



PAUL MOLINEUX ASSOCIATES

Consulting Structural Engineers

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Job Title: **Nurstead Hall, Nurstead Lane, Longfield Hill**

Sheet Ref: **P.01b**

By: **PM**

Date: **Nov 23**

Job No. **5291**

Rev B – Dec 23. All Details Revised

Calculation Contents Page – Essential Repairs to Roof Works

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SKD10b	Roof Plan
SKD11b	Section A-A
SKD12b	Section B-B

CDM Regulations 2015

Under the CDM regulations 2015, the client will need to employ a principal designer and principal contractor to assist in the health and safety process and co-ordinate health and safety matters. Further advice with regards to the clients duties and the duties of the principal designer & principle contractor can be found on the internet (such as the CONIAC Industry Guidance & HSE website), or alternatively you should take advice from a suitable qualified company. This preface sheet and calculations together with the architects details, an asbestos survey and any other surveys and record drawings/information that the client has on the building such as service locations, drawings, should be passed on with these calculations and details to the contractor. Our brief does not extend to the construction phase of the project, so the principle contractor will be responsible for developing the health and safety file during construction and handing it over to the client as an as-built health and safety file. The client should also ensure that the contractor is suitably experienced to undertake this type of work and has previous experience of doing so.

Risk Assessment

Client/Contractor to ensure no asbestos within existing building prior to commencement of any works. Specialist survey will be required. Other than this, we do not consider there to be any risks that can't be dealt with by a competent contractor. Access scaffold to be installed to allow safe installation of purlin plates.

General Notes

Do not scale the drawings or use these details to order beam lengths. All measurements to be provided from site measurements.

Full Building Regulations/Listed Buildings approval should be obtained prior to commencement of works on site. Any works carried out prior to approval are done so at the contractors/clients own risk.

All works to be carried out to the satisfaction of the building inspector and in accordance with all relevant British Standards and Codes of Practice.

The temporary stability of the structure during all stages of the construction work is the responsibility of the contractor.

All steelwork to be grade S355, except for steel plates which are to be grade S275. The steelwork is to be fabricated in accordance with "National Steelwork Specification – latest edition. CE markings for structural steelwork sections and bolts are mandatory. Cold formed hollow sections shall not be used. Second hand steelwork shall not be used. On ordering steelwork, the contractor is to insist on the provision of 3.1 – Certificates to verify the grade of steelwork from the fabricator/supplier. Site welding is not permitted unless where specified or agreed with PMA.

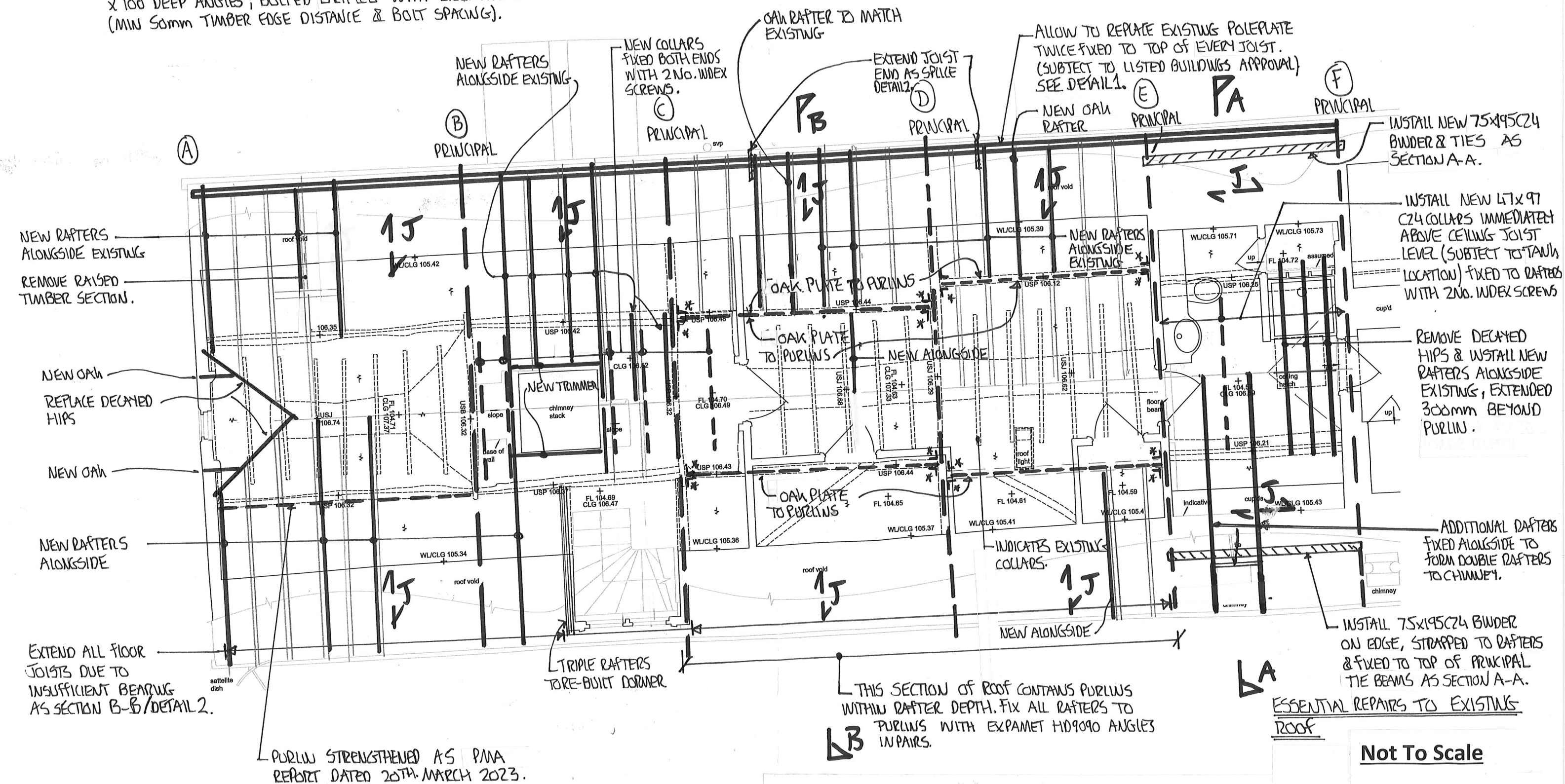
Any deviations from the details of PMA drawings and details, should be agreed with PMA prior to construction.

- OAK PLATE TO PURLINS TO COMPRISE MIN 25mm TO APPROX 75mm DEEP OAK PLATE x FULL WIDTH OF PURLIN GLUED & SCREWED TO TOP OF EXISTING PURLIN WITH S.S. INDEX SCREWS @ 300mm IN PAIRS.

J → INDICATES SPAN OF 2nd FLOOR JOISTS BELOW (NOTE: ONLY VERY ENDS OF JOISTS EXPOSED)

- * FIX PURLINS TO PRINCIPAL RAFTERS WITH 120x120x10THICK x 100 DEEP ANGLES, BOLTED EACH LEG WITH 2NO. M12 BOLTS (MIN 50mm TIMBER EDGE DISTANCE & BOLT SPACING).

- ALL EXISTING RAFTERS TO BE RETAINED & ANY NEW FIXED ALONGSIDE - MIN 47x97C24, FIXED TO EXISTING WITH 6-7DIA. INDEX SCREWS @ 300mm.
- FIX ALL EXISTING COLLARS TO EXISTING RAFTERS WITH 2NO. INDEX SCREWS.
- REPAIR RIDGE BRIDAL JOINTS TO A-HICKS DETAILS





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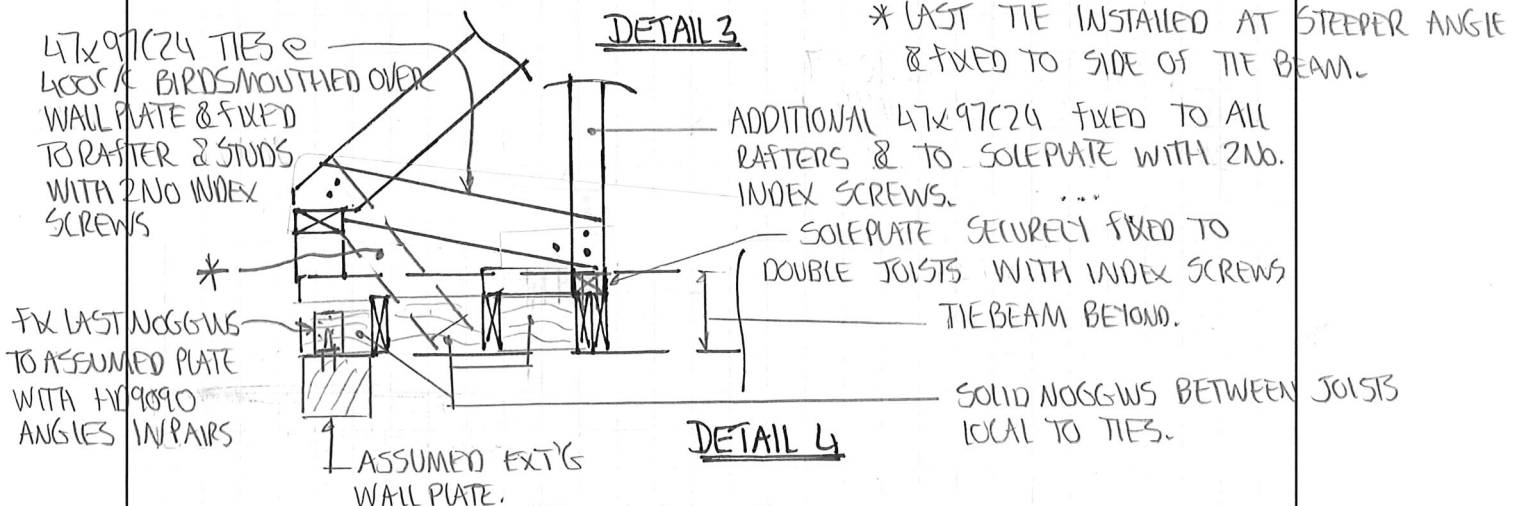
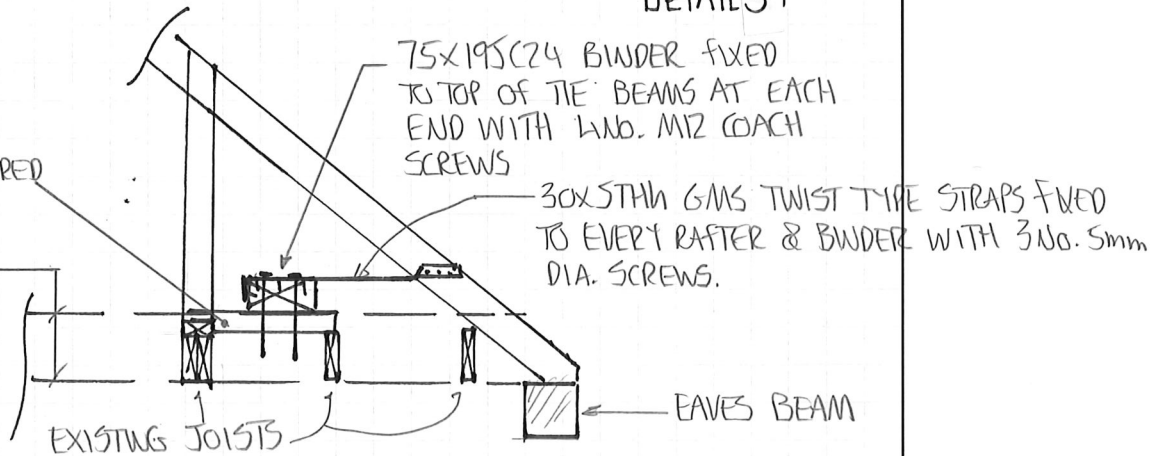
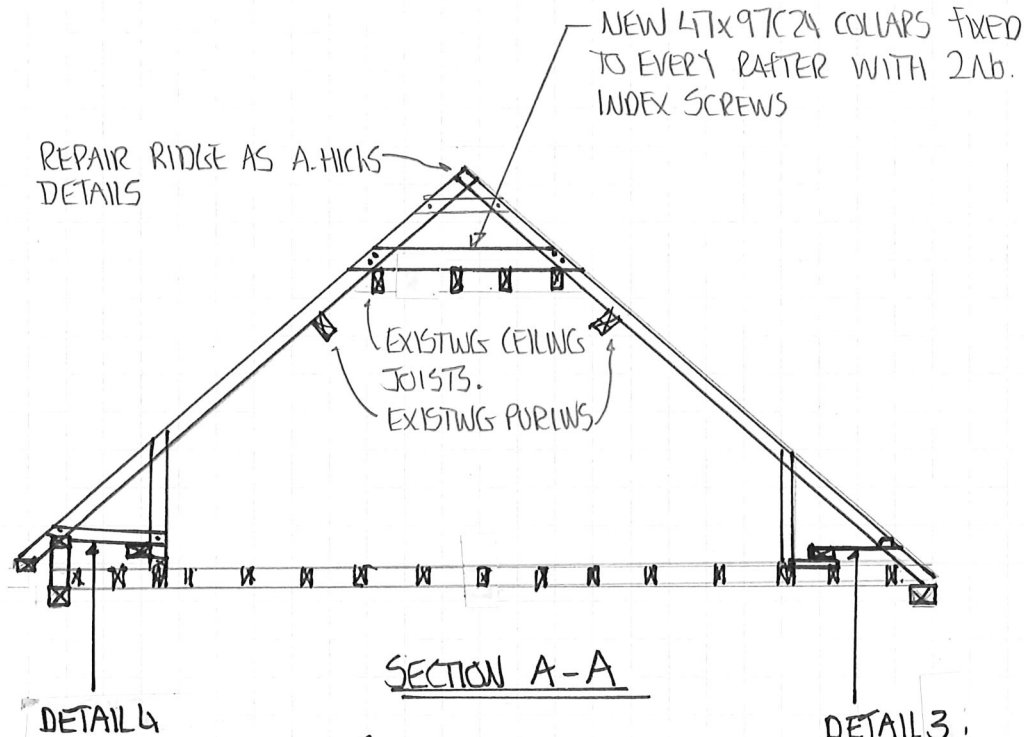
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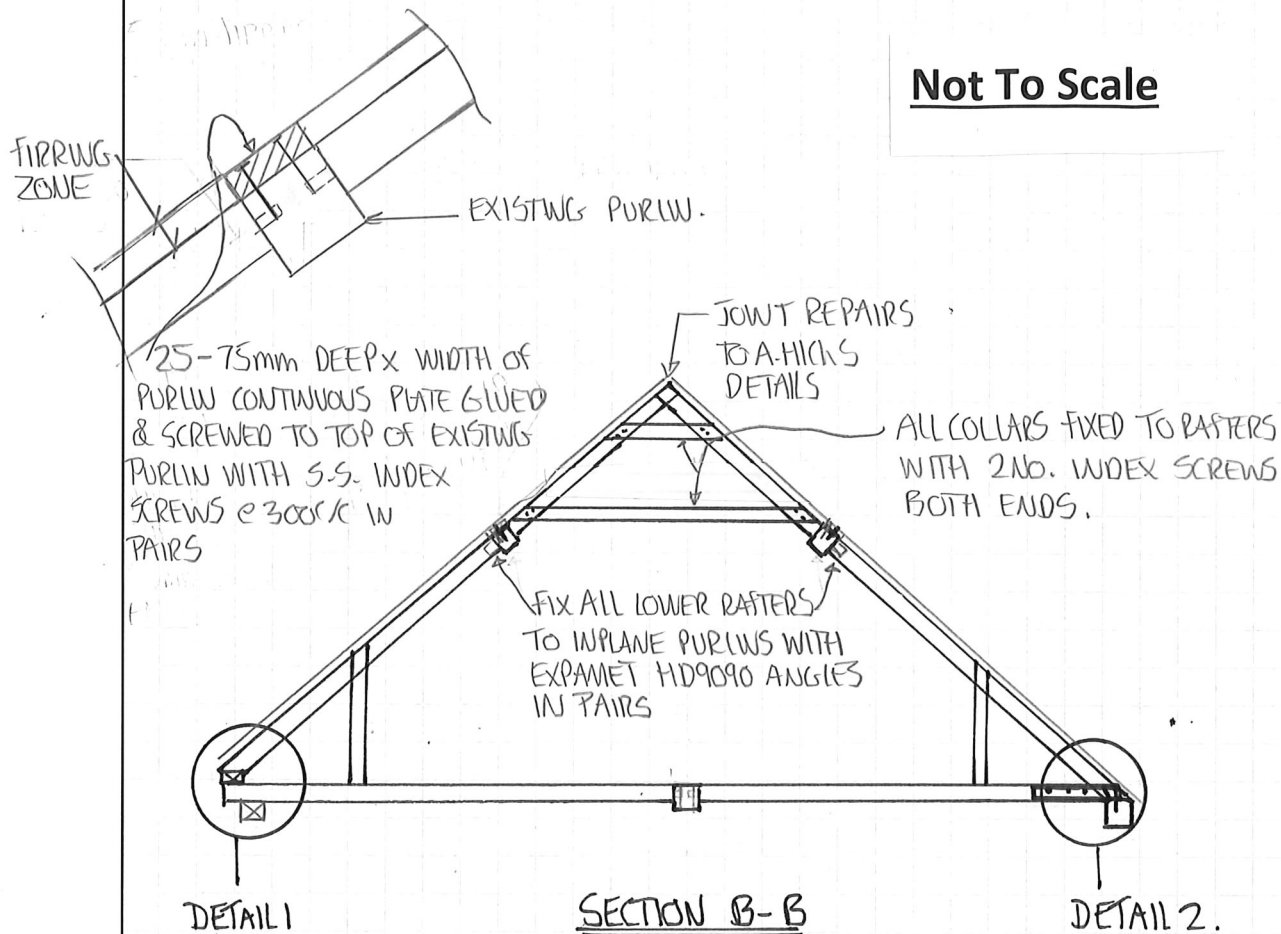
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SHD12 B

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FIX RAFTER TO POLEPLATE WITH 6.7 DIA. INDEX SCREWS

FIX POLEPLATE TO TOP OF JOISTS WITH INDEX SCREWS

EAVES BEAM

FIX EVERY JOIST TO EAVES BEAM WITH EXPANET HD9090 ANGLES IN PAIRS.

DETAIL 1

EXISTING JOISTS APPROX 90MM x 125 DEEP.

DETAIL 2

PACK NEW JOISTS TO SUIT, OFF EXISTING PLATE.

NEW 75x100 DEEP JOISTS FIXED TO EVERY JOIST WITH 3 No. M10 BOLTS, 650 UP WITH EXISTING JOISTS. FIX JOISTS TO EAVES BEAM WITH 2 No. 6.7 DIA. INDEX SCREWS (200mm long). RAFTERS FIXED TO EAVES BEAM WITH INDEX SCREWS

EAVES BEAM