

23 September 2025

Project No.: 24338

Nigel Ripley

Dear Sir/Madam,

SUBJECT: STRUCTURAL INSPECTIONS AND SIGN-OFF FOR REPAIR / RE-LEVEL TO EXISTING RESIDENTIAL BUILDING AT 38 VIVIAN STREET, BURWOOD, CHRISTCHURCH 8083.

Please find enclosed our structural documents for the sign-off of the remedial structural works completed at the above address. Referring to the above captioned, Peridot Engineering Limited (Peridot) has attached the relevant structural documents in order (listed below), and anticipates that this documentation will cover the completion of the remedial works, proposed by Peridot:

1. Producer Statement 4 (PS4).
2. Supporting documents:
 - Structural Repair Assessment.
 - Structural Repair Drawings.
 - Construction Monitoring Records.

We trust the above and attached is sufficient to cover the remedial structural works completed; however, if you require any further information or have any queries, please do not hesitate to contact the undersigned.

Yours faithfully



Leo Zhang
Structural Engineer / Director
M: +64 27 936 5822
E: leo@peridoteng.nz

STRUCTURAL REPAIR ASSESSMENT

Project Number 24338

Issue Date 23 September 2025

Prepared to Nigel Ripley

Revision A

38 Vivian Street, Burwood, Christchurch 8083



Prepared by:



Steven Tan

Graduate Structural Engineer
MCivilEng (Structural)

Reviewed and Approved by:



Ilya Malyavin

Senior Structural Engineer
MEngSt(EQ), CPEng, CMEng(NZ)

1. INTRODUCTION AND SCOPE OF ENGAGEMENT

Peridot Engineering Limited (Peridot) has been engaged by Nigel Ripley, to provide construction supervision in relation to the re-levelling of existing floor carried out to the existing residential property at 38 Vivian Street, Burwood, Christchurch 8083.

The purpose of the construction monitoring and reporting is to evaluate the extent of the structural re-levelling of existing floor of the dwelling following the recommendations provided in Peridot's design.

The recommended repair works were designed in accordance with the standards and guidance outlined in the Structural Repair Design for Existing Residential Building by Peridot, dated 13 March 2025, Ref.: 24338, Rev.: C.

The construction monitoring was carried out in accordance with Peridot's inspection schedule attached in the design package mentioned above, including the following inspections:

- Excavation inspection on 20 May 2025, to check the pits size, soil condition and soil bearing verification for underpinning pads.
- Steel inspection on 27 May 2025, to check the steel reinforcement for partial foundation replacement along the southwest of Kitchen.
- Pre-final inspection on 27 May 2025, to check the floor levels as requested by the contractor.
- Final inspection on 07 August 2025 to check the final floor levels, sub-floor connections, and crack repairs.
- Final inspection on 29 August 2025 to check the final floor levels in the sunroom.

2. STRUCTURAL REPAIR ASSESSMENT

Foundation re-level – Main Dwelling (Type B)

- External concrete ring foundation was partially re-levelled by mechanical lifting method (underpinning) and overpinning method as per the MBIE Guidance and Engineering Details.
- The internal timber floor was partially re-levelled by jacking and packing of piles, notching of bearers, and pile replacement method, as per the MBIE Guidance and Engineering Details.
- Partial foundation replacement was carried out at the southwest elevation of Kitchen as per the specific engineering details.
- Sub-floor connections provided as per our details.
- Cracking damage to the concrete perimeter foundation repaired as per our details.

The floor levels after remediation measured across the dwelling footprint showed a maximum floor level variation of 8mm (+4, -4), within the 50mm suggested threshold of “no foundation re-level considered necessary” set out in Table 2.3 of the MBIE Guidance.

No further cracking damage to the perimeter foundation was observed during our final inspection. Therefore, Peridot considers that the crack repairs to type B foundation have been completed and there is no further cracking damage to the foundation of the dwelling.

Foundation re-level – Attached Sunroom (Type C)

- Internal slab floor was partially re-levelled by the application of floor levelling compound (FLC).

The floor levels after remediation measured across the dwelling footprint showed a maximum floor level variation of 8mm (+8, +0), within the 50mm suggested threshold of “no foundation re-level considered necessary” set out in Table 2.3 of the MBIE Guidance.

No further cracking damage to the perimeter foundation was observed during our final inspection. Therefore, Peridot considers that the crack repairs to type C foundation have been completed and there is no further cracking damage to the foundation of the dwelling.

Other repairs

The repairs work to the superstructure was outside of our scope of engagement and, therefore, was not included in our site inspections or this report.

3. CONCLUSIONS

Based on the observation and data collected during our inspections, Peridot believes, on reasonable grounds, that the repair and re-levelling works to the foundation of the existing dwelling have been carried out in accordance with the design and recommendations by Peridot.

After any potential future moderate earthquakes, the suitability for occupancy must be re-assessed by a structural engineer.

LIMITATIONS

- a. This report has been prepared on behalf of and for the exclusive use of our client and is subject to and issued in accordance with the provisions of the contract between Peridot Engineering Limited and our Client. Peridot Engineering Limited accepts no liability or responsibility, whatsoever, for or in respect of any use or reliance upon this report by any third party. The basis of Peridot's advice and our responsibility to our client is set out in the terms of the engagement with our Client.
- b. This report is the copyright of Peridot Engineering Limited. Except for the use of the client and subject to the conditions in the agreement, no part of this publication may be copied without the express permission in writing from Peridot.
- c. The investigation of the existing building comprised a visual inspection, limited onsite non-destructive investigation and the review of available documentation.
- d. This report is for the structural aspects of the building only. Peridot Engineering Limited does not report on cosmetic damage or provide recommendations for cosmetic repairs or those required for weathertightness.
- e. The above report does not constitute our confirmation that the building is "safe", "earthquake resistant" or similar. Peridot Engineering Limited has not checked the level of actual structural compliance with the current Building Code, nor assessed the level of actual past seismic activity at the particular site on which the building is situated. Peridot Engineering Limited has carried out visual inspection of readily accessible areas and has used our professional judgement to assess the repair works are in accordance with MBIE and the repair methodology (recommended by others) based on the conditions encountered and information received and reviewed. Peridot Engineering Limited accepts no liability for any original latent or hidden construction defects or any changes that may have occurred after this time.
- f. Carrying out works documented in this report does not preclude damage to the building, internal fixtures and fittings resulting from future earthquakes. Buildings with a New Building Standard (NBS) rating of 100% can still experience significant structural and non-structural damage (e.g. internal wall and ceiling treatments, fixtures and fittings, shelves, lights, services, etc.) following a design earthquake event and may be deemed impractical to repair or be unusable for a period.
- g. The scope of any foundation re-levelling is to return the building foundations to as close to as reasonably practicable to its structural pre-earthquake condition (i.e. NZBC Section 112 repair). This clause states that the repair strategy does not have to improve the overall performance of the structure; rather it cannot be made any worse than it was prior to the earthquake sequence. The re-levelling of the foundations will not lead to any "betterment" of the existing foundation structure. Similar performance is likely to be observed, should we experience a further significant seismic event.

APPENDICES

A.1: SITE PHOTOS



Photo 1. View of the re-levelled (raised) floor by mechanical lifting method.



Photo 2. View of the re-levelled (lowered) floor by bearer notching method.



Photo 3. View of the re-levelled (raised) floor by FLC method.



Photo 4. View of the existing concrete pile, sub-floor connection, and packer (2).



Photo 5. View of the repaired crack on the perimeter foundation (1).



Photo 6. View of the partially replaced foundation.

A.2: STRUCTURAL REPAIR ASSESSMENT DRAWINGS

STRUCTURAL ASSESSMENT - SIGN OFF

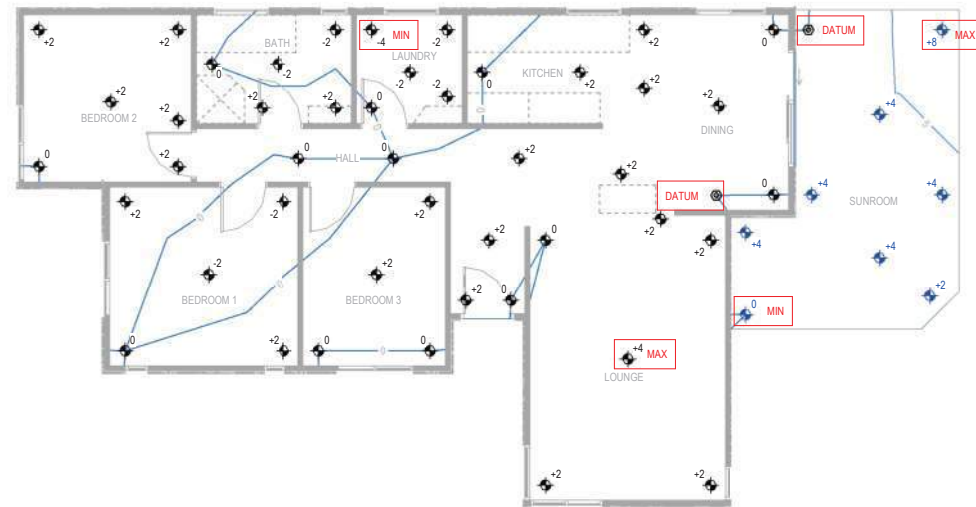
38 VIVIAN STREET, BURWOOD, CHRISTCHURCH 8083

PROJECT - 24338



SURVEY PLANS		
SHEET NO.	SHEET TITLE	SHEET REV.
SA-01	FLOOR LEVELS - FINAL	1

DATE: 23/09/2025, REV: A



FLOOR LEVEL SURVEY - FINAL

1 : 100

FLOOR LEVELS LEGEND:

- DATUM
- FLOOR LEVEL (mm)
- FLOOR LEVEL - SUNROOM (mm)
- MINIMUM FLOOR LEVEL (mm)
- MAXIMUM FLOOR LEVEL (mm)

FLOOR LEVELS - FINAL

FOR INFORMATION

JOB NO.
24338
SHEET NO.
SA-01
SHEET REV.
1

STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND OTHER RELEVANT DRAWINGS AND SPECIFICATIONS IF ANY. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, LEVELS, FIXTURES, AND OTHER SETTING OUT INFORMATION. CONTRACTORS MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK AND ORDERING MATERIALS.
DO NOT SCALE.



CLIENT
NIGEL RIPLEY

REV	DATE	DESCRIPTION
1	23/09/2025	FOR INFORMATION

DESIGNED BY: S.T.
DRAWN BY: D.Y.
REVIEWED BY: N.N.
DATE: 23/09/2025
A3 SCALE: 1 : 100

STRUCTURAL ASSESSMENT - SIGN OFF
38 VIVIAN STREET, BURWOOD, CHRISTCHURCH 8083



association of
consulting
and
engineering



PRODUCER STATEMENT – PS4

CONSTRUCTION REVIEW

BUILDING CODE CLAUSE(S): B1/VM1, B1/VM4, MBIE Guidance

JOB NUMBER: 24338

ISSUED BY: Peridot Engineering Limited
(Construction Monitoring Firm)

TO: Nigel Ripley
(Owner/Developer)

TO BE SUPPLIED TO: Christchurch City Council
(Building Consent Authority)

IN RESPECT OF: Foundation Re-levelling/Repair to Existing Residential Dwelling as per the site notes attached.
(Description of Building Work)

AT: 38 Vivian Street, Burwood, Christchurch 8083
(Address, Town/City)

LEGAL DESCRIPTION: Lot 14 DP 21583

N/A ☐

We have been engaged by the owner/developer referred to above to provide CM 3 **level of construction monitoring** relating to the Clause(s) named above of the Building Code for the building work which is covered by PS1(s) issued by Peridot Engineering Limited (Engineering Design Firm) and which is described in the documents relating to the Building Consent No. BCN/2025/2081 and those relating to Building Consent Amendment(s) No. N/A issued during the course of the works, .

We have sighted these Building Consents and the conditions attached to them.
If any of the fields above are too small, please write "refer the Schedule".

Authorised instructions/variation(s) detailed/listed in the Schedule have been issued during the course of the works.

On the basis of these review(s) and information supplied by the contractor during the course of the works and **on behalf of the engineering firm** undertaking this Construction Monitoring, **I believe on reasonable grounds** that the building works covered by the above-mentioned PS1(s) have been completed in accordance with the relevant requirements of the Building Consent and Building Consent Amendments identified above or in the Schedule on page 2, with respect to Clause(s) B1/VM1, B1/VM4, MBIE Guidance of the Building Code. I also believe on reasonable grounds that the persons who have undertaken this construction review have the necessary competency to do so.

I, (Name of Construction Monitoring Professional) Ilya Malyavin, am:

- CPEng number 1028093
- I hold the following qualifications BE(Hons), CMEngNZ, CPEng

The Construction Monitoring Firm holds a current policy of Professional Indemnity Insurance no less than \$200,000 The Construction Monitoring Firm is not a member of ACE New Zealand.

SIGNED BY (Name of Construction Monitoring Professional): Ilya Malyavin
(Signature below):

ON BEHALF OF (Construction Monitoring Firm): Peridot Engineering Limited

Date: 23/09/25

Note: This statement has been prepared solely for the Building Consent Authority named above and shall not be relied upon by any other person or entity. Any liability in relation to this statement accrues to the Construction Monitoring Firm only. As a condition of reliance on this statement, the Building Consent Authority accepts that the total maximum amount of liability of any kind arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in tort or otherwise, is limited to the sum of \$200,000.

This form is to accompany **Forms 6 or 8 of the Building (Forms) Regulations 2004** for the issue of a Code Compliance Certificate.

THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACE NEW ZEALAND AND ENGINEERING NEW ZEALAND

SCHEDULE to PS4

Please include an itemised list of all referenced documents, drawings, or other supporting materials in relation to this producer statement below: |

- Construction Monitoring Records.

GUIDANCE ON USE OF PRODUCER STATEMENTS

Information on the use of Producer Statements and Construction Monitoring Guidelines can be found on the Engineering New Zealand website

<https://www.engineeringnz.org/engineer-tools/engineering-documents/producer-statements/>

Producer statements were first introduced with the Building Act 1991. The producer statements were developed by a combined task committee consisting of members of the New Zealand Institute of Architects (NZIA), Institution of Professional Engineers New Zealand (now Engineering New Zealand), Association of Consulting and Engineering New Zealand (ACE NZ) in consultation with the Building Officials Institute of New Zealand (BOINZ). The original suite of producer statements has been revised at the date of this form to ensure standard use within the industry.

The producer statement system is intended to provide Building Consent Authorities (BCAs) with part of the reasonable grounds necessary for the issue of a Building Consent or a Code Compliance Certificate, without necessarily having to duplicate review of design or construction monitoring undertaken by others.

PS1 DESIGN Intended for use by a suitably qualified independent engineering design professional in circumstances where the BCA accepts a producer statement for establishing reasonable grounds to issue a Building Consent;

PS2 DESIGN REVIEW Intended for use by a suitably qualified independent engineering design review professional where the BCA accepts an independent design professional's review as the basis for establishing reasonable grounds to issue a Building Consent;

PS3 CONSTRUCTION Forms commonly used as a certificate of completion of building work are Schedule 6 of NZS 3910:2013 or Schedules E1/E2 of NZIA's SCC 2011²

PS4 CONSTRUCTION REVIEW Intended for use by a suitably qualified independent engineering construction monitoring professional who either undertakes or supervises construction monitoring of the building works where the BCA requests a producer statement prior to issuing a Code Compliance Certificate.

This must be accompanied by a statement of completion of building work (Schedule 6).

The following guidelines are provided by ACE New Zealand and Engineering New Zealand to interpret the Producer Statement.

Competence of Engineering Professional

This statement is made by an engineering firm that has undertaken a contract of services for the services named, and is signed by a person authorised by that firm to verify the processes within the firm and competence of its personnel.

The person signing the Producer Statement on behalf of the engineering firm will have a professional qualification and proven current competence through registration on a national competence-based register such as a Chartered Professional Engineer (CPEng).

Membership of a professional body, such as Engineering New Zealand provides additional assurance of the designer's standing within the profession. If the engineering firm is a member of ACE New Zealand, this provides additional assurance about the standing of the firm.

Persons or firms meeting these criteria satisfy the term "suitably qualified independent engineering professional".

Professional Indemnity Insurance

As part of membership requirements, ACE New Zealand requires all member firms to hold Professional Indemnity Insurance to a minimum level.

The PI Insurance minimum stated on the front of this form reflects standard practice for the relationship between the BCA and the engineering firm.

Professional Services during Construction Phase

There are several levels of service that an engineering firm may provide during the construction phase of a project (CM1-CM5 for engineers³). The building Consent Authority is encouraged to require that the service to be provided by the engineering firm is appropriate for the project concerned.

Requirement to provide Producer Statement PS4

Building Consent Authorities should ensure that the applicant is aware of any requirement for producer statements for the construction phase of building work at the time the building consent is issued as no design professional should be expected to provide a producer statement unless such a requirement forms part of the Design Firm's engagement.

Refer Also:

- ¹ Conditions of Contract for Building & Civil Engineering Construction NZS 3910: 2013
- ² NZIA Standard Conditions of Contract SCC 2011
- ³ Guideline on the Briefing & Engagement for Consulting Engineering Services (ACE New Zealand/Engineering New Zealand 2004)
- ⁴ PN01 Guidelines on Producer Statements

www.acenz.org.nz

www.engineeringnz.org

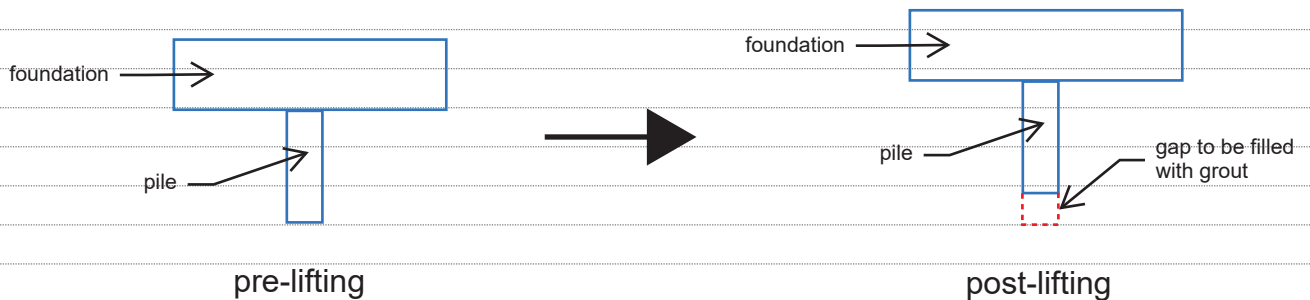
SITE INSPECTION REPORT

JOB NUMBER:	24338	BUILDING CONSENT:	
SITE ADDRESS:	38 Vivian St	CONTRACTOR:	Pacificbuild
DATE:	20/05/2025	CONTACT:	Jason (021335435)
REASON FOR SITE VISIT:	Excavation Inspection		(jason@pacificbuild.co.nz)

OBSERVATIONS AND INSTRUCTIONS

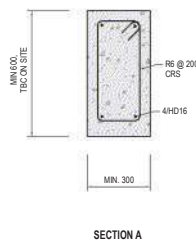
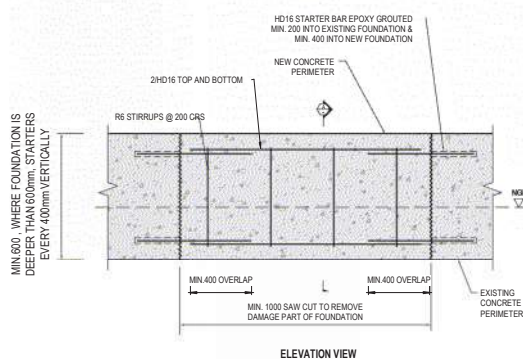
EXCAVATION INSPECTION

- Excavation for re-levelling pad carried out as per plan.
- Min. 750x750mm footing size measured on site.
- Min. 400mm below NGL excavated depth measured on site.
- Max. 2500crs pad spacing measured on site.
- Min. 150kPa UBC achieved on site at all tested locations.
- 2 layer of SE62 mesh observed on site.
- Any intermediate pile (between jacking pads) bottom to be filled with grout post lifting.



8) Foundation replacement, existing bar to retain, additional bar as per detail. **SEND PHOTOS TO ENGINEER FOR APPROVAL.**

SITE VISIT ON 27-05-2025. OK.



2 PARTIAL FOUNDATION REPLACEMENT DETAIL
SCALE A1 1:10 / A3 1:20



SITE INSPECTION REPORT

JOB NUMBER:	24338	BUILDING CONSENT:	
SITE ADDRESS:	38 Vivian St	CONTRACTOR:	Pacificbuild
DATE:	20/05/2025	CONTACT:	Jason (021335435)
REASON FOR SITE VISIT:	Excavation Inspection		(jason@pacificbuild.co.nz)

OBSERVATIONS AND INSTRUCTIONS

9) Bearer to plint connection to be as per detail on sheet S404 (attached below). To be inspected during final inspection.

10) Internal pile replacement footing:

UNDER LBW: 600mm SQ, 400mm DEEP.

NOT UNDER LBW: 450mm SQ, under top soil.

SEND PHOTOS FOR ENGINEER APPROVAL.

SITE VISIT ON
27-05-2025. OK

27-05-2025

☒ Proceed with work once Council has inspected and approved

☐ Rectify and proceed once Council has inspected and approved

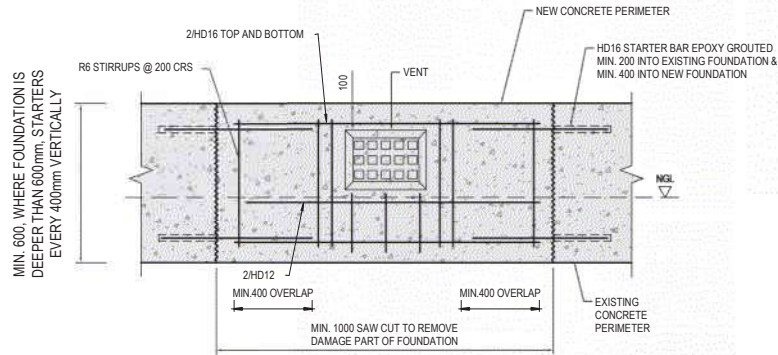
☒ Rectify and provide photos for engineer's approval

☐ Rectify and re-inspect

1. Contractor to advise when the next inspection is due, providing a minimum of 24 hours' notice
2. Any approvals of monitored work by us must also be passed by Council. It is the responsibility of the Building Consent applicant to ensure that any changes made are supported either by a formal amendment or a minor variation, unless an agreement is reached with Council. This form together with any design changes must be passed on to a Council representative at the earliest opportunity for them to advise accordingly. Contractor must notify the engineer if Council does not pass the work and must NOT proceed.
3. Site inspection is limited to non-intrusive observations and reviews of random samples of critical work, either prior to enclosure or upon completion, as appropriate.

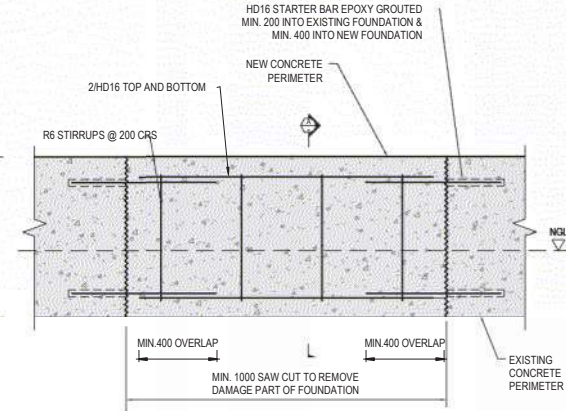
Consultant representative: Steven

Signature: ST



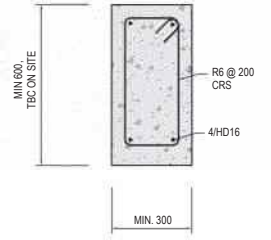
1 PARTIAL FOUNDATION REPLACEMENT DETAIL - VENT
SCALE A1 1:10 / A3 1:20

MIN 600 WHERE FOUNDATION IS DEEPER THAN 600mm. STARTERS EVERY 400mm VERTICALLY



ELEVATION VIEW

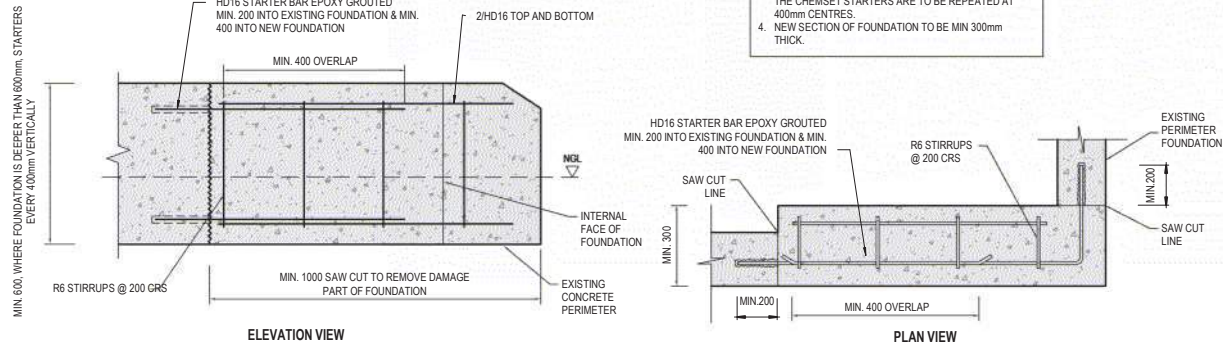
2 PARTIAL FOUNDATION REPLACEMENT DETAIL
SCALE A1 1:10 / A3 1:20



SECTION A

NOTES

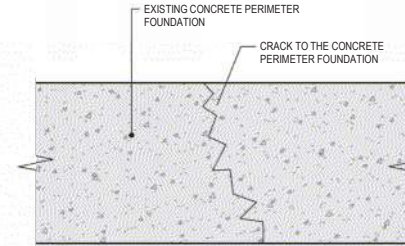
1. COVER TO STEEL TO BE 75mm (MIN)
2. CONCRETE STRENGTH FOR REPAIRED PART OF FOUNDATION TO BE 25 MPa.
3. FOR FOUNDATIONS GREATER THAN 600mm IN DEPTH, THE CHEMSET STARTERS ARE TO BE REPEATED AT 400mm CENTRES.
4. NEW SECTION OF FOUNDATION TO BE MIN 300mm THICK.



ELEVATION VIEW

PLAN VIEW

3 PARTIAL FOUNDATION REPLACEMENT DETAIL - CORNER
SCALE A1 1:10 / A3 1:20

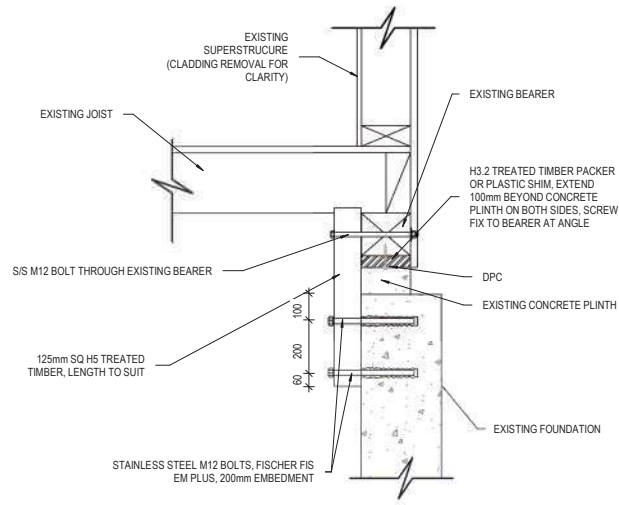


CRACK REPAIR NOTES

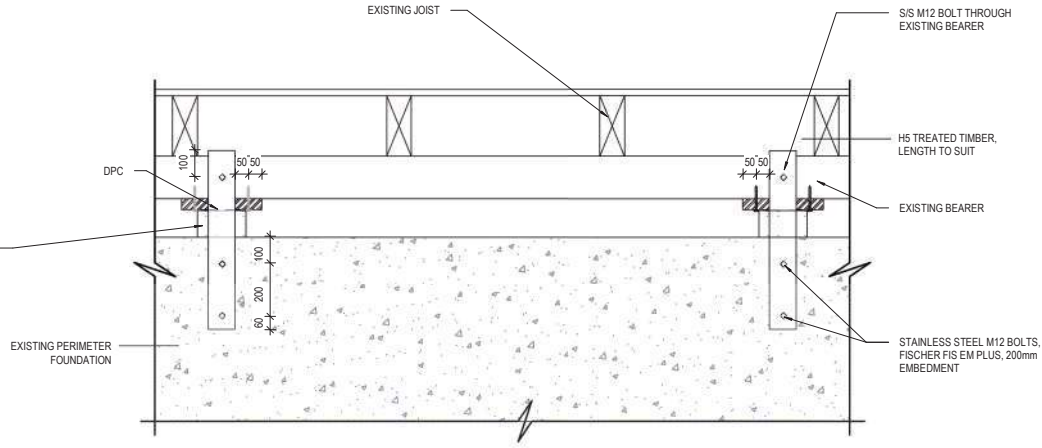
1. PREPARE ALL CONCRETE CRACKS SURFACES CLEAN AND FREE FROM LOOSELY ADHERING PARTICLES, OR CONTAMINANTS SUCH AS DIRT, OIL, DUST, GREASE ETC.
2. APPLICATION OF PRODUCT TO INTERFACE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. CRACK INJECTION WORK SHOULD BE LEFT FOR 5-7 DAYS TO FULLY CURE BEFORE FULL STRUCTURAL INTEGRITY IS ACHIEVED.
4. CONTRACTOR TO CONFIRM CRACK REPAIR HAS BEEN COMPLETED IN ACCEPTABLE STANDARD.

CRACK WIDTH	REPAIR METHOD	PRODUCT SPECIFICATIONS
HAIRLINE TO 0.2 mm	NO REPAIRS REQUIRED	
0.2 mm - 10 mm	LOW VISCOSITY EPOXY INJECTION	FOSROC NITOFILL LV OR HILTI CI 060 OR EQUIVALENT APPROVED
10mm - 20 mm	CEMENTITIOUS GROUT INJECTION	FOSROC CONBEXTRA OR SIKADUR 31 OR RAMSET POZILITE HB/ POZICOTE FR OR EQUIVALENT APPROVED
>20 mm OR WITH >3 mm OUT OF PLANE MOVEMENT	BREAKOUT AND RECAST WITH NEW ENHANCED PERIMETER FOUNDATION	

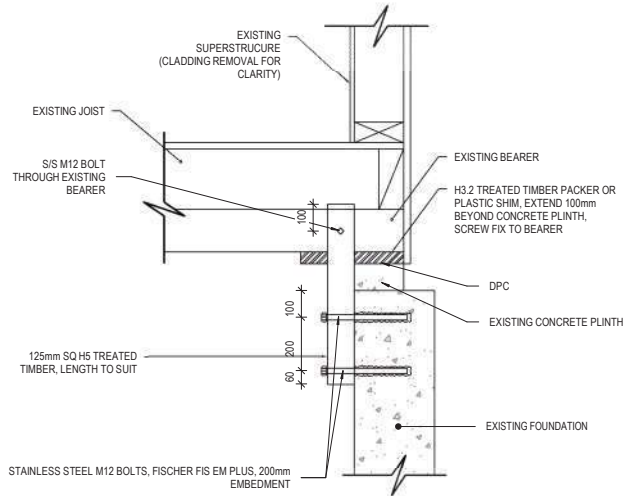
4 CRACK IN CONCRETE PERIMETER FOUNDATION (INDICATIVE)
SCALE A1 1:10 / A3 1:20



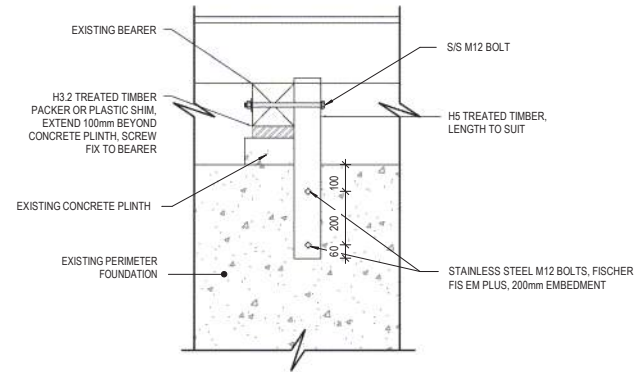
1 FOUNDATION PACKING DETAIL (SECTION) - BEARER PARALLEL TO PERIMETER FOUNDATION
A1 1:10 / A3 1:20



2 FOUNDATION PACKING DETAIL (ELEVATION) BEARER PARALLEL TO PERIMETER FOUNDATION
A1 1:10 / A3 1:20



3 FOUNDATION PACKING DETAIL (ELEVATION) BEARER PERPENDICULAR TO PERIMETER FOUNDATION
A1 1:10 / A3 1:20



4 FOUNDATION PACKING DETAIL (SECTION) BEARER PERPENDICULAR TO PERIMETER FOUNDATION
A1 1:10 / A3 1:20

NOTES

- JACK & PACK EXISTING BEARERS TO LIFT SUBFLOOR FRAMING TO DESIRED LEVEL. REINSTATE CONNECTIONS TO DETAILS SHOWN.
- CONFIRM LEVELS ON SITE PRIOR TO RE-LEVELLING.
- ALL FIXINGS TO BE TYPE 304 STAINLESS STEEL.
- TO BE READ IN CONJUNCTION WITH ENGINEER'S TECHNICAL REPORT, OTHER DETAILS IN THIS DESIGN DRAWING SET AND SPECIFICATION.
- ALL FIXINGS TO BE APPROXIMATELY PRE-DRILLED TO PREVENT SPLITTING.
- FOLLOWING COMPLETION OF FOUNDATION PACKING (OVERPINNING), SUBFLOOR FRAMING SHALL BE RECONNECT TO CONCRETE PERIMETER FOUNDATION BY S/S M12 BOLTS AND H5 TREATED TIMBER AS PER OUR DETAIL OR ALTERNATIVELY S/S M12 BOLT AS PER NZS 3604:2011.
- FOR PACKERS <50mm FIX PACKER TO BEARER WITH 140 S/S SCREWS, MIN THREAD EMBEDMENT IN BEARER 50mm.
FOR PACKERS 50-100mm FIX PACKER TO BEARER WITH M12 S/S COACH SCREWS, MIN THREAD EMBEDMENT TO BE 50mm.



SITE INSPECTION REPORT

JOB NUMBER:	24338	BUILDING CONSENT:	
SITE ADDRESS:	38 Vivian St	CONTRACTOR:	Pacificbuild
DATE:	27/05/2025	CONTACT:	Jason (021335435)
REASON FOR SITE VISIT:	Pre-Final Inspection		(jason@pacificbuild.co.nz)

OBSERVATIONS AND INSTRUCTIONS

1) MAIN DWELLING:

a) Foundation re-levelling carried out as per our plan.

b) The perimeter foundation has been partially re-levelled by underpinning and overpinning method as per our specific engineering design.

c1) The internal timber floor has been fully re-levelled by jacking and packing pile method as per our specific engineering design.

c2) The internal concrete slab floor has not been re-levelled. **RECTIFY AND REINSPECT.**

d) 2 new timber piles carried out as per specific engineering design.

e) Subfloor connection to be carried out as per our specification. **RECTIFY AND REINSPECT.**

f) Overall, the floor level variation measured on site during our inspection was 8mm (+2, -6) for main dwelling timber floor, within the 50mm required by the MBIE Guidance.

CONCRETE FLOOR TO BE INSPECTED.

g) No localised slopes have been identified exceeding the limit of 0.5% on the timber floor. Any identified localised slopes were a subject of historical.

CONCRETE FLOOR TO BE INSPECTED.

i) Cracking damages to the perimeter foundation to be repaired as per specific engineering design. **RECTIFY AND REINSPECT.**

j) Partial foundation replacement carried out as per specific engineering design.

☐ Proceed with work once Council has inspected and approved

☐ Rectify and proceed once Council has inspected and approved

☒ Rectify and provide photos for engineer's approval

☐ Rectify and re-inspect

1. Contractor to advise when the next inspection is due, providing a minimum of 24 hours' notice

2. Any approvals of monitored work by us must also be passed by Council. It is the responsibility of the Building Consent applicant to ensure that any changes made are supported either by a formal amendment or a minor variation, unless an agreement is reached with Council. This form together with any design changes must be passed on to a Council representative at the earliest opportunity for them to advise accordingly. Contractor must notify the engineer if Council does not pass the work and must NOT proceed.

3. Site inspection is limited to non-intrusive observations and reviews of random samples of critical work, either prior to enclosure or upon completion, as appropriate.

Consultant representative: Steven

Signature: ST

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE.
2. FOLLOWING COMPLETION OF FOUNDATION REMEDIATION, A LBP SHALL INSPECT AND PROVIDE REMEDIATION STRATEGY FOR, AND SUPERVISE REPAIR OF NON-STRUCTURAL ELEMENTS, SUCH AS EXTERNAL CLADDING AND EXTERNAL ANTIENITIES.
3. THE EXTENT OF REQUIRED RELEVELLING MUST BE CONFIRMED ON-SITE BY THE CONTRACTOR. ALL EFFORTS MUST BE MADE TO RESTORE THE BUILDING TO THE REQUIRED PERFORMANCE LEVEL, INCLUDING LEVEL VARIATIONS WITHIN ACCEPTED TOLERANCES, AS OUTLINED IN NBE GUIDANCE.
4. TARGET FLOOR LEVELS SHALL BE DETERMINED WITH CONSIDERATION GIVEN TO THE PERFORMANCE OF BUILDING ANTIENITIES, SUCH AS DOOR AND WINDOW ALIGNMENTS, CABINERY AND ROOF LININGS. IN SOME CASES, ACHIEVING THIS MAY PROVE IMPRACTICAL DUE TO POSSIBLE ADDITIONAL STRESS ON THE SUPERSTRUCTURE.
5. IF CONSEQUENTIAL DAMAGE, SUCH AS MISALIGNMENT OF EXISTING WINDOW SILLS NOT REPAIRABLE BY THE CONTRACTOR, BEGINS TO APPEAR DURING THE RELEVELLING, THE ENGINEER SHALL BE CONSULTED TO PROVIDE INSTRUCTIONS ON FURTHER RELEVELLING WORKS.
6. GEOTECHNICAL REPORT BY PERIOD, DATED 17 FEBRUARY 2025 STATES THAT MINIMUM CLIMATE RESILIENCE OF ANY CONCRETE FOUNDATION SHALL BE VERIFIED BY PERIOD ON SITE, 400mm BELOW THE NGL. SOIL BEARING CAPACITY IS TO BE VERIFIED BY PERIOD ON SITE.
7. MIN. 2 PORTABLE JACKS SHALL BE PLACED IN EACH EXCAVATED PIT AT 100mm FROM EDGE OF EXCAVATION. THE SPACING OF UNDERPINNING PADS REFERS TO OUR ENGINEERING DETAIL BELOW.
8. THE REPAIR TO THE DETACHED GARAGE IS OUTSIDE OF OUR SCOPE OF WORK AND IS EXCLUDED FROM OUR STRUCTURAL DRAWINGS.

INSPECTIONS

1. POST CUT INSPECTION OF THE UNDERPINNING PADS (RELEVELLING), INTERNAL CONCRETE FOOTINGS (IF ANY), FOUNDATION BEAM (IF REQUIRED), THE SIZE, GROUND CONDITIONS AND THE BEARING CAPACITY AT THE EXCAVATED DEPTH.
 2. PRE-POUR INSPECTION TO CHECK REINFORCING STEEL OF THE UNDERPINNING PAD (RELEVELLING), FOUNDATION BEAM REPLACEMENT (IF ANY) PRIOR TO POURING OF CONCRETE.
 3. FINAL FLOOR LEVEL, SUB-FLOOR CONNECTIONS, AND CRACK REPAIRS (IF ANY).
- NOTE: MINIMUM 24 HOURS NOTICE IS REQUIRED FOR ALL INSPECTIONS.

DWELLING FOUNDATION RELEVEL

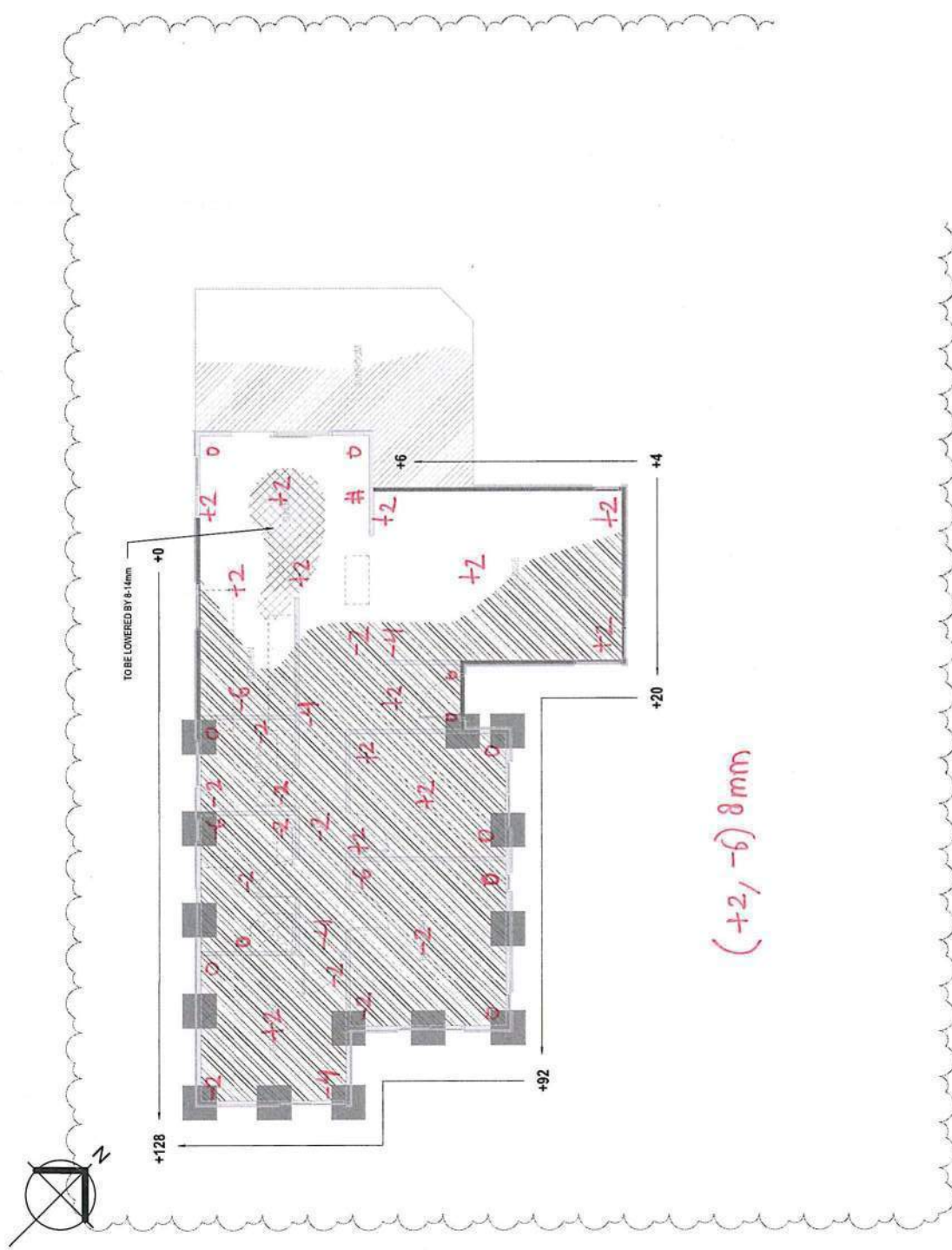
1. SECTION OF THE PERIMETER FOUNDATION IS TO BE PARTIALLY RELEVELLED VIA MECHANICAL LIFTING METHOD (UNDERPINNING) AS PER SPECIFIC ENGINEERING DETAIL.
2. THE INTERNAL TIMBER FLOOR IS TO BE PARTIALLY RELEVELLED VIA JACKING AND PACKING OR PILE REPLACEMENT METHOD AS PER NBE GUIDANCE AND SPECIFIC ENGINEERING DETAIL.
3. SECTION OF THE PERIMETER FOUNDATION IS TO BE PARTIALLY RELEVELLED VIA OVERPINNING METHOD AS PER SPECIFIC ENGINEERING DETAILS.
4. THE INTERNAL TIMBER FLOOR IS TO BE PARTIALLY RELEVELLED (LOWERED) VIA BEARER NOTCHING METHOD AS PER NBE GUIDANCE AND SPECIFIC ENGINEERING DETAIL.
5. THE INTERNAL CONCRETE SLAB FLOOR IS TO BE PARTIALLY RELEVELLED VIA FLOOR LEVELLING COMPOUND.
6. SECTION OF THE DWELLING PERIMETER FOUNDATION IS TO BE REPLACED AS PER SPECIFIC ENGINEERING DETAIL (IF REQUIRED).
7. ANY CRACKING DAMAGE TO THE FOUNDATION SHALL BE REPAIRED AS PER SPECIFIC ENGINEERING DETAIL.

PILE REPLACEMENT NOTES

- IF PILE REPLACEMENT IS REQUIRED ON SITE, NEW PILE FOOTING SHALL BE AS FOLLOWS:
1. UNDER LOAD BEARING WALL: MIN. 800mm SQ. MIN. 400mm BELOW NGL.
 2. NOT UNDER LOAD BEARING WALL AND SUPPORT INTERNAL TIMBER FLOOR ONLY: MIN. 400mm SQ. DEPTH TO BE BELOW TOP SOIL ON MIN. 1000mm THICKNESS IS GREATER.
 3. JOIST AND BEARER SPAN ASSUMED TO BE MAX. 1.5m, TO BE CONFIRMED ON SITE.

LEGENDS

- INDICATIVE MIN 750x750 CONCRETE PAD, MIN. 400mm BELOW NGL, AT MAX. 2500mm CRS. ACTUAL LOCATIONS OF JACKING PADS SHALL BE CONFIRMED BY CONTRACTOR DURING CONSTRUCTION PHASE.
- INTERNAL TIMBER FLOOR TO BE RELEVELLED VIA JACK AND PACK UNDERPINNING METHOD (IF REQUIRED) AS PER SPECIFIC ENGINEERING DETAILS.
- PERIMETER CONCRETE FOUNDATION TO BE RELEVELLED VIA OVERPINNING METHOD AS PER SPECIFIC ENGINEERING DETAILS.
- INTERNAL TIMBER FLOOR TO BE RELEVELLED VIA BEARER NOTCHING METHOD AS PER SPECIFIC ENGINEERING DETAILS.
- SECTION OF THE INTERNAL CONCRETE SLAB FLOOR TO BE RELEVELLED BY FLOOR LEVELLING COMPOUND (F.L.C.).
- CONCRETE PERIMETER FOUNDATION TO BE RELEVELLED BY XX mm, TO BE CONFIRMED ON SITE BY CONTRACTOR.
- XX →



RE-LEVELLING PLAN

1:100



SITE INSPECTION REPORT

JOB NUMBER:	24338	BUILDING CONSENT:	
SITE ADDRESS:	38 Vivian St	CONTRACTOR:	Pacificbuild
DATE:	07/08/2025	CONTACT:	Jason (021335435)
REASON FOR SITE VISIT:	Final Inspection		(jason@pacificbuild.co.nz)

OBSERVATIONS AND INSTRUCTIONS

1. Foundation re-levelling was carried out as per our plan.
2. External perimeter foundation partially re-levelled by mechanical lifting (underpinning) and overpinning method.
3. Internal timber floor was partially re-levelled by jacking and packing of piles, pile replacement and bearer notching method .
4. No relevelling work was carried out for the internal slab of Sunroom . **RECTIFY AND REINSPECT**
5. Total floor level variation of 8mm (+4, -4) was observed across the timber floor of the main dwelling foundation post re-levelling .
6. No localised floor slopes exceeding general construction tolerance was observed during our inspection for the timber floor of the main dwelling.
7. Pile with double packer below Bedroom 3 sub-floor was observed. **RECTIFY AND SEND PHOTO**



**PROVIDE SINGLE
SOLID PACKER
LESS THAN 100mm**

for main dwelling subfloor connection

☐ Proceed with work once Council has inspected and approved

☐ Rectify and proceed once Council has inspected and approved

☒ Rectify and provide photos for engineer's approval

☒ Rectify and re-inspect for conservatory

1. Contractor to advise when the next inspection is due, providing a minimum of 24 hours' notice
2. Any approvals of monitored work by us must also be passed by Council. It is the responsibility of the Building Consent applicant to ensure that any changes made are supported either by a formal amendment or a minor variation, unless an agreement is reached with Council. This form together with any design changes must be passed on to a Council representative at the earliest opportunity for them to advise accordingly. Contractor must notify the engineer if Council does not pass the work and must NOT proceed.
3. Site inspection is limited to non-intrusive observations and reviews of random samples of critical work, either prior to enclosure or upon completion, as appropriate.

Consultant representative: Kiran Joshi

Signature: KJ



SITE INSPECTION REPORT

JOB NUMBER:	24338	BUILDING CONSENT:	Pacificbuild
SITE ADDRESS:	38 Vivian St	CONTRACTOR:	Jason (021335435)
DATE:	07/08/2025	CONTACT:	(jason@pacificbuild.co.nz)
REASON FOR SITE VISIT:	Final Inspection		

OBSERVATIONS AND INSTRUCTIONS

8. Missing bearer to foundation connection was observed for the packer along the chimney base (on both end) below Bedroom 2. **RECTIFY AND SEND PHOTO.**



2/S/S SHEET BRACE
STRAP WITH 8G
TEK SCREW INTO
PILE AND BEARER

9. Missing bearer to foundation connection was observed for the packer along the perimeter foundation. Contractor to provide the connection as per details provided on sheet S404. **RECTIFY AND SEND PHOTO.**



for all the location
where we have
packer along the
perimeter foundation.

10. Crack to the ring foundation repaired as per our details .

11. Rest of the subfloor connections provided as per our details and recommendations .

for main dwelling subfloor connection

☐ Proceed with work once Council has inspected and approved

☐ Rectify and proceed once Council has inspected and approved

☒ Rectify and provide photos for engineer's approval

☒ Rectify and re-inspect
for conservatory

- Contractor to advise when the next inspection is due, providing a minimum of 24 hours' notice
- Any approvals of monitored work by us must also be passed by Council. It is the responsibility of the Building Consent applicant to ensure that any changes made are supported either by a formal amendment or a minor variation, unless an agreement is reached with Council. This form together with any design changes must be passed on to a Council representative at the earliest opportunity for them to advise accordingly. Contractor must notify the engineer if Council does not pass the work and must NOT proceed.
- Site inspection is limited to non-intrusive observations and reviews of random samples of critical work, either prior to enclosure or upon completion, as appropriate.

Consultant representative: Kiran Joshi

Signature:

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE.
2. FOLLOWING COMPLETION OF FOUNDATION REMEDIATION, ALLP SHALL INSPECT AND PROVIDE REMEDIATION STRATEGY FOR, AND SUPERVISE REPAIR OF NON-STRUCTURAL ELEMENTS, SUCH AS EXTERNAL CLADDING AND EXTERNAL AGENTS.
3. THE EXTENT OF REQUIRED RELEVELLING MUST BE CONFIRMED ON-SITE BY THE CONTRACTOR. ALL EFFORTS MUST BE MADE TO RESTORE THE BUILDING TO THE ORIGINAL DESIGN INTENT, WITHIN THE TOLERANCES AND LEVEL VARIATIONS WITHIN ACCEPTED TOLERANCES, AS OUTLINED IN THE GUIDANCE.
4. TARGET FLOOR LEVELS SHALL BE DETERMINED WITH CONSIDERATION GIVEN TO THE PERFORMANCE OF BUILDINGS IN SOME CASES, ACHIEVING THIS MAY PROVE IMPRACTICAL DUE TO POSSIBLE ADDITIONAL STRESS ON THE SUPERSTRUCTURE.
5. IF CONSEQUENT DAMAGE, SUCH AS CRACKING OF EXISTING WINDOW SILLS NOT RELATED TO EARTHQUAKES, BEGINS TO APPEAR DURING THERELEVELLING, THE CONTRACTOR SHALL BE CONSULTED TO PROVIDE INSTRUCTIONS FOR FURTHER RELEVELLING WORKS.
6. GEOTECHNICAL REPORT BY PERIOD, DATED 17 FEBRUARY 2025 STATES THAT MINIMUM 400mm BELOW THE MSL, SOIL BEARING CAPACITY IS TO BE REVEALED BY PERIOD ON SITE.
7. ALL EXISTING JACOBS SHALL BE PLACED IN EACH EXCAVATED PIT AT 100mm FROM EDGE OF EXCAVATION. THE 100mm OF UNDERPINNING PADS REFERS TO OUR ENGINEERING DETAIL BELOW.
8. THE REPAIR TO THE DETACHED GARAGES IS OUTSIDE OF OUR SCOPE OF WORK AND IS EXCLUDED FROM OUR STRUCTURAL DRAWINGS.

INSPECTIONS

1. POST CUT INSPECTION OF THE UNDERPINNING PADS RELEVELLING, INTERNAL CONCRETE FOOTING AND ALL EXISTING FOUNDATION ELEMENTS, INCLUDING THE SIZE, GROUND CONDITIONS AND THE BEARING CAPACITY AT THE EXCAVATED DEPTH.
2. PRE-CUT INSPECTION TO CHECK REINFORCING STEEL OF THE UNDERPINNING PAD (RELEVELLING), FOUNDATION BEARING CAPACITY (IF ANY) PRIOR TO POURING OF CONCRETE.
3. 3 FINAL FLOOR LEVEL, SUB-FLOOR CONNECTIONS, AND CRACK REPAIRS (IF ANY).

NOTE: MINIMUM 24 HOURS NOTICE IS REQUIRED FOR ALL INSPECTIONS.

DWELLING FOUNDATION RELEVEL

1. SECTION OF THE PERIMETER FOUNDATION IS TO BE PARTIALLY RELEVELLED VIA MECHANICAL LIFTING METHOD (UNDERPINNING) AS PER SPECIFIC ENGINEERING DETAIL.
2. THE INTERNAL TIMBER FLOORS IS TO BE PARTIALLY RELEVELLED VIA JACKING AND PILING ON FILE REPLACEMENT METHOD AS PER SPECIFIC ENGINEERING DETAIL.
3. SECTION OF THE PERIMETER FOUNDATION IS TO BE PARTIALLY RELEVELLED VIA JACKING METHOD, PER SPECIFIC ENGINEERING DETAIL.
4. THE INTERNAL TIMBER FLOORS IS TO BE PARTIALLY RELEVELLED VIA BEARER NOTCHING METHOD AS PER SPECIFIC ENGINEERING DETAIL.
5. THE INTERNAL CONCRETE SLAB FLOOR IS TO BE PARTIALLY RELEVELLED VIA FLOOR LEVELLING COMPOUND.
6. SECTION OF THE DWELLING PERIMETER FOUNDATION IS TO BE REPAIRED AS PER SPECIFIC ENGINEERING DETAIL (IF REQUIRED).
7. ANY CRACKING DAMAGE TO THE FOUNDATION SHALL BE REPAIRED AS PER SPECIFIC ENGINEERING DETAIL.

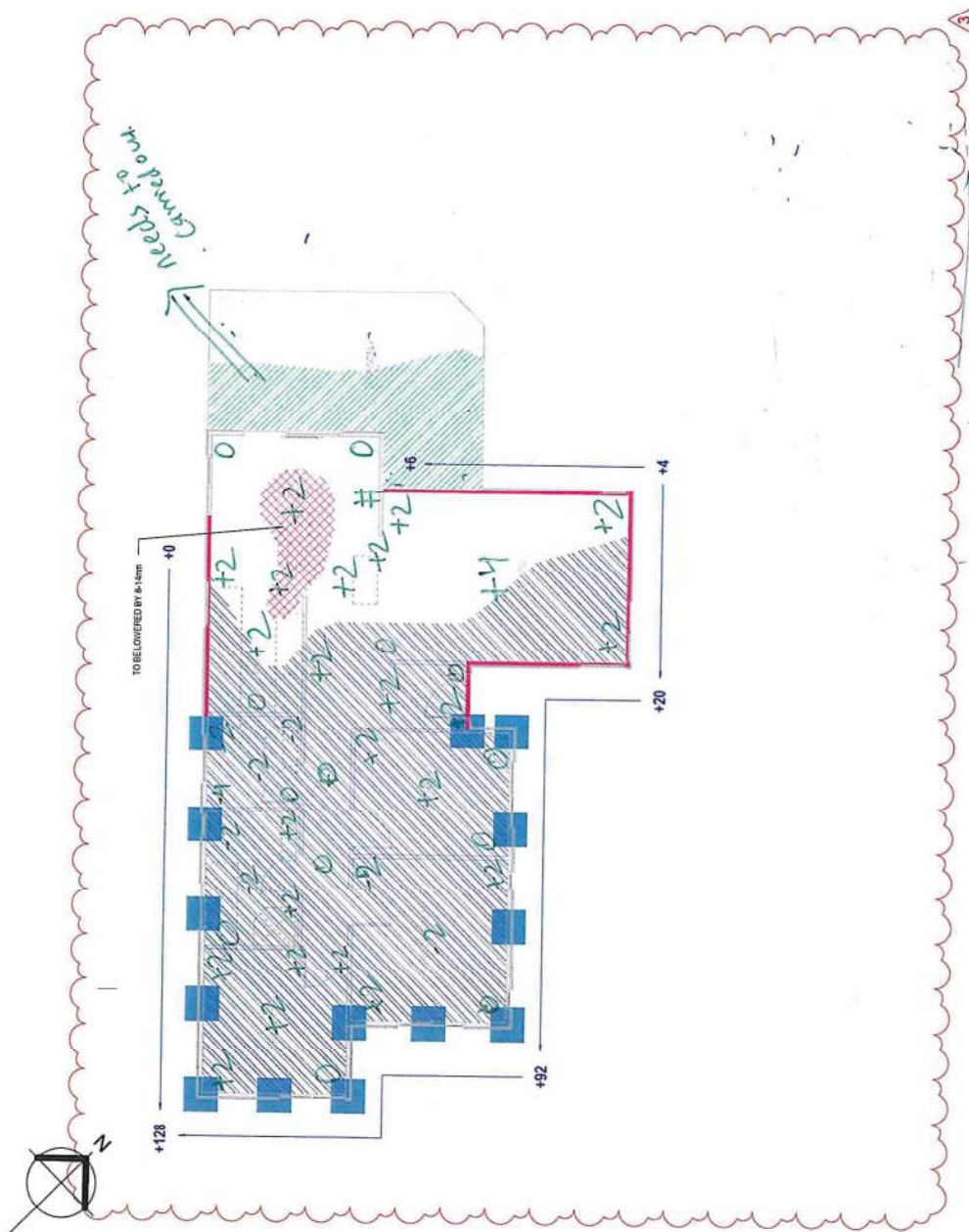
FILE REPLACEMENT NOTE

- FILE REPLACEMENT IS REQUIRED ON SITE. NEW FILE FOOTING SHALL BE AS FOLLOWS:
1. UNDER LOAD BEARING WALL: MIN. 600mm SQ. MIN. 400mm BELOW FSL.
 2. NOT UNDER LOAD BEARING WALL AND SUPPORT INTERNAL TIMBER FLOOR ONLY: MIN. 400mm SQ. DEPTH TO BE BELOW TOPSOIL OR MIN. 1000pa WHICHEVER IS GREATER.
 3. JOIST AND BEARER SPAN ASSUMED TO BE MAX. 1.5m, TO BE CONFIRMED ON SITE.

LEGEND

- INDICATIVE MAX 750/750 CONCRETE PAD, MIN. 400mm BELOW FSL. AT 400mm DEPT. ACTUAL LOCATION OF JACKING PADS SHALL BE CONFIRMED BY CONTRACTOR DURING CONSTRUCTION PHASE.
- INTERNAL TIMBER FLOOR TO BE RELEVELLED VIA JACK AND PILE REPLACEMENT (IF REQUIRED) AS PER SPECIFIC ENGINEERING DETAIL.
- PERIMETER CONCRETE FOUNDATION TO BE RELEVELLED VIA JACKING METHOD AS PER SPECIFIC ENGINEERING DETAIL.
- INTERNAL TIMBER FLOOR TO BE RELEVELLED VIA BEARER NOTCHING METHOD AS PER SPECIFIC ENGINEERING DETAIL.
- SECTION OF THE INTERNAL CONCRETE SLAB FLOOR TO BE RELEVELLED BY FLOOR LEVELLING COMPOUND P.L.C.
- CONCRETE PERIMETER FOUNDATION TO BE RELEVELLED BY XX mm, TO BE CONFIRMED ON SITE BY CONTRACTOR.

XX



RELEVELLING PLAN

1:100

PERIODOT
engineering

CLIENT
NIGEL RIPLEY

DESIGNED BY	D.T.
3	13/02/2025
DRAWN BY	D.T.
2	27/02/2025
REVIEWED BY	N.K.
1	17/02/2025
DATE	DATE
13/02/2025	17/02/2025
AS SCALE	1:100

REPAIR DESIGN FOR EXISTING RESIDENTIAL DWELLING
38 WILAN STREET, BURWOOD, CHRISTCHURCH 8083

RELEVELLING PLAN

24338

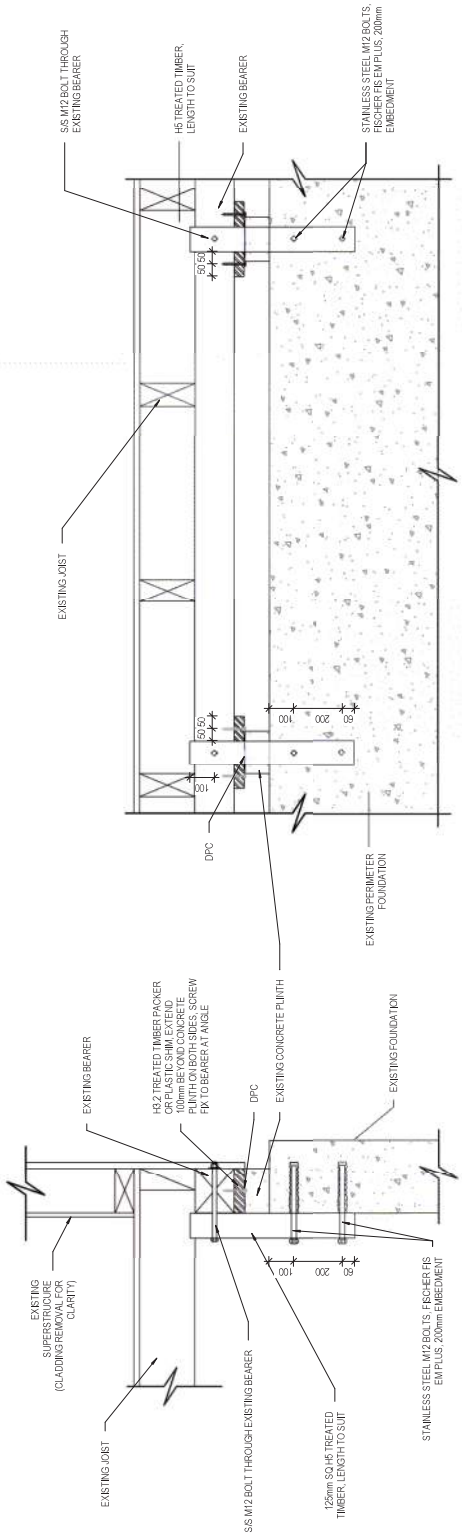
SHEET NO.

\$101

FOR BUILDING CONSENT

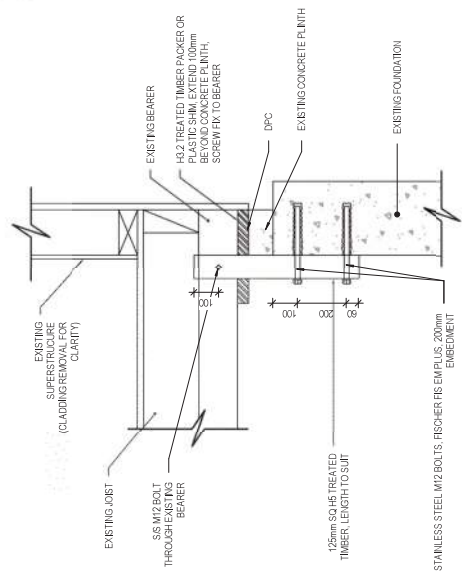
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SHEET REV

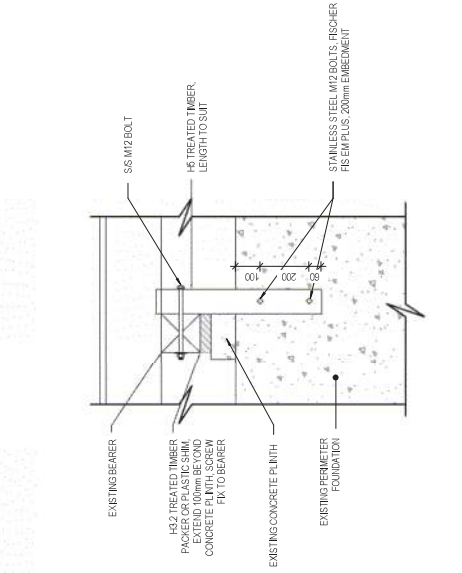


1 FOUNDATION PACKING DETAIL (SECTION) - BEARER PARALLEL TO PERIMETER FOUNDATION
A1:1/10 / A3:1/20

2 FOUNDATION PACKING DETAIL (ELEVATION) BEARER PARALLEL TO PERIMETER FOUNDATION
A1:1/10 / A3:1/20



3 FOUNDATION PACKING DETAIL (ELEVATION) BEARER PERPENDICULAR TO PERIMETER FOUNDATION
A1:1/10 / A3:1/20



4 FOUNDATION PACKING DETAIL (SECTION) BEARER PERPENDICULAR TO PERIMETER FOUNDATION
A1:1/10 / A3:1/20

NOTES

- JACK & PACK EXISTING BEARERS TO LIFT SUB-FLOOR FRAMING TO DESIRED LEVEL, REINSTATE CONNECTIONS TO DETAILS SHOWN.
- CONFIRM LEVELS ON SITE PRIOR TO RE-LEVELING.
- ALL FIXINGS TO BE TYPE 304 STAINLESS STEEL.
- TO BE READ IN CONJUNCTION WITH ENGINEER'S TECHNICAL REPORT, OTHER DETAILS IN THE DESIGN DRAWING SET AND SPECIFICATION.
- ALL FIXINGS TO BE APPROXIMATELY PRE-DRILLED TO PREVENT SPLITTING.
- FOLLOWING COMPLETION OF FOUNDATION PACKING (OVERLAPPING), SUB-FLOOR FRAMING SHALL BE REINSTATE TO ORIGINAL POSITION AND FINISHED BY SS M12 BOLTS AND H5 TREATED TIMBER AS PER OUR DETAIL OR ALTERNATIVELY SS M12 BOLT AS PER NZS 3904:2011.
- FOR PACKER 38mm TIMBER PACKER TO BEARER WITH 140mm SS SCREWS, MIN THREAD EMBEDMENT IN BEARER 50mm, MIN THREAD EMBEDMENT IN CONCRETE 100mm, MIN THREAD EMBEDMENT IN PLINTH 100mm, MIN THREAD EMBEDMENT IN FOUNDATION 200mm, MIN THREAD EMBEDMENT IN PERIMETER FOUNDATION 200mm.

CLIENT
NIGEL RIPLEY

STRUCTURAL DRAWINGS TO BE USED IN CONJUNCTION WITH THE PERIDOT ENGINEERING LIMITED LIABILITY AGREEMENT AND THE PERIDOT ENGINEERING LIMITED LIABILITY AGREEMENT. THE PERIDOT ENGINEERING LIMITED LIABILITY AGREEMENT IS A LEGAL DOCUMENT AND IT IS THE RESPONSIBILITY OF THE USER TO ENSURE THAT THE DRAWING IS USED IN ACCORDANCE WITH THE PERIDOT ENGINEERING LIMITED LIABILITY AGREEMENT. THE PERIDOT ENGINEERING LIMITED LIABILITY AGREEMENT IS A LEGAL DOCUMENT AND IT IS THE RESPONSIBILITY OF THE USER TO ENSURE THAT THE DRAWING IS USED IN ACCORDANCE WITH THE PERIDOT ENGINEERING LIMITED LIABILITY AGREEMENT.

DESIGNED BY: S.T.
DRAWN BY: D.V.
REVIEWED BY: M.A.
DATE: 13/03/2025
FOR BUILDING CONSENT
A3 SCALE: 1:20

REPAIR DESIGN FOR EXISTING RESIDENTIAL DWELLING
38 VIVIAN STREET, BURWOOD, CHRISTCHURCH 8083

RE-LEVELLING / REPAIR DETAILS 4
FOR BUILDING CONSENT

JOB NO. 24338
SHEET NO. S404
SHEET REV. 1



SITE INSPECTION REPORT

JOB NUMBER:	24338	BUILDING CONSENT:	
SITE ADDRESS:	38 Vivian St	CONTRACTOR:	Pacificbuild
DATE:	07/08/2025	CONTACT:	Jason (021335435)
REASON FOR SITE VISIT:	Final Inspection		(jason@pacificbuild.co.nz)

OBSERVATIONS AND INSTRUCTIONS

1. Foundation re-levelling was carried out as per our plan.

OK refer to final inspection site note for conservatory, dated 29/08/2025

2. External perimeter foundation partially re-levelled by mechanical lifting (underpinning) and overpinning method.

3. Internal timber floor was partially re-levelled by jacking and packing of piles, pile replacement and bearer notching method .

4. No relevelling work was carried out for the internal slab of Sunroom

RECTIFY AND REINSPECT

5. Total floor level variation of 8mm (+4, -4) was observed across the timber floor of the main dwelling foundation post re-levelling .

6. No localised floor slopes exceeding general construction tolerance was observed during our inspection for the timber floor of the main dwelling.

7. Pile with double packer below Bedroom 3 sub-floor was observed. RECTIFY AND SEND PHOTO



PROVIDE SINGLE SOLID PACKER LESS THAN 100mm

Provided on 29/08/2025 - OK

23/09/2025

for main dwelling subfloor connection

KJ

- | | | | |
|---|--|--|---|
| ☒ Proceed with work once Council has inspected and approved | ☐ Rectify and proceed once Council has inspected and approved | ☒ Rectify and provide photos for engineer's approval | ☒ Rectify and re-inspect for conservatory |
|---|--|--|---|

- Contractor to advise when the next inspection is due, providing a minimum of 24 hours' notice
- Any approvals of monitored work by us must also be passed by Council. It is the responsibility of the Building Consent applicant to ensure that any changes made are supported either by a formal amendment or a minor variation, unless an agreement is reached with Council. This form together with any design changes must be passed on to a Council representative at the earliest opportunity for them to advise accordingly. Contractor must notify the engineer if Council does not pass the work and must NOT proceed.
- Site inspection is limited to non-intrusive observations and reviews of random samples of critical work, either prior to enclosure or upon completion, as appropriate.

Consultant representative: Kiran Joshi

Signature: KJ



SITE INSPECTION REPORT

JOB NUMBER:	24338	BUILDING CONSENT:	Pacificbuild
SITE ADDRESS:	38 Vivian St	CONTRACTOR:	Jason (021335435)
DATE:	07/08/2025	CONTACT:	(jason@pacificbuild.co.nz)
REASON FOR SITE VISIT:	Final Inspection		

OBSERVATIONS AND INSTRUCTIONS

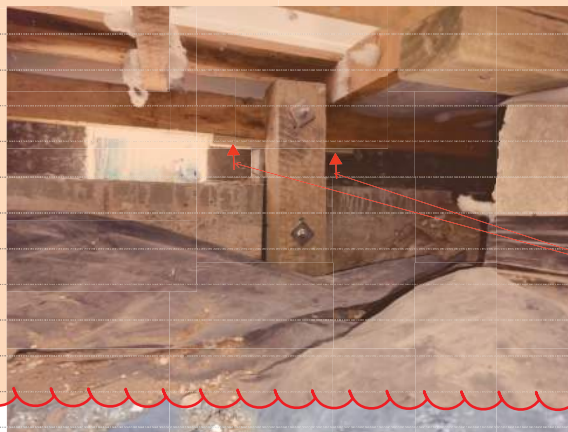
8. Missing bearer to foundation connection was observed for the packer along the chimney base (on both end) below Bedroom 2. **RECTIFY AND SEND PHOTO.**



2/S/S SHEET BRACE STRAP WITH 8G TEK SCREW INTO PILE AND BEARER

14G S/S SCREWS

9. Missing bearer to foundation connection was observed for the packer along the perimeter foundation. Contractor to provide the connection as per details provided on sheet S404. **RECTIFY AND SEND PHOTO.**



for all the location where we have packer along the perimeter foundation.

10. Crack to the ring foundation repaired as per our details .

Provided on 29/08/2025 - OK

11. Rest of the subfloor connections provided as per our details and recommendations .

23/09/2025

for main dwelling subfloor connection

KJ

☒ Proceed with work once Council has inspected and approved

☐ Rectify and proceed once Council has inspected and approved

☒ Rectify and provide photos for engineer's approval

☒ Rectify and re-inspect for conservatory

- Contractor to advise when the next inspection is due, providing a minimum of 24 hours' notice
- Any approvals of monitored work by us must also be passed by Council. It is the responsibility of the Building Consent applicant to ensure that any changes made are supported either by a formal amendment or a minor variation, unless an agreement is reached with Council. This form together with any design changes must be passed on to a Council representative at the earliest opportunity for them to advise accordingly. Contractor must notify the engineer if Council does not pass the work and must NOT proceed.
- Site inspection is limited to non-intrusive observations and reviews of random samples of critical work, either prior to enclosure or upon completion, as appropriate.

Consultant representative: Kiran Joshi

Signature: [Signature]

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE.
2. FOLLOWING COMPLETION OF FOUNDATION REMEDIATION, ALLP SHALL INSPECT AND PROVIDE REMEDIATION STRATEGY FOR, AND SUPERVISE REPAIR OF NON-STRUCTURAL ELEMENTS, SUCH AS EXTERNAL CLADDING AND EXTERNAL AGENTS.
3. THE EXTENT OF REQUIRED RELEVELLING MUST BE CONFIRMED ON-SITE BY THE CONTRACTOR. ALL EFFORTS MUST BE MADE TO RESTORE THE BUILDING TO THE ORIGINAL DESIGN INTENT, WITHIN THE TOLERANCES AND LEVEL VARIATIONS WITHIN ACCEPTED TOLERANCES, AS OUTLINED IN THE GUIDANCE.
4. TARGET FLOOR LEVELS SHALL BE DETERMINED WITH CONSIDERATION GIVEN TO THE PERFORMANCE OF BUILDINGS IN SOME CASES, ACHIEVING THIS MAY PROVE IMPRACTICAL DUE TO POSSIBLE ADDITIONAL STRESS ON THE SUPERSTRUCTURE.
5. IF CONSEQUENT DAMAGE, SUCH AS CRACKING OF EXISTING WINDOW SILL NOT RELATED TO EARTHQUAKES, BEGINS TO APPEAR DURING THERELEVELLING, THE CONTRACTOR SHALL BE CONSULTED TO PROVIDE INSTRUCTIONS FOR FURTHER RELEVELLING WORKS.
6. GEOTECHNICAL REPORT BY PERIOD, DATED 17 FEBRUARY 2025 STATES THAT MINIMUM RELEVELLING OF THE BUILDING SHALL BE ACHIEVED AT A DEPTH OF 400mm BELOW THE MIN. SOIL BEARING CAPACITY TO BE RELEVELLED BY PERIOD ON SITE.
7. ALL EXISTING JACOBS SHALL BE PLACED IN EACH EXCAVATED PIT AT 100mm FROM EDGE OF EXCAVATION. THE PLACING OF UNDERPINNING PADS REFERS TO OUR ENGINEERING DETAIL BELOW.
8. THE REPAIR TO THE DETACHED GARAGE IS OUTSIDE OF OUR SCOPE OF WORK AND IS EXCLUDED FROM OUR STRUCTURAL DRAWINGS.

INSPECTIONS

1. POST OUT INSPECTION OF THE UNDERPINNING PADS RELEVELLING, INTERNAL CONCRETE FOOTING AND ALL EXISTING NON-STRUCTURAL ELEMENTS, SUCH AS EXTERNAL CLADDING AND EXTERNAL AGENTS.
2. PRELIMINARY INSPECTION TO CHECK RELEVANCE OF THE UNDERPINNING PAD (RELEVELLING), FOUNDATION BEARING CAPACITY (IF ANY) PRIOR TO POURING OF CONCRETE.
3. 3 FINAL FLOOR LEVEL, SUB-FLOOR CONNECTIONS, AND CRACK REPAIRS (IF ANY).

NOTE: MINIMUM 24 HOURS NOTICE IS REQUIRED FOR ALL INSPECTIONS.

DWELLING FOUNDATION RELEVEL

1. SECTION OF THE PERIMETER FOUNDATION IS TO BE PARTIALLY RELEVELLED VIA MECHANICAL LIFTING METHOD (UNDERPINNING) AS PER SPECIFIC ENGINEERING DETAIL.
2. THE INTERNAL TIMBER FLOORS IS TO BE PARTIALLY RELEVELLED VIA JACKING AND HOISTING METHOD, PER SPECIFIC ENGINEERING DETAIL.
3. SECTION OF THE PERIMETER FOUNDATION IS TO BE PARTIALLY RELEVELLED VIA JACKING METHOD, PER SPECIFIC ENGINEERING DETAIL.
4. THE INTERNAL TIMBER FLOORS IS TO BE PARTIALLY RELEVELLED VIA BEARER HOISTING METHOD AS PER ME GUIDANCE AND SPECIFIC ENGINEERING DETAIL.
5. THE INTERNAL CONCRETE SLAB FLOOR IS TO BE PARTIALLY RELEVELLED VIA FLOOR LEVELLING COMPOUND.
6. SECTION OF THE DWELLING PERIMETER FOUNDATION IS TO BE REPAIRED AS PER SPECIFIC ENGINEERING DETAIL (IF REQUIRED).
7. ANY CRACKING DAMAGE TO THE FOUNDATION SHALL BE REPAIRED AS PER SPECIFIC ENGINEERING DETAIL.

PILE REPLACEMENT NOTE

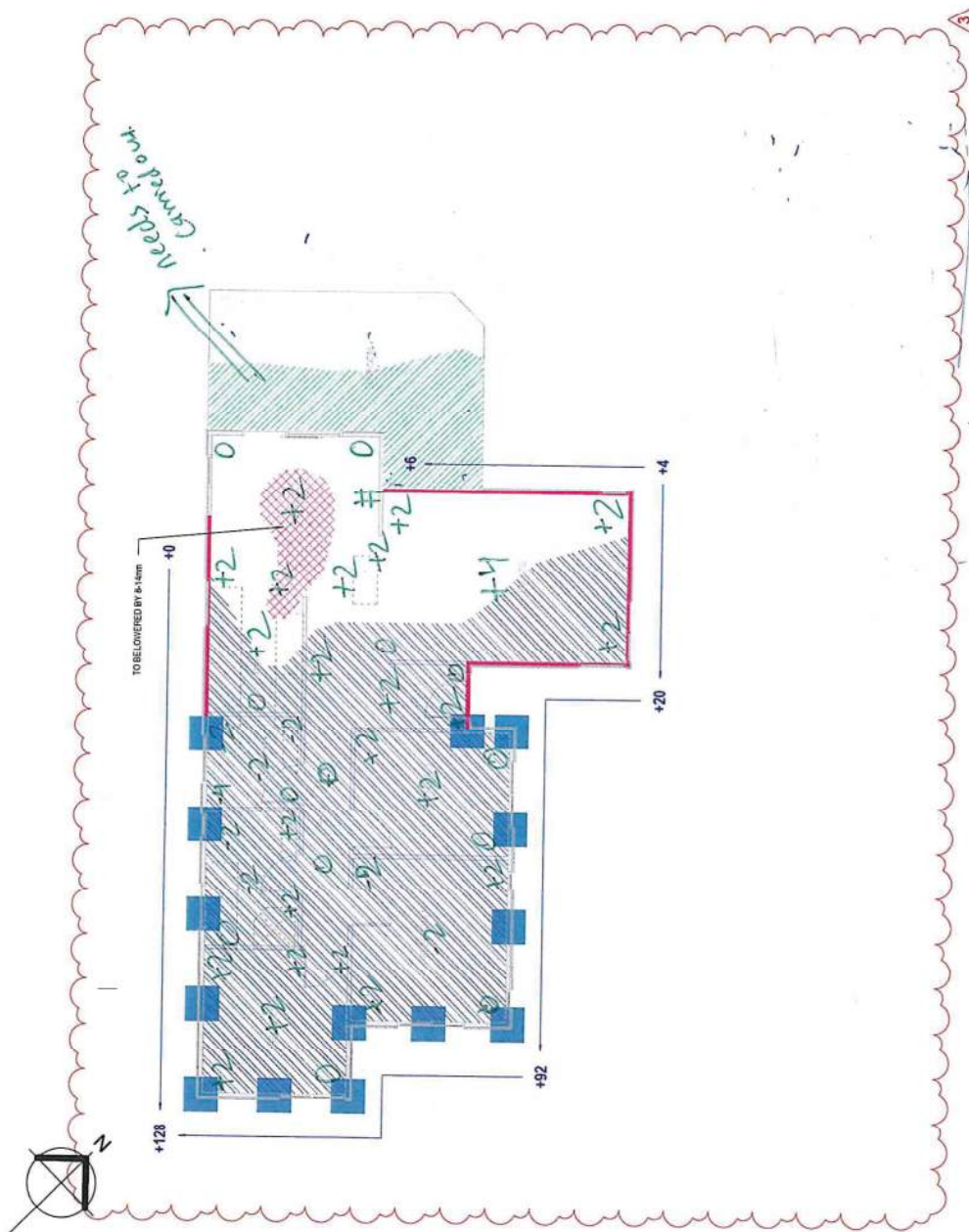
IF PILE REPLACEMENT IS REQUIRED ON SITE, NEW PILE FOOTING SHALL BE AS FOLLOWS:

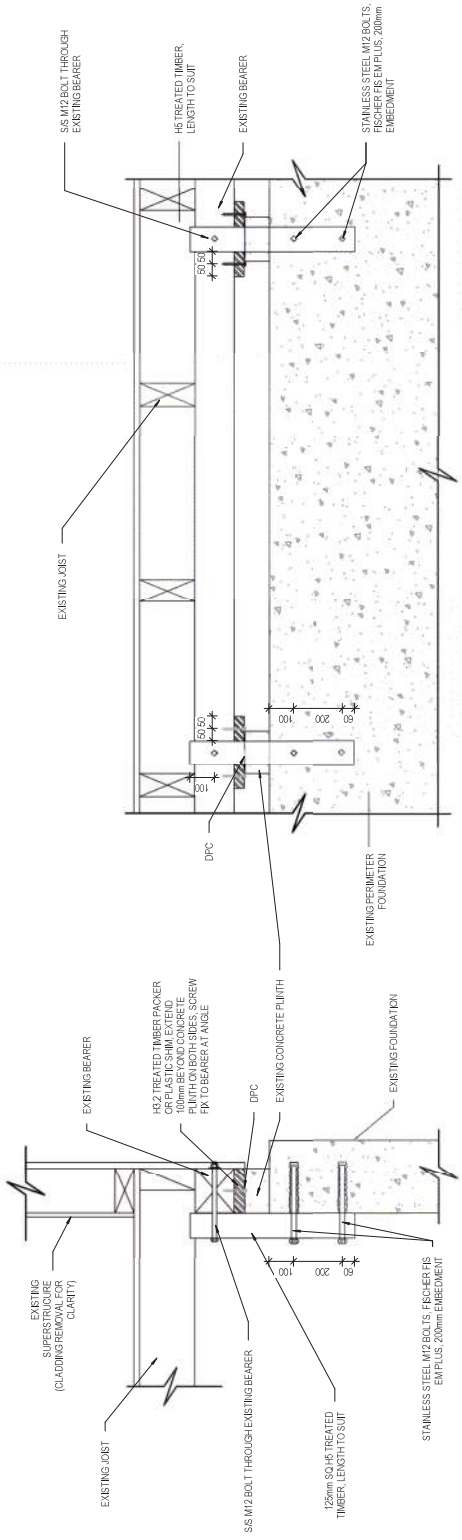
1. UNDER LOAD BEARING WALL: MIN. 600mm SQ. MIN. 400mm BELOW FSL.
2. NOT UNDER LOAD BEARING WALL AND SUPPORT INTERNAL TIMBER FLOOR ONLY: MIN. 400mm SQ. DEPTH TO BE BELOW TOPSOIL OR MIN. 1000pa WHICHEVER IS GREATER.
3. JOIST AND BEARER SPAN ASSUMED TO BE MAX. 1.5m, TO BE CONFIRMED ON SITE.

LEGEND

- INDICATIVE MAX 750/750 CONCRETE PAD, MIN. 400mm BELOW FSL. AT ALL LOCATIONS. ACTUAL LOCATIONS OF JACKING PADS SHALL BE CONFIRMED BY CONTRACTOR DURING CONSTRUCTION PHASE.
- INTERNAL TIMBER FLOOR TO BE RELEVELLED VIA JACK AND PACK SHOWN IN DETAIL.
- PERIMETER CONCRETE FOUNDATION TO BE RELEVELLED VIA JACKING METHOD AS PER SPECIFIC ENGINEERING DETAIL.
- INTERNAL TIMBER FLOOR TO BE RELEVELLED VIA BEARER HOISTING METHOD AS PER SPECIFIC ENGINEERING DETAIL.
- SECTION OF THE INTERNAL CONCRETE SLAB FLOOR TO BE RELEVELLED BY FLOOR LEVELLING COMPOUND P.L.C.
- CONCRETE PERIMETER FOUNDATION TO BE RELEVELLED BY XX mm, TO BE CONFIRMED ON SITE BY CONTRACTOR.

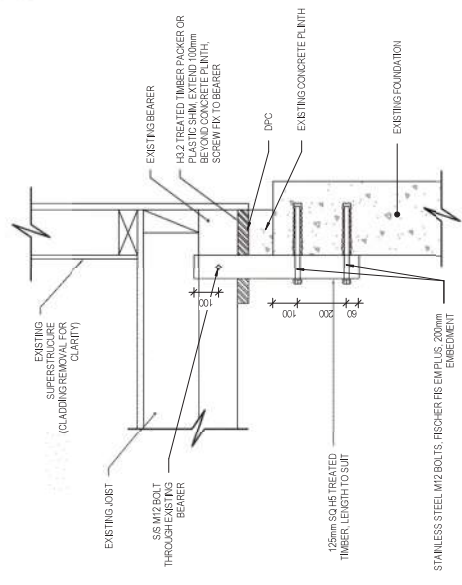
XX



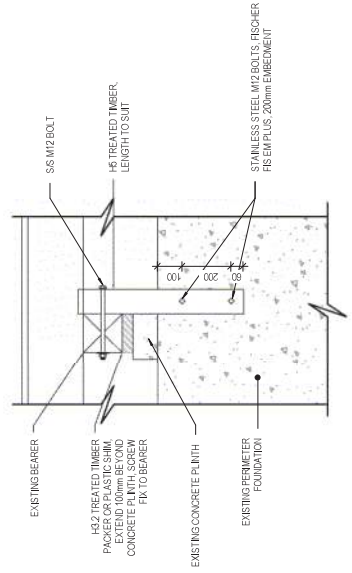


1 FOUNDATION PACKING DETAIL (SECTION) - BEARER PARALLEL TO PERIMETER FOUNDATION
A1:1/10 / A3:1/20

2 FOUNDATION PACKING DETAIL (ELEVATION) BEARER PARALLEL TO PERIMETER FOUNDATION
A1:1/10 / A3:1/20



3 FOUNDATION PACKING DETAIL (ELEVATION) BEARER PERPENDICULAR TO PERIMETER FOUNDATION
A1:1/10 / A3:1/20



4 FOUNDATION PACKING DETAIL (SECTION) BEARER PERPENDICULAR TO PERIMETER FOUNDATION
A1:1/10 / A3:1/20

NOTES

- JACK & PACK EXISTING BEARERS TO LIFT SUB-FLOOR FRAMING TO DESIRED LEVEL, REINSTATE CONNECTIONS TO DETAILS SHOWN.
- CONFIRM LEVELS ON SITE PRIOR TO RE-LEVELING.
- ALL FIXINGS TO BE TYPE 304 STAINLESS STEEL.
- TO BE READ IN CONJUNCTION WITH ENGINEER'S TECHNICAL REPORT, OTHER DETAILS IN THE DESIGN DRAWING SET AND SPECIFICATION.
- ALL FIXINGS TO BE APPROXIMATELY PRE-DRILLED TO PREVENT SPLITTING.
- FOLLOWING COMPLETION OF FOUNDATION PACKING (OVERLAPPING), SUB-FLOOR FRAMING SHALL BE REINTEGRATED WITH EXISTING SUB-FLOOR FRAMING BY SS M12 BOLTS AND H5 TREATED TIMBER AS PER OUR DETAIL OR ALTERNATIVELY S6 M12 BOLT AS PER NZS 3904:2011.
- FOR PACKER 300mm TIMBER PACKER TO BEARER WITH 140mm SS SCREWS, MIN THREAD ENGAGEMENT IN BEARER 50mm.

CLIENT
NIGEL RIPLEY

STRUCTURAL DRAWINGS TO BE USED IN CONJUNCTION WITH THE PERIDOT ENGINEERING LIMITED LIABILITY AGREEMENT AND OTHER RELEVANT DOCUMENTS. PERIDOT ENGINEERING LIMITED ACCEPTS NO LIABILITY FOR ANY LOSS OR DAMAGE ARISING FROM THE USE OF THESE DRAWINGS FOR ANY PURPOSE OTHER THAN THAT FOR WHICH THEY WERE PREPARED. PERIDOT ENGINEERING LIMITED IS NOT RESPONSIBLE FOR ANY LOSS OR DAMAGE ARISING FROM THE USE OF THESE DRAWINGS FOR ANY PURPOSE OTHER THAN THAT FOR WHICH THEY WERE PREPARED.

DO NOT SCALE.

REPAIR DESIGN FOR EXISTING RESIDENTIAL DWELLING
38 VIVIAN STREET, BURWOOD, CHRISTCHURCH 8083

DESIGNED BY: S.T.
DRAWN BY: D.V.
REVIEWED BY: M.A.
DATE: 13/03/2025
FOR BUILDING CONSENT
A3 SCALE: 1:20

RE-LEVELLING / REPAIR
DETAILS 4

FOR BUILDING CONSENT

JOB NO.
24338
SHEET NO.
S404
SHEET REV.
1



SITE INSPECTION REPORT

JOB NUMBER:	24338	BUILDING CONSENT:	
SITE ADDRESS:	38 Vivian St	CONTRACTOR:	Pacificbuild
DATE:	27/08/2025	CONTACT:	Jason (021335435)
REASON FOR SITE VISIT:	Final 3 - conservatory/sunroom (jason@pacificbuild.co.nz)		

OBSERVATIONS AND INSTRUCTIONS

1) MAIN DWELLING:

a) Foundation re-levelling carried out as per our plan.

b) The internal concrete floor has been partially re-levelled by SikaFloor Level Ultra. The product used were not deemed to be equivalent to what we have proposed (FLC), hence some shrinkage cracking were observed on site. Therefore, Peridot is outside of the liability of the shrinkage cracking.

c) Overall, the floor level variation measured on site during our inspection was 8mm (+0, +8) within the 50mm required by the MBIE Guidance.

d) No localised slopes have been identified exceeding the limit of 0.5%. Any identified localised slopes were a subject of historical.

e) In consideration of the historical floor level variation, we consider that the re-levelling has been carried out to the maximum possible extent. Further re-levelling would have possibly caused unnecessary damage to the superstructure and amenities.

☒ Proceed with work once Council has inspected and approved

☐ Rectify and proceed once Council has inspected and approved

☐ Rectify and provide photos for engineer's approval

☐ Rectify and re-inspect

1. Contractor to advise when the next inspection is due, providing a minimum of 24 hours' notice
2. Any approvals of monitored work by us must also be passed by Council. It is the responsibility of the Building Consent applicant to ensure that any changes made are supported either by a formal amendment or a minor variation, unless an agreement is reached with Council. This form together with any design changes must be passed on to a Council representative at the earliest opportunity for them to advise accordingly. Contractor must notify the engineer if Council does not pass the work and must NOT proceed.
3. Site inspection is limited to non-intrusive observations and reviews of random samples of critical work, either prior to enclosure or upon completion, as appropriate.

Consultant representative: Steven

Signature: 

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE.
2. FOLLOWING COMPLETION OF FOUNDATION REMEDIATION ALL PILES SHALL BE RE-LEVELLED TO PROVIDE REMEDIATION STRATEGY FOR AND SUPERVISE REPAIR OF NON-STRUCTURAL ELEMENTS, SUCH AS EXTERNAL CLADDING AND EXTERNAL, ASBESTOS.
3. THE EXTENT OF REQUIRED RE-LEVELLING MUST BE CONFIRMED ON SITE BY THE CONTRACTOR. ALL EFFORTS MUST BE MADE TO RESTORE THE BUILDING TO THE REQUIRED PERFORMANCE LEVEL INCLUDING LEVEL, VARIATIONS WITHIN ACCEPTED TOLERANCES, AS OUTLINED IN BUREAU OF STANDARDS.
4. TARGET FLOOR LEVELS SHALL BE DETERMINED WITH CONSIDERATION TO THE PERFORMANCE OF BUILDING ASPECTS, SUCH AS DOOR AND WINDOW ALIGNMENT, CANNETRY AND ROOF DRAINAGE. THE CONTRACTOR SHALL ENSURE THAT THE RE-LEVELLING OF THE BUILDING DOES NOT CAUSE UNDESIRABLE ADJUSTMENTS TO THE EXISTING STRUCTURE.
5. IF CONSEQUENTIAL DAMAGE, SUCH AS MISALIGNMENT OF EXISTING WINDOW SILLS NOT RELATED TO FOUNDATION DAMAGE, IS IDENTIFIED DURING THE RE-LEVELLING, THE CONTRACTOR SHALL BE CONSULTED TO ADVISE ON THE APPROPRIATE REPAIRS TO THE DAMAGE.
6. GEOTECHNICAL REPORT BY PERIOD, DATED 17 FEBRUARY 2025 STATES THAT APPROXIMATELY 10% OF THE FOUNDATION PILES ARE DAMAGED AND REQUIRE REPAIR. THE CONTRACTOR SHALL BE CONSULTED TO ADVISE ON THE APPROPRIATE REPAIRS TO THE DAMAGE.
7. MIN. 3 PORTABLE JACKS SHALL BE PLACED IN EACH EXCAVATED PIT AT 100mm FROM EDGE OF EXCAVATION. THE SPACING OF UNDERPINNING PILES REFERS TO THE EXISTING DETAIL BELOW.
8. THE REPAIR TO THE DETACHED GARAGE IS OUTSIDE OF OUR SCOPE OF WORK AND IS EXCLUDED FROM OUR STRUCTURAL DRAWINGS.

INSPECTIONS

1. POST OUT INSPECTION OF THE UNDERPINNING PILES (RE-LEVELLING, INTERNAL CONCRETE FOOTINGS (IF ANY), FOUNDATION BEAM (IF REQUIRED), THE SIZE, GRADE, CONDITIONS AND THE BEARING CAPACITY AT THE EXCAVATED DEPTH.
2. PRE-PURCHASE INSPECTION TO CHECK REINFORCING STEEL OF THE UNDERPINNING PILES (RE-LEVELLING, FOUNDATION BEAM REPLACEMENT (IF ANY) PRIOR TO POURING OF CONCRETE).
3. FINAL FLOOR LEVEL, SUB-FLOOR CONNECTIONS, AND CRACK REPAIRS (IF ANY).

NOTE: MINIMUM 24 HOURS NOTICE IS REQUIRED FOR ALL INSPECTIONS.

DRILLING FOUNDATION DETAILS

1. SECTION OF THE PERIMETER FOUNDATION IS TO BE PARTIALLY RE-LEVELLED VIA MECHANICAL LIFTING METHOD (UNDERPINNING) AS PER SPECIFIC ENGINEERING DETAIL.
2. THE INTERNAL TIMBER FLOORS IS TO BE PARTIALLY RE-LEVELLED VIA JACKING AND PACKING ON PILE REPLACEMENT METHOD AS PER SPECIFIC GUIDANCE AND SPECIFIC ENGINEERING DETAIL.
3. SECTION OF THE PERIMETER FOUNDATION IS TO BE PARTIALLY RE-LEVELLED VIA OVERPINNING METHOD AS PER SPECIFIC ENGINEERING DETAIL.
4. THE INTERNAL TIMBER FLOORS IS TO BE PARTIALLY RE-LEVELLED LONERED VIA BEAMER NOTCHING METHOD AS PER SPECIFIC GUIDANCE AND SPECIFIC ENGINEERING DETAIL.
5. THE INTERNAL CONCRETE SLAB FLOOR IS TO BE PARTIALLY RE-LEVELLED VIA FLOOR LEVELLING COMPOUND.
6. SECTION OF THE DRILLING PERIMETER FOUNDATION IS TO BE REPLACED AS PER SPECIFIC ENGINEERING DETAIL (IF REQUIRED).
7. ANY CRACKING DAMAGE TO THE FOUNDATION SHALL BE REPAIRED AS PER SPECIFIC ENGINEERING DETAIL.

PILE REPLACEMENT NOTES

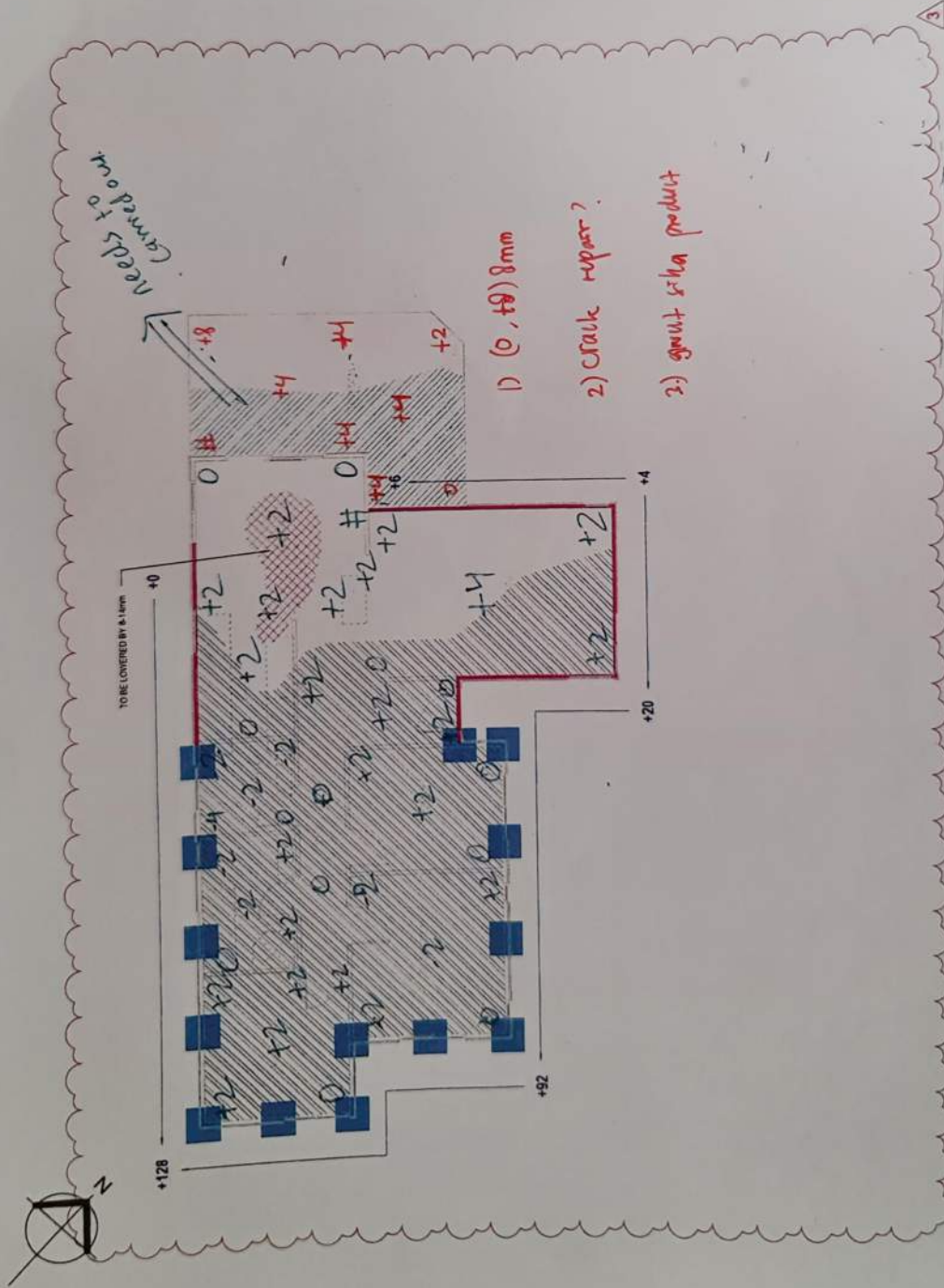
1. PILE REPLACEMENT IS REQUIRED ON SITE. NEW PILE FOOTING SHALL BE AS FOLLOWS:
 1. UNDER LOAD BEARING WALL: MIN. 800mm SQ. MIN. 400mm BELOW HFL.
 2. NOT UNDER LOAD BEARING WALL AND SUPPORT INTERNAL TIMBER FLOOR ONLY: MIN. 400mm SQ. DEPTH TO BE BELOW TOP SOIL ON MIN. 1000'S MINIMUM IS GREATER.
 3. JOIST AND BEAMER SPAN ASSUMED TO BE MAX. 1.5m. TO BE CONFIRMED ON SITE.

LEGEND

- INDICATIVE MIN. 750mm CONCRETE PAD, MIN. 400mm BELOW HFL. AT MAX. 2500mm CRS. ACTUAL LOCATIONS OF JACKING PADS SHALL BE CONFIRMED BY CONTRACTOR DURING CONSTRUCTION PHASE.
- INTERNAL TIMBER FLOOR TO BE RE-LEVELLED VIA JACK AND PACK ON PILE REPLACEMENT (IF REQUIRED AS PER SPECIFIC ENGINEERING DETAIL).
- PERIMETER CONCRETE FOUNDATION TO BE RE-LEVELLED VIA OVERPINNING METHOD AS PER SPECIFIC ENGINEERING DETAIL.
- INTERNAL TIMBER FLOOR TO BE RE-LEVELLED VIA BEAMER NOTCHING METHOD AS PER SPECIFIC ENGINEERING DETAIL.
- SECTION OF THE INTERNAL CONCRETE SLAB FLOOR TO BE RE-LEVELLED BY FLOOR LEVELLING COMPOUND (FLC).

CONCRETE PERIMETER FOUNDATION TO BE RE-LEVELLED BY XX mm. TO BE CONFIRMED ON SITE BY CONTRACTOR.

XX



Consenting & Compliance Group

Producer statement construction (PS3)

All sections of this PS3 must be completed

Tick applicable Contractor for:

- | | | | |
|---|---|--|------------------------------------|
| ☒ Building | ☐ Emergency Lighting | ☒ Cladding | ☐ Escalator |
| ☐ Waterproof Membranes | ☐ Drainlayer | ☐ Fire Alarm | ☐ Lift |
| ☐ Mechanical (HVAC) | ☐ Solar Heating | ☐ Other (specify): | |

Author name:
Jason Dalziel

Author company:
Pacific Builders (cant)Ltd

Site address:
38 Vivian Street

Description of building work:
House re-level- new cladding- new windows-new roof

Owners Details:
Burwood Christian Centre Trust

Scope of work covered by statement:
Foundation re-levelling works- install new windows, install new cladding

System/Product used (if applicable):

I (constructor): Jason Dalziel (Pacific Builders (cant)ltd
Burwood Christian Centre Trust

have been engaged by
(applicant, designer, main contractor etc) ☐ part ☒ all
to construct:

As specified in the attached particulars of Building Consent Number: 2025/2081 and its attached conditions
I am satisfied on reasonable grounds that the building work specified above has been completed to the extent required by that
Building Consent and complies with the NZ Building Code.

NZBC clauses:
(select as applicable)

- | | | | | | | | | | | | |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| ☒ B1 | ☐ B2 | ☐ C1 | ☐ C2 | ☐ C3 | ☐ C4 | ☐ C5 | ☐ C6 | ☐ D1 | ☐ D2 | ☐ E1 | ☐ E2 |
| ☐ E3 | ☐ F1 | ☐ F2 | ☐ F3 | ☐ F4 | ☐ F5 | ☐ F6 | ☐ F7 | ☐ F8 | ☐ G1 | ☐ G2 | ☐ G3 |
| ☐ G4 | ☐ G5 | ☐ G6 | ☐ G7 | ☐ G8 | ☐ G9 | ☐ G10 | ☐ G11 | ☐ G12 | ☐ G13 | ☐ G14 | ☐ G15 |
| ☐ H1 | | | | | | | | | | | |

I understand that this Producer Statement, if accepted, may be relied on by the Council for the purpose of establishing compliance with the Building Consent.

Registration No:
LBP104308

Or ☐ N/A

Qualifications/Experience:

Address:

[REDACTED]

Postcode:
8061

Phone:

Fax:

Mobile:
021335435

Email:
jason@pacificbuild.co.nz

Signature:

Jason

Date:
08/10/2025