



WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

IMPORTANT NOTE

These documents are required to be onsite for all inspections and must be a complete and full copy of the WDC stamped “Approved” documents.

Failure to have a full and legible set of documents may result in a terminated inspection. A terminated inspection will incur additional charges.



INSPECTION RECORD

This record, together with the Building Consent and approved plans, is to remain on the construction site at all times.

Project Location	TO BOOK AN INSPECTION PLEASE PHONE WDC BUILDING CONTROL	BCon21/0680
14 Holdsworth Dr WHANGANUI	ON 349 0001 AND QUOTE THE FOLLOWING APPLICATION NUMBER:	
Description of Work	New garage lintel to replace central pier	
Applicant	Mr DJ Mulholland 38 Richardson Road, RD 7, Whanganui 4577	

SUMMARY OF CONDITIONS

Building Consent Number BCon21/0680

PIM Conditions

Code	Condition
	All work on the project must comply with the requirements of the NZ Building Code.
	A PIM only document is not an approval to build. A Building Consent is required before building work commences.
	W.D.C will follow up on building work not completed within two years of building consent issue.
	A Building Consent lapses and is of no effect if the building work has not been started within 12 months of the date of issue.
	If the building is public premises it may not be occupied until either a code compliance certificate or certificate for public use has been issued.
	Please note [Electrical, and Gasfitting subtrades do not form part of the building consent inspection process. However, Council is required to receive 'Energy Certificates' from both of these trades before issue of a Code Compliance Certificate].

Building Consent Information

Code	Information

Your project's inspections are listed on the next page...

Please Note: A minimum of 48 hours notice is required for the booking of an inspection. The inspection record sheet and accompanying building consent documentation must be on site for use by the inspector at the time of the inspection.

All inspections are to be carried out by BCA Building Inspectors unless prior arrangements have been made by the BCA to have an approved qualified person inspect specific items (eg. Engineer). Inspections shall be carried out in accordance with the attached schedule of inspection types. It is the owner's responsibility to ensure all necessary inspections are carried out as required. Please contact WDC if you are unsure what requires inspection – do not cover or endorse any building work without inspection.

Note: Further inspections may incur additional cost at time of Code Compliance Certificate issue.

Inspections Record For Building Consent Number BCon21/0680							
<i>Inspection</i>	<i>When to Request</i>	<i>Date</i>	<i>Inspector</i>	<i>Complies with Code</i>	<i>Reinspect</i>	<i>Notes</i>	
STRUCTURAL STEEL INSPECTION	To be inspected by the design engineer		BY ENGINEER			Engineer to inspect exposed framing prior to beam being installed and after the beam has been installed.	
FINAL BUILDING INSPECTION	On Completion					Smoke alarms to be checked at time of final inspection. Please submit electronically after Final Inspection (or have available for collection at this inspection) the completed CCC application form - All LBP memos for RBW. - All energy certs. - Producer Statement Construction review (P/S4) from the inspecting engineer including a list of inspections carried out, inspection reports, photos taken and any site variation documentation.	



BUILDING CONSENT NUMBER BCon21/0680

Section 51, Building Act 2004

The building:

Street address of building:	Legal description of land where building is located:
14 Holdsworth Dr WHANGANUI	LOT 79 DP 77729 0.0838 Ha
Building name:	Location of building within site/block number:
Level/unit number:	

The owner:

Name of Owner:	
Mr MF Osman, Miss A Elmasry	
Mailing address:	Street Address/registered Office:
14 Holdsworth Drive Otamatea Whanganui 4500	14 Holdsworth Drive Otamatea Whanganui 4500

Phone numbers:

Landline:	063489954	Mobile:	0275965705 0212996625
Daytime:		After hours:	
Facsimile number:			
Email address:		Website:	

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

Contact Person:	
Mr DJ Mulholland	
Mailing address:	Street Address/registered Office:
38 Richardson Road, RD 7, Whanganui 4577	38 Richardson Road, RD 7, Whanganui 4577

Phone number:

Landline:	063427742	Mobile:	0273427020
Daytime:	0212995603	After hours:	
Facsimile number:			
Email address:		Website:	

Building Work

The following building work is authorised by this consent

Project
New garage lintel to replace central pier

101 Guyton Street
P O Box 637, Whanganui
Phone: (06) 349 0001
Fax: (06) 349 0000
Email: wdc@whanganui.govt.nz
Web: www.whanganui.govt.nz



**WHANGANUI
DISTRICT COUNCIL**
Te Kaunihera a Rohe o Whanganui

<i>Intended Use</i>	<i>Intended Life</i>
Single Detached Residential	50+ Years
<i>Estimated Value (\$)</i>	
\$6000.00	

This building consent is issued under section 51 of the Building Act 2004. This building consent does not relieve the owner of the building (or proposed building) of any duty of responsibility under any other Act relating to or affecting the building (or proposed building). This building consent also does not permit the construction, alteration, demolition, or removal of the building (or proposed building) if that construction, alteration, demolition or removal would be in breach of any other Act.



CONDITIONS OF BUILDING CONSENT NUMBER BCon21/0680

Section 51, Building Act 2004

This Building Consent is issued Subject to the following conditions:

Building Act 2004, Section 90:

Inspections by Building Consent Authorities

Agents authorised by the building consent authority for the purposes of this section are entitled, at all times during normal working hours or while building work is being done, to inspect

- (a) land on which building work is being or is proposed to be carried out; and
- (b) building work that has been or is being carried out on or off the building site; and
- (c) any building.

Compliance Schedule:

A compliance schedule (CS) is not required for this building.

#Attachments

- ‡Copies of the following documents are attached to this building consent:
- ‡Project information memorandum number BCon21/0680
- ‡Inspection record
- ‡Informative notes

Signed for and on behalf of the Whanganui District Council

GJ Hoobin
Building Control Manager

Date: 12 November, 2021

101 Guyton Street
P O Box 637, Whanganui
Phone: (06) 349 0001
Fax: (06) 349 0000
Email: wdc@whanganui.govt.nz
Web: www.whanganui.govt.nz



**WHANGANUI
DISTRICT COUNCIL**
Te Kaunihera a Rohe o Whanganui

BUILDING CONSENT NUMBER BCon21/0680

Informative notes:

- The Building Consent, conditions, inspection sheet, and approved plans must be kept on site at all times until completion of the project.
- Failure to request inspections will risk the non-issuing of a code compliance certificate and the structure may be deemed non-complying.
- Any inspection time required over and above that allowed may incur a further charge.
- Under Section 52, a building consent lapses and is of no effect if the building work to which it relates is not commenced within 12 months after the date of issue.
- Under Section 93, if the owner has not made application within 24 months, the BCA (Building Control Authority), must decide whether or not to issue a CCC (Code Compliance Certificate).

101 Guyton Street
P O Box 637, Whanganui
Phone: (06) 349 0001
Fax: (06) 349 0000
Email: wdc@whanganui.govt.nz
Web: www.whanganui.govt.nz



WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

PROJECT INFORMATION MEMORANDUM NUMBER BCon21/0680

Section 35, Building Act 2004

Mr DJ Mulholland
38 Richardson Road
RD 7
Whanganui 4577

<i>Project Location</i>	<i>Assessment Number/Legal Description</i>
14 Holdsworth Dr WHANGANUI	LOT 79 DP 77729 0.0838 Ha
<i>Category</i>	<i>Description of Work</i>
Minor Building Work up to \$20000 limit in value	New garage lintel to replace central pier
<i>Intended Life</i>	<i>Estimated Value (\$)</i>
50+ Years	6000.00

This Project Information Memorandum is confirmation that the proposed work may be undertaken, subject to the provisions of the Building Act 2004 and any requirements of the Building Consent (number BCon21/0680), which has been granted.

This Project Information Memorandum is subject to the following conditions:

- **All work on the project must comply with the requirements of the NZ Building Code.**

Signed for and on behalf of the Whanganui District Council

GJ Hoobin
Building Control Manager

Date: 11 November 2021

Wairereraki Giffen

From: Ian Pearson <pearsoni@xtra.co.nz>
Sent: Tuesday, November 9, 2021 12:57 PM
To: OnlineBCApps
Subject: BCon21/0680 14 Holdsworth Dr
Attachments: 2863 Osman Plan.pdf

Hi Brad/Wairere

Reference your RFI dated 26 October 2021 addressed to Mr DJ Mulholland??

Item 1 Herewith house plan with the smoke alarms marked, as installed by Fire & Emergency, in Breakfast Room, Lounge and each end of the Passage.

Regards
Ian

Ian B Pearson *BE (Civil), MICE, CMEngNZ*
[Consulting Structural Engineer](#) [Project Management](#) [Contract Administration](#)
P.O. BOX 74 36 RIDGWAY STREET WANGANUI 4541 NZ
Mobile (027) 230 7508
Phone (06) 344 1336 (Hm)
Email pearsoni@xtra.co.nz

RECEIVED 11-Nov-21

IAN B. PEARSON

BE(CIVIL), MICE, CMEngNZ

Consulting Structural Engineer

Project Management

Contract Administration

Ref: 2863

Agent Authorisation

Owner Name: Medhat Osman

Address: 14 Holdsworth Drive, Wanganui

Project Description: House Alterations

I/We confirm that we authorise IAN B PEARSON Consulting Engineers to act on our behalf for the purposes of applying for a Building Consent for our project.

Signed



Date

7/10/21



**RECORD OF TITLE
UNDER LAND TRANSFER ACT 2017
FREEHOLD
Search Copy**




R.W. Muir
Registrar-General
of Land

Identifier **WN45C/81**
Land Registration District **Wellington**
Date Issued 07 July 1994

Prior References
WN44B/641

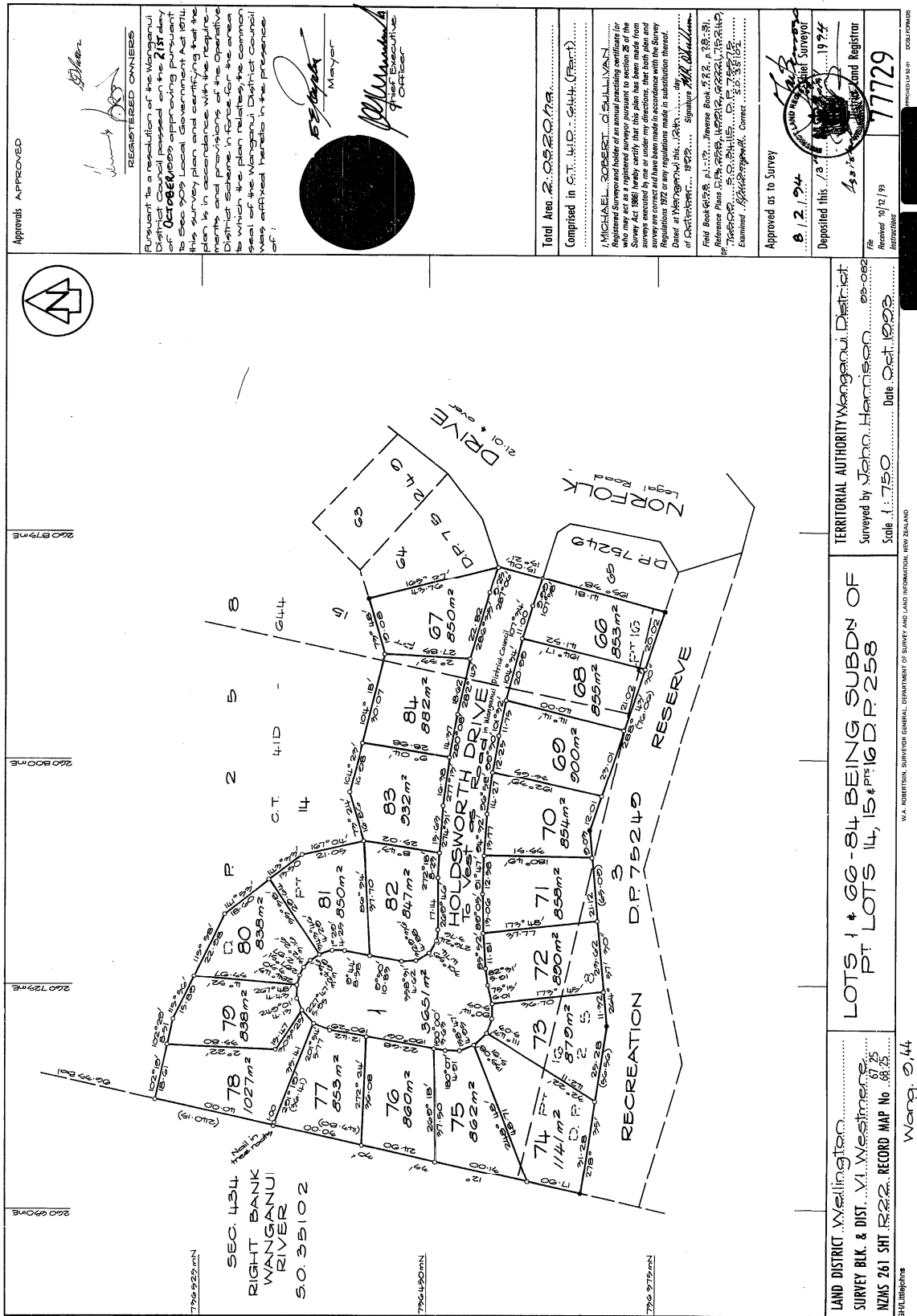
Estate Fee Simple
Area 838 square metres more or less
Legal Description Lot 79 Deposited Plan 77729
Registered Owners
Medhat Fouad Osman and Ameera Kamal Elmasry

Interests
Fencing Covenant in Transfer B400302.1 - 20.10.1994 at 9:05 am
Land Covenant in Transfer B400302.1 - 20.10.1994 at 9:05 am
5623596.3 Mortgage to Bank of New Zealand - 16.6.2003 at 9:00 am

RECEIVED 8/10/2021

Identifier

WN45C/81



Form 2A

Memorandum from licensed building practitioner: Certificate of design work
Section 45 and Section 30C, Building Act 2004

Please fill in the form as fully and correctly as possible.

If there is insufficient room on the form for requested details, please continue on another sheet and attach the additional sheet(s) to this form.

THE BUILDING

Street address: 14 HOLDSWORTH DRIVE

Suburb: OTAMATEA

Town/City: WANGANUI

Postcode: 4500

THE OWNER

Name(s): M F OSMAN and A K ELMASRY

Mailing address: 14 HOLDSWORTH DR

Suburb: OTAMATEA

PO Box/Private Bag

Town/City: WANGANUI

Postcode: 4500

Phone number:

Email address:

BASIS FOR PROVIDING THIS MEMORANDUM

I am providing this memorandum in my role as the: Please tick the option that applies (✓)	
☐	sole designer of all of the RBW design outlined in this memorandum – I carried out all of the RBW design myself – no other person will be providing any additional memoranda for the project
☐	lead designer who carried out some of the RBW design myself but also supervised other designers – this memorandum covers their RBW design work as well as mine, and no other person will be providing any additional memoranda for the project
☐	lead designer for all but specific elements of RBW – this memorandum only covers the RBW design work that I carried out or supervised and the other designers will provide their own memoranda relating to their specific RBW design
☒	specialist designer who carried out specific elements of RBW design work as outlined in this memorandum – other designers will be providing a memorandum covering the remaining RBW design work

IDENTIFICATION OF DESIGN WORK THAT IS RESTRICTED BUILDING WORK (RBW)

I **DAVID J MULHOLLAND** supervised the following design work that is restricted building work

PRIMARY STRUCTURE: B1

Design work that is restricted building work	Description	Carried out/ supervised	Reference to plans and specifications
Tick(✓) if included Cross (X) if excluded	[If appropriate, provide details of the restricted building work]	[Specify whether you carried out this design work or supervised someone else carrying out this design work]	[If appropriate, specify references]

Primary structure

All RBW Design work relating to B1	()		() Carried out () Supervised	
Foundations and subfloor framing	()		() Carried out (✓) Supervised	
Walls	()		() Carried out () Supervised	
Roof	()		() Carried out () Supervised	
Columns and beams	(✓)	Garage lintel beam	() Carried out (✓) Supervised	
Bracing	()		() Carried out () Supervised	
Other	()		() Carried out () Supervised	

EXTERNAL MOISTURE MANAGEMENT SYSTEMS: E2

All RBW design work relating to E2	()		() Carried out () Supervised	
Damp proofing	()		() Carried out () Supervised	
Roof cladding or roof cladding system	()		() Carried out () Supervised	
Ventilation system (for example, subfloor or cavity)	()		() Carried out () Supervised	
Wall cladding or wall cladding system	()		() Carried out () Supervised	
Waterproofing	()		() Carried out () Supervised	
Other	()		() Carried out () Supervised	

FIRE SAFETY SYSTEMS: C1 – C6

Emergency warning systems, evacuation and fire service operation systems, suppression or control systems, or other	()		() Carried out () Supervised	
--	-----	--	-----------------------------------	--

Note: The design of fire safety systems is only restricted building work when it involves small-to-medium apartment buildings as defined by the Building (Definition of Restricted Building Work) Order 2011.

Note: continue on another page if necessary.

WAIVERS AND MODIFICATIONS

Waivers or modifications of the building code are required () Yes () No

If Yes, provide details of the waivers or modifications below:

Clause	Waiver/modification required
<i>[List relevant clause numbers of building code]</i>	<i>[Specify nature of waiver or modification of building code]</i>

Note: continue on another page if necessary.

ISSUED BY

Name: DAVID J MULHOLLAND	LBP or Registration number: 41430
The practitioner is a: () Design LBP () Registered architect (✓) Chartered professional engineer	
Design Entity or Company (optional): IAN B PEARSON CONSULTING ENGINEERS	
Mailing address (if different from below):	
Street address / Registered office:	
Suburb:	Town/City: WANGANUI
PO Box/Private Bag: Box 74	Postcode: 4540
Phone number: 347 6007	Mobile: 027 230 7508
After Hours:	Fax:
Email address: pearsoni@xtra.co.nz	Website:

DECLARATION

I David J Mulholland *[name of practitioner]*, LBP, 41430

state that I have applied the skill and care reasonably required of a competent design professional in carrying out or supervising the Restricted Building Work (RBW) described in this form, and that based on this, I also state that the RBW:

- Complies with the building code; or
- Complies with the building code subject to any waiver or modification of the building code recorded on this form.

Signature:

Date: 7 October 2021

RECEIVED 8/10/2021

Note: continue on another page if necessary.

WAIVERS AND MODIFICATIONS

Waivers or modifications of the building code are required ☐ Yes ☐ No

If Yes, provide details of the waivers or modifications below:

Clause	Waiver/modification required
[List relevant clause numbers of building code]	[Specify nature of waiver or modification of building code]

Note: continue on another page if necessary.

ISSUED BY

Name: DAVID J MULHOLLAND	LBP or Registration number: 41430
The practitioner is a: ☐ Design LBP ☐ Registered architect ☒ Chartered professional engineer	
Design Entity or Company (optional): IAN B PEARSON CONSULTING ENGINEERS	
Mailing address (if different from below):	
Street address / Registered office:	
Suburb:	Town/City: WANGANUI
PO Box/Private Bag: Box 74	Postcode: 4540
Phone number: 347 6007	Mobile: 027 230 7508
After Hours:	Fax:
Email address: pearsoni@xtra.co.nz	Website:

DECLARATION

I, David J Mulholland [name of practitioner], LBP, 41430

state that I have applied the skill and care reasonably required of a competent design professional in carrying out or supervising the Restricted Building Work (RBW) described in this form, and that based on this, I also state that the RBW:

- Complies with the building code; or
- Complies with the building code subject to any waiver or modification of the building code recorded on this form.

Signature:

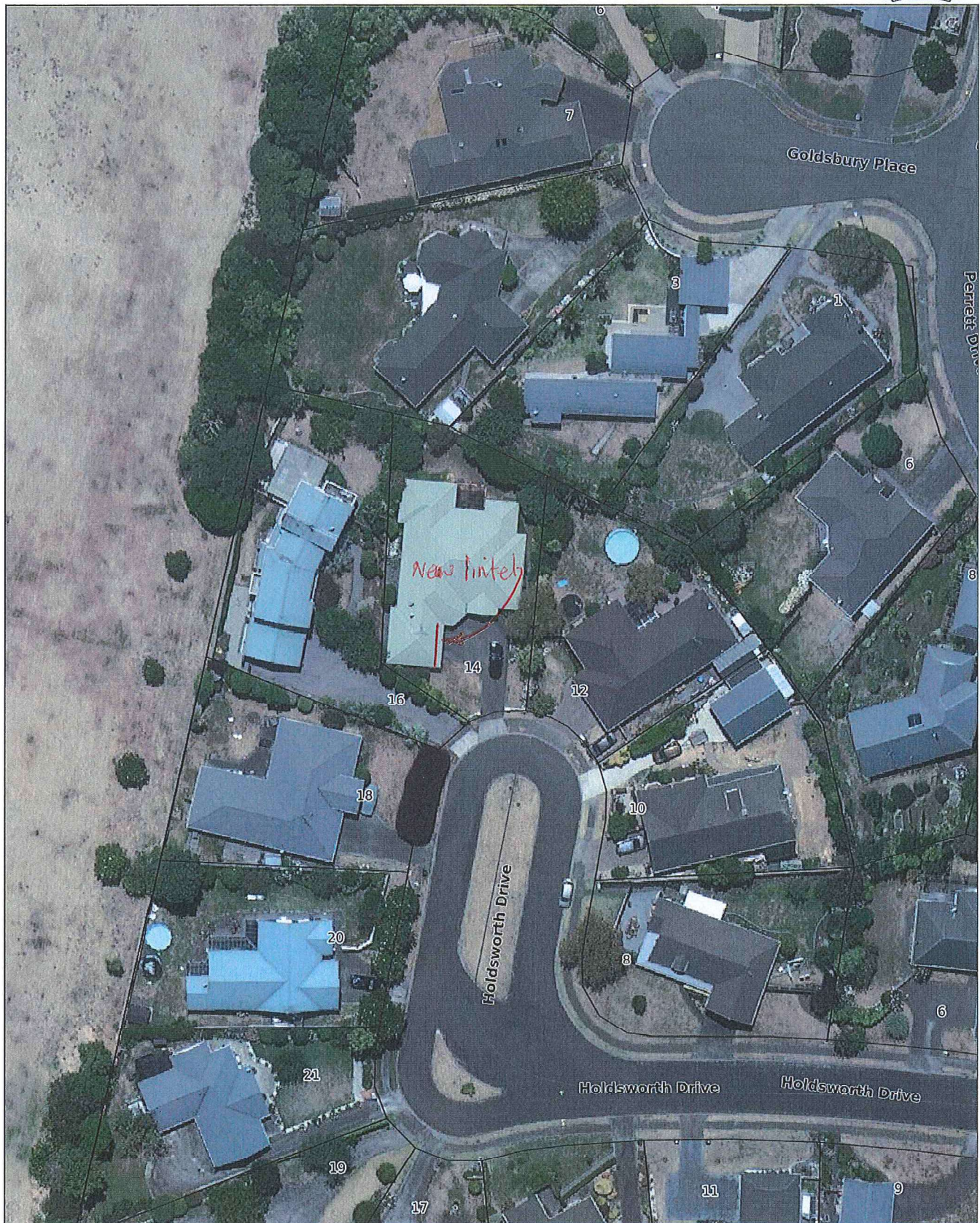


Date: 7 October 2021

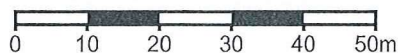
7/10/21

14 Holdsworth Dr

Garage lintel



Scale 1:1000 on Sheet Size A4



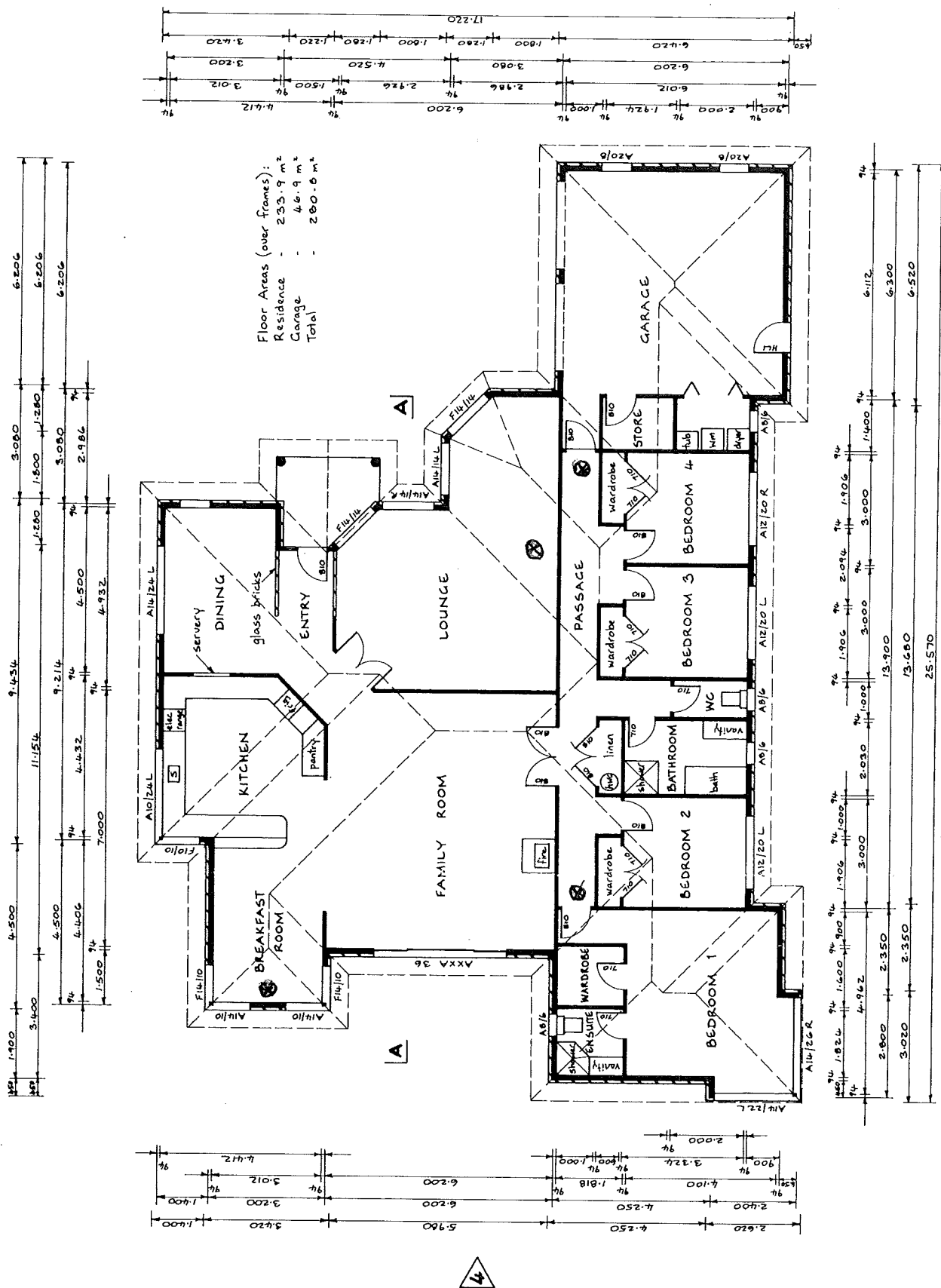
Printed 07/10/2021 11:14 AM

Digital map data sourced from Land Information New Zealand CROWN COPYRIGHT RESERVED.
The information displayed in the GIS has been taken from Whanganui District Council's databases and maps.
It is made available in good faith, but its accuracy or completeness is not guaranteed.
If the information is relied on in support of a resource consent it should be verified independently.

Site Plan.

RECEIVED 8/10/2021

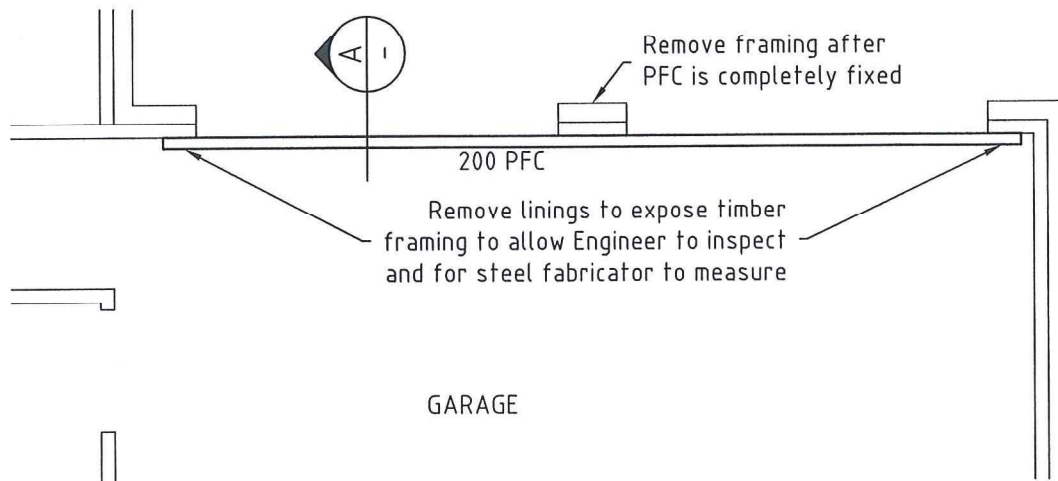
Bcon21/0680 - WDC Approved Plans - 12/11/2021



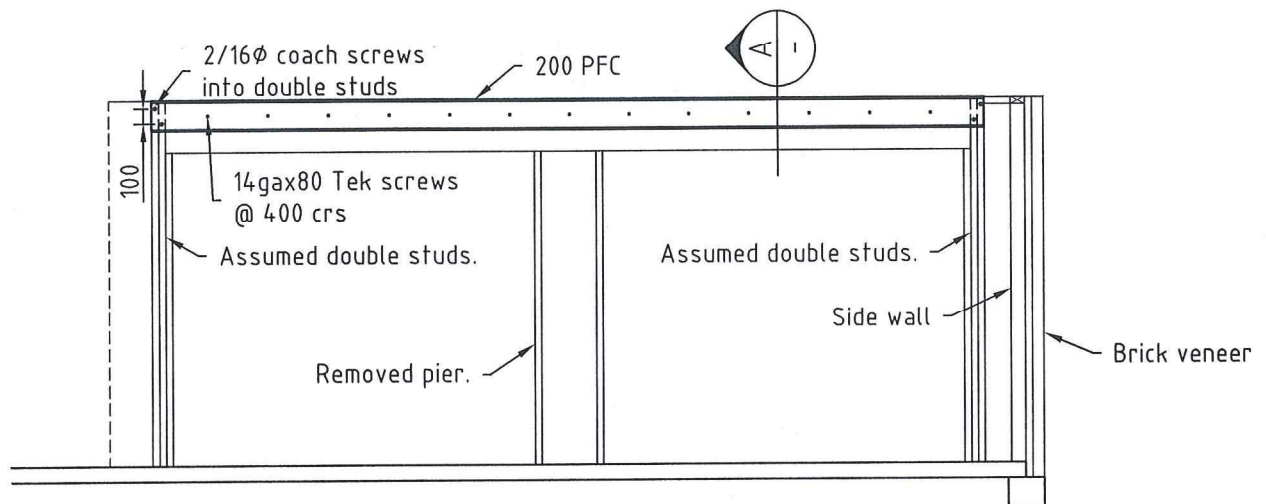
Smoke Alarms.

FLOOR PLAN

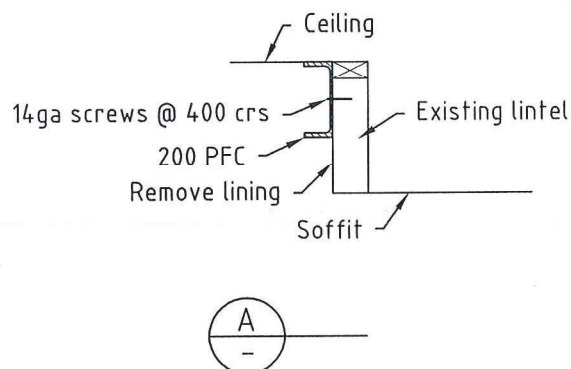
PREMIER DESIGN AND DRAFTING DANIEVIRKE PH/FAX 06 374 5924 MASTERTON PH/FAX 06 377 3370	RESIDENCE FOR MR. MRS. COLEY - HOLDSWORTH DR - WANGANUI		SCALE 1:75	PLAN NO. 2049
			DATE October 1994	SHEET 1 OF 3



GARAGE PART PLAN



GARAGE DOOR INTERIOR ELEVATION



IAN B. PEARSON

CONSULTING STRUCTURAL ENGINEER

Ph 027 230 7508

36 Ridgway Street PO Box 74
WANGANUI

Email: pearsoni@xtra.co.nz

Date: 6.10.21

Scales: 1:50, 1:20

Job No.: 2863

Drawn: IBP

Dwg No. S01

MEDHAT OSMAN, 14 HOLDSWORTH DRIVE, WANGANUI
HOUSE ALTERATIONS GARAGE LINTEL

RECEIVED 8/10/2021



New Zealand
Institute of Architects
Incorporated

Building Code Clause(s) B1 (Structure)

PRODUCER STATEMENT – PS1 – DESIGN

(Guidance on use of Producer Statements (formerly page 2) is available at www.engineeringnz.org)

ISSUED BY: IAN B PEARSON, CONSULTING ENGINEERS, PO BOX 74, WANGANUI
(Design Firm)

TO: SHERMAN BUILDERS, WANGANUI
(Owner/Developer)

TO BE SUPPLIED TO: WANGANUI DISTRICT COUNCIL
(Building Consent Authority)

IN RESPECT OF: GARAGE LINTEL
(Description of Building Work)

AT: 14 HOLDSWORTH DRIVE
(Address)

Town/City: WANGANUI LOT: DP SO: SO
(Address)

We have been engaged by the owner/developer referred to above to provide:

SPECIFIC ENGINEERING DESIGN OF NEW GARAGE LINTEL TO REPLACE CENTRE PIEK, INCLUDING
CONSTRUCTION MONITORING

(Extent of Engagement)

services in respect of the requirements of Clause(s) B1 (Structural) of the Building Code for:

☒ All or ☐ Part only (as specified in the attachment to this statement), of the proposed building work.

The design carried out by us has been prepared in accordance with:

☒ Compliance Documents issued by the Ministry of Business, Innovation & Employment B1/VM1 or
(specification method/acceptable solution)

☐ Alternative solution as per the attached schedule

The proposed building work covered by this producer statement is described on the drawings titled:

MEDHAT OSMAN, 14 HOLDSWORTH DR, WANGANUI and numbered 501
together with the specification, and other documents set out in the schedule attached to this statement.

On behalf of the Design Firm, and subject to:

- (i) Site verification of the following design assumptions: existing timber lintels
- (ii) All proprietary products meeting their performance specification requirements;

I believe on reasonable grounds that a) the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code and that b), the persons who have undertaken the design have the necessary competency to do so. I also recommend the following level of construction monitoring/observation:

☐ CM1 ☐ CM2 ☒ CM3 ☐ CM4 ☐ CM5 (Engineering Categories) or ☐ as per agreement with owner/developer (Architectural)

I, DAVID JOHN MULHOLLAND am: ☒ CPEng 41430 # ☐ Reg Arch BE(Hons), CMEngNZ, CPEng
(Name of Design Professional)

I am a member of ☒ Engineering New Zealand ☐ NZIA and hold the following qualifications: BE(Hons), CMEngNZ, CPEng
The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$200,000*.

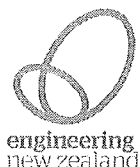
The Design Firm is a member of ACENZ: ☐

SIGNED BY: DAVID JOHN MULHOLLAND (Signature) [Signature]
(Name of Design Professional)

ON BEHALF OF IAN B PEARSON, CONSULTING ENGINEERS, PO BOX 74, WANGANUI Date: 7 October 2021
(Design Firm)

Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$200,000.*

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.
THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACENZ, ENGINEERING NEW ZEALAND AND NZIA

Building Code Clause(s) **B1 (Structure)****PRODUCER STATEMENT – PS1 – DESIGN**(Guidance on use of Producer Statements (formerly page 2) is available at www.engineeringnz.org)ISSUED BY: **IAN B PEARSON, CONSULTING ENGINEERS, PO BOX 74, WANGANUI**
(Design Firm)TO: **SHERMAN BUILDERS, WANGANUI**
(Owner/Developer)TO BE SUPPLIED TO: **WANGANUI DISTRICT COUNCIL**
(Building Consent Authority)IN RESPECT OF: **GARAGE LINTEL**
(Description of Building Work)AT: **14 HOLDSWORTH DRIVE**
(Address)Town/City: **WANGANUI** LOT DP SO
(Address)

We have been engaged by the owner/developer referred to above to provide:

SPECIFIC ENGINEERING DESIGN OF NEW GARAGE LINTEL TO REPLACE CENTRE PIER, INCLUDING CONSTRUCTION MONITORING

(Extent of Engagement)

services in respect of the requirements of Clause(s) **B1 (Structural)** of the Building Code for:☒ All or ☐ Part only (as specified in the attachment to this statement), of the proposed building work.

The design carried out by us has been prepared in accordance with:

☒ Compliance Documents issued by the Ministry of Business, Innovation & Employment **B1/VM1** or
(verification method/acceptable solution)☐ Alternative solution as per the attached schedule.....

The proposed building work covered by this producer statement is described on the drawings titled:

MEDHAT OSMAN, 14 HOLDSWORTH DR, WANGANUI and numbered **S01**;
together with the specification, and other documents set out in the schedule attached to this statement.**On behalf of the Design Firm, and subject to:**

- (i) Site verification of the following design assumptions **existing timber lintels**
- (ii) All proprietary products meeting their performance specification requirements;

I believe on reasonable grounds that a) the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code and that b), the persons who have undertaken the design have the necessary competency to do so. I also recommend the following level of construction monitoring/observation:

☐ CM1 ☐ CM2 ☒ CM3 ☐ CM4 ☐ CM5 (Engineering Categories) or ☐ as per agreement with owner/developer (Architectural)I, **DAVID JOHN MULHOLLAND** am: ☒ CPEng **41430** # ☐ Reg Arch #
(Name of Design Professional)I am a member of: ☒ Engineering New Zealand ☐ NZIA and hold the following qualifications: **BE(Hons), CMEngNZ, CPEng**

The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$200,000*.

The Design Firm is a member of ACENZ: ☐**SIGNED BY** **DAVID JOHN MULHOLLAND** (Signature).....
(Name of Design Professional)**ON BEHALF OF** **IAN B PEARSON, CONSULTING ENGINEERS, PO BOX 74, WANGANUI** Date: **7 October 2021**
(Design Firm)

Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$200,000.*

This form is to accompany **Form 2 of the Building (Forms) Regulations 2004** for the application of a Building Consent.
THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACENZ, ENGINEERING NEW ZEALAND AND NZIA

IAN B. PEARSON

CONSULTING STRUCTURAL ENGINEER

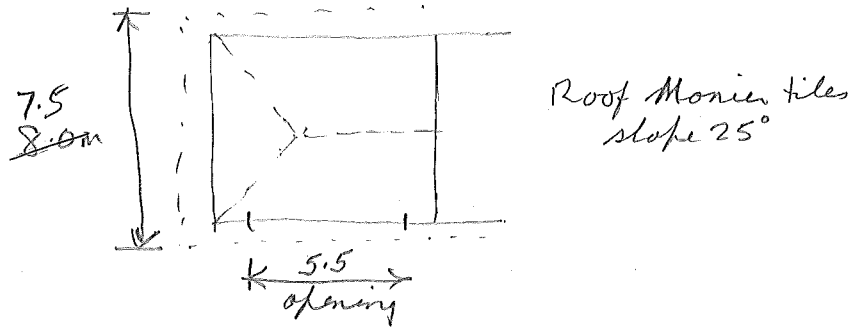
Mobile 027 230 7508

36 Ridgway Street, PO Box 74, Wanganui

Email pearsoni@xtra.co.nz

Date	8/10/21	Job No.	2863	Page No.	1
Computed	FBP	Client	Hayden Sherman		
Project	Garage lintel 14 Holdsworth Dr.				

Convert garage to a single door opening.



$$\text{Loading DL} = 0.5 / \cos 25^\circ \times 7.5 / 2 + 0.1 \times \frac{6.2}{2} = 2.5 \text{ kN/m}$$

$$\text{LL} = 0.25 \text{ kPa} \times \frac{7.5}{2} = 1.0$$

$$\text{ULS load on lintel} = (1.2 \times 2.5 + 1.6 \times 1.0) = 4.6 \text{ kN/m}$$

for 5.5m span

$$M^* = 4.6 \times \frac{5.5^2}{8} = 17.4 \text{ kN.m}$$

$$V^* = 4.6 \times \frac{5.5}{2} = 12.7 \text{ kN}$$

Consider a 200 PFC

$$\text{MEMDES 200 PFC ULS ratio} = 0.34 \text{ OK.}$$

Check SLS for $q = 2.5 \text{ kN/m}$

$$\Delta = \frac{5}{384} \times \frac{2.5 \times 5.5^4 \times 10^9}{200 \times 1910 \times 10^4} = 7.8 \text{ mm}$$

 $\frac{1}{700}$
OK
Lintel
200 PFC

Fixings to end studs.

Try 2/12 dia coach screws 11to grain.

$$\phi Q_n = 0.7 \times 2 \times 0.8 \times 1125 \times 10.4 = 14.6 \text{ kN}$$

$$\text{Depth of penetration} = 80 \text{ mm} < 10 \times 12 \text{ so } R = \frac{8}{12} = 0.67 \text{ NG.}$$

Use 2/16 dia CS x 90 long

$$k = \frac{80}{10 \times 16} = 0.5 \text{ so } \phi Q_n = 0.5 \times 14.6 \times \frac{18.5}{10.4} = 13.2 \text{ kN}$$

Fixings
2/16 dia x
90 long
Coach screw.

MemDes Calculations @ 16:11:43 06-10-2021 by Ian Pearson

Project : M Osman, 14 Holdsworth Dr
Description : Garage lintel

Section : 200PFC Grade 300+

Major Axis Bending

Design Action $M_x^* = 20.0$ kNm

User provided value for $a_m = 1.13$

$a_s = 0.94$

$a_m a_s \geq 1.0$, $\Rightarrow$ Segment Fully Restrained

$M_{bx} = M_{sx} = 66.30$ kNm

Major axis capacity Ratio = $M_x^* / f M_{bx}$
= 0.34, ---- OK ----

Shear Calculations (Unstiffened Web)

Design Action $V_x^* = 13.0$ kN

Nominal Shear Yield capacity $V_w = 230.4$ kN

$a_v = 5.35 \geq 1.0 \Rightarrow$ full web shear capacity

$V_u = V_w = 230.4$ kN

Shear capacity ratio = $V_x^* / f V_u$
= 0.06, ---- OK ----

SUMMARY

**** U.L.S. Capacity Check Passed, Load Cap. Ratio = 0.34 ---- OK ----

MemDes v 3.3 : Calculations for New Zealand Steel

Project : M Osman, 14 Holdsworth Dr at 4:11:43 pm on 6/10/2021

Description : Garage lintel by Ian Pearson Powered By Steltech
(<http://www.steltech.co.nz>)

RECEIVED 8/10/2021

IAN B. PEARSON

CONSULTING STRUCTURAL ENGINEER

Mobile 027 230 7508

36 Ridgway Street, PO Box 74, Wanganui

Email pearsoni@xtra.co.nz

Date

Job No..... Page No..... 2

Computed

Client

Project

Fixings to existing lintel beams.

Load to transfer $W_u = 4.6 \text{ kN/m}$.

Use 14ga Tek screws x 100 long at say 600 c/s

Check: $\phi Q_n = 0.8 \times 0.8 \times 2.66 / 0.6 = 2.84 \text{ kN/m}$.

at 400 c/s $= 2.8 \times \frac{0.6}{0.4} = 4.3 \text{ kN}$ OK.

Fix PFC
to existing
lintels
with
14ga x 80
Tek screws
at 400 c/s.

RECEIVED 8/10/2021



FORM 7 CODE COMPLIANCE CERTIFICATE NUMBER BCon21/0680

Section 95(3), Building Act 2004

Mr MF Osman, Miss A Elmasry
14 Holdsworth Drive
Otamatea
Whanganui 4500

**Building Consent
No:** BCon21/0680

Issue Date: 03/11/2023

The building:

Street address of building:	Legal description of land where building is located:
14 Holdsworth Dr WHANGANUI	LOT 79 DP 77729 0.0838 Ha
Building name:	Location of building within site/block number:
Level/unit number:	Current, lawfully established, use: [include number of occupants per level and per use if more than 1]
	Single Detached Residential
Year first constructed:	
1995	

The owner:

Name of Owner:	
Mr MF Osman, Miss A Elmasry	
Mailing address:	Street Address/registered Office:
14 Holdsworth Drive Otamatea Whanganui 4500	14 Holdsworth Drive Otamatea Whanganui 4500

Phone numbers:

Landline:	063489954	Mobile:	0275965705 0212996625
Daytime:		After hours:	
Facsimile number:			
Email address:		Website:	

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

Contact Person:	
Mr DJ Mulholland	
Mailing address:	Street Address/registered Office:
38 Richardson Road, RD 7, Whanganui 4577	38 Richardson Road, RD 7, Whanganui 4577

Phone number:

Landline:	063427742	Mobile:	0273427020
Daytime:	0212995603	After hours:	
Facsimile number:			
Email address:		Website:	

Building Work

Building consent number:	Issued by:
BCon21/0680	Whanganui District Council
Type of Work	
Single Detached Residential	
Description of Work	
New garage lintel to replace central pier	
Intended Life	Estimated Value
Indefinite but not less than 50 years.	\$6000.00

Code compliance:

The building consent authority named below is satisfied, on reasonable grounds that the building work complies with the building consent.

*Compliance schedule

There are no specified systems in this building.

This is a final Code Compliance Certificate issued in respect of all of the building work under the above Building Consent.

Signed for and on behalf of the Whanganui District Council:



GJ Hoobin
Building Control Manager