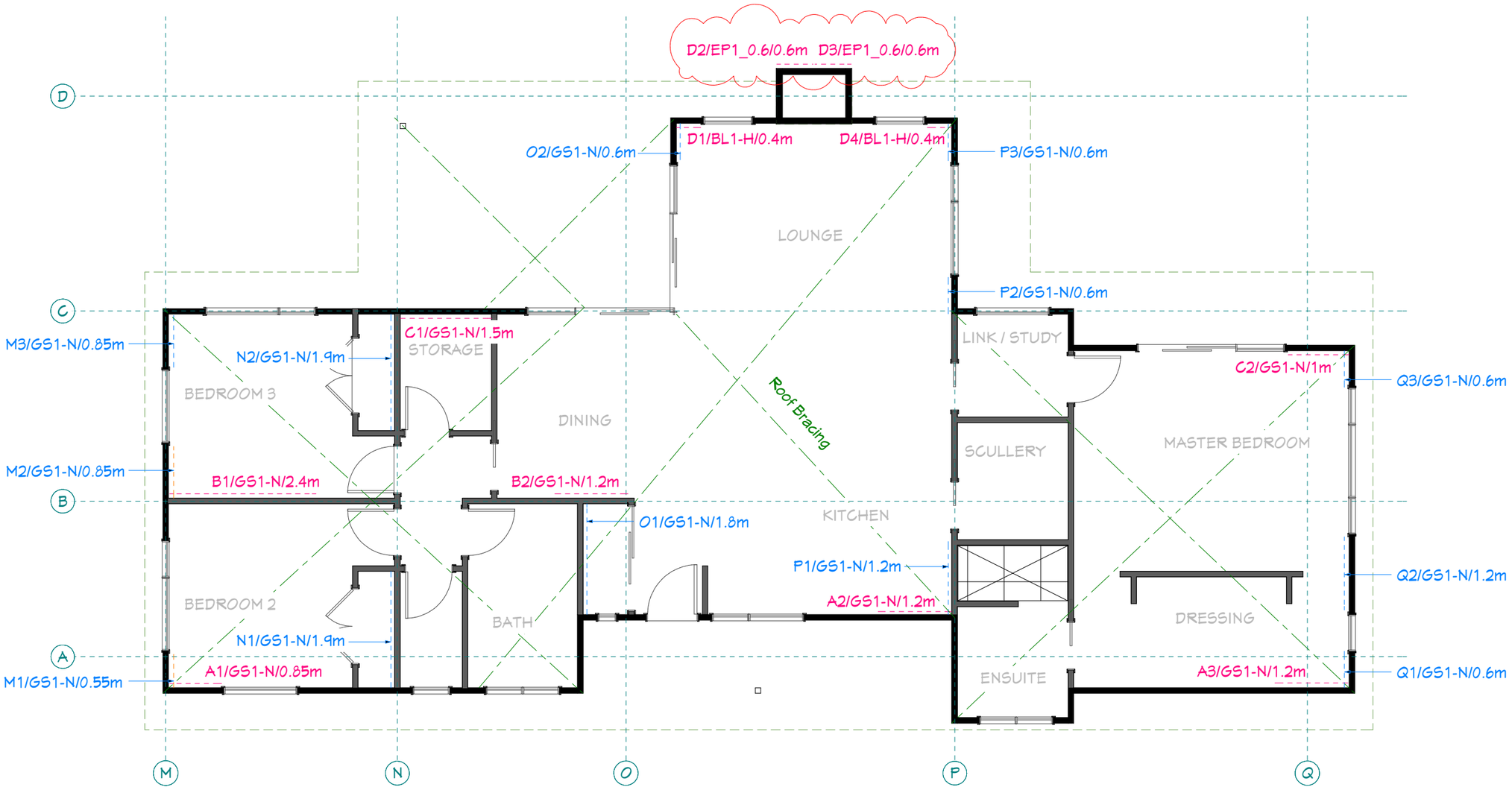
ABA20181397
Minor Variation No 1
Hastings District Council
18/03/2019



Homeworx
New homes design and build

Michael & Mikaela Thompson

143 Havelock Road
Hastings

Drawing Title: Bracing Plan
Drawing Scale: 1:75

Designed by Gordon Sanson
LBP 117656

Notes:

Date Drawing Printed:
Monday, March 18, 2019

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Demand Calculation Sheet

Job Details

Name:	MICHAEL & MIKAELA THOMPSON
Street and Number:	143 HAVELOCK ROAD
Lot and DP Number:	
City/Town/District:	HAVELOCK NORTH, HASTINGS
Designer:	ANNALISA
Company:	HOMEWORX
Date:	Tuesday, September 4, 2018

Building Specification

Number of Storeys	1
Floor Loading	2 kPa
Foundation Type	Slab
	Single
Cladding Weight	Light
Roof Weight	Light
Room in Roof Space	No
Roof Pitch (degrees)	3
Roof Height above Eaves (m)	0.8
Building Height to Apex (m)	3.5
Ground to Lower Floor (m)	0.2
Average Stud Height (m)	2.7
Building Length (m)	19.6
Building Width (m)	10.8
Building Plan Area (m²)	130.2

Building Location

Wind Zone = High

Earthquake Zone 1

Soil Type D & E (Deep to Very Soft)

Annual Prob. of Exceedance: 1 in 2500 (x 1.8)

Bracing Units required for Wind

	Along	Across
Single Level	**398**	**603**

Bracing Units required for Earthquake

	Along & Across
Single Level	**589**

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Single Level Along Resistance Sheet

Job Name: MICHAEL & MIKAELA THOMPSON

									Wind	EQ
									Demand	
									398	589
									Achieved	
Line	Element	Length (m)	Angle (degrees)	Stud Ht. (m)	Type	Supplier	Wind (BUs)	EQ (BUs)	727 183%	672 114%
a	1	0.85		2.4	GS1-N	GIB®	53	50		
	2	1.20		2.4	GS1-N	GIB®	83	72		
	3	1.20		2.4	GS1-N	GIB®	83	72		
									218 OK	194 OK
b	1	2.40		2.6	GS1-N	GIB®	153	133		
	2	1.20		2.6	GS1-N	GIB®	76	66		
									229 OK	199 OK
c	1	1.50		2.8	GS1-N	GIB®	89	77		
	2	1.00		2.8	GS1-N	GIB®	56	51		
									144 OK	128 OK
d	1	0.40		2.9	BL1-H	GIB®	29	33		
	2	0.60		3.6	EP1 0.6	Ecoply	38	42		
	3	0.60		3.6	EP1 0.6	Ecoply	38	42		
	4	0.40		2.9	BL1-H	GIB®	29	33		
									135 OK	150 OK

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Single Level Across Resistance Sheet

Job Name: MICHAEL & MIKAELA THOMPSON

									Wind	EQ
									Demand	
									603	589
									Achieved	
Line	Element	Length (m)	Angle (degrees)	Stud Ht. (m)	Type	Supplier	Wind (BUs)	EQ (BUs)	765 127%	701 119%
m	1	0.55		2.6	GS1-N	GIB®	28	30		
	2	0.85		2.8	GS1-N	GIB®	45	43		
	3	0.85		2.8	GS1-N	GIB®	45	43		
									119 OK	116 OK
n	1	1.90		2.6	GS1-N	GIB®	121	105		
	2	1.90		2.8	GS1-N	GIB®	112	98		
									233 OK	203 OK
o	1	1.80		2.6	GS1-N	GIB®	115	100		
	2	0.60		2.9	GS1-N	GIB®	28	29		
									143 OK	129 OK
p	1	1.20		2.6	GS1-N	GIB®	76	66		
	2	0.60		2.9	GS1-N	GIB®	28	29		
	3	0.60		2.9	GS1-N	GIB®	28	29		
									133 OK	125 OK
q	1	0.60		2.6	GS1-N	GIB®	32	32		
	2	1.20		2.6	GS1-N	GIB®	76	66		
	3	0.60		2.8	GS1-N	GIB®	29	30		
									137 OK	129 OK

Custom Wall Elements

Supplier	System	Min. Length m	Wind BUs/m	EQ BUs/m
Ecoply	EP1 0.4	.4	80	95
Ecoply	EP1 0.6	.6	95	105