

Inspector: M _____ File No. _____

Receipt No. _____

Date Permit Issued 23 / 1 / 92.

OWNER	
Name	<u>I. SINGH</u>
Mailing Address	<u>R.D. 3</u> <u>KATARA.</u>

BUILDER	
Name	<u>NEIGHOOD DESIGN & CONSTRUCTION</u>
Mailing Address	<u>Box 200</u> <u>MANICORU</u>

PROPERTY ON WHICH BUILDING IS TO BE ERECTED/DEMOLISHED

SITE	
Street No.	_____
Street Name	<u>CRUI STREET NORT.</u>
Town/District	<u>MANICORU</u>
Riding	_____

LEGAL DESCRIPTION	
Valuation Roll No.	<u>40 / 231</u>
Lot	<u>1</u> D.P. <u>24851</u>
Section	_____ Block <u>✓</u>
Survey District	<u>MANICORU</u>

DESCRIPTION OF PROPOSED WORK AND MAIN PURPOSE OF USE

DWELLING.

FLOOR AREA		DWELLING UNITS	
Whole Sq. Metres	<u>93</u>	Number Erected	<u>1</u>

ESTIMATED VALUES \$	Building Plumbing Drainage G.S.T. TOTAL	78 000	
		1 800	
		1 200	
		81 000	

NATURE OF PERMIT (TICK BOX)	
☒	NEW BUILDING — exclude domestic garages and domestic outbuildings
☐	FOUNDATIONS ONLY
☐	ALTERED, REPAIRED, EXTENDED, CONVERTED, RESITED — include installation of heating appliances
☐	NEW CONSTRUCTION OTHER THAN BUILDINGS — include demolitions
☐	DOMESTIC GARAGES AND DOMESTIC OUTBUILDINGS

FEES APPLICABLE

Building Permit	\$ <u>400</u>	Water Connection	\$ _____
Street Damage Deposit	\$ _____		\$ _____
Building Research Levy	\$ <u>91 15</u>		\$ _____
Plumbing	\$ _____		\$ _____
Drainage	\$ <u>29</u>		\$ _____
Sewer Connection	\$ _____		\$ _____
Vehicle Crossing Levy	\$ _____	G.S.T.	\$ _____
M.S. Plumbing	\$ _____	TOTAL:	\$ <u>771 15</u>

Receipt No. 141160

Date of Payment 11 / 1 / 92.

Authorised Officer [Signature]

Special Conditions: _____



BCAPP

Date Inspected _____ REMARKS (e.g. stage reached with work)

FAR NORTH DISTRICT COUNCIL



REDAN ROAD,
P.O. BOX 262,
KAITAIA.
PHONE 408-1400

APPLICANT FILE

A

416

NAME:

Registration No. 52-004-926

NORTHWOOD DESIGN.	
Valid Until	

Receipt No.	161160
Date Paid	16/1/92
Valuation No.	40131

AGE, Kaitaia

Building Permit	SHOOSNITUA	480	
Drainage/Plumbing Permit		250	
Sewerage Connection Fee			
Building Research Levy		91	15
Water Meter			
Water Meter Connection			
Other Fees			
Total Including G.S.T.	\$	821	15
Street Damage Deposit (No G.S.T. Content)	\$		
TOTAL FEES DUE	\$	821	15

This document is an Advice Note — **NOT A TAX INVOICE**. Should you wish to proceed with the application, payment must be made at the above address and the appropriate Certificate/Permit will be issued subject to compliance.

PLEASE PRODUCE THIS COPY WHEN MAKING PAYMENT

FAR NORTH DISTRICT COUNCIL

MEMORIAL AVE KAIKOHE
TELEPHONE 0-9-401 2101

G.S.T. REG. No. 52-004-926

SERVICE CENTRES:-

KAIKOHE Ph 0-9-401 2101

RAWENE Ph 0-9-405 7829

KAITAIA Ph 0-9-408 1400

KAEŌ Ph 0-9-405 0297

KERI KERI Ph 0-9-407 7033

KAWAKAWA Ph 0-9-404 0371

OFFICIAL
RECEIPT

NAME AND ADDRESS DETAILS		ASSESSMENT No. ACCOUNT No.	AMOUNT RECEIVED
FG SHOO SMITH	012621458000000002	480.00	
	012621460000000002	250.00	
	010002001000008093	91.15	
R SIGMA PACIFIC CONSTRUCTI			

r Clk Building Pmt

402 RECEIPT No.

DATE 11-92

\$0.00 AMOUNT
TENDERED
\$821.15

TOTAL: \$821.15
\$0.00 CHANGE
OP:62/TT:332

FAR NORTH DISTRICT COUNCIL

APPLICATION FOR BUILDING PERMIT

OWNER	BUILDER
NAME I.D. + B.F.G. SHOOSMITH	NAME NORTHWOOD DESIGN + CONSTRUCTION
ADDRESS CABLE BAY HTS	ADDRESS P.O. BOX 200
RD 3	MANGONUI
KAITAIA	

LOCATION OF PROPERTY

STREET NO. 2	VALUATION NO. 40/23100
STREET NAME GREY STREET WEST	LOT 1 D.P. 24851
TOWN/DISTRICT MANGONUI	SECTION BLOCK IV
WARD NORTHERN	SURVEY DISTRICT MANGONUI

DESCRIPTION OF PROPOSED WORK

FOR EXAMPLE; DWELLING/CARPORT/ADDS TO DWELLING/GARAGE/FACTORY/HAYBARN ETC.	FLOOR AREA OF BUILDING	NUMBER OF UNITS
DWELLING	93.6 m ²	1
ESTIMATED VALUE OF BUILDING	\$ 74,000	
ESTIMATED VALUE OF PLUMBING	\$ 1,800	
ESTIMATED VALUE OF DRAINAGE	\$ 1,200	
TOTAL VALUE	\$ 81,000	

SIGNATURE OF APPLICANT R.C. Myland DATE 5/1/92
CONTACT PHONE NUMBER (09) 4060999

BUILDING PERMIT	\$ 480	T.S.C.B.P.P.F
PLUMBING/DRAINAGE	\$ 250	T.S.C.P.D.P.F
ROAD DAMAGE DEPOSIT	\$	T.S.C.G.I.D.T
WATER METER	\$	
B.R.A. LEVY	\$ 91-15	T.S.C.B.P.B
TOTAL FEE	\$ 821-15	RECEIPT NO 161160
		DATE 16/1/92

RICHARD I.R. CATTERALL
MA, MICE, MIPENZ.
PO BOX 53 MANGONUI
TEL (09) 4060668
CALCULATION SHEET

JOB NAME: I SHOESMITH

PAGE No:

SECTION: FOUNDATION WALLS

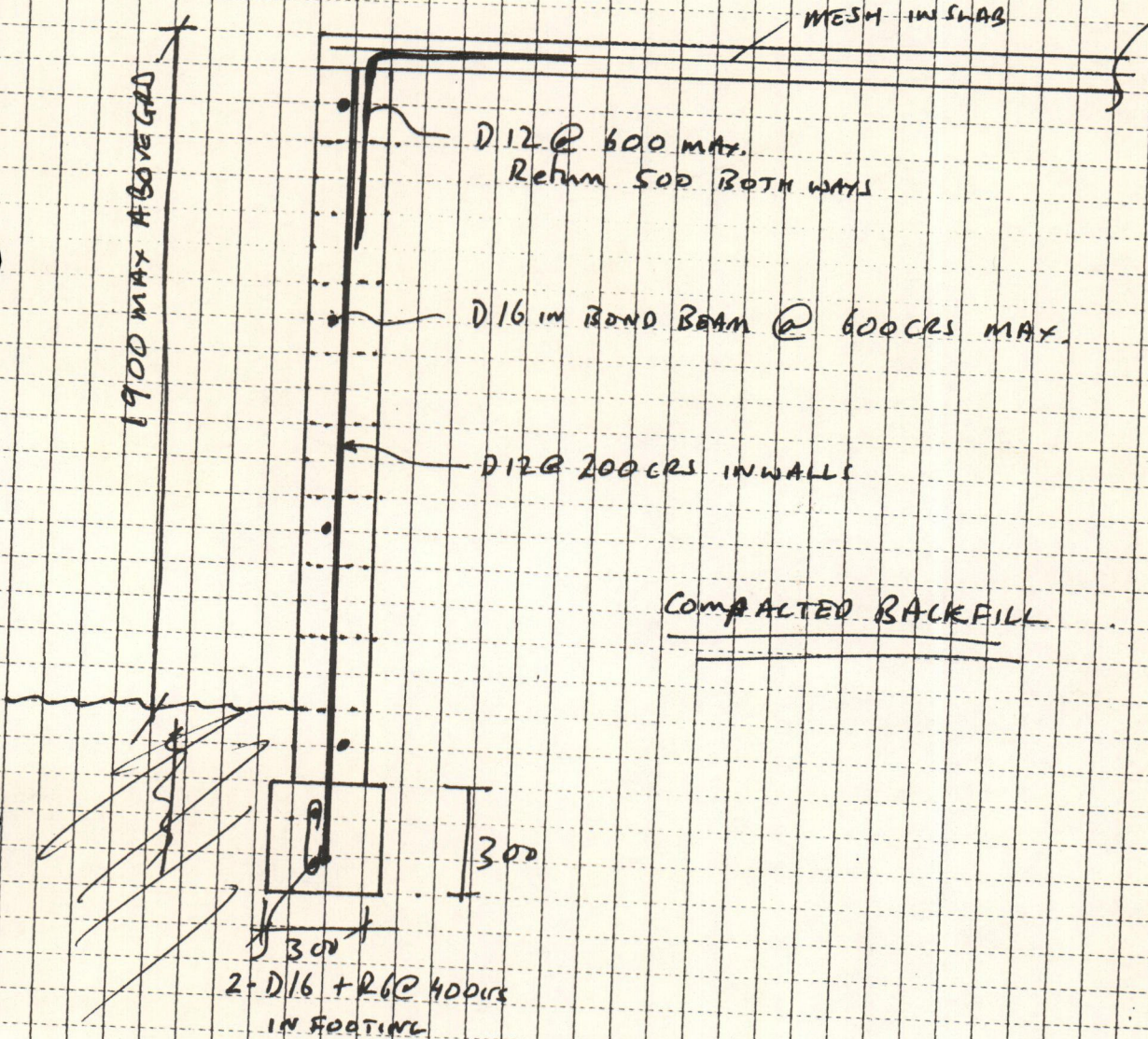
3

JOB No:

DESIGNED: RIR

DATE: 22/1/92

CHECKED:



[Handwritten signature]

RICHARD I. R. CATTERALL
MA. MICE. WIPENZ.
PO BOX 53 MANGONUI
TEL (09) 4060668
CALCULATION SHEET

JOB NAME: I SHOESMITH

PAGE No:

SECTION: FOUNDATION WALLS

3

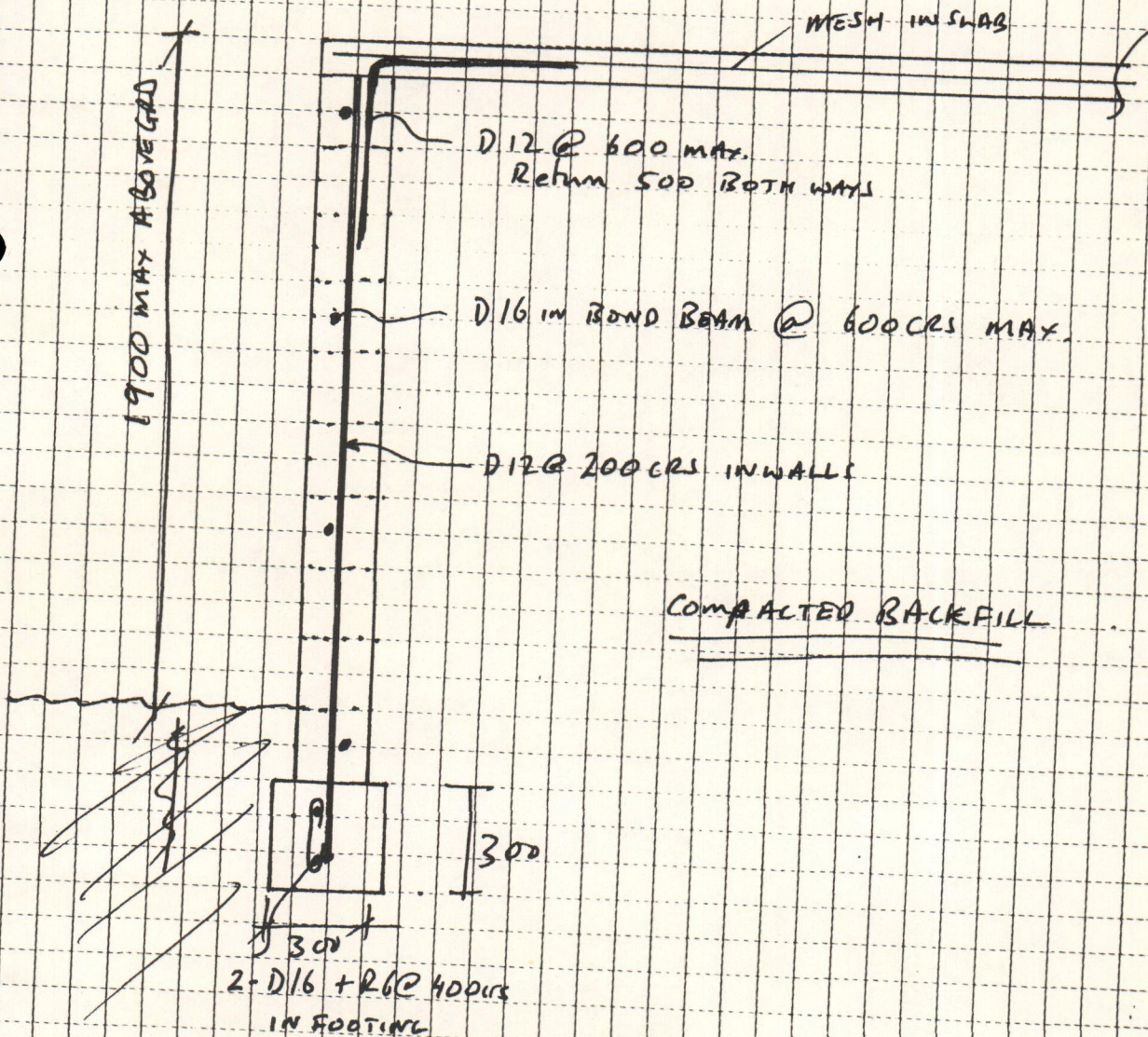
JOB No:

DESIGNED:

[Signature]

DATE: 22/1/92

CHECKED:



RICHARD I.R. CATTERALL
MA, MICE, MIPENZ.
PO BOX 53 MANGONUI
TEL (09) 4060668

CALCULATION SHEET

JOB NAME: I. SHOESMITH

PAGE No:

SECTION: FOUNDATION WALLS

1

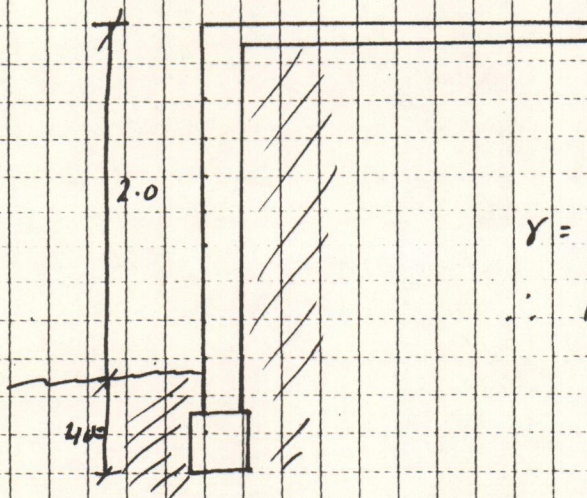
JOB No:

DESIGNED: RRE.

DATE: 22/1/92

CHECKED:

WALL TO SUPPORT FILL:



$$\gamma = 19.6 \quad \phi = 30 \quad K_a = 0.3$$

$$\therefore \text{total load} = \frac{19.6 \times 2.3^2}{2} \times 0.3 \times 2$$
$$= 17.5 \text{ KN/m run}$$

Allow for backfill to outside to provide resistance.
→ as illustrated above.

$$\therefore M_{\max} = 5.53 \text{ KN-m (factored 1.7)}$$

(refer printout attached)

$$\text{for } D12 @ 200 \text{ c/s} \quad \rho = \frac{565}{1000 \times 190} = 0.00297$$

$$\therefore \omega = 0.1 \quad \& \quad \omega(1 - 0.59\omega) = 0.09$$

$$M_u = 0.9 \times 1000 \times 95^2 \times \rho \times 0.9 \times 10^3 = 5.85 \text{ KN-m}$$

O.K.

RICHARD I. R. CATTERALL
MA, MICE, MIPENZ.
PO BOX 53 MANGONUI
TEL (09) 4060668
CALCULATION SHEET

JOB NAME: I SHOE SMITH

PAGE No:

SECTION: FOUNDATION WALLS

2

JOB No:

DESIGNED: RRC

DATE: 22/1/92

CHECKED:

LOAD TO BASE = 20 kN/m

∴ load to soil = ~~50~~ 50 kPa o.k. for 400 depth min

INCREASE FOOTING TO 300 DEEP - load = 70 kPa o.k.

(max ground test in area = 910 kPa)

Floor to provide support to top of wall.

Load = 7 kN/m

— normal starters o.k. say D12 @ 600

Require bend beams to walls.

D16 @ 600 max.

S T R U C T U R E I N P U T D A T A

File: WALL.DAT

STRUCTURE DATA

NODAL DATA

Node	Xcoord	Ycoord	Xrestr	Yrestr	Zrestr
1	0.000	0.000	1	1	0
2	0.400	0.000	0	0	0
3	0.800	0.000	0	0	0
4	1.200	0.000	0	0	0
5	1.600	0.000	0	0	0
6	2.000	0.000	0	1	0

MEMBER DATA

Member	LHNode	RHNode	PropRef	EndFixity	Length
1	1	2	1	1	0.400
2	2	3	1	1	0.400
3	3	4	1	1	0.400
4	4	5	1	1	0.400
5	5	6	1	1	0.400

PROPERTY DATA

Ref	Elasticity	XArea	Inertia	Sect-Mod	Description
1	2.291E+07	1.900E-01	5.710E-04	3.010E-03	200 BLOCKWORK

S T R U C T U R E I N P U T D A T A

File: WALL.DAT

LOAD Case: 1

Title: ****

MEMBER UDLs				
Num	Member	St-UDL	Fin-UDL	Direction
1	1	0.000	2.542	0
2	2	2.542	5.083	0
3	3	5.083	7.625	0
4	4	7.625	10.167	0
5	5	10.167	12.708	0

S T R U C T U R E O U T P U T D A T A -----

File: WALL.DAT

LOAD COMBINATION

Number: 1
 Title: ****
 Factor: 1.70

NODAL DEFLECTIONS & SUPPORT REACTIONS

Node	X-Defln	Y-Defln	Z-Rotn	X-React	Y-React	Z-React
1	0.000000	0.000000	0.000257	0.000	-7.202	0.000
2	0.000000	0.000097	0.000214	0.000	0.000	0.000
3	0.000000	0.000161	0.000095	0.000	0.000	0.000
4	0.000000	0.000167	-0.000068	0.000	0.000	0.000
5	0.000000	0.000107	-0.000222	0.000	0.000	0.000
6	0.000000	0.000000	-0.000294	0.000	-14.403	0.000

MEMBER AXIAL LOADS, SHEARS, & MOMENTS

Memb	Node	Axial	Shear	Moment	Node	Axial	Shear	Moment
1	1	0.000	-7.202	-0.000	2	0.000	6.337	-2.765
2	2	0.000	-6.337	2.765	3	0.000	3.745	-4.839
3	3	0.000	-3.745	4.839	4	0.000	-0.576	-5.531
4	4	0.000	0.576	5.531	5	0.000	-6.625	-4.148
5	5	0.000	6.625	4.148	6	0.000	-14.403	0.000

MEMBER STRESS AXIAL, SHEAR, & BENDING

Memb	Node	AxialStr	ShearStr	BendStr	Node	AxialStr	ShearStr	BendStr
1	1	0.000	-0.038	0.000	2	0.000	-0.033	0.919
2	2	0.000	-0.033	0.919	3	0.000	-0.020	1.608
3	3	0.000	-0.020	1.608	4	0.000	0.003	1.837
4	4	0.000	0.003	1.837	5	0.000	0.035	1.378
5	5	0.000	0.035	1.378	6	0.000	0.076	0.000

EQUILIBRIUM SUMMARY

	Horizontal	Vertical
Applied Loads	0.000	21.604
Support Reactions	0.000	-21.604

BRACING CALCULATIONS to NZS 3604:1990

NAME: Shoosmith House
SITE ADDRESS: Mill Bay

STOREY: Subfloor

FOR EARTHQUAKE
Roof weight: light E = 3 B.U.'s/m²
Average roof slope: 15 degrees
Earthquake zone: C

FOR WIND (Wind Region - R2)

Ground Roughness: Open
Exposure: Sheltered
Topographic classification: T1
Wind speed: H

Height of Building: 4 m
Height of Roof above eaves: 1 m WIND ALONG (WW)= 86 B.U.'s/m
Greatest roof slope: 15 degrees WIND ACROSS (WL)= 73 B.U.'s/m

ROOF or BUILDING LENGTH: 13.0 m (BL)
ROOF or BUILDING WIDTH: 7.2 m (BW)
GROSS ROOF or PLAN AREA: 93.6 m² (GPA)

EARTHQUAKE LOAD (ExGPA): 281 B.U.'s
WIND LOAD ALONG (WLxBW): 526 B.U.'s
WIND LOAD ACROSS (WWxBL): 1118 B.U.'s

ALONG

	LINE LABEL	MINIMUM B.U.'s	BRACE LABEL	TYPE	B.U.'s Wind	B.U.'s Earthqu	ELEMENT LENGTH	B.U.'s ACHIEVED	B.U.'s ACHIEVED
Total B.U.'s required this direction for wind	A	100	1	14	160.0	70.0	1.0	160.0	70.0
			2	14	160.0	70.0	1.0	160.0	70.0
			3	14	160.0	70.0	1.0	160.0	70.0
	B	70						0.0	0.0
			4	14	160.0	70.0	1.0	160.0	70.0
	C	100						0.0	0.0
			5	14	160.0	70.0	1.0	160.0	70.0
6			14	160.0	70.0	1.0	160.0	70.0	
			7	14	160.0	70.0	1.0	160.0	70.0
526							TOTAL	1120.0	490.0

ACROSS

	LINE LABEL	MINIMUM B.U.'s	BRACE LABEL	TYPE	B.U.'s Wind	B.U.'s Earthqu	ELEMENT LENGTH	B.U.'s ACHIEVED	B.U.'s ACHIEVED
Total B.U.'s required this direction for wind	M	130	1	14	160.0	70.0	1.0	160.0	70.0
			4	14	160.0	70.0	1.0	160.0	70.0
			5	14	160.0	70.0	1.0	160.0	70.0
	N	70	2	14	160.0	70.0	1.0	160.0	70.0
								0.0	0.0
	O	70	6	14	160.0	70.0	1.0	160.0	70.0
	P	70	3	14	160.0	70.0	1.0	160.0	70.0
					7	14	160.0	70.0	70.0
WIND EARTHQUAKE									
1118							TOTAL	1120.0	490.0

BRACING CALCULATIONS to NZS 3604:1990

NAME: Shoosmith House
SITE ADDRESS: Mill Bay

STOREY: Walls

FOR EARTHQUAKE

Roof weight: light E = 1.4 B.U.'s/m²
Average roof slope: 15 degrees
Earthquake zone: C

FOR WIND (Wind Region - R2)

Ground Roughness: Open
Exposure: Sheltered
Topographic classification: T1
Wind speed: H

Height of Building: 4 m
Height of Roof above eaves: 1 m WIND ALONG (WW)= 49 B.U.'s/m
Greatest roof slope: 15 degrees WIND ACROSS (WL)= 35 B.U.'s/m

ROOF or BUILDING LENGTH: 19.6 m (BL)
ROOF or BUILDING WIDTH: 7.2 m (BW)
GROSS ROOF or PLAN AREA: 141 m² (GPA)

EARTHQUAKE LOAD (ExGPA): 198 B.U.'s
WIND LOAD ALONG (WLxBW): 252 B.U.'s
WIND LOAD ACROSS (WWxBL): 960 B.U.'s

ALONG

	LINE LABEL	MINIMUM B.U.'s	BRACE LABEL	TYPE	B.U.'s Wind	B.U.'s Earthqu	ELEMENT LENGTH	B.U.'s ACHIEVED	B.U.'s ACHIEVED
Total B.U.'s required this direction for wind	A	196	8	G1	62.0	47.0	2.1	130.2	98.7
								0.0	0.0
			9	G3	76.0	46.0	2.1	159.6	96.6
	B	70						0.0	0.0
			10	G1	92.0	67.0	3.0	276.0	201.0
	C	196						0.0	0.0
WIND EARTHQUAKE									
252							TOTAL	565.8	396.3

ACROSS

	LINE LABEL	MINIMUM B.U.'s	BRACE LABEL	TYPE	B.U.'s Wind	B.U.'s Earthqu	ELEMENT LENGTH	B.U.'s ACHIEVED	B.U.'s ACHIEVED
Total B.U.'s required this direction for wind	M	100	11	G1	92.0	40.0	2.4	220.8	96.0
	N	70	12	G3	76.0	67.0	2.4	182.4	160.8
	O	70	13	G3	76.0	67.0	2.4	182.4	160.8
	P	70	14	G1	92.0	40.0	2.4	220.8	96.0
	Q	100	15	G1	92.0	40.0	2.4	220.8	96.0
								0.0	0.0
								0.0	0.0
WIND EARTHQUAKE									
960							TOTAL	1027.2	609.6

BRACING CALCULATIONS to NZS 3604:1990

NAME: Shoosmith House
SITE ADDRESS: Mill Bay

STOREY: Subfloor

FOR EARTHQUAKE

Roof weight: light E = 3 B.U.'s/m²
Average roof slope: 15 degrees
Earthquake zone: C

FOR WIND (Wind Region - R2)

Ground Roughness: Open
Exposure: Sheltered
Topographic classification: T1
Wind speed: H

Height of Building: 4 m
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			2	14	160.0	70.0	1.0	160.0	70.0
			3	14	160.0	70.0	1.0	160.0	70.0
	B	70	4	14	160.0	70.0	1.0	0.0	0.0
								160.0	70.0
	C	100	5	14	160.0	70.0	1.0	160.0	70.0
			6	14	160.0	70.0	1.0	160.0	70.0
			7	14	160.0	70.0	1.0	160.0	70.0
								WIND	EARTHQUAKE
526							TOTAL	1120.0	490.0

ACROSS

	LINE LABEL	MINIMUM B.U.'s	BRACE LABEL	TYPE	B.U.'s Wind	B.U.'s Earthqu	ELEMENT LENGTH	B.U.'s ACHIEVED	B.U.'s ACHIEVED
Total B.U.'s required this direction for wind	M	130	1	14	160.0	70.0	1.0	160.0	70.0
			4	14	160.0	70.0	1.0	160.0	70.0
			5	14	160.0	70.0	1.0	160.0	70.0
	N	70	2	14	160.0	70.0	1.0	160.0	70.0
								0.0	0.0
Total B.U.'s required this direction for wind	O	70	6	14	160.0	70.0	1.0	160.0	70.0
	P	70	3	14	160.0	70.0	1.0	160.0	70.0
			7	14	160.0	70.0	1.0	160.0	70.0
								WIND	EARTHQUAKE
1118							TOTAL	1120.0	490.0

BRACING CALCULATIONS to NZS 3604:1990

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STOREY: Walls

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								0.0	0.0
	B	70	9	G3	76.0	46.0	2.1	159.6	96.6
								0.0	0.0
	C	196	10	G1	92.0	67.0	3.0	276.0	201.0
								0.0	0.0
								WIND	EARTHQUAKE
252							TOTAL	565.8	396.3

ACROSS

	LINE LABEL	MINIMUM B.U.'s	BRACE LABEL	TYPE	B.U.'s Wind	B.U.'s Earthqu	ELEMENT LENGTH	B.U.'s ACHIEVED	B.U.'s ACHIEVED
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	P	70	14	G1	92.0	40.0	2.4	220.8	96.0
	Q	100	15	G1	92.0	40.0	2.4	220.8	96.0
								0.0	0.0
								0.0	0.0
								WIND	EARTHQUAKE
960							TOTAL	1027.2	609.6