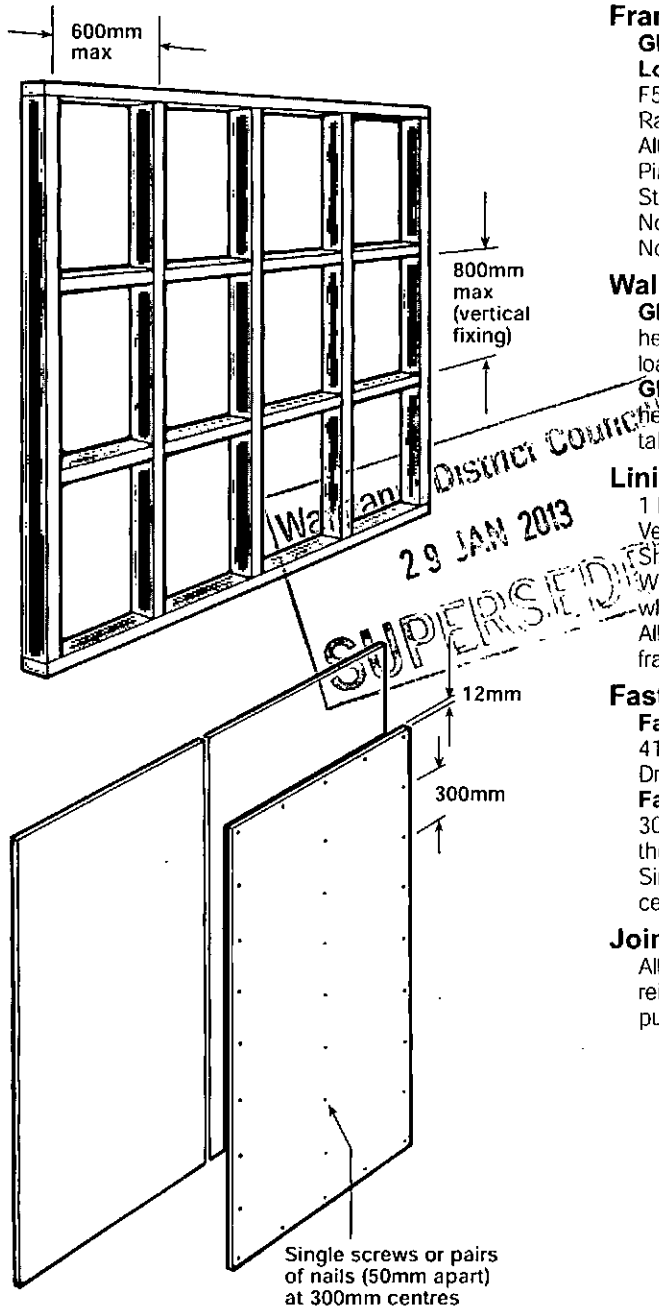
Fire Rated Wall Systems
Two Way FRR – Timber Frame

Specification Number	Loadbearing Capability	Fire Resistance Rating	Lining Requirements	Sound Transmission Class	System Weight Approx
GBT 30a	**NLB**	**-/30/30**	**1 x 10mm Gib® Fyreline each side**	**STC 36**	**22kg/m²**
GBTL 30	**LB**	**30/30/30**			



Framing

GBT30a Non Loadbearing and GBTL30 Loadbearing

F5 stress grade or No.1 visually graded kiln dried Radiata Pine actual dimensions 70 x 35mm minimum.
Alternatively No. 1 framing grade H1 treated Radiata Pine nominal dimensions 75 x 50mm minimum.
Studs at 600mm centres maximum.
Nogs at 800mm centres maximum for Vertical fixing.
Nogs at 1200mm centres for Horizontal fixing.

Wall Heights and Framing Dimensions

GBT30a Non Loadbearing - Framing dimensions and height as determined by NZS3604 stud tables for non loadbearing partitions.

GBTL30 Loadbearing - Framing dimensions and height as determined by NZS3604 stud and top plate tables for loadbearing walls.

Lining

1 layer of 10mm Gib® Fyreline each side of the frame.
Vertical or Horizontal fixing permitted.
Sheets shall be touch fitted.
When fixing vertically, full height sheets shall be used where possible.
All sheet joints must be formed over solid timber framing.

Fastening the Lining

Fasteners

41mm x 6g Gib® Grabber Scavenger Head High Thread Drywall screws or 40mm x 2.8mm Gib® nails.

Fastener Centres

300mm centres around the sheet perimeter, 12mm from the sheet edge.
Single screws or pairs of nails (50mm apart) at 300mm centres to intermediate studs.

Jointing

All fastener heads stopped and all sheet joints tape reinforced and stopped in accordance with the publication entitled "Gib Living Solutions® Site Guide".

MiTek New Zealand Limited

Correspondence from : **AUCKLAND**
40 Neales Road, East Tamaki 2013
PO Box 58-014, Botany 2163
Phone: 09 274 7109
Fax: 09 274 7100

CHRISTCHURCH
14 Pilkington Way, Wigram 8042
PO Box 8387, Riccarton 8440
Phone: 03 348 8691
Fax: 03 348 0314

www.miteknz.co.nz

PRODUCER STATEMENT for MiTek 20/20® TRUSS DESIGN - Version 4.6

ISSUED BY: **MiTek New Zealand Limited**

TO: **PlaceMakers Taupo**

IN RESPECT OF: **MiTek® Truss Designs**

This producer statement covers the MiTek 20/20® truss design and the structural performance of the GANG-NAIL® connector plate for the job reference **WG067** and may be used by a Building Consent Authority to assist in determining compliance with the New Zealand Building Code.

The MiTek 20/20® truss design program has been developed by MiTek New Zealand Limited for the design of MiTek ® timber roof, floor and attic trusses in New Zealand. The truss designs computed by MiTek 20/20® are prepared using sound and widely accepted engineering principles, and in accordance with compliance documents of the New Zealand Building Code and Verification Method B1/VM1; and internationally accepted standard ANSI/TPI 1 - 2002 as an alternative solution to satisfy the requirements of Clause B1 of the New Zealand Building Code.

On behalf of MiTek New Zealand Limited, and subject to:

i) All proprietary products meeting their performance specification requirements
ii) The provision of adequate roof bracing and overall building stability
iii) Correct selection and placement of GANG-NAIL connector plates
iv) Correct input of Truss Design Data as shown in the Fabricator Design Statement for this job
v) The design being undertaken by the accredited fabricator under the terms of the software licence

I believe on reasonable grounds that the trusses, if constructed in accordance with the MiTek 20/20® truss design and shop drawings, will comply with the relevant provisions of the New Zealand Building Code.

MiTek New Zealand Limited holds a current policy of Professional Indemnity Insurance no less than $500,000.

On behalf of MiTek New Zealand Limited, **Date: Monday, 23 July 2012**

In Ling Ng, BE (Hons), CPEng, IntPE, MIPENZ (ID: 146585)
TECHNICAL SERVICES MANAGER, MiTek New Zealand Limited

NOTES

BUILDING CONSENT INFORMATION
These layouts and associated design statements are provided as a means of showing compliance with NZBC and may be used for Building Consent Application purposes only.
This is a Buildable layout which may have some dimensional changes completed at time of truss manufacture.

As built roof truss layouts, truss fixing details, and a Producer Statement for the design of the roof trusses will be provided at the time of manufacture.

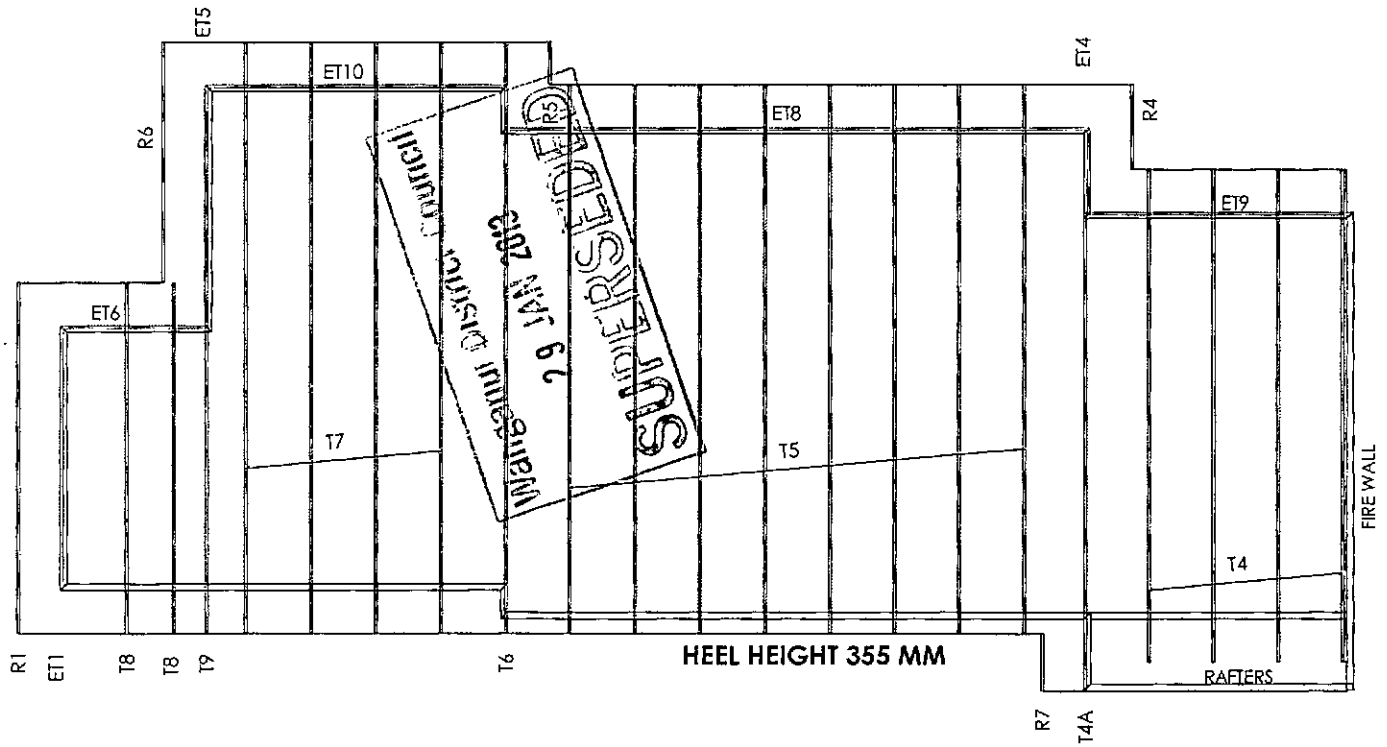
All walls shown on this layout are considered to be load bearing.

All point loads over 10kN as shown will require slab thickening or pad.

Lintels under girder trusses as noted.

These Lintels have been designed using the relevent selection manuals and/or software programs.

As per NZS3604:2011, Lintels are SG8 and may be subsituted for GL8 or higher at time of manufacture.



Mirrored

FTMA NEW ZEALAND

PlaceMakers TRUSSTEK PRENAILS LTD
TAUPO Ph. (07) 376-5893 Fax. (07) 376-5894

Job Name : SIGLEY/GORDON
Site Addess : 60 DUNCAN ST WANGANUI

Sheet Title : For Building Consent Truss Layout
Date : 23 Jul,2012 Drawn : Fay Woodburn
Scale : 1: 100

Job Details:		
	Roof Pitch - deg	: 5.000
	Wind Zone	: High
	Wind Speed - m/s	: 44.0
	Roof Material	: Galv Iron .5mm
	Ceiling Material	: Gib Board 12mm
	Roof Live Load - kPa	: 0.250
	Floor Live Load - kPa	:
	Basic Roof Snow Load - kPa	: 0.000
	Truss Centres - mm	: 900

PrimeCad v4.8.8.145
Job Number : WG067
Sheet : 1
Consent Number :

Job: /WG067 Client: *PLACEMAKERS TAUPO Site: SIGLEY/GORDON
Phone: 60 DUNCAN ST
WANGANUI
Description:
Building Consent No.: Phone:

MITEK FABRICATOR DESIGN STATEMENT

This statement is issued by MiTek accredited fabricator **PlaceMakers Taupo**, being licensed to use the MiTek 20/20® software, to the client listed above and may be used by the Building Consent Authority to assist in determining compliance with the New Zealand Building Code.

MiTek 20/20® TRUSS DESIGN DATA

The MiTek 20/20® computer design for this job is based on the following design parameters entered into the program. The Fabricator shall ensure that these job details are current and relevant to the project for the design of the MiTek® trusses.

Job Details

Roof Truss					
Timber Group:	PT Truss x 45 1007	Pitch:	5.000 deg	Nominal Overhang:	600 mm
Roof		**Ceiling**		**Wind**	
Material:	Galv Iron .5mm	Material:	Gib Board 12mm	Area:	High (44.0 m/s)
Dead Load:	0.210 kPa	Dead Load:	0.200 kPa	Pressure Coeff:	Cpe = varies; Cpi = -0.30, 0.20
Restraints:	900 mm centres	Restraints:	1800 mm centres		
Live Load:	Qur = 0.250 kPa Qc = 1.100 kN	Live Load:	Qc = 1.400 kN		

Importance Level : 2

Design Working Life : 50 years

The timber for these MiTek® trusses shall be treated to the requirements of NZS 3602:2003 and shall be graded to the requirements of NZS 3603:1993. Unless otherwise noted, this design assumes that the steel fixings and timber connectors proposed are located in a **"closed environment"**, as defined by NZS3604:2011 Section 4.

MiTek® Truss List

L[redacted]: * = detail only, ? = input only, ~~Txx~~ = failed design, Ø = non certified, Unmarked trusses = designed successfully, LB = lateral bracing required
GB = gable brace required

Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)
T4A	1	6644	5.000	900	ET9	1	3660	0.000	900	*R5	1	600	5.000	900
T5	8	6824	5.000	900	ET10	1	4180	0.000	900	*R6	1	3359	5.000	900
T7	4	7024	5.000	900	T4	4	5554	5.000	900	*R7	1	801	5.000	900
ET1	1	3665	5.000	900	T6	1	7424	5.000	900					
ET4	1	1180	5.000	900	T8	2	3665	5.000	900					
ET5	1	3359	5.000	900	T9	1	3665	5.000	900					
ET6	1	2000	0.000	900	*R1	1	4900	5.000	900					
ET8	1	8070	0.000	900	*R4	1	1180	5.000	900					

Total quantity : 33

Wanganui District Council
29 JAN 2013
SUPERSEDED

Wanganui District Council
18 DEC 2012
RECEIVED

The computer design input has been carried out by:

Signed: .....

Date: ...Monday, 23 July 2012....

Name of Detailer: .....

Qualifications and Title:

On behalf of: PlaceMakers Taupo

Job: WG067 Client: PLACEMAKERS TAUPO Site: SIGLEY/GORDON
Phone: 60 DUNCAN ST
WANGANUI

Description:
Building Consent No.:
Phone:

TRUSS FIXING SELECTION REPORT - Characteristic Loads

Fixings are selected from the LUMBERLOK Brochure 03/4 (Timber Connectors Characteristic Loadings Data)

MiTek® Truss List

Legend: * = detail only, ? = input only, ~~To~~ = failed design, Ø = non certified, Unmarked trusses = designed successfully

Truss	Qty	Span (mm)	Joint	Down (kN)	Uplift (kN)	Bearing	Fixing Qty	Fixing Selected
T4A	1	6644	I	0.507	1.213	Cross	1	Pair of Wire Dog Staples
			P	3.082	2.475	Cross	1	Pair of Wire Dog Staples
			J	4.787	4.658	Cross	1	CT400
T5	8	6824	J	3.640	3.509	Cross	8	CT400
			P	4.359	3.374	Cross	8	CT400
T7	4	7024	J	4.130	3.588	Cross	4	CT400
			P	4.478	3.469	Cross	4	CT400
ET1	1	3665	O			Wide		No fixing selected
ET4	1	1180	D			Wide		No fixing selected
ET5	1	3359	H			Wide		No fixing selected
ET6	1	2000	E			Wide		No fixing selected
ET8	1	8070	Q			Wide		No fixing selected
ET9	1	3660	H			Wide		No fixing selected
ET10	1	4180	I			Wide		No fixing selected
T4	4	5554	J	3.351	2.843	Cross	4	Pair of Wire Dog Staples
			P	3.632	2.751	Cross	4	Pair of Wire Dog Staples
T[redacted]	1	7424	K	2.047	2.016	Cross	1	Pair of Wire Dog Staples
			S	3.798	1.924	Cross	1	Pair of Wire Dog Staples
			R	2.236	1.471	Cross	1	Pair of Wire Dog Staples
			L	1.850	0.818	Cross	1	Pair of Wire Dog Staples
T8	2	3665	G	2.832	1.871	Cross	2	Pair of Wire Dog Staples
			J	2.950	1.817	Cross	2	Pair of Wire Dog Staples
T9	1	3665	F	2.848	1.880	Cross	1	Pair of Wire Dog Staples
			I	2.209	1.736	Cross	1	Pair of Wire Dog Staples
*R1	1	4900						Refer NZS3604:2011 Tables 10.1 & 10.14
*R4	1	1180						Refer NZS3604:2011 Tables 10.1 & 10.14
*R5	1	600						Refer NZS3604:2011 Tables 10.1 & 10.14
*R6	1	3359						Refer NZS3604:2011 Tables 10.1 & 10.14
*R7	1	801						Refer NZS3604:2011 Tables 10.1 & 10.14

Fixing List

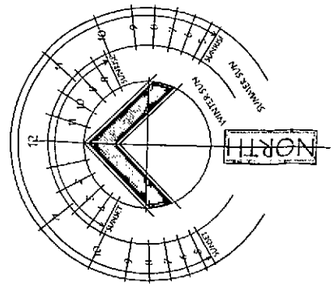
Qty	Selected Fixing
20	Pair of Wire Dog Staples
25	CT400
7	No fixing selected

Note:

1) Fixings have been selected based on loading only. Please check that selected fixings are practical for each situation and that appropriate nailing can be applied on site.

2) Fixings are selected from the LUMBERLOK Brochure 03/4 (Timber Connectors Characteristic Loadings Data) with down and uplift characteristic loads of at least the values shown for each joint.

LOT 3
60 DUNCAN ST
D.P 2351 / 650.0m²
WANGANUI EAST



100mm uPVC STORMWATER DRAIN
TO BE STOP ENDED FOR FUTURE CONNECTION

100mm uPVC FOUL WATER DRAIN
TO BE STOPENDED FOR FUTURE CONNECTION

50,000

EXISTING | PROPOSED

DRIVEWAY & PATHS TO FALL TO S/WATER SUMPS

TYPE 2 STORMWATER SUMP

TOG 99.800

TOG 99.800

TYPE 2 STORMWATER SUMP

3,000

STORMWATER TO CURB

TOK 99.400

FGL 99.750

INSPECTION CHAMBER

MAINWATER TOBY LAID FEED

EXISTING WATER TOBY LAID FEED

FDL 99.850

FFL 100.000

UNIT 1
EXISTING
RESIDENCE

UNIT 2
PROPOSED
NEW RESIDENCE

FFL 100.000

FGL 99.775

13,000

7,680

DUNCAN STREET

COR 99.700

FGL 99.750

FGL 99.775

50,000

SITE IS VERY FLAT AND LEVEL

100mm uPVC FOUL WATER DRAIN TO SEPTIC TANK

SITE PLAN 1:150

All Construction to comply with Local Authority requirements, NZ Building Code/ Approved Documents , and Means of Compliance, Inc NZS3604(2011)
All Dimensions and levels are to be checked by contractor before commencement of work. Contractor to report any discrepancy.
Construct in accordance with NZS3604(2011) & the NZBC.

SIGLEY / GORDON
60 DUNCAN STREET
WANGANUI

LICENSED BUILDING PRACTITIONER BUILDING CERTIFICATION BP118443

SITE PLAN DETAIL

JOB No: #Pln
SHEET SIZE: A3
SCALE: 1:150
DRAWN: MIKE O'LEARY
PRINTED: 17/12/2012

REVISION NO

METALCRAFT MC760 COLORSTEEL ROOF CLADDING
ROOF PITCH TO BE 5.00 DEG
SOFFITS TO BE GENERALLY 450mm
ROOF SURFACE AREA 157m²

GENERAL NOTES:
DO NOT SCALE DIMENSIONS OFF DRAWINGS.
CONFIRM ON SITE PRIOR TO COMMENCEMENT OF WORK.

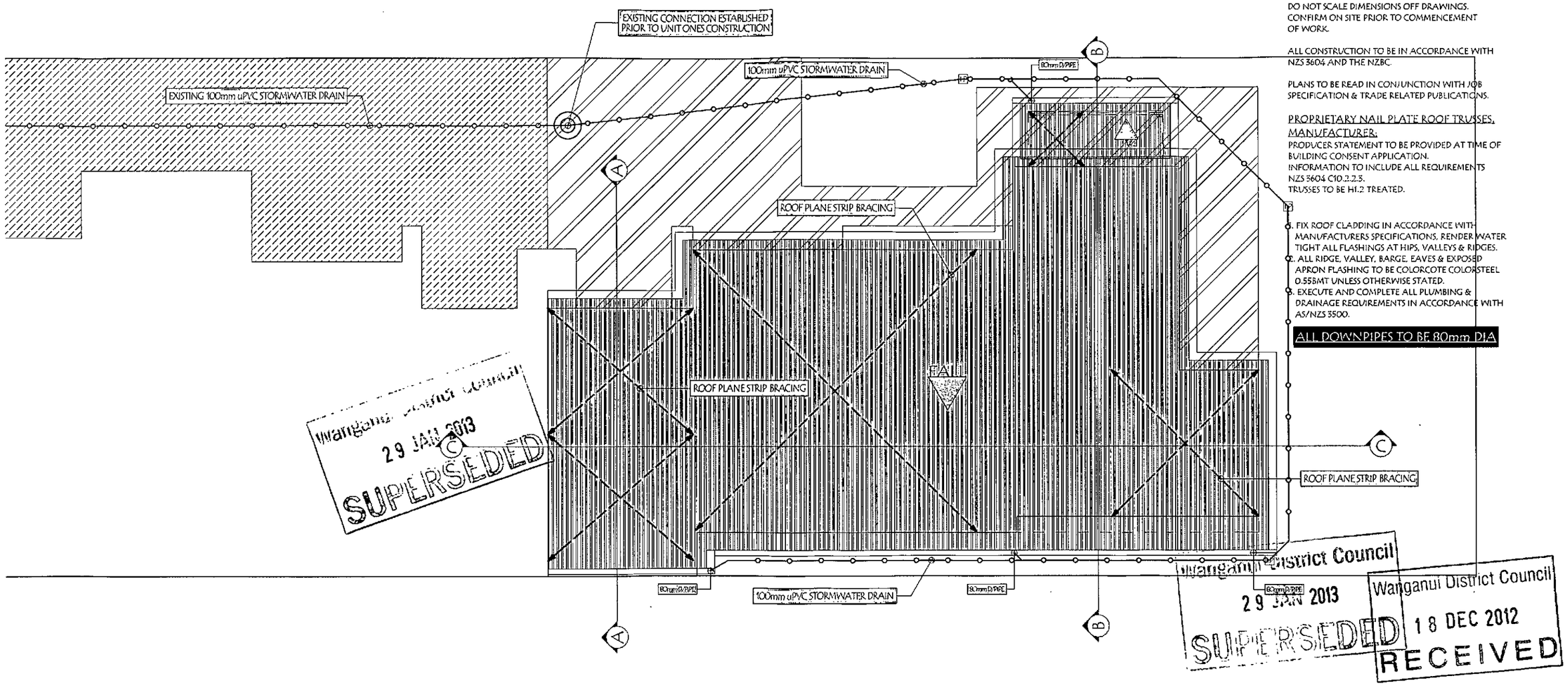
ALL CONSTRUCTION TO BE IN ACCORDANCE WITH NZS 3604 AND THE NZBC.

PLANS TO BE READ IN CONJUNCTION WITH JOB SPECIFICATION & TRADE RELATED PUBLICATIONS.

PROPRIETARY NAIL PLATE ROOF TRUSSES, MANUFACTURER:
PRODUCER STATEMENT TO BE PROVIDED AT TIME OF BUILDING CONSENT APPLICATION.
INFORMATION TO INCLUDE ALL REQUIREMENTS NZS 3604 C10.2.2.3.
TRUSSES TO BE H1.2 TREATED.

6. FIX ROOF CLADDING IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. RENDER WATER TIGHT ALL FLASHINGS AT HIPS, VALLEYS & RIDGES.
7. ALL RIDGE, VALLEY, BARGE, EAVES & EXPOSED APRON FLASHING TO BE COLORCOTE COLORSTEEL 0.55BMT UNLESS OTHERWISE STATED.
8. EXECUTE AND COMPLETE ALL PLUMBING & DRAINAGE REQUIREMENTS IN ACCORDANCE WITH AS/NZS 3500.

ALL DOWNPIPES TO BE 80mm DIA



ROOF PLAN 1:100

All Construction to comply with Local Authority requirements, NZ Building Code/ Approved Documents , and Means of Compliance, inc NZS3604(2011)
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Construct in accordance with NZS3604(2011) & the NZBC.

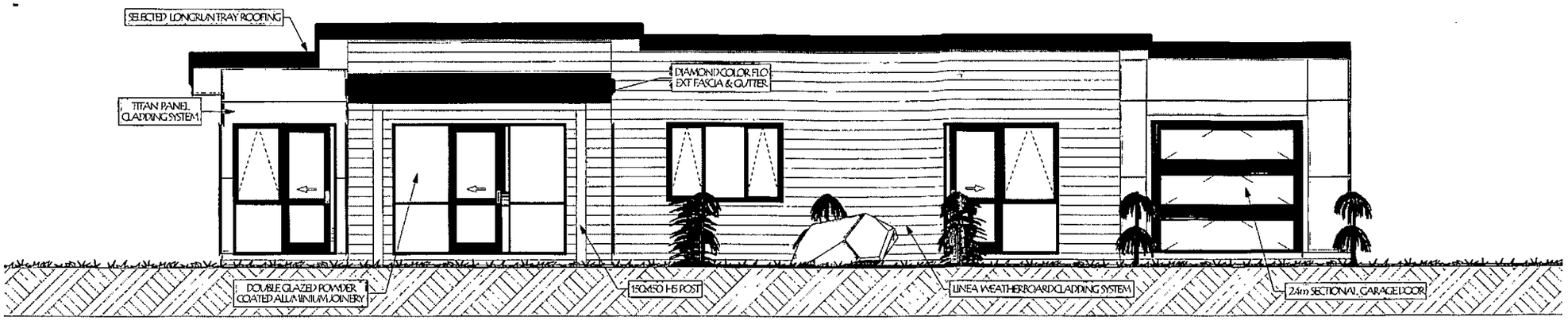
SIGLEY / GORDON
60 DUNCAN STREET
WANGANUI

LICENSED BUILDING PRACTITIONERS BUILDING CONFIDENCE
BP118443

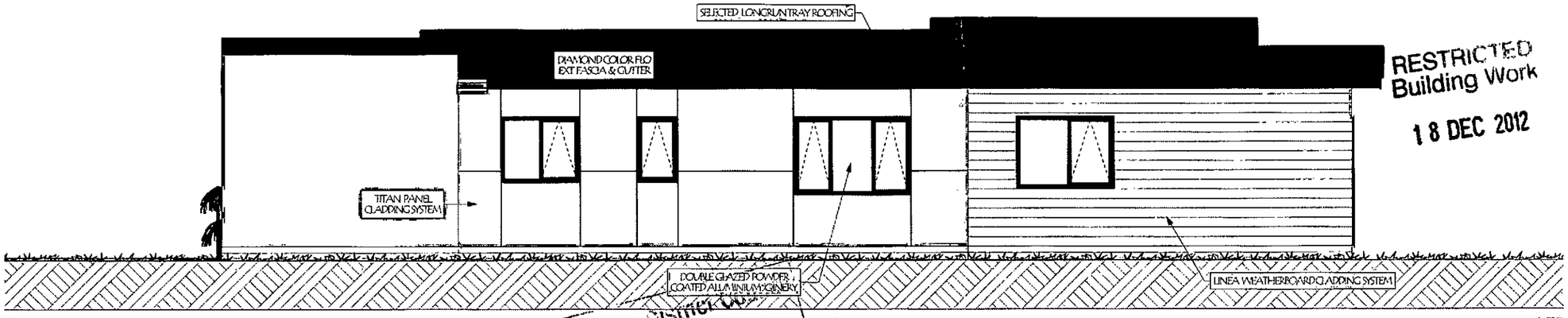
ROOF PLAN

JOB No: #Pln
SHEET SIZE: A3
SCALE: 1:100
DRAWN: MIKE O'LEARY
PRINTED: 17/12/2012

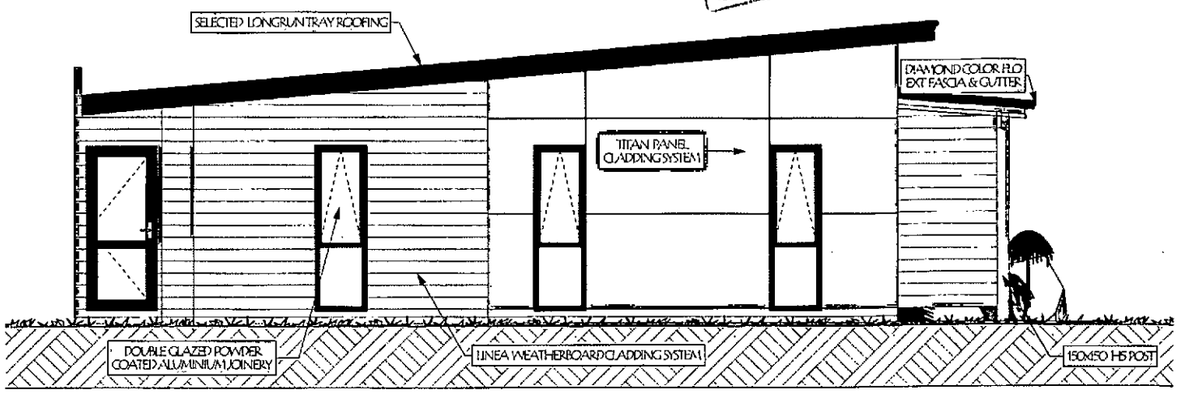
REV NO



A ELEVATION A 1:75



C ELEVATION C 1:75



B ELEVATION B 1:75

D ELEVATION D 1:75

BUILDING ENVELOPE RISK MATRIX		
East Elevation		
Risk Factor	Risk Severity	Risk Score
Wind zone (per NZS 3604)	MED	0
Number of storeys	LOW	0
Roof/wall intersection design	LOW	0
Eaves width	MED	1
Envelope complexity	LOW	0
Deck design	LOW	0
Total Risk Score:		1

BUILDING ENVELOPE RISK MATRIX		
West Elevation		
Risk Factor	Risk Severity	Risk Score
Wind zone (per NZS 3604)	MED	0
Number of storeys	LOW	0
Roof/wall intersection design	LOW	0
Eaves width	V-HIGH	5
Envelope complexity	LOW	0
Deck design	LOW	0
Total Risk Score:		5

BUILDING ENVELOPE RISK MATRIX		
South Elevation		
Risk Factor	Risk Severity	Risk Score
Wind zone (per NZS 3604)	MED	0
Number of storeys	LOW	0
Roof/wall intersection design	LOW	0
Eaves width	V-HIGH	5
Envelope complexity	LOW	0
Deck design	LOW	0
Total Risk Score:		5

BUILDING ENVELOPE RISK MATRIX		
North Elevation		
Risk Factor	Risk Severity	Risk Score
Wind zone (per NZS 3604)	MED	0
Number of storeys	LOW	0
Roof/wall intersection design	LOW	0
Eaves width	MED	1
Envelope complexity	LOW	0
Deck design	LOW	0
Total Risk Score:		1

RISK MATRIX

RESTRICTED Building Work
18 DEC 2012

Wanganui District Council
29 JAN 2013
SUPERSEDED

Wanganui District Council
29 JAN 2013
SUPERSEDED

Wanganui District Council
18 DEC 2012
RECEIVED

G.J. Gardner. homes
New Zealand's favourite home builders.

Castle Homes Wanganui Limited
Wanganui Franchisee for G.J.Gardner Homes
126 Guyton Street, Wanganui
P.O. Box 695, Wanganui
Ph 06 345 3563
Fx 06 345 3564
www.gjgardner.co.nz

All Construction to comply with Local Authority requirements, NZ Building Codes/ Approved Documents , and Means of Compliance, Inc NZS3604(2011)
All Dimensions and levels are to be checked by contractor before commencement of work. Contractor to report any discrepancy.
Construct in accordance with NZS3604(2011) & the NZBC.

SIGLEY / GORDON
60 DUNCAN STREET
WANGANUI

Licensed Building Practitioners Building Consent BP118443

ELEVATIONS

JOB No: #Pln
SHEET SIZE: A3
SCALE: 1:75, 1:100
DRAWN: MIKE O'LEARY
PRINTED: 17/12/2012

A08
REVISION NO.