 0.0024 0.07 0.19 1.99 Hydrograph - Pre Vs Post-Development 0.40 0.0039 0.12 0.31 2.66 0.50 0.47 3.32 0.0059 0.19 0.60 0.66 3.98 0.0082 0.28 0.0180 0.70 0.0102 0.37 0.82 4.65 0.0180 0.80 0.93 5.31 0.0116 0.43 0.0140 0.90 0.99 5.98 0.0123 0.48 1.00 1.00 6.64 0.0125 0.49 0.0120 1.10 0.99 7.30 0.0123 0.49 1.20 0.93 7.97 0.0116 0.48 1.30 0.86 8 63 0.0107 0.44 1.40 0.78 9.30 0.0097 0.41 1.50 0.68 9.96 0.0085 0.36 1.60 0.56 10.62 0.0070 0.31 1.70 0.46 11.29 0.0057 0.25 1.80 0.39 11.95 0.0049 0.21 1.90 0.18 0.33 12 62 0.0041 2.00 0.28 13.28 0.0035 0.15

Pre-development flows

Q50 peak= 0.019 m³/sec

Q50 volume= 9.989 m³

Post-development flows

Q50 peak= 0.012 m³/sec

Q50 volume= 6.63 m³

m³/sec n
Total Volume =

0.0026

0.0018

0.0013

0.0010

0.0007

0.0005

0.0004

0.0003

0.0002

0.0001

0.0001

0.0000

0.24

0.18

0.13

0.09

0.07

0.05

0.03

0.02

0.02

0.01

0.02

0.01

14.61

15.94

17.26

18.59

19.92

21.25

22.58

23.90

25.23

25.90

29.88

33 20

Minutes

2.20

2.40

2.60

2.80

3.00

3.20

3.40

3.60

3.80

3.90

4.50

5.00

0.21

0.15

0.11

0.08

0.06

0.04

0.03

0.02

0.02

0.01

0.01

0.00

<u>6.6</u>

Richardson Stevens Consultants (1996) Ltd.

CONSULTING CIVIL & STRUCTURAL ENGINEERS

2 SEAVIEW ROAD, WHANGAREI.

Ph (09) 438 3273. Fax (09) 438 5734.

E-mail engineers@richardsonstevens.co.nz

File No. Plan Ref. No. 8352

MM

Calculated by.

Checked by.

Date.

7/09/2007

Refers to.

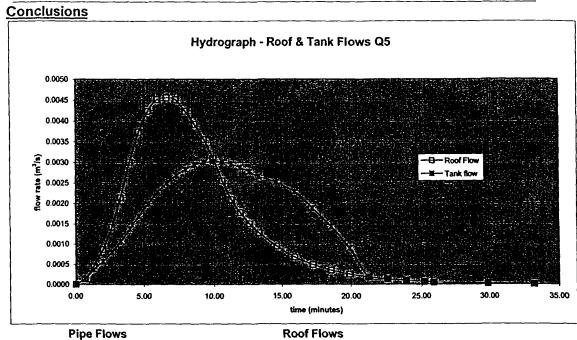
Stormwater Attenuation - using roof flows to attenuation tank

Client.

G Hattingh Subdivision - Raurimu Rd, Onerahi

Calculations are based on Auckland Regional Council's TP 10 and TP 108

Calculations are based on Auckland Regional Council's TP 10 and TP 108										
Roof flows	to storr	nwater att	enuation t	ank	5 yr Stormwater roof flows					
<u> </u>		ment area =			_	Soil type:		(impervio		
		in height =				• •	tchment=	•	l km	
	_	Slope (Sc)=		-	catchment	-	.,	J.J.		
ADI-						•	fall donth	from IA/D/	C for ADI	
ARI=	5	F ₂₄	136.4 m	1111	24 hour de	-	iaii depiri	IIOIII VADO	S IOI ANI	
A total=	200				Area of roo					
CN =	98.0				Weighted)	
la=	0.00	mm			Weighted i					
C=	0.6				Check cha	ınnalisati	on numbe	r tbl 4.3 p	g 13 (see not	e)
t _c =	0.166	hrs	10.0 n	nin	Time of co	ncentrati	ion see se	c 4.2 pg 1	12	
t _p =	0.111	hrs	6.6 n	nin	Time to pe	eak				
S=	5.2	mm			Soil Storag		eter see e	a 3.2 pa	6	
c*=	0.93	•••••			Runoff ind					
q*=	0.167	m ³ /s/km ² m	m						_	
•			1111		-		_		ing q* & tc	
q _p =	0.0046	m³/s			Peak flow		-	_	_	
Unit Hydrog			nt Hydrogra _l		cum	Water	Output	Pipe	Cum	
t/t _p	d/d*	ب 0.00	Q,	volume	in vol	depth	flow P1	output	vol out	0.00
0.00	0.00	0 66	0.0000	0.00 0.00	0.0	0.000	0.0000 0.0001	0.00	0.00	0.00 0.00
0.10 0.20	0.03 0.10	133	0.0001 0.0005	0.00	0.0 0.0	0.001 0.005	0.0001	0.00 0.01	0.00 0.01	0.00
0.30	0.10	199	0.0003	0.03	0.0	0.003	0.0004	0.01	0.03	0.00
0.40	0.13	2.66	0.0014	0.05	0.1	0.022	0.0008	0.02	0.06	0.03
0.50	0.47	3.324	0.0021	0.07	0.2	0.039	0.0011	0.04	0.10	0.06
0.60	0.66	3.98	0.0030	0.10	0.3	0.065	0.0014	0.05	0.14	0.12
0.70	0.82	4.65	0.0037	0.13	0.4	0.098	0.0017	0.06	0.20	0.19
0.80	0.93	531	0.0042	0.16	0.6	0.137	0.0020	0.07	0.28	0.27
0.90	0.99	5.98	0.0045	0.17	0.7	0.176	0.0023	0.08	0.36	0.36
1.00	1.00	5.64	0.0046	0.18	0.9	0.214	0.0025	0.09	0.46	0.45
1:10	0.994	7 30	H00045+	0 (8		0.248	0.0027	0.10	0.56	0.53
1.20	0.93	7.97	0.0042	0.17	1.3	0.276	0.0028	0.11	0.67	0.59
1.30	0.86	863	0.0039	0.16	1.4	0.296	0.0029	0.11	0.79	0.64
1.40	0.78	9.30	0.0036	0.15	1.6	0.310	0.0030	0.12	0.90	0.67
1.50	0.68	0.96	0.0031	0.13	1.7	0.315	0.0030	0.12	1.02	0.68
1.60 1.70	0.5 6 0.46	10.62 11.29	0.0026 0.0021	0.11 0.09	1.8 1.9	0.312 0.301	0.0030 0.0030	0.12 0.12	1.14 1.26	0.67 0.65
1.80	0.40	11.95	0.0021	0.03	2.0	0.301	0.0029	0.12	1.20	0.61
1.90	0.33	12.62	0.0015	0.07	2.0	0.265	0.0029	0.12	1.49	0.56
2.00	0.28	13.28	0.0013	0.06	2.1	0.242	0.0027	0.11	1.60	0.51
2.20	0.21	14.61	0.0009	0.09	2.2	0.217	0.0025	0.21	1.81	0.39
2.40	0.15	15.94	0.0007	0.06	2.3	0.179	0.0023	0.19	2.00	0.26
2.60	0.11	17.26	0.0005	0.05	2.3	0.122	0.0019	0.17	2.16	0.14
2.80	0.08	18.59	0.0004	0.03	2.3	0.070	0.0014	0.13	2.30	0.05
3.00	0.06	19.92	0.0003	0.02	2.4	0.028	0.0009	0.09	2.39	0.00
3.20	0.04	21/25	0.0002	0.02	2.4	0.007	0.0002	0.04	2.43	0.00
3.40	0.03	×2258	0.0001	0.01	2.4	0.005	0.0001	0.01	2.44	0.00
3.60	0.02	23.90	0.0001	0.01	2.4	0.004	0.0001	0.01	2.45	0.00
3.80	0.02	2523	0.0001	0.01	2.4	0.003	0.0001	0.01	2.46	0.00
3.90	0.01	25.90	0.0001	0.00	2.4	0.001	0.0001	0.00	2.46	0.00
4.50	0.01	29.88	0.0000	0.01	2.4	0.003	0.0000	0.01	2.47	0.00
5.00	0.00	33 20	0.0000	0.00	2.4	0.001	0.0000	0.00	2.47	0.00
		Minutes	m³/sec	m³	m³	m	m³/sec	m ³	m³	m³
		Ţ	otal Volume =	2	<u>.4</u>	0.3	2 0.003	0 max		2.5



Q5 peak= 0.003 m³/sec **Roof Flows**

Q5 peak= 0.0046 m³/sec 2.42 m³ Q5 total volume=

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E-mail engineers@richardsonstevens.co.nz

File No.

8352

Plan Ref. No.

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Date.

7/09/2007

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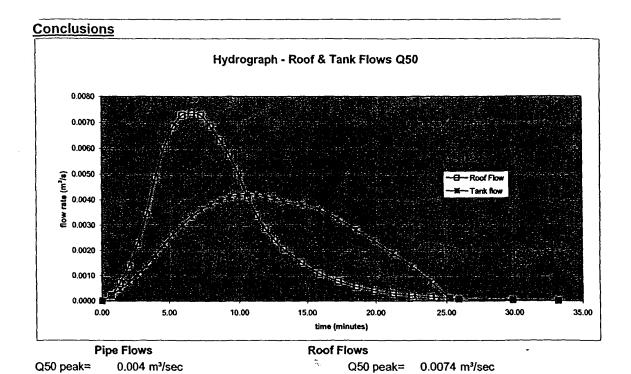
Stormwater Attenuation - using roof flows to attenuation tank

Client.

G Hattingh Subdivision - Raurimu Rd, Onerahi

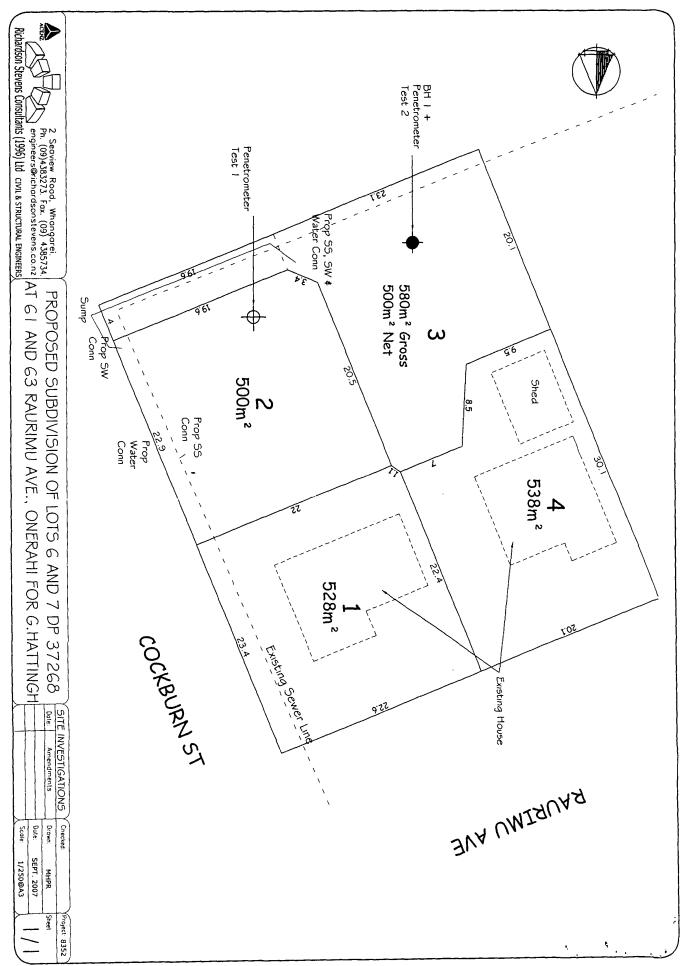
Calculations are based on Auckland Regional Council's TP 10 and TP 108

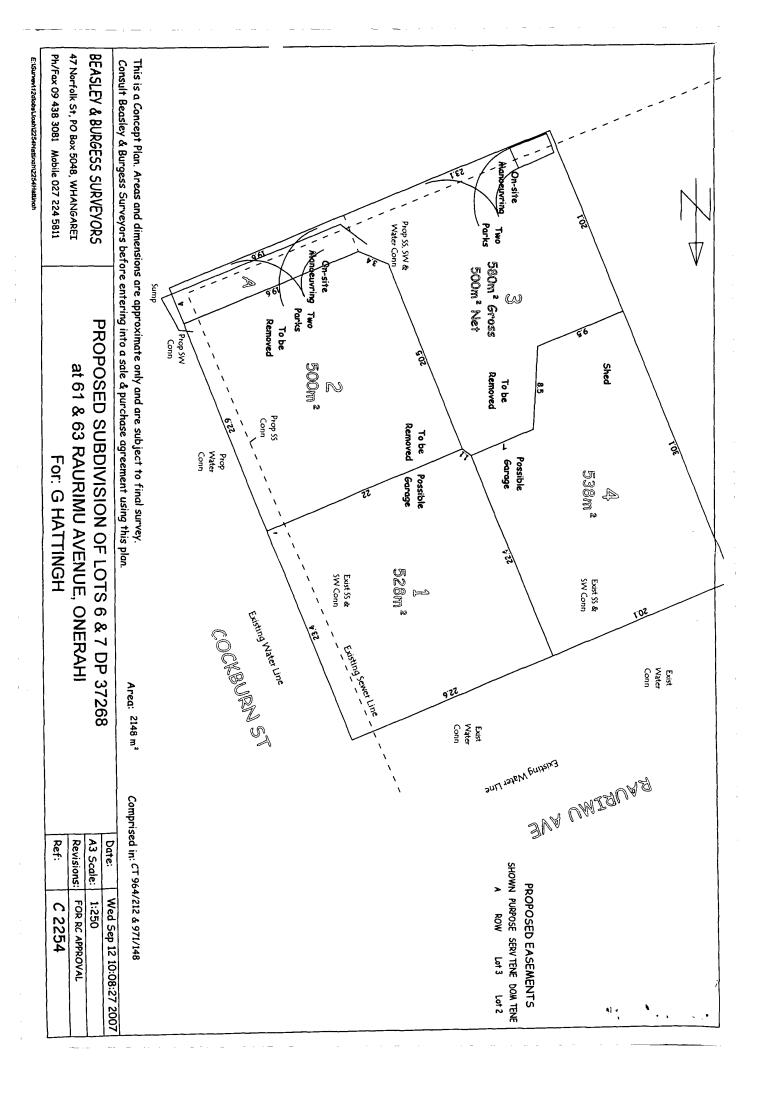
		nwater atte			iis ip 10 an			r roof flo		
WOOL HOWS	50 yr Stormwater roof flows Soil type: Roof (impervious)									
		ment area =	200 m							
	_	in height =	1 m)		-	atchment=	0.04	KIN	
		Slope (Sc)=	0.040		catchment	-				
ARI=	5	P ₂₄ =	220.2 m	ım	24 hour des	sign rain	ifall depth f	rom WD0	C for ARI	
A total=	200				Area of roo	f				
CN =	98.0				Weighted 0	CN (see	section eq	3.4 pg 9))	
la=	0.00	mm			Weighted in	•	-			
C=	0.6								g 13 (see not	te)
t _c =	0.166	hrs	10.0 m	nin	Time of cor					,
t _p =	0.111	hrs	6.6 m		Time to pe					
S=	5.2	mm	0.0 11		Soil Storag		notor soo o	a 3 2 na 1	8	
c*=	0.96	111311			Runoff inde	-				
υ = q*=		m³/s/km²mn	•							
-	0.167	m ³ /s	11		Specific flo		_		ing q acc	
q _p =	0.0074		U.des	-h	Peak flow		-	-	Cum	
Unit Hydrog		Catchment			cum in vol	Water	Output flow P1	Pipe output	Cum vol out	
<i>ነ</i> ኒ 0.00	գ/զ _» 00.00	t, 0.00	Օ _թ 0.0000	volume 0.00	0.0	depth 0.000	0.0000	0.00	YOU OUT	0.00
0.10	0.03	0.66	0.0002	0.00	0.0	0.002	0.0002	0.00	0.00	0.00
0.20	0.10	133	0.0007	0.02	0.0	0.007	0.0005	0.01	0.02	0.01
0.30	0.19	1.99	0.0014	0.04	0.1	0.019	0.0007	0.02	0.04	0.02
0.40	0.31	2.66	0.0023	0.07	0.1	0.038	0.0011	0.04	0.08	0.06
0.50	0.47	3.32	0.0035	0.11	0.3	0.069	0.0014	0.05	0.13	0.13
0.60	0.66	3.98	0.0049	0.17	0.4	0.115	0.0018	0.06	0.19	0.23
0.70	0.82	4.65	0.0060	0.22	0.6	0.175	0.0023	0.08	0.27	0.36
0.80	0.93	5.31	0.0068	0.26	0.9	0.243	0.0027	0.10	0.37	0.52
0.90	0.99	5.98	0.0073	0.28	1.2	0.315	0.0030	0.11	0.48	0.69
1.00	1.00	6.64#	0.0074	0.29	1.5	0.386	0.0033	0.13	0.61	0.85
110	0.99	7.30 7.97	0.0073***	0.29	318	0.450 0.506	0.0036 0.0038	0.14	0.75 0.90	1.01
1.20 1.30	0.93 0.86	8.63	0.0068 0.0063	0.28 0.26	2.0 2.3	0.551	0.0038	0.15 0.16	1.05	1.14 1.25
1.40	0.78	9.30	0.0057	0.24	2.5	0.584	0.0041	0.16	1.22	1.32
1.50	0.68	9.96.	0.0050	0.21	2.8	0.604	0.0042	0.17	1.38	1.37
1.60	0.56	10.624	0.0041	0.18	2.9	0.611	0.0042	0.17	1.55	1.39
1.70	0.46	11.29	0.0034	0.15	3.1	0.604	0.0042	0.17	1.72	1.37
1.80	0.39	11.95	0.0029	0.12	3.2	0.587	0.0041	0.17	1.88	1.33
1.90	0.33	12.62	0.0024	0.11	3.3	0.563	0.0040	0.16	2.05	1.27
2.00	0.28	13.28	0.0021	0.09	3.4	0.534	0.0039	0.16	2.20	1.20
2.20	0.21	14,6124	0.0015	0.14	3.5	0.500	0.0038	0.31	2.51	1.03
2.40	0.15	15.94	0.0011	0.10	3.7	0.447	0.0036	0.30	2.81	0.84
2.60	0.11	17.26	0.0008	0.07	3.7	0.360	0.0032	0.27	3.08	0.64
2.80	0.08	(8.59)	0.0006	0.05	3.8	0.274	0.0028	0.24	3.32	0.46
3.00	0.06	19.92	0.0004	0.04	3.8	0.195	0.0024	0.21	3.53 3.70	0.29
3.20 3.40	0.04 0.03	21.25	0.0003 0.0002	0.03 0.02	3.8 3.9	0.124 0.065	0.0019 0.0014	0.17 0.13	3.83	0.15 0.04
3.40 3.60	0.03	22.58 23.90	0.0002	0.02	3.9	0.000	0.0008	0.13	3.92	0.04
3.80	0.02	25.23	0.0002	0.01	3.9	0.020	0.0001	0.03	3.95	0.00
3.90	0.02	25 90	0.0001	0.00	3.9	0.001	0.0001	0.00	3.95	0.00
4.50	0.01	29.88	0.0000	0.01	3.9	0.006	0.0000	0.01	3.97	0.00
5.00	0.00	33.20	S .	0.00	3.9	0.001	0.0000	0.00	3.97	0.00
		Minutes	m³/sec	m³	m³	m	m³/sec	m³	m³	m³
		To	tal Volume =	3	<u>3.9</u>	0.6	61 0.004	2 max		4.0

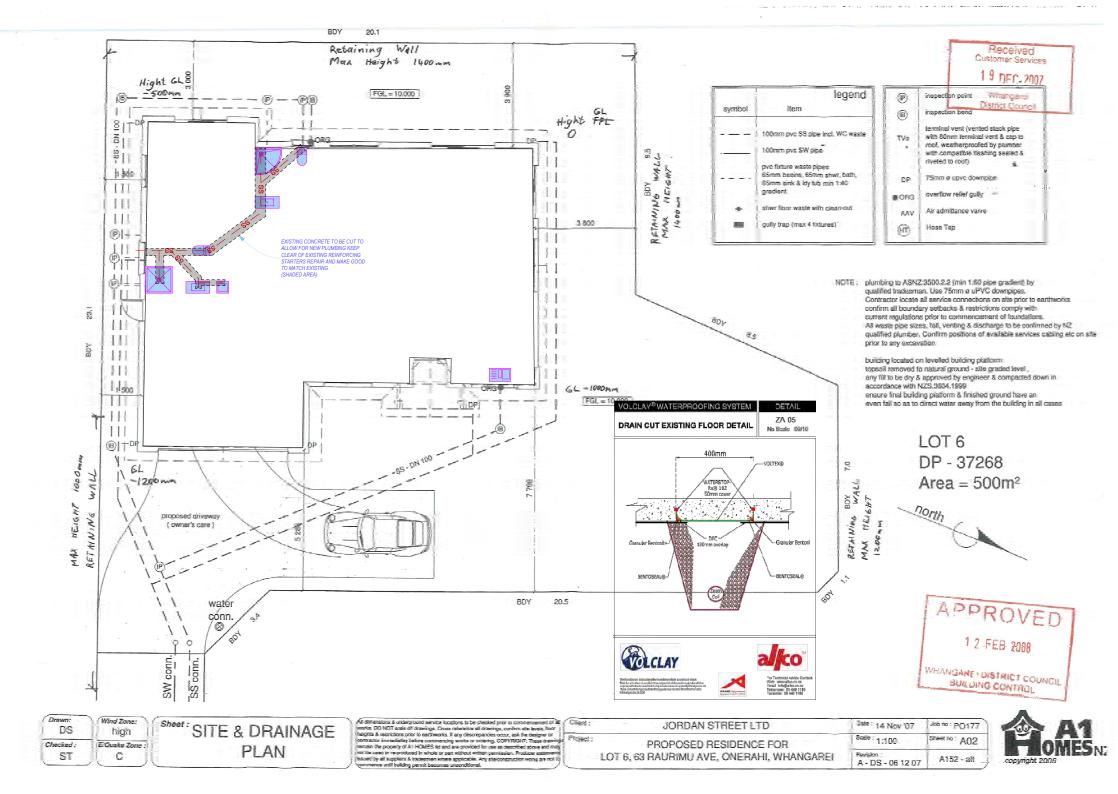


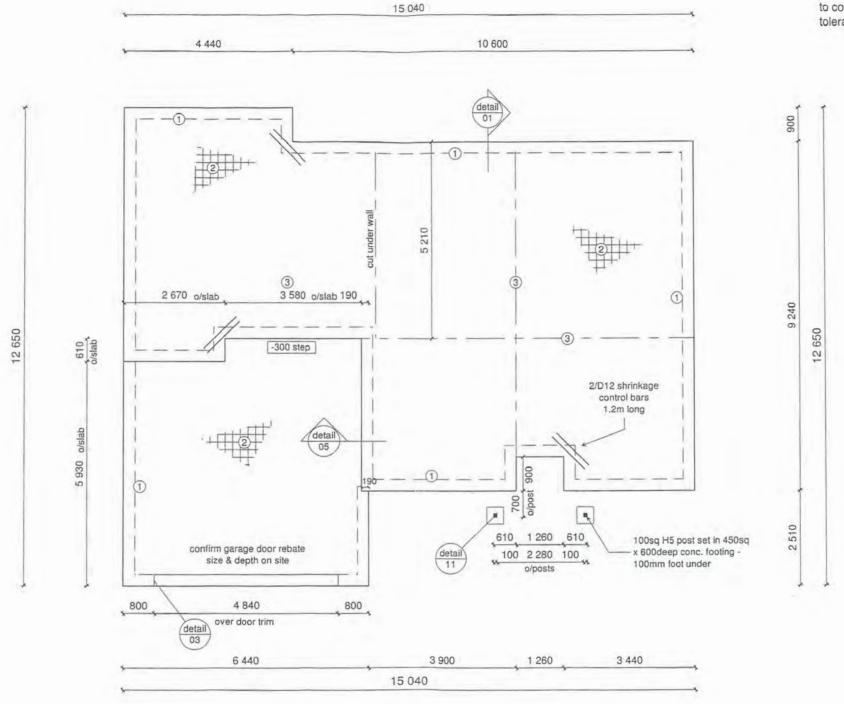
Q50 total volume=

3.91 m³









ensure granular hardfill is evenly compacted down in max. 100mm layers to form a solid base with bearing capacity greater than 300kPa, Min. 5mm - 25mm max, sand blinding to cover hardfill to ensure the vapour barrier is protected from any granular protrusions, 450x450x300 deep conc. pads maybe required under girder pointload areas - 300widex200deep slab thickenings maybe required under load bearing walls - see final roof truss layout plan to confirm location conc. floor to comply with NZS.3109, surface tolerances, & NZS.3114, maximum deviations of 3mm

> Section 7: floors 7.5.8.6.4 The bay dimensions formed by either instruction or shrinkage control joints shall be limited to a maximum ratio of length:width of 2:1. Received Customer Services 1 9 DEC 2007 Whangarei

District Council

NZS3604:1999 -

APPROVED 1 2 FEB 2008 WHANGAREI DISTRICT COUNCIL BUILDING CONTRO

Drawn: DS Checked:

Wind Zone: high E/Quake Zone ST C

Sheet:

FOUNDATION

All dimensions & underground service locations to be checked prior to commencement of all works. DO NOT scale off drawings. Cross reference all drawings, confirm site levels, floor heights & restrictions prior to earthworks. If any descrepancies occur, ask the designer or contractor immediately before commencing works or ordering. COPYRIGHT: These drawings remain the property of A1 HOMES ltd and are provided for use as described above and may not be used or re-produced in whole or part without written permission. Producer statements issued by all suppliers & tradesmen where applicable. Any site/construction works are not to commence until building permit becomes unconditional.

Client:	JORDAN STREET LTD
Project :	PROPOSED RESIDENCE FO

LOT 6, 63 RAURIMU AVE, ONERAHI, WHANGAREI

Date: 14 Nov '07	Job no : PO177
Scale: 1:100	Sheet no: A03
Revision : A - DS - 06 12 07	A152 - alt







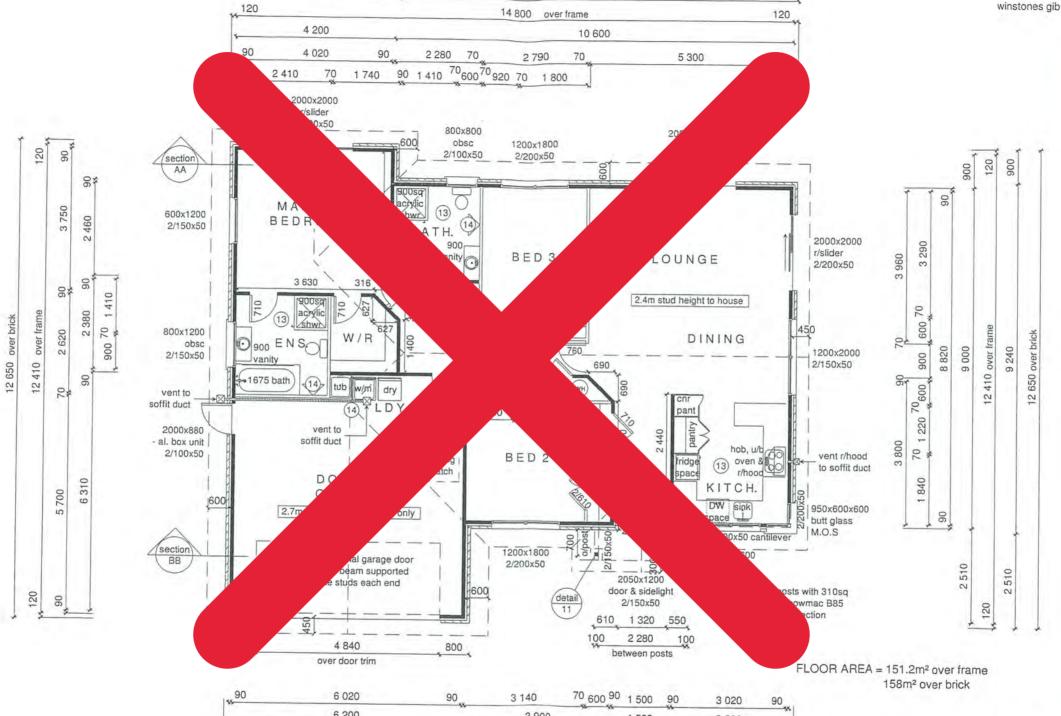
4 440

NOTE:

Mains pressure HWC with tempering valve & seismic restraint in accordance with NZBC: 2004 section G12. Electric hobs with vented r/hood

Where there are more than 3 tapered gib ceiling sheet joins the third join shall be back blocked using gib off-cuts & cove fix adhesive not gib-fix glue, in accordance with winstones gib fixing site guide MAY 2006





15 040 over brick

10 600

90 6 020 90 3 140 70 600 90 1 500 90 3 020 90
6 200 3 900 1 500 3 200
120 14 800 over frame 120
6 440 3 900 1 260 3 440
15 040 over brick

APPROVED

1 2 FEB 2008

WHANGARET DISTRICT COUNCIL
BUILDING CONTROL

Drawn:
DS
Checked:
ST

Wind Zone: high E/Quake Zone:

Sheet:

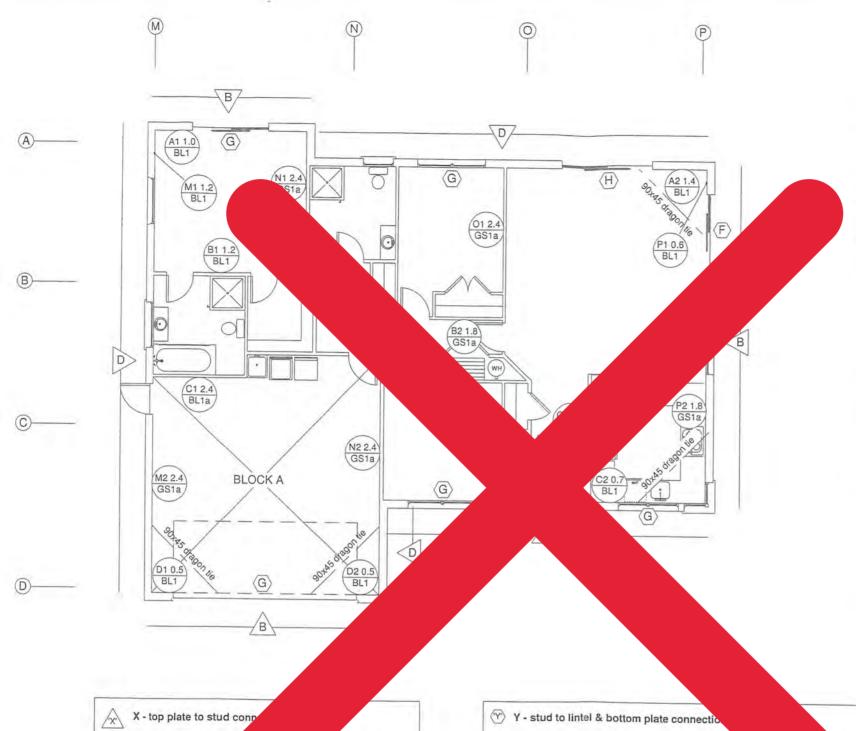
FLOOR PLAN

MI dimensions & underground service locations to be checked prior to commencement of all works. DO NOT scale off drawings. Cross reference all drawings, confirm site levels, floor heights & restrictions prior to earthworks. If any descrepancies occur, ask the designer or contractor immediately before commencing works or ordering. COPYRIGHT: These drawings remain the property of A1 HOMES ltd and are provided for use as described above and may not be used or re-produced in whole or part without written permission. Producer statements issued by all suppliers & tradesmen where applicable. Any site/construction works are not to commence until building permit becomes unconditional.

Ollotti.	JORDAN STREET LTD
Project:	
	PROPOSED RESIDENCE FOR
	LOT 6, 63 RAURIMU AVE, ONERAHI, WHANGAREI

	Date: 14 Nov '07	Job no : PO177
1	Scale: 1:100	Sheet no : A04
	Revision : A - DS - 06 12 07	A152 - alt





NOTE:

ALL GIB® BRACES FIXED IN ACCORDANCE WITH THE LATEST WINSTONES GIB BRACING MANUAL

Received Customer Services

1 a per 2007

Whangarei District Council

£	BRACING ELEMENT TA	BLE
BRACE TYPE	PRIMARY BRACE	SECONDARY BRACE/S
GS1a	10mm GIB ON ONE FACE LENGTH 1800-2400mm OR MORE	DIA BRACE
GS2	10mm GIB ON TWO FACES LENGTH 1200-2400mm OR MORE	N/A
BL1	GIB BRACELINE ON ONE FACE LENGTH 400-600mm OR MORE	hold down straps + 1/M12 bolt ea. end
BL1a	GIB BRACELINE, ONE FACE LENGTH 1800mm OR MORE	hold down straps + 1/M12 bolt ea. end DIA BRACE
BLP	GIB BRACELINE, ONE FACE, 7mm PLY ON THE OTHER LENGTH 600-900mm OR MORE	hold down straps + 1/M12 bolt ea. end
BLG	GIB BRACELINE, ONE FACE, 10mm GIB OTHER FACE LENGTH 600-1200mm OR MORE	hold down straps + 1/M12 bolt ea. end

LABEL No. C1 1.8 GS1a BRACE ELEMENT LENGTH BRACE TYPE AS TABLE

- A 2/90x3.33 plain st ertically into stud (0.7kN).
- B 2/90x3.33 plain ste driven vertically into stud + single TYLOK 2T4 plate (1.7kN).
- C 2/90x3.33 plain steel wire nails driven vertically into stud + pair TYLOK 2T4 plate (2.7kN).
- D 2/90x3.33 plain steel wire nails driven vertically into stud + sheet brace strap 400 with 6/30x3.15 nails ea. stud face (6.0kN).

- E 2 rows of 2/90x3.33 nails, trimmer stud to linte 3.33 nails, trimmer stud to understud (1.4kN).
- F 3 rows of 2/90x3.33 nails, trimmer stud to lintel. Three .33 nails, trimmer stud to understud. 2 TYLOK 2T4s one side of stud to bottom plate (4.0kN).
- G 3 rows of 2/90x3.33 nails, trimmer stud to lintel + sheet brace strap 400 one face of stud & lintel, 6/30x3.15 nails ea. end. Three sets of 2/90x3.33 nails, trimmer stud to understud. Sheet brace strap 400 wrap around bottom plate, 6/30x3.15 nails ea. end with 1/M12 bolt & 50x50x3mm washer (7.5kN).
- H 4 rows of 2/90x3.33 nails, trimmer stud to lintel + sheet brace strap 400 one face of stud & lintel, 6/30x3.15 nails ea. end. Three sets of 2/90x3.33 nails, trimmer stud to understud. Pair 6kN stud anchors with 1/M12 bolt & 50x50x3mm washer (13.5kN).

APPROVED

1 2 FEB 2008

WHANGARE DISTRICT COUNCIL BUILDING CONTROL

Drawn: DS Checked:

E/Quake Zone : ST

Wind Zone:

high

C

BRACING PLAN

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lient :	JORDAN STREET LTD
roject ;	DDODOGED DEGLES

PROPOSED RESIDENCE FOR LOT 6, 63 RAURIMU AVE, ONERAHI, WHANGAREI

Date: 14 Nov '07	Job no : PO177
Scale: 1:100	Sheet no : A05
Revision : A - DS - 06 12 07	A152 - alt



sg = Safety glass - as shown. Glazing in accordance with NZS 4223 All glazing clear float, except wet areas, obscure glass Received Customer Services 1 9 DEC 2007 22.5° pitch Whangarei District Council Butt Glass Window MOS 4800wide sectional colorsteel garage door FFL + 10.250 FFL = 10.550selected metal FGL = 10.000FGL = 10.000 tile roofing elevation 1 22.5° pitch selected entrance door & s/l (11) sg FFL = 10.550FGL = 10.000FGL = 10.000 elevation 2 180mm smooth sg ' sg Hardiplank weatherboards to gable ends FFL = 10.550 FGL = 10.000 22.5° pitch elevation 3 selected aluminium joinery Monier Brick Veneer FFL = 10.550FFL = 10.250 L - - - - -FGL = 10.000 FGL = 10.000 APPROVED elevation 4 H3.2 timber steps and landing H5 Butt Glass Window timber to ground (owners care) 1 2 FEB 2008 MOS WHANGAREI DISTRICT COUNCIL BUILDING C Drawn: All dimensions & underground service locations to be checked prior to commencement of all works. DO NOT scale off drawings. Cross reference all drawings, confirm site levels, floor heights & restrictions prior to earthworks. If any descrepancies occur, ask the designer or contractor immediately before commencing works or ordering. COPYRIGHT; These drawings remain the property of A1 HOMES ltd and are provided for use as described above and may not be used or re-produced in whole or part without written permission. Producer statements issued by all suppliers & tradesmen where applicable. Any site/construction works are not to commence until building permit becomes unconditional. Wind Zone: Sheet: Job no : PO177 DS JORDAN STREET LTD Date: 14 Nov '07 high **ELEVATIONS** Sheet no: A01 Scale: 1:100 Checked . E/Quake Zone : PROPOSED RESIDENCE FOR ST LOT 6, 63 RAURIMU AVE, ONERAHI, WHANGAREI A152 - alt A - DS - 06 12 07

FIXING REQUIREMENTS Whangarei TRUSS MANUFACTURER TO INFORM DESIGNER OF ANY FURTHER FOOTINGS /SLAB THICKENINGS THAT MAY BE REQUIRED TO SUPPORT ROOF LOADS detail 06 dbl studs (26) Top plate to stud fixings to all studs @ 600 ctrs - where truss (25) (23) width less than 5.2m, omitt (1x) Z-nail fixing to top plate TYLOK 2T4 plate. - 2/90x3.33 nails top plate TYLOK 2T4 plates (19) FIXING TYPE C 2.7KN NOTE: lintel Where loaded dimension of truss is greater than 3.5m, use Sheet brace strap 400 fixing type D. one face of stud & lintel, 2/90x3.33 nails 6/30x3.15 nails each end TYLOK stud tie 3/rows of dbl studs -2/90x3.33 nails LINTEL FIXING 7.5kN fixing 3/ of 2/90x3.33 nails detail 07 trimmer stud to understud FIXING TYPE D 6.0KN Sheet brace strap 400, NOTE: wrap around base plate. use these details for all openings 6/30x3.15 nails each end 1.5m wide & greater (25) Other fixings omitt the Sheet (25) 2/200x50 cantilever brace straps & TYLOK 2T4 1/M12 bolt with50x50x3 connectors washer to conc. floor use these details for Periphery Roof Area only, all other purlins omitt wire 2/100x3.75 skewed nails dog & fix with 3/100x3.75 skewed + 1 wire dog purlin to s to each purlin (1.2KN fixing) truss connection (2.7KN 25 fixing) as per table 10.10, pg 10-37 NZS.3604.1999 Periphery Roof Area = 0.2xW 2/100x3.75 skewed nails + 2/ 'Z' nails to truss or rafter into top plate TRUSS CONNECTION DETAIL 1 2 FEB 2003 WHANGAREI DIS! BUILDING CONTROL All dimensions & underground service locations to be checked prior to commencement of all works. DO NOT scale off drawings. Cross reference all drawings, confirm site levels, floor heights & restrictions prior to earthworks. If any descrepancies occur, ask the designer or contractor immediately before commencing works or ordering. COPYRIGHT; These drawings remain the property of A1 HOMES ltd and are provided for use as described above and may not be used or re-produced in whole or part without written permission. Producer statements issued by all suppliers & tradesmen where applicable. Any site/construction works are not to commence until building permit becomes unconditional. Sheet: JORDAN STREET LTD Date: 14 Nov '07 Job no : PO177

PROPOSED RESIDENCE FOR

LOT 6, 63 RAURIMU AVE, ONERAHI, WHANGAREI

Drawn:

Checked:

DS

ST

Wind Zone:

high

E/Quake Zone

ROOF PLAN

NOTE:

Received

THIS LAYOUT IS PRELIMINARY ONLY, REFER TO CHEOMER Services

FOR TRUSS TYPE, BEAM COMPLIANCE, LOCATION & DEC. 2007

FINAL TRUSS DESIGN FROM THE MANUFACTURER

Scale: 1:100

A - DS - 06 12 07

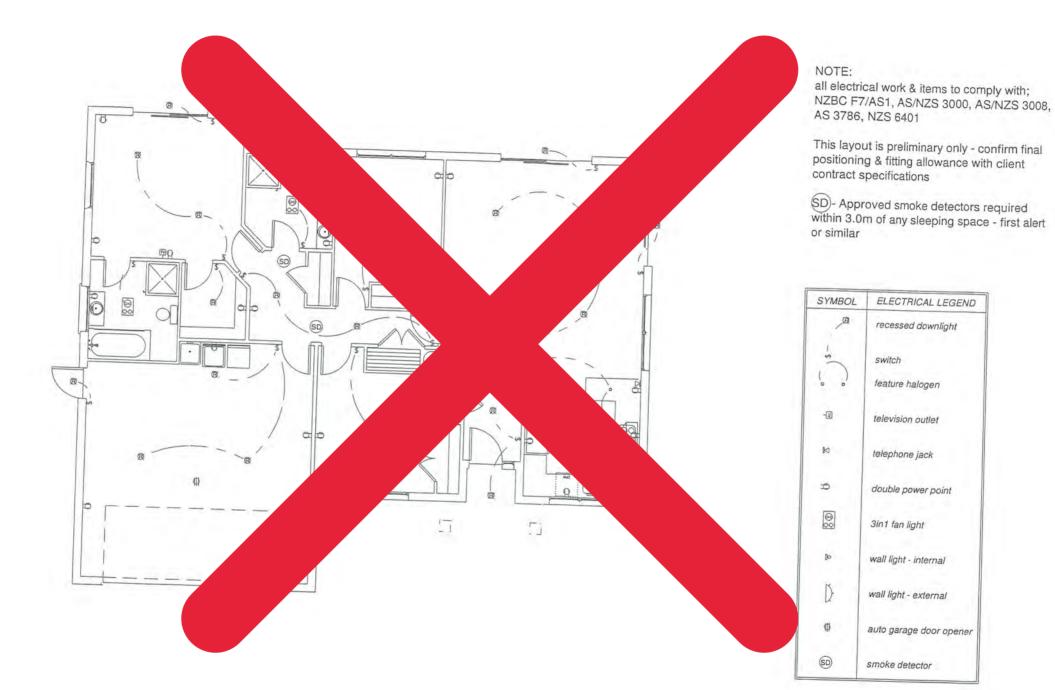
Sheet no : A06

A152 - alt

Received Customer Services

1 9 FEC 2007

Whangarei
District Council



APPROVED

12 FEB 2008

WHANGAREI DISTRICT CHUNCIL BUILDING CONTROL

Drawn:
DS
Checked:

Wind Zone:
high
E/Quake Zone:

Sheet:

ELECTRICAL LAYOUT

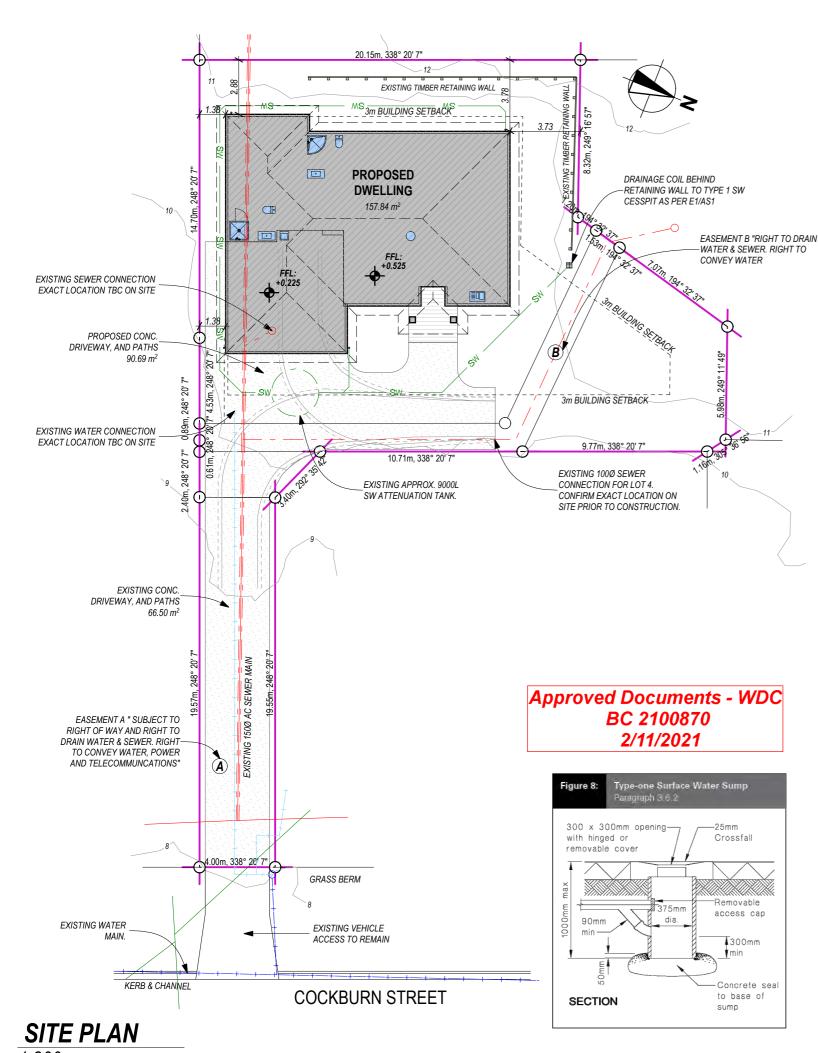
All dimensions & underground service locations to be checked prior to commencement of all works. DO NOT scale off drawings. Cross reference all drawings, confirm site levels, floor heights & restrictions prior to earthworks. If any descrepancies occur, ask the designer or contractor immediatley before commencing works or ordering. COPYRIGHT; These drawings remain the property of A1 HOMES ltd and are provided for use as described above and may not be used or re-produced in whole or part without written permission. Producer statements issued by all suppliers & tradesmen where applicable. Any site/construction works are not to commence until building permit becomes unconditional.

Client:	JORDAN STREET LTD
Project:	PROPOSED REGIDENCE

PROPOSED RESIDENCE FOR LOT 6, 63 RAURIMU AVE, ONERAHI, WHANGAREI

Date: 14 Nov '07	Job no : PO177
Scale: 1:100	Sheet no : A07
Revision : A - DS - 06 12 07	A152 - alt





IMPORTANT NOTES:

THIS SET OF DRAWINGS MUST BE READ IN CONJUNCTION WITH ATTACHED.

2) MANUFACTURER'S LITERATURE. 3) SPECIFICATIONS.

1. ALL CONSTRUCTION TO COMPLY WITH NZS 3604 2011 AND LOCAL TERRITORIAL AUTHORITY BYLAWS. 2. ALL DIMENSIONS. LAYOUT. WINDOW & DOOR POSITIONS ARE APPROXIMATE-CONFIRM WITH EXISTING BUILDING 3. ALL DIMENSIONS & UNDERGROUND SERVICES TO BE CHECKED ON SITE BY CONTRACTORS BEFORE

COMMENCEMENT OF ANY WORK. 4. CONTRACTOR TO ENSURE ALL GROUND LEVELS & HEIGHT RESTRICTIONS ARE CORRECT AND COMPLY WITH TERRITORIAL AUTHORITY BYLAWS THROUGHOUT CONSTRUCTION

5. DO NOT SCALE FROM DRAWINGS & WORK FROM DIMENSIONS SHOWN.

PLUMBING GAS & DRAINAGE NOTES

1. ALL SANITARY PLUMBING AND DRAINAGE WORK MUST COMPLY WITH NZ BUILDING CODE ACCEPTABLE SOLUTION NZ STANDARD - AS/NZS 3500 OR G13/AS1

2. ALL STORMWATER DRAINAGE WORK MUST COMPLY WITH NZ BUILDING CODE ACCEPTABLE SOLUTION E1/AS1. 3. ALL GAS WORKS MUST COMPLY WITH NZ BUILDING CODE ACCEPTABLE SOLUTION G11/AS1

4. ALL HOT & COLD POLYBUTYLENE PIPEWORK MUST COMPL
WWTH STY ASTY

5. KITCHEN SINK DISTRIBUTION PIPE FROM THE HOT WATER

HEATER TO THE OUTLET SHOULD BE INSULATED.

MINIMUM GRADIENT RATIO OF SANITARY DISCHARGE PIPES

1. AS/NZS 3500 PART 2 DISCHARGE PIPES AND DRAINS. Ø65-1:40 FALL Ø100-1:60 FALL

MINIMUM GRADIENT RATIO OF STORMWATER DRAINS:

NZBC E1/AS1 Ø100 - 1:60



LOCATION PLAN

SITE NOTES:

LEGAL DESCRIPTION: LOT 3. D.P. 396361 SITE AREA: 580m²

PHYSICAL ADDRESS

29A COCKBURN STREET. ONERAHI, WHANGAREI, 0110

WIND ZONE (TO NZS3604:2011): MEDILIM ENVIRONMENT: LIVING 1 & GRZ EXPOSURE ZONE: FARTHQUAKE ZONE INSTABILITY AREA: NA FLOOD SUSCEPTIBLITY ACID SULPHATE SOIL NΑ NΑ

BUILDING COVERAGE AREAS: (40% MAX)

PROPOSED DWELLING: PROPOSED COVERED AREAS: 157 84m² 5 10m² TOTAL BUILDING AREA Inc Ex 162.94m2 (28.09%)

IMPERVIOUS AREAS: (60% MAX)

TOTAL ROOF AREA: 190.31m² PROPOSED DRIVEWAY AREA: 157.19m² TOTAL IMPERVIOUS AREA: 347.50m2 (59.91%)

CONTOURS: CONTOUR LINES 0.5m EXCAVATION VOLUME: EXCAVATION AREA: NA

IMPORTANT NOTES:

PLEASE CHECK ALL DIMENSIONS TO VERIFY SETOUT OF BUILDINGS IS AS REQUESTED. SITE BOUNDARYS ARE SUBJECT TO SURVEY SITE CONTOURS ARE SUBJECT TO SURVEY

CONFIRM LOCATION OF ALL EXISTING SERVICES ON THE SITE PRIOR TO ANY SITE WORKS.

SURVEY NOTES:

SITE LEVELS/CONTOURS, EASEMENTS AND SERVICE LOCATIONS ARE TAKEN FROM COUNCIL GIS MAPS. AN ON SITE SURVEY PLAN BY A SUITABLY QUALIFIED PERSONS MAY BE REQUIRED FOR MORE ACCURATE DATA. DESIGNERS WILL ACCEPT NO RESPONSIBILITY FOR ANY DATA SUPPLIED BY GIS MAPS.

POWER SUPPLY

POWER SUPPLY LOCATION TO BE CONFIRMED ONSITE

POTABLE WATER SUPPLY:

WATER SUPPLY MUST BE POTABLE AND COMPLY WITH NZBC G12 BY WAY OF WATER TREATMENT OR FILTRATION CONNECT INTO EXISTING CONNECTION PROVIDED ON SITE.

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DWELLING FOR WOODING HOMES LTD

29A, COCKBURN STREET, ONERAHI WHANGAREI

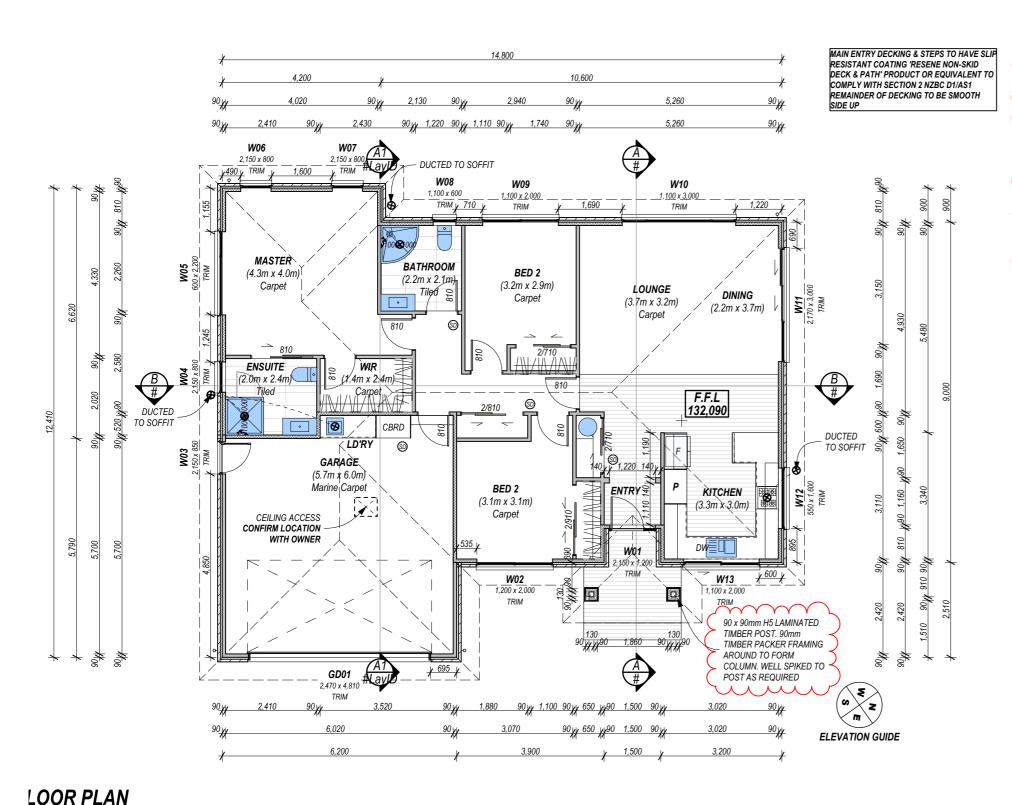
SITE PLAN

BC SET ONLY		
JOB NO:	0194	
REVISION:	01	
SHEET SIZE:	A3	
PAGE:	01 OF 13	
DATE:	6/08/2021	
DRAWN:	DF	



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FLOOR FINISHES:

HATCHING SHOWN INDICATING FLOORING FINISH INDICATIVE ONLY. CONFIRM LOCATION AND EXTENT WITH

ALL TILING IN WET AREAS TO HAVE FULL WATERPROOF MEMBRANE BENEATH

DIMENSIONS:

CONTRACTOR IS TO CONFIRM ALL DIMENSIONS ONSITE BEFORE COMMENCING ANY WORKS

G4 VENTILATION:

NATURAL VENTILATION =

- 5% OF FLOOR AREA (OPENABLE WINDOW) **MECHANICAL VENTILATION =**

REFERENCE AS1668.2 TABLE B1 EXTRACT RATES

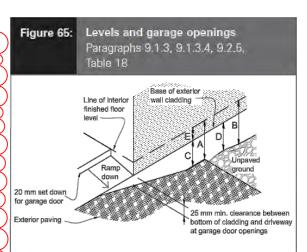
- BATHROOM/TOILETS: MIN. 25L/S - LAUNDRIES: MIN. 20L/S

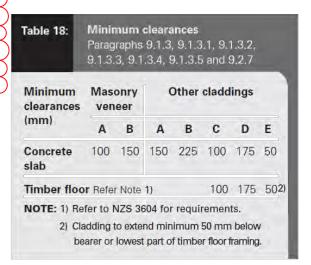
MIN. 50L/S

- KITCHENS:

D1 ACCESS:

MAIN ENTRY DECKING & STEPS TO HAVE SLIP RESISTANT COATING 'RESENE NON-SKID DECK & PATH' PRODUCT OR EQUIVALENT TO COMPLY WITH SECTION 2 NZBC D1/AS1 REMAINDER OF DECKING TO BE SMOOTH SIDE UP





FRAMING SETOUT:

DUE TO EXISTING SLAB BEING IN PLACE PLEASE MEASURE FRAMING LENGTHS ON SITE BEFORE PRE-NAIL AND MAKE ADJUSTMENTS AS REQUIRED. PACKING OUT OF WALLS MAY BE NECESSARY TO ACHIEVE DIMENSIONS SHOWN. DESIGNER ACCEPTS NO RESPONSABILITY FOR DISCREPANCIES SHOWN ON THE PLANS BETWEEN THE SLAB AND FRAMING.

01	06/08/21	RFI	DF
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DWELLING FOR WOODING HOMES LTD

29A, COCKBURN STREET, ONERAHI WHANGAREI

FLOOR PLAN

BC SET ONLY JOB NO: 0194 REVISION: 01 SHEET SIZE: А3 PAGE: 02 OF 13 DATE: 6/08/2021 DRAWN: DF



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₩WARDROBE + EXTERIOR WATER TAP ** POWER METER BOX ** POWER DISTRIBUTION BOARD ** EXPOSURE ZONE D: FIXINGS ARE TO COMPLY WITH NZBC B2 DURABILITY AND NZS CONFIRM THE LOCATION OF THE FOLLOWING WITH OWNER PRIOR TO INSTALLATION: 3604:2011 SECTION 4 - DURABILITY. ALL FIXINGS AND FIXINGS SHELTERED & EXPOSED) TO BE TYPE 304 STAINLESS STEEL CEILING HATCH/ACCESS (IF AVAILABLE) - CHECK HEAD HEIGHT FOR ACCESS FLOOR COVERINGS - CONFIRM LOCATION, EXTENT AND

KEY:** CONFIRM LOCATION SHOWN WITH OWNER PRIOR TO INSTALLATION

 $\frac{\textit{NOTE}}{\textit{ALL BOLTS SHALL HAVE 50SQ X 3MM WASHERS TO TIMBER FACES}}$

MANUFACTURERS SPECIFICATIONS.

<u>LIGHTING</u> ARTIFICIAL LIGHTING TO COMPLY WITH NZBC G8/AS1

<u>FLASHING AND WRAP SYSTEMS</u> ALL FLASHINGS, FLASHING TAPES, WRAPS, UNDERLAYS AND ASSOCIATED

ACCESSORIES ARE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE

SMOKE ALARMS SHALL COMPLY WITH APPROVED DOCUMENT F7 WARNING SYSTEMS.

DIRECTION OF FLOOR COVERINGS SHOWN

METER BOX & DISTRIBUTION BOARD

WET AREAS WATERPROOFING SYSTEM OPTIONS.

ALL DETAILS/WINDOWS TO COMPLY WITH NZBC E3 INTERNAL MOISTURE AND MANUFACTURER'S PRODUCT DETAILS.

PROVIDE AN IMPERVIOUS AND EASILY CLEANABLE SURFACE TO ALL WALLS & FLOOR AREAS LIKELY TO BE SPLASHED TO COMPLY WITH E3/AS1.

USE GIB AQUALINE ON WET AREA WALLS & CEILINGS **BATHROOM**-FULL HEIGHT AQUALINE

LAUNDRY, WC & KITCHEN- 1200mm DADO WET AREA VENTILATION. COMPLY WITH NZBC G4 VENTILATION

INTERIOR DOORS

TYPICAL DOORS: 1980mm PAINT QUALITY HOLLOW CORE DOORS WITH 18mm PAINT QUALITY DOOR JAMBS AND SELECTED HANDLESUNLESS STATED OTHERWISE

(SD) SMOKE ALARM - TO COMPLY WITH NZBC F

EXTERNAL WINDOWS & DOORS

ALL EXTERNAL WINDOW AND DOOR HEIGHTS TO BE 2110mm ABOVE FINISHED FLOOR LEVEL (OPENING TRIM) UNLESS OTHERWISE STATED

INSULATION-EXCLUDING GARAGE
CEILING INSULATION: R3.2 MAMMOTH POLYESTER INSULATION ON CEILING BATTENS WALL INSULATION: R2.2 MAMMOTH WALL INSULATION TO EXTERIOR WALLS

TIMBER TREATMENT:

ROOF STRUCTURE POINT LOAD ABOVE

TREATMENT LEVELS TO COMPLY WITH NZBC CLAUSE B2/AS1 DURABILITY, NZS3602. TIMBER AND WOOD BASED PRODUCTS FOR USE IN BUILDING AND NZS3640 CHEMICAL PRESERVATION OF ROUND AND SAWN TIMBER.

H1.2-ALL WALL FRAMING AND ASSOCIATED MEMBERS ROOF FRAMING, TRUSSES AND CEILING JOISTS ENCLOSED FRAMING WITHIN SKILLION / FLAT ROOFS

H3.1-CLADDING CAVITY BATTENS

<u>STUD GRADE</u>
UNLESS SPECIFIED OTHERWISE WALL FRAMING IS GRADED TO SG8 AS PER NZS3604:2011

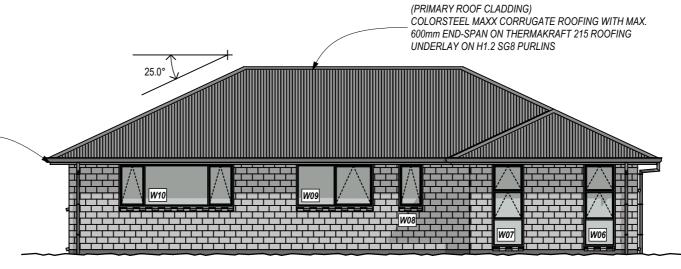
STUD SIZE 90x45 STUDS



NORTH ELEVATION

1:100

(GUTTER/FASCIA)
SELECTED COLORCOTE CONTINUOUS HALO 150
HALF ROUND GUTTER ON 140mm COLORCOTE
FASCIA, WITH Ø80 COLOUR MATCHED
DOWNPIPES



WEST ELEVATION 1:100 + **SOUTH ELEVATION** 25.0° 1:100 (NEW JOINERY) DOUBLE GLAZED CLEAR, ALUMINIUM POWDERCOATED JOINERY. W01 GD01_ (SECONDARY CLADDING) HERMPAC HP50 OVER VERTIBAT ON THERMAKRAFT 215 BUILDING WRAP ON **EAST ELEVATION** H1.2 SG8 STUDS. 1:100

RISK MATRIX

ALL ELEVATIONS

ALL ELEVATIONS			
Risk Factor	Risk Severity	Risk Score	
Wind zone (per NZS 3604)	Medium risk	0	
Number of storeys	Low risk	0	
Roof/wall intersection design	Low risk	0	
Eaves width	Medium risk	1	
Envelope complexity	Medium risk	1	
Deck design	Low risk	0	
Total Risk Score:	\bigcirc	2	

LINTEL BARS OVER OPENINGS

GALVANISED STEEL ANGLE BRICK VENEER LINTELS AS PER CLAY BRICK & PAVER MANUFACTURERS ASSOCIATION - 2 STOREY CLAY BRICK VENEER CONSTRUCTION - MADE EASY (BRANZ APPRAISAL No. 690.

ALLOW MIN 100mm SEATING EACH SIDE (TO OPENINGS UP TO 2.0m LONG AND ALLOW 200mm SEATING EACH SIDE TO OPENINGS OVER 2.0m. DO NOT FIX TO FRAMING. PROP LINTEL FOR MIN. 7 DAYS.

TABLE 5.0 - LINTEL BARS SUPPORTING VENEER OVER OPENINGS

Max.Span (mm)	Size of Angle
3000 mm	80 x 80 x 6
3500 mm	100 x 100 x 6 or 125 x 75 x 6
4500 mm	125 × 75 × 8
4800 mm	125 X 75 X 10

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DWELLING FOR WOODING HOMES LTD

29A, COCKBURN STREET, ONERAHI, WHANGAREI

ELEVATIONS

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REVISION:	01	
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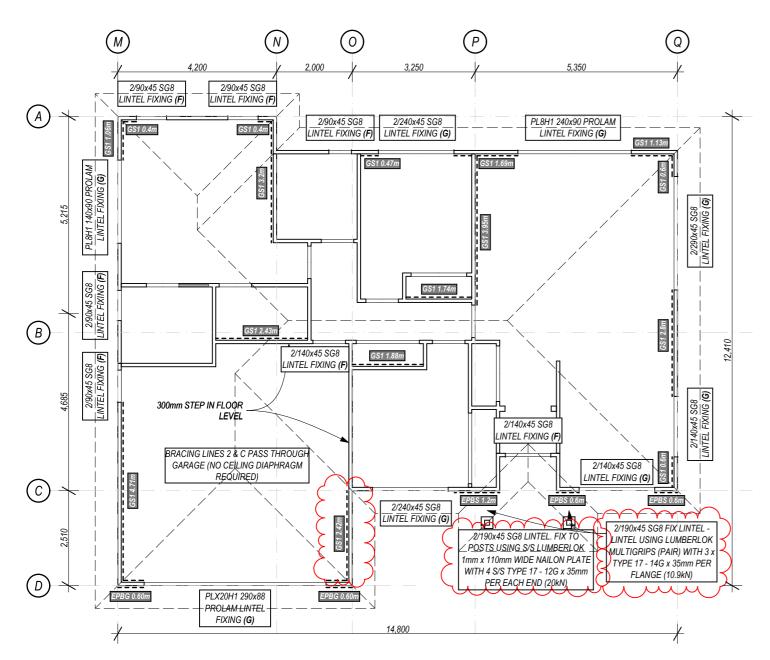


ffice@claytonarchitecture.co.nz

ONLY COUNCIL STAMPED PLANS TO BE USED FOR CONSTRUCTION.

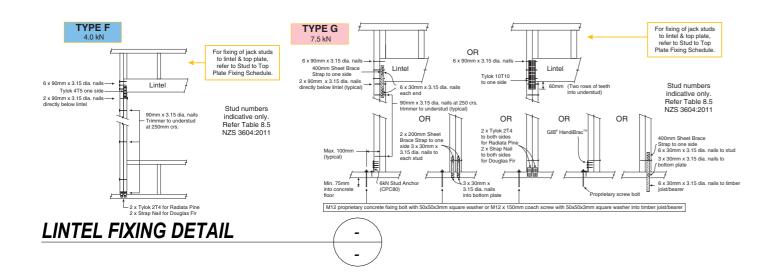
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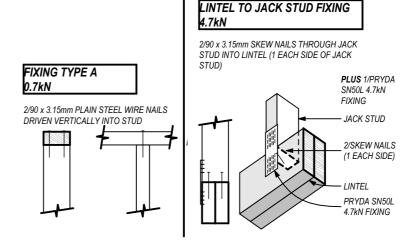
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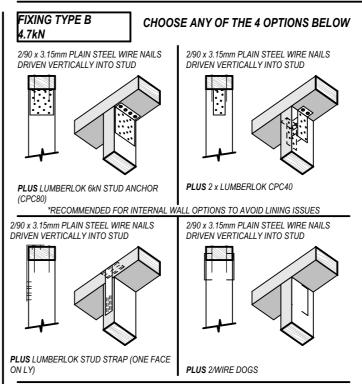


FRAMING/LINTEL FIXING PLAN

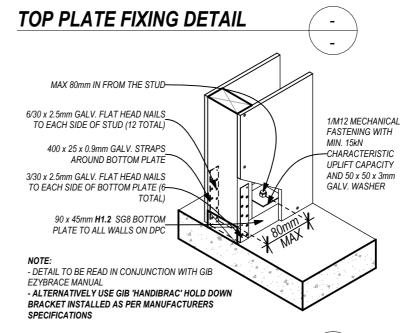
1:100







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



BRACING/LINTEL/FRAMING NOTES:

STUD SIZES: (UNLESS NOTED ON THE PLAN) 2.4m STUD HEIGHT THROUGHOUT FLAT TRUSSED ROOF UNI ESS STATED OTHERWISE

EXTERIOR WALLS: (TO MEDIUM WIND ZONE)

90 x 45mm H1.2 SG8 STUDS @ 600mm CRS. NOGS @ 600mm CRS. (AS PER 3604:2011 2.7m HIGH MAX.)

LOADBAERING INTERIOR WALLS:

90 x 45mm H1.2 SG8 STUDS @ **600mm** CRS. NOGS @ 800mm CRS. UNLESS OTHERWISE STATED

NON-LOADBEARING INTERIOR WALLS:

90 x 45mm H1.2 SG8 STUDS @ 600mm CRS. NOGS @ 800mm CRS.

UNLESS OTHERWISE STATED

EXTERIOR WALLS: (VERTICAL SHIPLAP CLADDING) 90 x 45mm H1.2 SG8 STUDS @ **600mm** CRS. NOGS @ 450mm CRS. (AS PER 3604:2011 2.7m HIGH MAX.)

INTERNAL LOAD BEARING WALLS

HATCH INDICATES LOCATION OF INTERIOR LOAD BEARING WALL

LINTEL FRAMING/FIXING:



ALL LINTELS TO BE H1.2 SG8 UNLESS STATED OTHERWISE. FIX LINTELS AS DETAILED BY 'LUMBERLOK' LINTEL FIXING ON THIS SHEET AS REFERENCED FROM LINTEL PLAN.

<u>BRACING:</u>
INSTALL & FIX ALL BRACING IN ACCORDANCE WITH 'GIB EZYBRACE SYSTEMS' SPECIFICATION AND INSTALLATION MANUAL. BOTTOM PLATE TO BE FIXED TO STUDS FOR BRACING ELEMENTS IN ACCORDANCE WITH GIB BRACING MANUAL AND ECOPLY BARRIER SPECIFICATION AND INSTALLATION GUIDE SEPTEMBER 2017.

TOP PLATE FIXINGS TO BE <u>TYPE 'B'</u> TO ALL EXTERIOR WALLS AND LOAD BEARING INTERIOR WALLS, AS PER DETAIL ON THIS

INTERIOR NON-LOAD BEARING WALLS TO BE TYPE "A" FIXING WITH 2/90 x 3.15 DIA. PLAIN STEEL WIRE NAILS DRIVEN VERTICALLY INTO STUD, AS PER DETAIL ON THIS SHEET

ALL TIMBER TO WALLS IN WET AREAS TO BE LINED WITH 10mm GIB AQUALINE OR 9mm VILLABOARD (OWNER TO CONFIRM)

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DWELLING FOR WOODING HOMES LTD

29A, COCKBURN STREET, ONERAHI WHANGAREI

LINTEL/BEAM AND BRACING PLAN

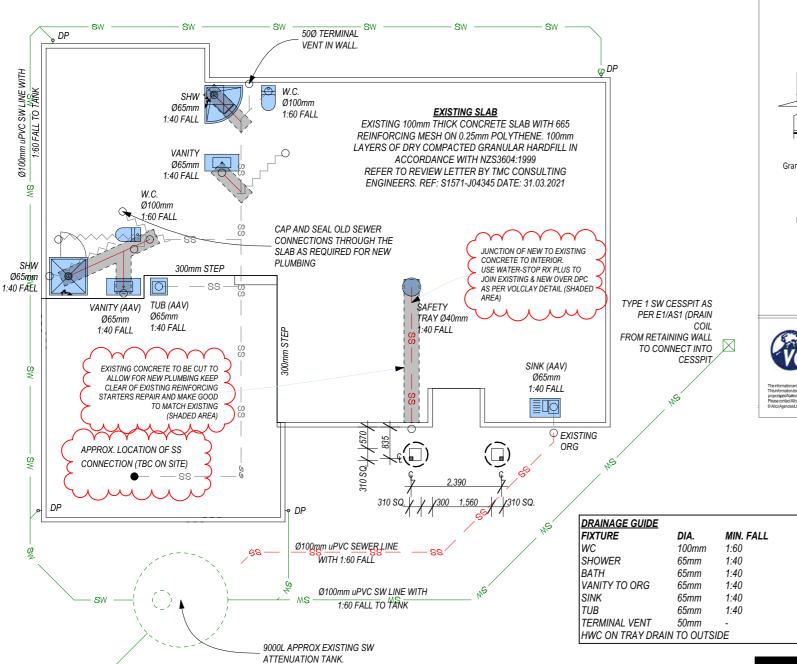
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JOB NO:	0194
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15kN HOLD DOWN DETAIL



DRAINAGE ASBUILT:

INDICATIVE.

ASBUILT OF DRAINANGE TO BE

CONFIRMED ONSITE, THE ABOVE PLAN IS

I INF WITH 1:60

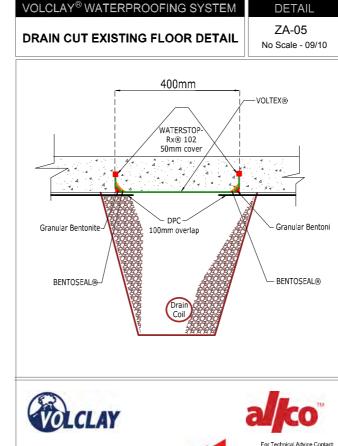
FALL TO ROAD

I ROAD

DRAINAGE PLAN

1:100

CONNECTION AT

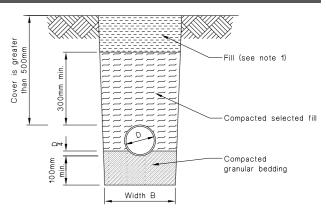


Relationship of Pipe Trench to

(See paragraph 3.9.7)

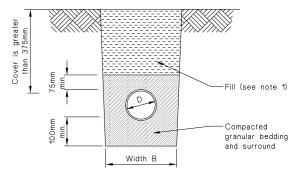
trench

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



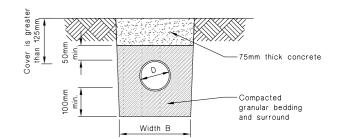
(a) Cover greater than 500 mm

Bedding type 'B' of NZS 4452



(b) Cover greater than 375 mm

Bedding type 'D' of NZS 4452



(c) Cover greater than 125 mm

SITE NOTES:

FOUNDATIONS/FLOOR SLAB

EXISTING 100mm THICK CONCRETE SLAB WITH 665 REINFORCING MESH ON 0.25mm POLYTHENE. 100mm LAYERS OF DRY COMPACTED GRANULAR HARDFILL IN ACCORDANCE WITH NZS3604:1999

REFER TO REVIEW LETTER BY TMC CONSULTING ENGINEERS. REF: \$1571-J04345 DATE: 31.03.2021

SLEEVE ALL SERVICES AND PENETRATIONS THROUGH FLOOR SYSTEM TO ALLOW FOR MOVEMENT.

BOTTOM PLATES: (BOXED CONCRETE / RAFT SLAB)
H1.2 SG8 BOTTOM PLATE OVER DPC.

- FIXED WITH Ø12mm PROPRIETARY ANCHORS WITHIN 150mm OF EACH END OF PLATE AND @ 900mm MAX. CRS. (OR AS REQUIRED BY WALL BRACING REQUIREMENTS). ANCHOR DEPTH TO BE MIN. 90mm INTO SLAB. ENSURE C/L OF FIXING IS POSITIONED MIN. 60mm IN FROM OUTSIDE WALL OF SLAB.

LEGEND

LOAD BEARING WALL ABOVE



POINT LOAD ABOVE

 01
 06/08/21
 RFI
 DF

 REV.
 DATE
 DESCRIPTION
 DRAWN

DWELLING FOR WOODING HOMES LTD

29A, COCKBURN STREET, ONERAHI, WHANGAREI

FOUNDATION PLAN

BC SET ONLY

JOB NO: 0194

REVISION: 01

SHEET SIZE: A3

PAGE: 05 of 13

DATE: 6/08/2021

DRAWN: DF



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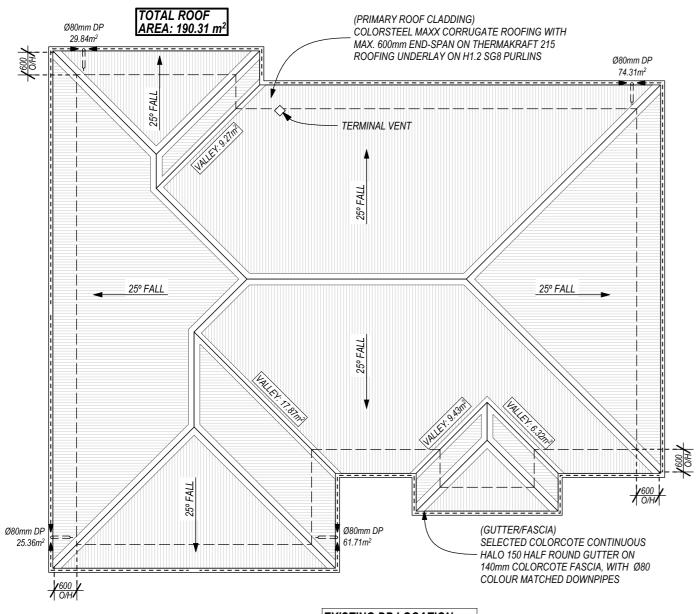
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ROOF PLAN

EXISTING DP LOCATION:
DOWNPIPES ARE EXISTING

1:100

ROOF FRAMING NOTES

<u>PURLINS</u>

70x45mm H1.2 SG8 PURLINS LAID ON FLAT @ MAX. 900mm CRS.
IMPORTANT: FIRST PURLIN SPACING AT EAVE AND RIDGE 600mm MAX. (MAX.

<u>IMPORTANT: FIRST</u> PURLIN SPACING AT EAVE AND RIDGE 600mm MAX. (MAX ROOFING END-SPAN 600mm)

<u>FIXING:</u> FIX TO GANGNAILS TRUSSES USING 1/10G SELF-DRILLING SCREW, 80mm LONG (OR ALTERNATE 2.4kN FIXING).

TRUSSE.

GANGNAIL TRUSSES @ MAX. 900mm CRS. LOCATED AS SHOWN ON ROOF FRAMING PLAN AND INSTALLED AS PER MANUFACTURERS SPECIFICATIONS. 2,455mm TO U/S TRUSS (CONFIRM ONSITE)

TOP PLATE TO STUD FIXING

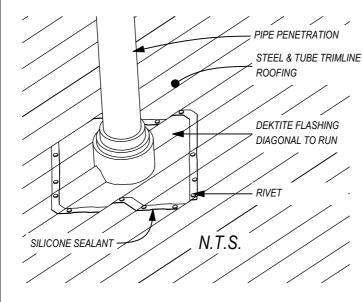
LUMBERLOK TYPE B - 4.7KN. FOR ALL REQUIRED WALLS ALTERNATIVE TO NZS 3604:2011.

REFER MITEK ON SITE GUIDE 2012 FOR LINTEL FIXING AND TOP PLATE FIXING DETAILS.

ROOF UNDERLAY

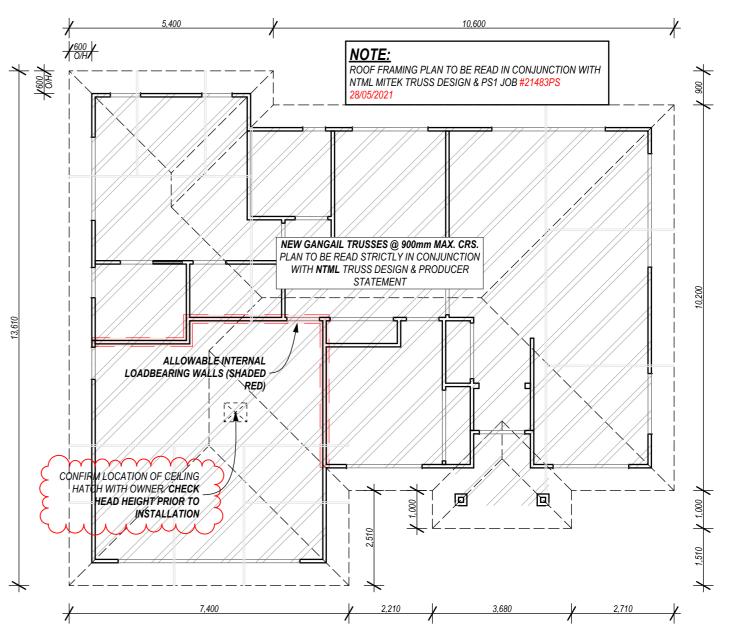
THERMAKRAFT 215 BITUMINOUS SELF SUPPORTING ROOF UNDERLAY INSTALLED AS PER MANUFACTURERS SPECIFICATIONS. AS PER ROOFING CODE OF PRACTICE - SELF SUPPORTING UNDERLAY TO BE SUPPORTED ON NETTING / WIRE MESH:

- UNDER DARK METAL CLADDING
- ON ROOF PITCHES LESS THAN 8°
- IF SUPPORT SPACING IS GREATER THAN 1,100mm



ROOF PENETRATION DETAIL

1.10



ROOF FRAMING PLAN

1:100

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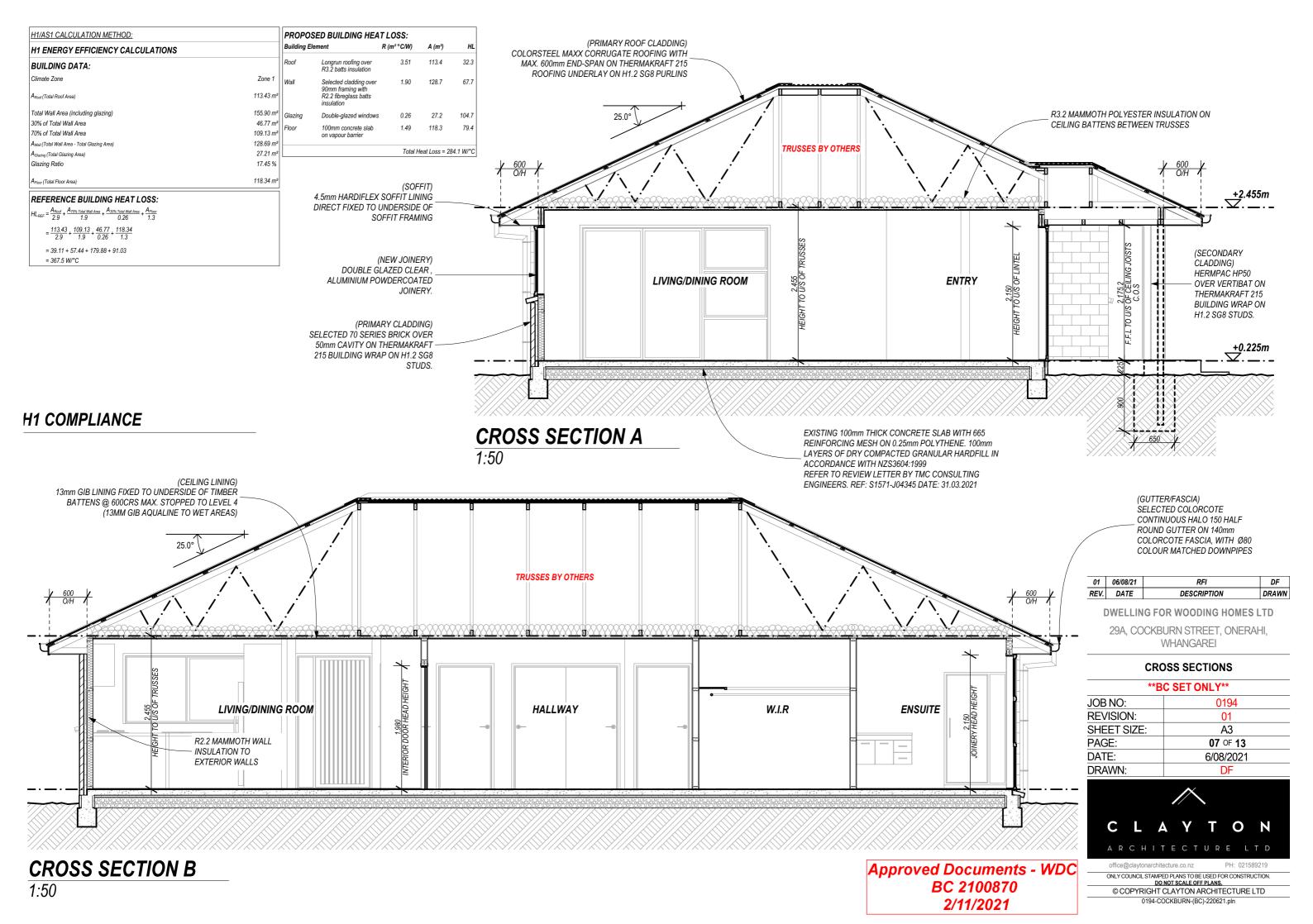
ROOF PLAN

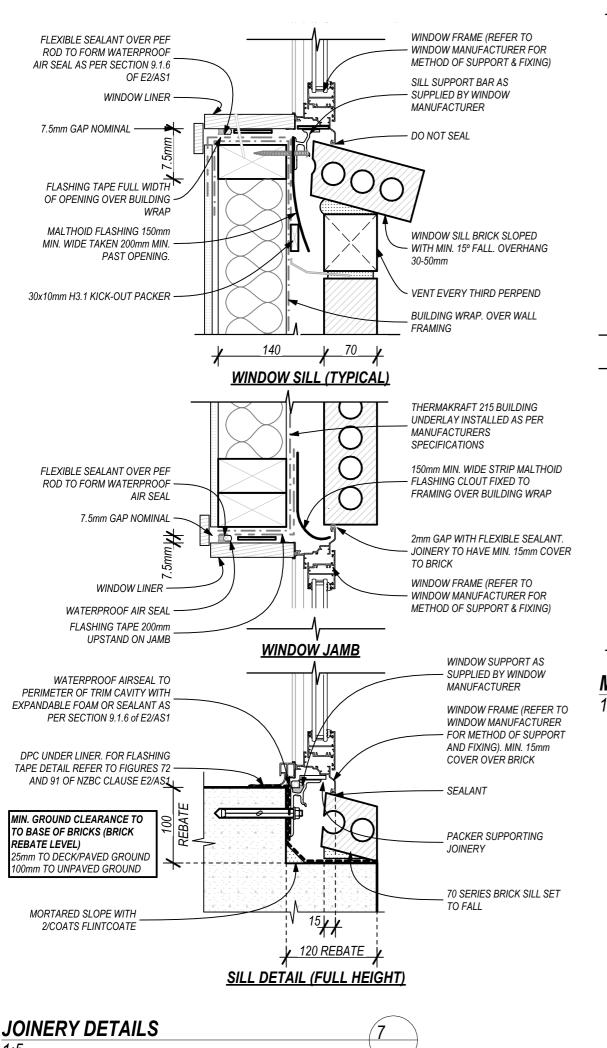
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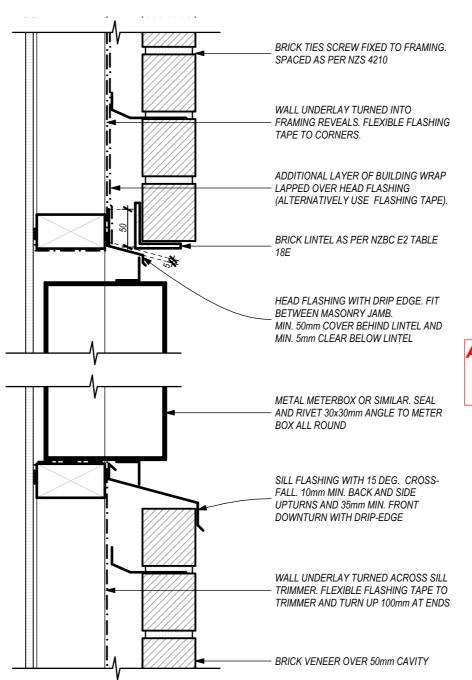


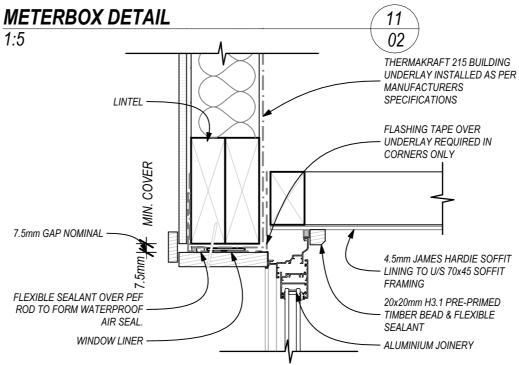
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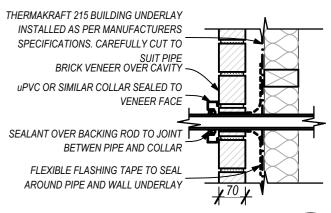




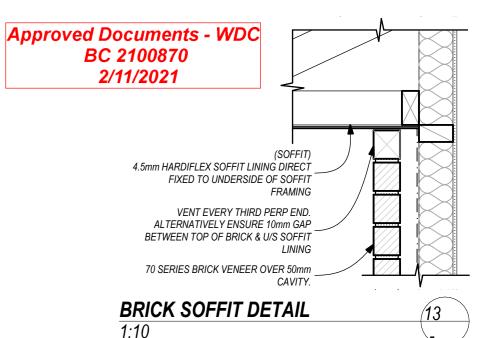




WINDOW HEAD (TO SOFFIT)



CLADDING PENETRATION DETAIL 08



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CLADDING DETAILS

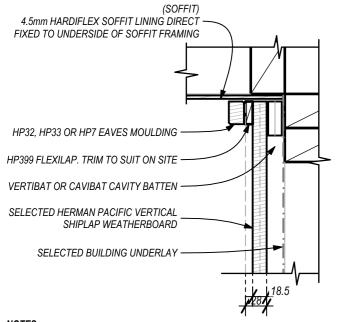
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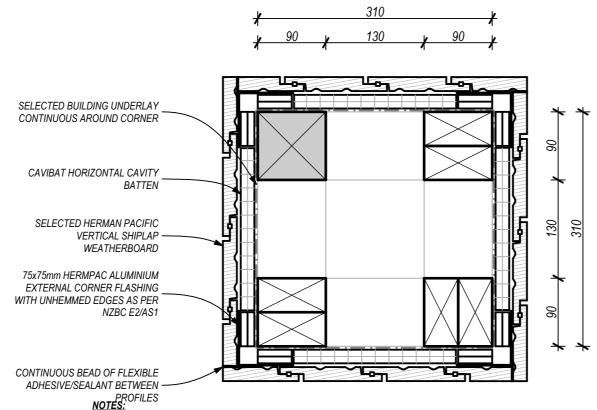
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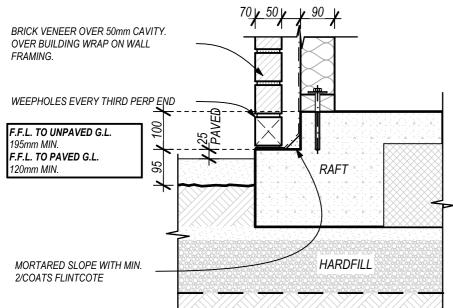
- ALL NAIL FIXINGS PRE-DRILLED MINIMUM 1mm DIAMETER SMALLER THAN THE NAIL
- ALL HERMAN PACIFIC TIMBER PRODUCTS TO BE PRECOATED & CUT ENDS AND EDGES AND ALL FRESH CUT SURFACES DOUBLE COATED AND SEALED BEFORE
- ALL MATERIALS AND FIXTURES ARE TO COMPLY WITH E2/AS1 CLAUSE .2.2
- FOR NON-HEMMED CORNER FLASHINGS, ENSURE A MINIMUM 75mm COVER TO WEATHERBOARDS BEYOND THE POINT WHERE BRANZ BULLETIN 411 COMPLIANT WEATHERBOARD LAP OR REBATE COMBINATIONS TERMINATE AT THE CORNER JUNCTION.
- IN EXTRA HIGH WIND ZONE AND ABOVE. THE 75mm COVER REQUIREMENT REMAINS AND HEMMED EDGES MUST ALSO BE USED.
- REFERE TO NZBC ACCEPTABLE SOLUTION E2/AS1 TABLE 21 FOR THE SEPARATION REQUIREMENTS BETWEEN CCA TREATED BATTENS AND METAL FLASHINGS.





- ALL NAIL FIXINGS PRE-DRILLED MINIMUM 1mm DIAMETER SMALLER THAN THE NAIL GAUGE
- ALL HERMAN PACIFIC TIMBER PRODUCTS TO BE PRECOATED & CUT ENDS AND EDGES AND ALL FRESH CUT SURFACES DOUBLE COATED AND SEALED BEFORE FIXING.
- ALL MATERIALS AND FIXTURES ARE TO COMPLY WITH E2/AS1 CLAUSE .2.2
- FOR NON-HEMMED CORNER FLASHINGS. ENSURE A MINIMUM 75mm COVER TO WEATHERBOARDS BEYOND THE POINT WHERE BRANZ BULLETIN 411 COMPLIANT WEATHERBOARD LAP OR REBATE COMBINATIONS TERMINATE AT THE CORNER JUNCTION.
- IN EXTRA HIGH WIND ZONE AND ABOVE, THE 75mm COVER REQUIREMENT REMAINS AND HEMMED EDGES MUST ALSO BE USED.
- REFERE TO NZBC ACCEPTABLE SOLUTION E2/AS1 TABLE 21 FOR THE SEPARATION REQUIREMENTS BETWEEN CCA TREATED BATTENS AND METAL FLASHINGS.

SHIPLAP COLUMN DETAIL



BRICK BASE DETAIL 1:10

SELECTED HERMAN PACIFIC VERTICAL SHIPLAP WEATHERBOARD BOTTOM PLATE ON DPC CAVITY CLOSURE STRIP. ENSURE MIN. 15mm DRIP EDGE TO BASE OF CLADDING VERTIBAT OR CAVIBAT CAVITY BATTENS WITH MIN. 50mm COVER BELOW F.F.L. CONCRETE SLAB -

- ALL NAIL FIXINGS PRE-DRILLED MINIMUM 1mm DIAMETER SMALLER THAN THE NAIL GAUGE

- ALL HERMAN PACIFIC TIMBER PRODUCTS TO BE PRECOATED & CUT ENDS AND EDGES AND ALL FRESH CUT SURFACES DOUBLE COATED AND SEALED BEFORE FIXING.
- ALL MATERIALS AND FIXTURES ARE TO COMPLY WITH E2/AS1 CLAUSE .2.2
- FOR NON-HEMMED CORNER FLASHINGS, ENSURE A MINIMUM 75mm COVER TO WEATHERBOARDS BEYOND THE POINT WHERE BRANZ BULLETIN 411 COMPLIANT WEATHERBOARD LAP OR REBATE COMBINATIONS TERMINATE AT THE CORNER JUNCTION.
- IN EXTRA HIGH WIND ZONE AND ABOVE, THE 75mm COVER REQUIREMENT REMAINS AND HEMMED EDGES MUST ALSO BE USED.
- REFERE TO NZBC ACCEPTABLE SOLUTION E2/AS1 TABLE 21 FOR THE SEPARATION REQUIREMENTS BETWEEN CCA TREATED BATTENS AND METAL FLASHINGS.

SHIPLAP BASE DETAIL

1:5

IMPORTANT:

ALL DETAILS TO BE READ IN CONJUCTION

WITH AND INSTALLED AS PER E2/AS1 &

HERMPAC TECHNICAL MANUAL

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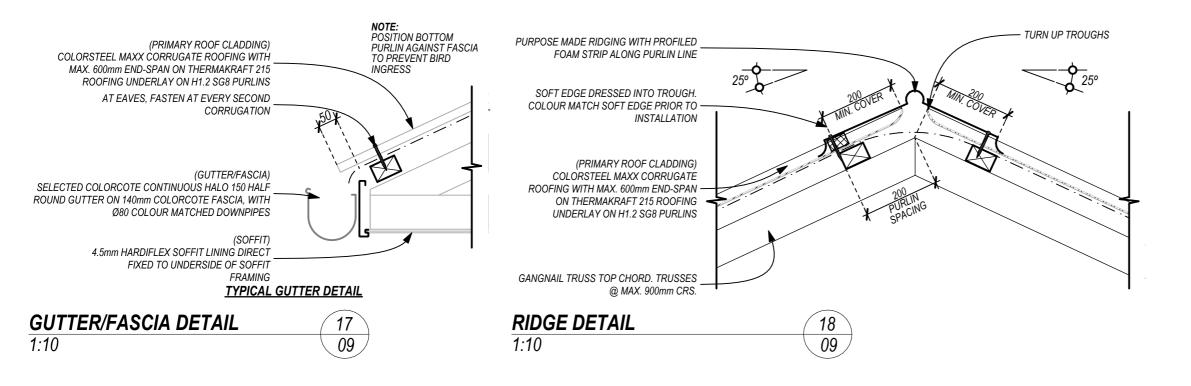
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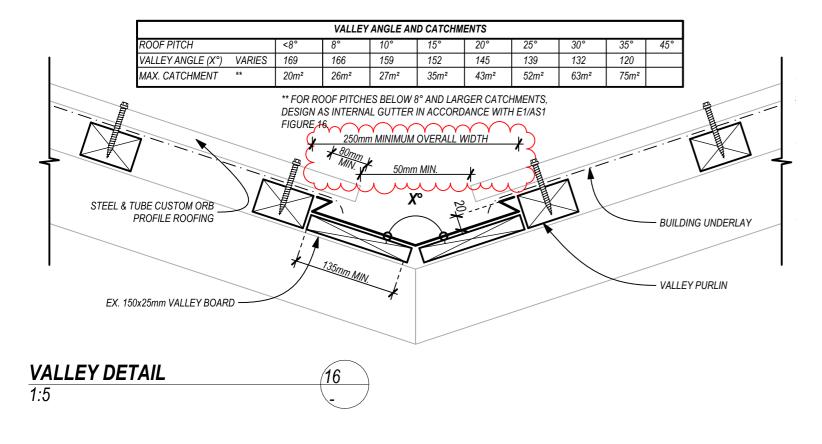
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ROOF DETAILS

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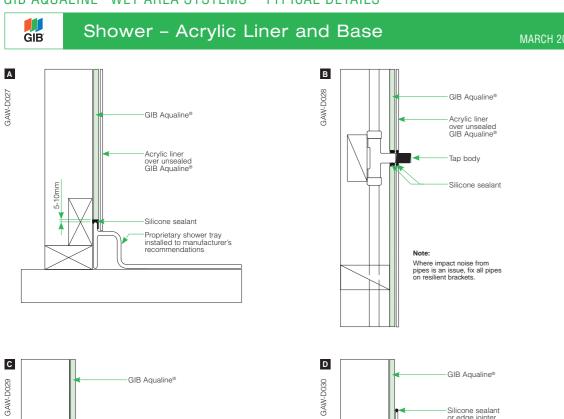
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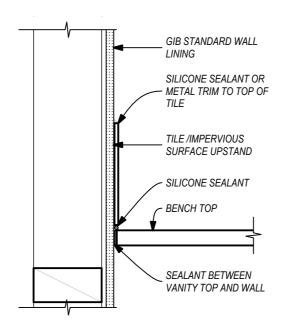
GIB AQUALINE® WET AREA SYSTEMS - TYPICAL DETAILS





 Acrylic liner over unsealed GIB Aqualine[®]

SHOWER DETAILS



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SHOWER DETAILS

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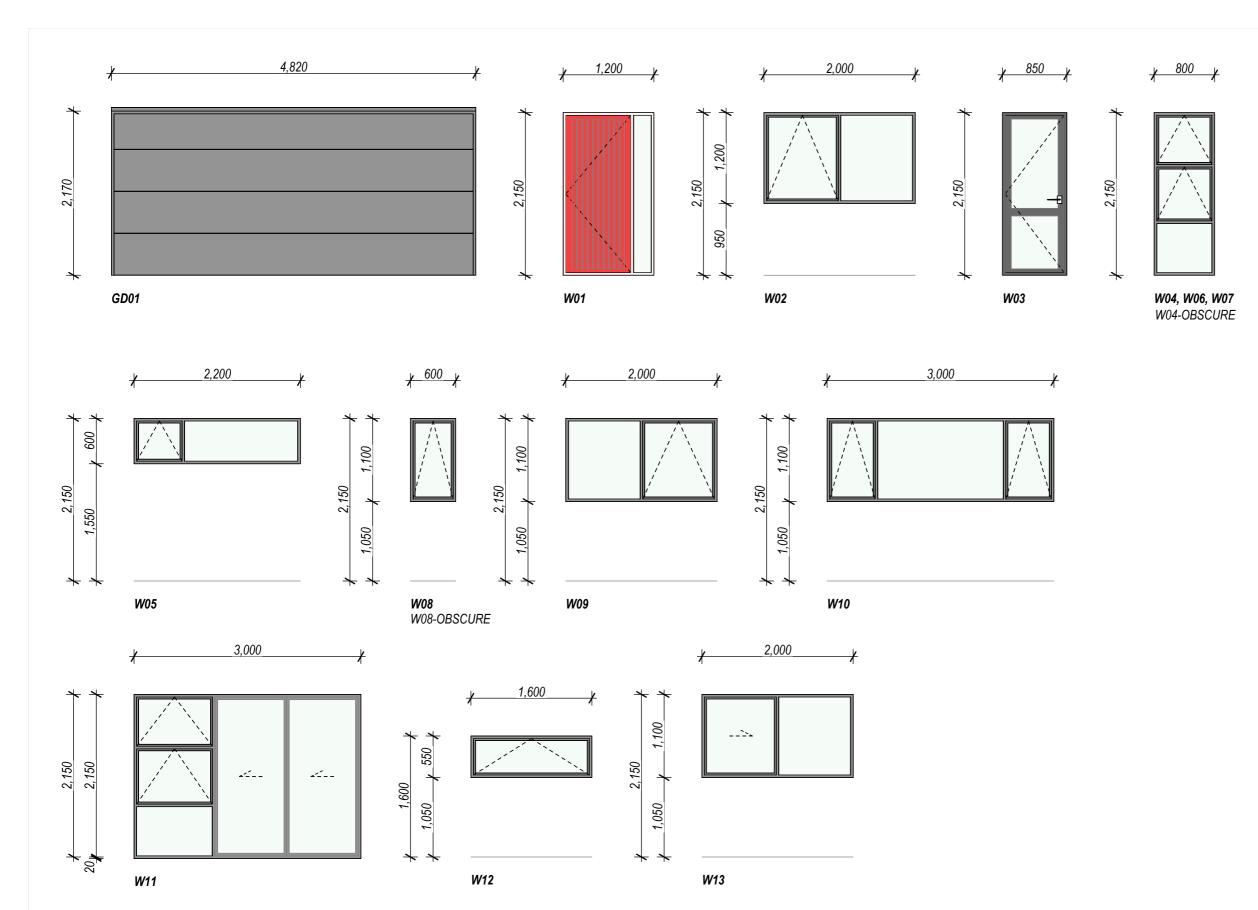
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JOINERY NOTES:

DOUBLE GLAZED CLEAR, ALUMINIUM POWDERCOATED JOINERY. ALL UNITS VIEWED FROM EXTERIOR

ALL DIMENSIONS ARE **TRIM** SIZE (NOT WINDOW SIZE) ALL JOINERY TO HAVE H3.1 JAMBLINERS.

ALL JOINERY TO BE POWDERCOATED ALUMINIUM AND BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS.

ALL JOINERY TO HAVE H3.1 JAMBLINERS.

ALL GLAZING BELOW 800mm FROM F.F.L. TO BE TOUGHENED SAFETY

JOINERY MANUFACTURER TO CHECK AND VERIFY ALL DIMENSIONS, AND STRUCTURAL SUPPORTS WHERE REQUIRED.

GLAZING TO COMPLY WITH THE FOLLOWING STANDARDS NZS 3504: SPECIFICATION FOR ALUMINIUM WINDOWS NZS 4223: CODE OF PRACTICE FOR GLAZING IN BUILDINGS NZS 4211: SPECIFICATION FOR THE PERFORMANCE OF WINDOWS

ALL GLASS SHOWER SCREENS TO BE TOUGHENED SAFETY GLASS TO COMPLY WITH NZS 4223:

ANY WINDOW SILL CLOSER THAN 760mm TO THE TOP OF A TOILET SEAT OR WINDOW SEAT TO HAVE RESTRICTORS INSTALLED AS PER F4/AS1 2.0 AND BE TOUGHENED SAFETY GLASS TO COMPLY WITH NZS 4223:

GLASS, TOUGHENED AS REQUIRED FOR PANE SIZE. ALL FIXINGS AND FLASHINGS TO MANUFACTURERS DETAILS AND SPECIFICATIONS.
INSTALL WITH FLASHING TAPE SYSTEM TO WRAP MANUFACTURERS

SPECIFICATIONS AND DETAILS.

FINISHES TO ALL SILL TRAYS AND FLASHINGS TO MATCH JOINERY FRAMES.

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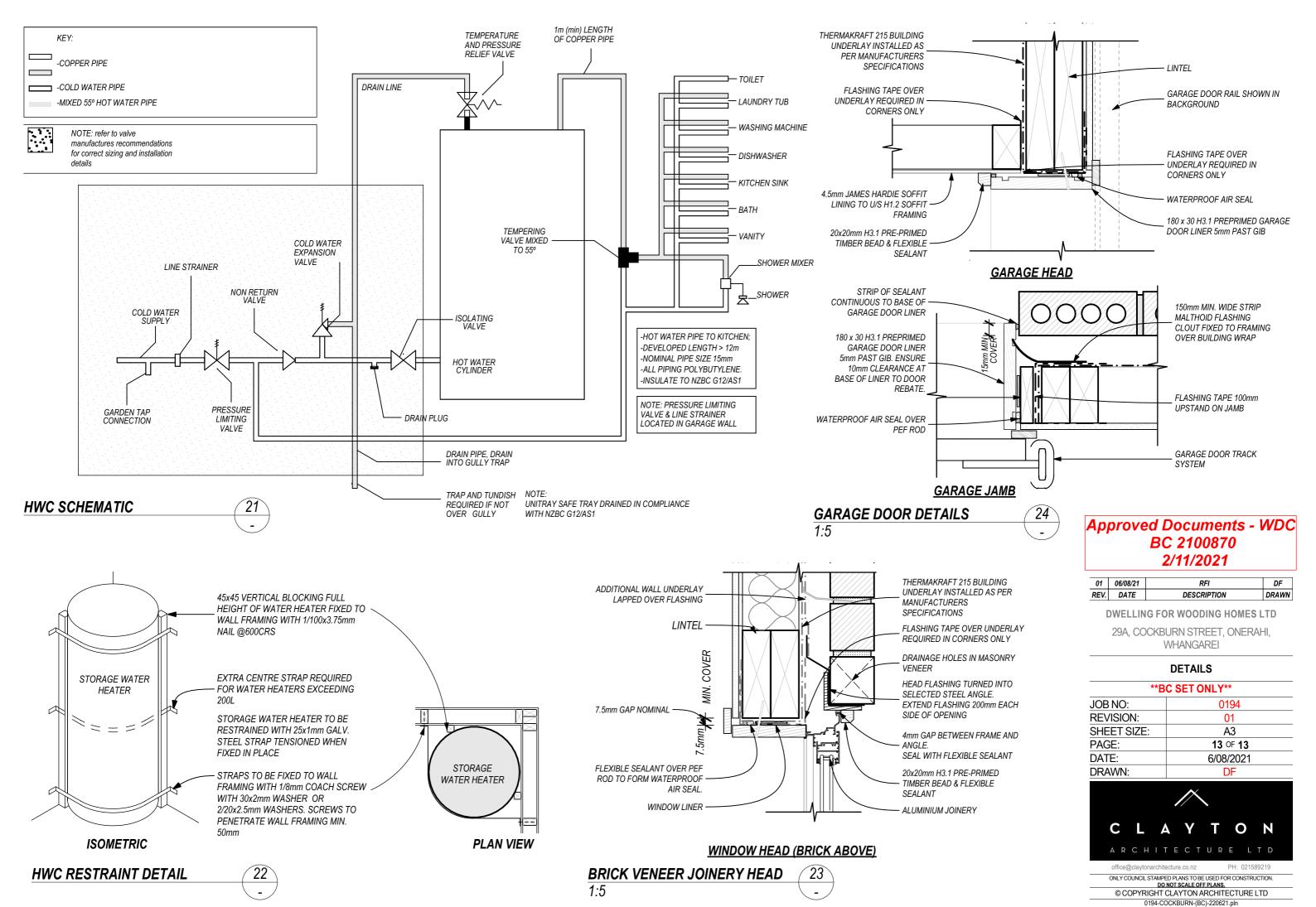
JOINERY SCHEDULE

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PART B As-built services information (continued)

Q	Connection diameter	Pipe m	connection diameter Pipe material	Connection type
\Box	40mm	9	JA,	Public utility
	50mm	15	rifled clay	service connec
0	BOmm	Concrete	ncrete	Septic tank
	Other	mm Other	3	Other

Wastewater - gravity		
Connection diameter	Pippmaterial	Connection type
□ 65mm	M uPVC	Public utility
13 /80mm	☐ Vitrified Clay	. service connection
100mm	☐ Concrete	Septic Bank
Other	mm 🗖 Other	Other O

wastewater – disposal system description Septic fank	stem description EMbent field	/
	litres D Trench	E
Type C Ecotank	Deep soat for	
Other	No of holes	
Sanitary facilities	a Other	
☐ Toilet no	Weste Disposal Unit	*
Bidet no	92	
O Unival no	Apple - Nos - Nos	

		Reg no	Reg no 33/72
Sul	☐ Occupier		5
1	Being the Owner	Certifying plumber	D Certifying draintays

Certify that this private utility service as-built record is an accurate representation of the work carried out

October 2010

06/334816

Private 8ag 9023 | Whangarel 0148 | New Zealand T: 09 430 4200 | 0800 WDC NFO | 0800 922 463 | F: 05 438 7622 | Www.wdc.gov.i.rz | E: maitronn@wdc.gov.i.rz |

Private utility service se-built record

(Section 216, Building Act 2004)

PARTA Consent details (to be completed in all cases)
Building consent no (SCOMOS)

Applicant a name		
Melling address		6
	39a Col Vanon of Warmouri	1

PART B As-built services information (to be completed in relation to service provided, < sech box as appropriate)

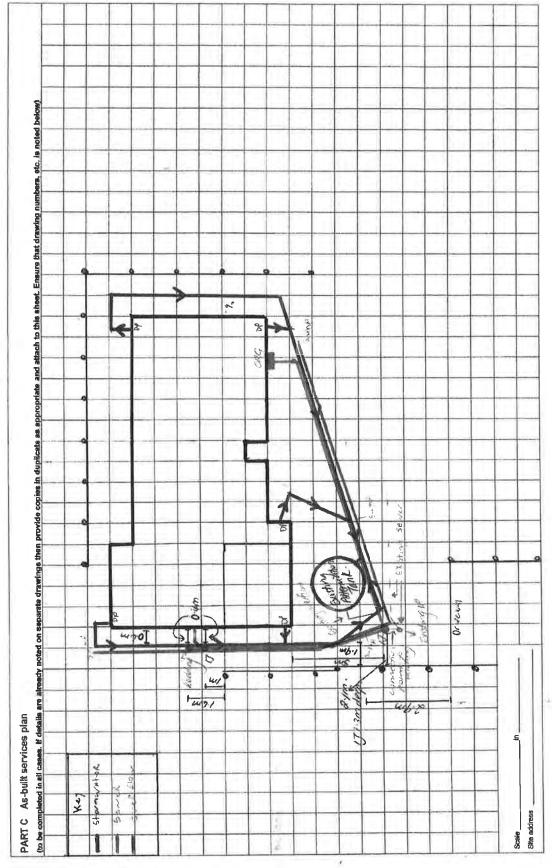
Pipe diameter	E.	Pipe material	8	Connection type
C/ BOrnsin	8	uPVC	K	Public utility service connection
100mm	0	Vitrified clay	0	Soak hole
150mm	0	Ductile iron	0	Stream
C 225mm	0	Concrete	0	Orain
Other	mm D	Other	B	Other Alterization

Litre	man a
	m manufacture of zeros ora
Hot water cylinder High pressure Low pressure Meder type Make	Model Diameter Serial no Reading Reading Courte all black foures includes of serial only
pply finite cold finite cold finite cold finite cold finite finit	rtal - hot
Water supply Pipe material - cold U. uPyC Copper * Copper	Pipe material - hot UPVC Copper Polybutylens

Note Part B As-built services information (continued on last page)

08/334816

October 2010



08/334816

October 2010



Form 7

Code Compliance Certificate BC07105758

Section 95, Building Act 2004

Issued: 17 November 2021

The Building

Street address of building: 29A Cockburn Street

Whangarei 0110

Legal description of land where building is located: LOT 3 DP 396361

LLP: 121747

Building name: N/A Location of building within site/block number: N/A Level unit number: N/A

Current, lawfully established use: **Detached Dwelling**

Year first constructed: 2021

The Owner

Dunnwood Properties Limited 49 Tuatara Drive Kamo 0112

Phone number: N/A

Mobile number: 0277627826

Facsimile number: N/A

Email address: dunnwood19@gmail.com

Website

Street address/registered office: 29A Cockburn Street

Whangarei 0110

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

Contact Person

M Wooding 49 Tuatara Drive Kamo 0112

Phone number: N/A

Mobile number: 0277627826

Facsimile number: N/A

Email address: dunnwood19@gmail.com

Website: N/A



Building Work

House Slab and Drainage Only

Building Consent Number: BC07105758

Issued by: Whangarei District Council

Code Compliance

The building consent authority named below is satisfied, on reasonable grounds, that -

(a) The building work complies with the building consent.

Support Assistant – Building Processing
On behalf of Whangarei District Council



17 November 2021

Dunnwood Properties Limited 49 Tuatara Drive Kamo 0112 Forum North, Private Bag 9023 Whangarei 0148, New Zealand P +64 9 430 4200 F +64 9 438 7632 E mailroom@wdc.govt.nz

www.wdc.govt.nz

Building Consent number BC07105758

Building Work House Slab and Drainage Only

Site Address 29 A Cockburn Street Whangarei 0110

Issue of Code Compliance Certificate

Congratulations on successfully completing your building project.

A Code Compliance Certificate (CCC) has now been issued for your new building.

This brings the consent process to its conclusion and your property files have been updated accordingly.

Thank you for choosing to build in the Whangarei District.

Yours faithfully

Lolly Muliipu

Building Support – Building Control Department