



NORTHERN SYDNEY
Seascope
Suite 7 22-27 Fisher Rd
Dee Why NSW 2099

BLUE MOUNTAINS
Shop 1
274 Macquarie Rd
Springwood NSW 2777

CONSULTING ENGINEERS
Civil
Structural
Stormwater & Flood

26 April 2024

Principal Certifying Authority
Emailed to: nikkistokes999@gmail.com

Certificate Title: **Certificate Of Design**
Address of the Project: **5 Gipps Place, Cromer**
Description of Project: **Alterations & Additions**

Pursuant to the provisions of **A2G1 & A2G2 of the Building Code of Australia**, I hereby certify that the building details for the proposed structure are in accordance with normal engineering practice and meet the requirements of the Building Code of Australia and relevant Australian Standards. In particular the design is in accordance with the following:

AS1170.0.2002, AS1170.1.2002, AS1170.2.2021, AS1684.2021, AS1720.2010, AS3700.2018

I am an appropriately qualified and competent person in this area being registered NER in both civil and structural colleges and as such can certify that the design and performance of the design systems comply with the above and which are detailed on the following drawing:

Plans by Taylor Consulting Engineers: STRUCT-1

I possess Indemnity Insurance to the satisfaction of the building owner or my principal.

This certification shall not be construed as relieving any other party of their responsibilities or contractual obligations.

Yours faithfully
TAYLORCONSULTING.NET.AU

D.M.Schaefer - Director
B.E Civil (Hons) M.I.E. Aust. N.E.R.





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26 April 2024

Principal Certifying Authority
Emailed to: nikkistokes999@gmail.com

Certificate Title: **Certificate Of Structural Adequacy**

Address of the Project: **5 Gipps Place, Cromer**

Description of Project: **Alterations & Additions**

This is to certify that the above property has been inspected in relation to the proposed alteration and additions as shown on the Site Specific Designs building plans dated April 2024 and advise that nothing was observed during the course of the inspection to suggest that the existing building is not generally adequate to support the additional live and dead loads imposed by the addition.

Strengthening beams have been designed in accordance with relevant SAA codes and these members are shown on the attached plan (STRUCT-1).

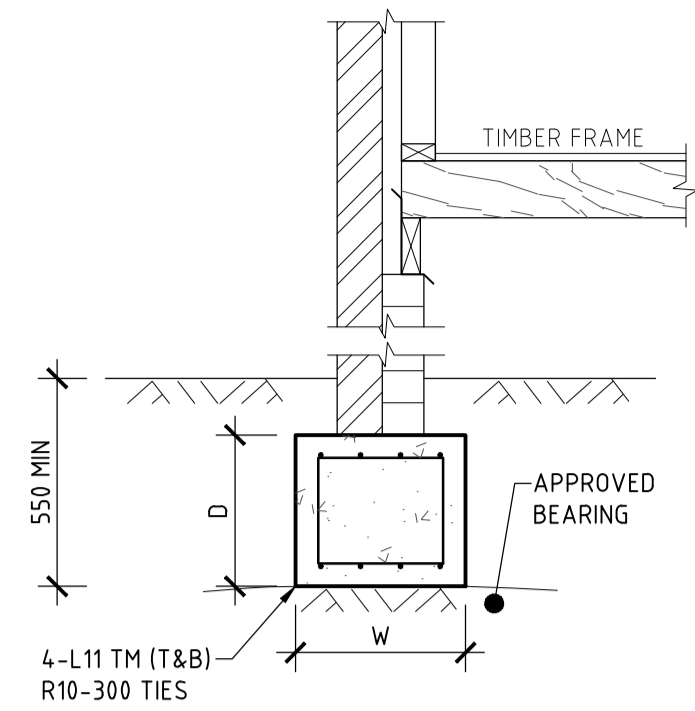
Following construction some settlement may be experienced under the additional loads and this may result in the formation of minor cracks in the building but, providing foundation material is consistent under the existing footings, it is anticipated that this movement would be minimal and not affect the structural integrity of the building.

This certification shall not be construed as relieving any other party of their responsibilities or contractual obligations.

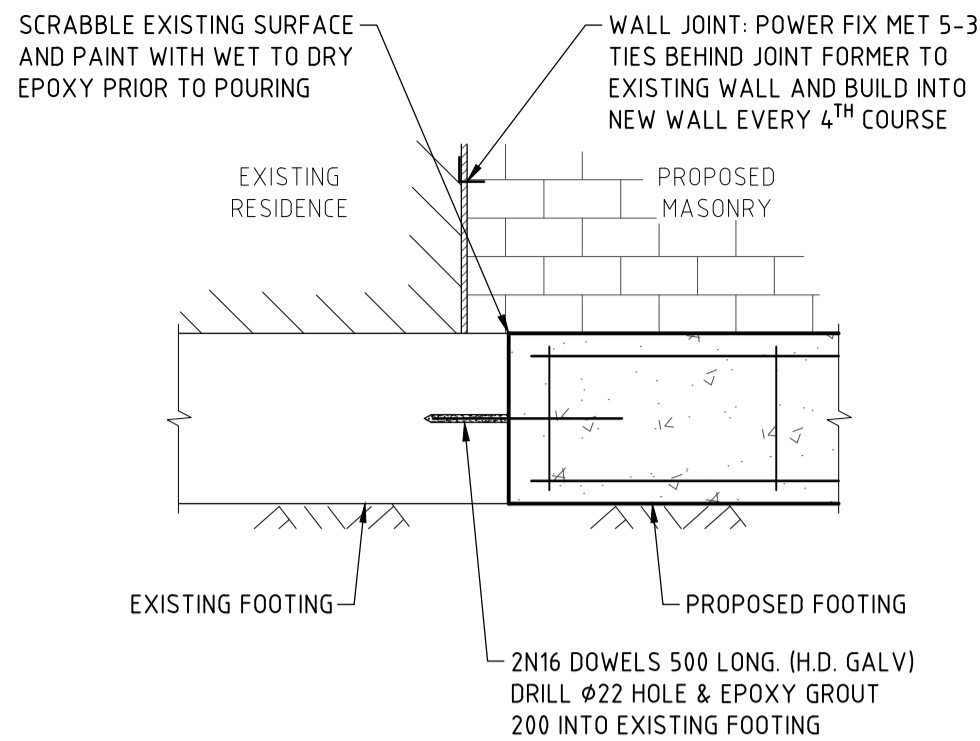
Yours faithfully
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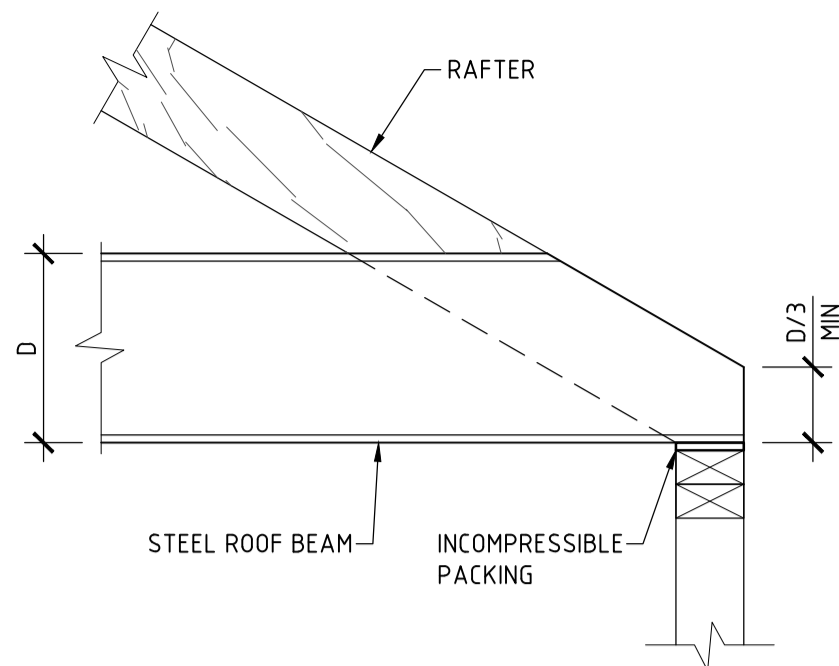




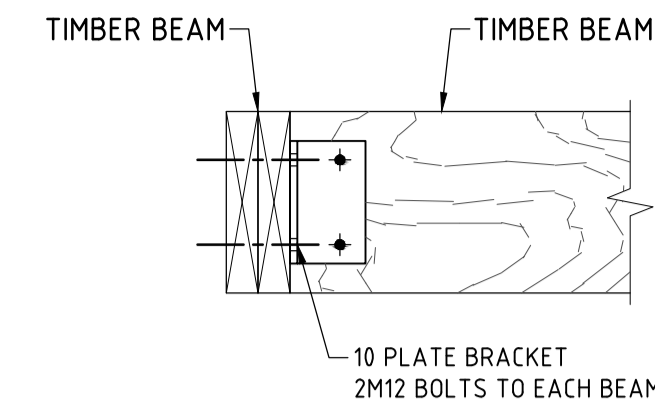
TYPICAL STRIP FOOTING 'SF1' DETAIL
SCALE 1:20



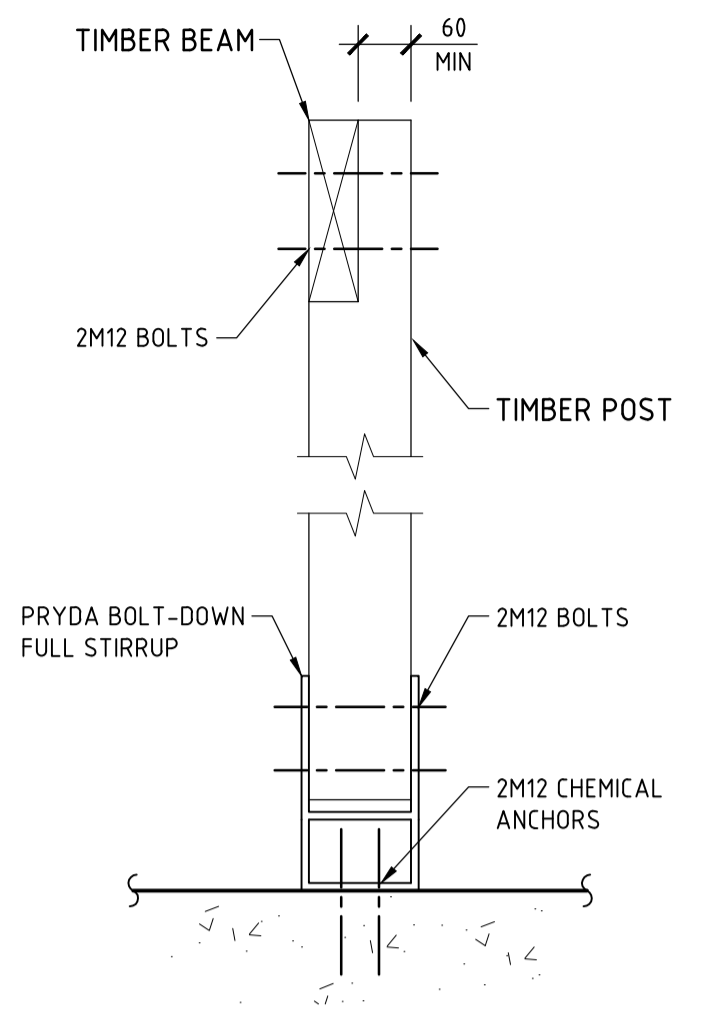
TYPICAL NEW TO EXISTING WALL & FOOTING DETAIL
SCALE 1:20



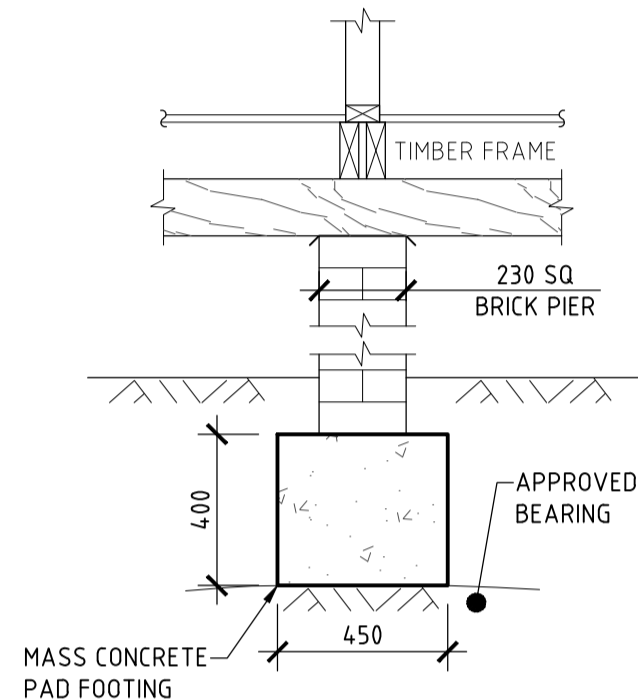
TYPICAL STEEL ROOF BEAM TAPER CUT DETAIL
SCALE 1:10



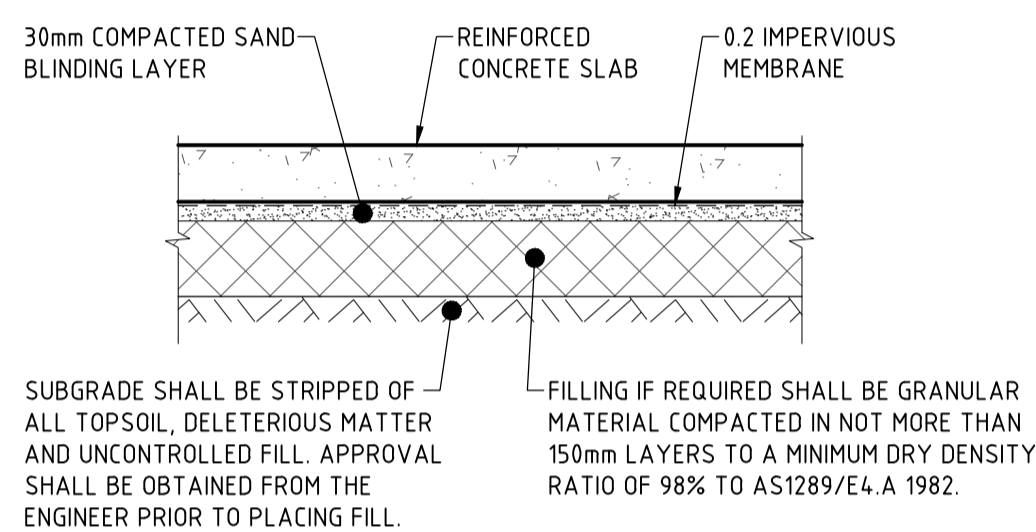
TYPICAL TIMBER TO TIMBER BEAM CONNECTION DETAIL
SCALE 1:10



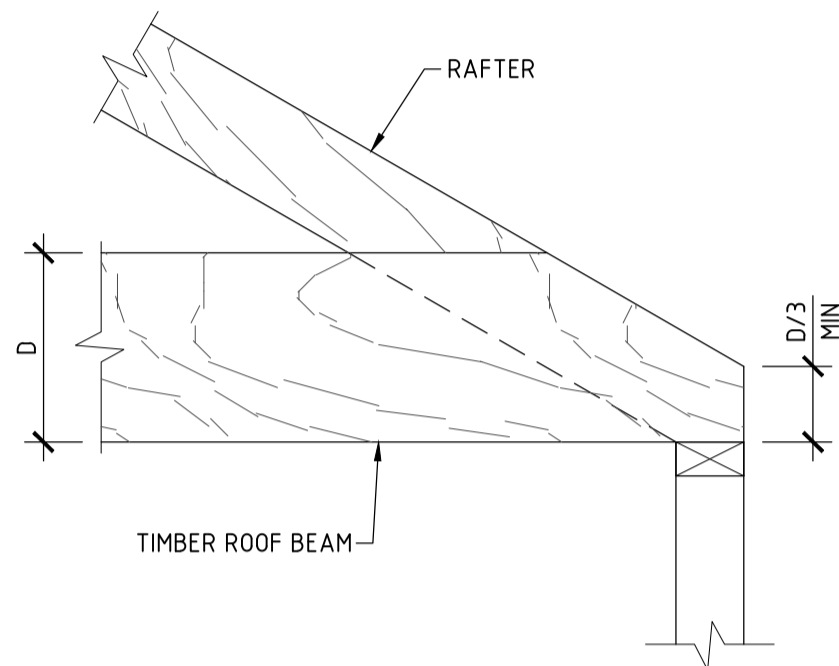
TYPICAL TIMBER BEAM TO POST DETAIL
SCALE 1:10



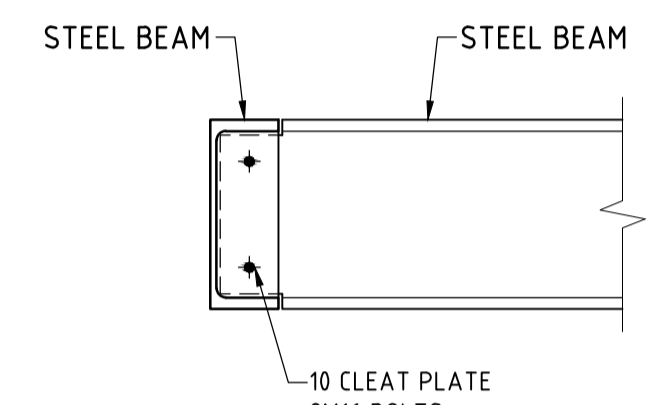
TYPICAL MASS CONCRETE PAD FOOTING DETAIL
SCALE 1:20



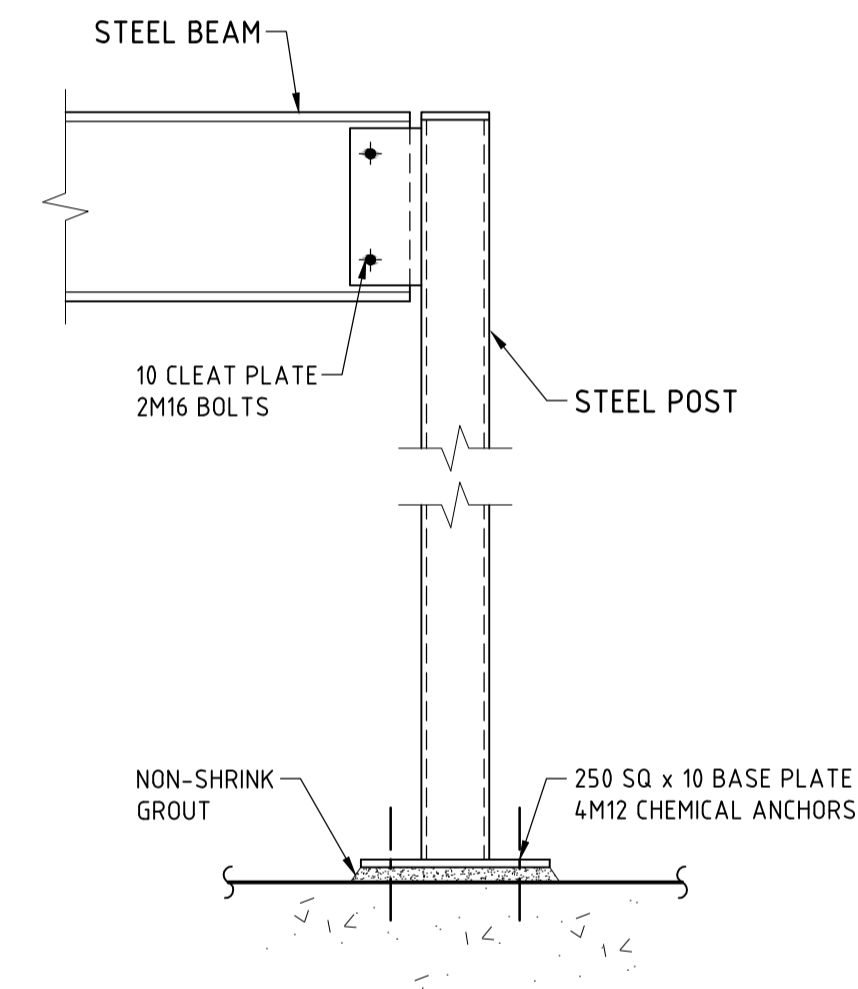
TYPICAL SLAB PREPARATION TYPE A SLAB ON GRADE
SCALE 1:20



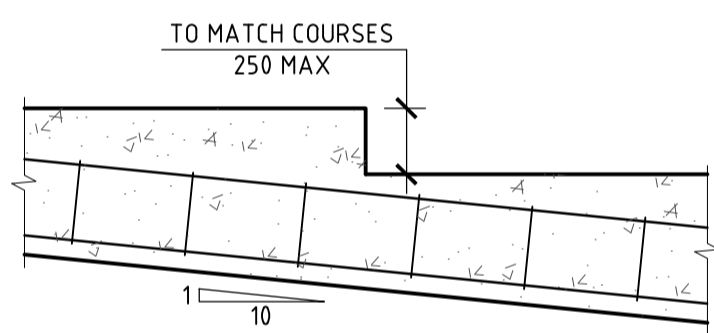
TYPICAL TIMBER ROOF BEAM TAPER CUT DETAIL
SCALE 1:10



TYPICAL STEEL TO STEEL BEAM CONNECTION DETAIL
SCALE 1:10



TYPICAL STEEL BEAM TO POST DETAIL
SCALE 1:10



TYPICAL FOOTING STEP FOR GENTLE SLOPE
SCALE 1:20

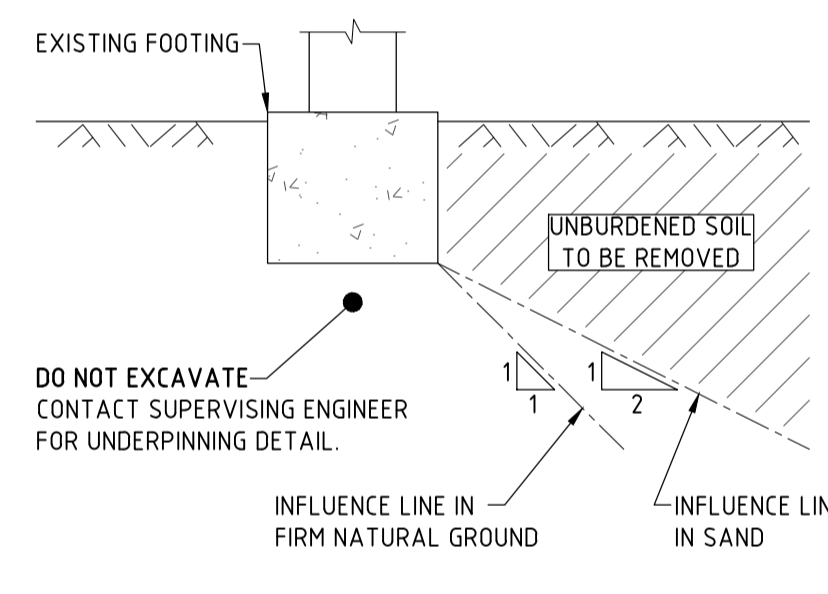
LINTELS FOR NON LOAD BEARING BRICKWORK

SPAN	LINTEL
UP TO 1.0m	87 WIDE GALINTEL FLAT
UP TO 2.4m	100 x 100 GALINTEL ANGLE
UP TO 3.6m	150 x 100 GALINTEL ANGLE
UP TO 4.0m	150 x 100 x 10 TRADITIONAL ANGLE

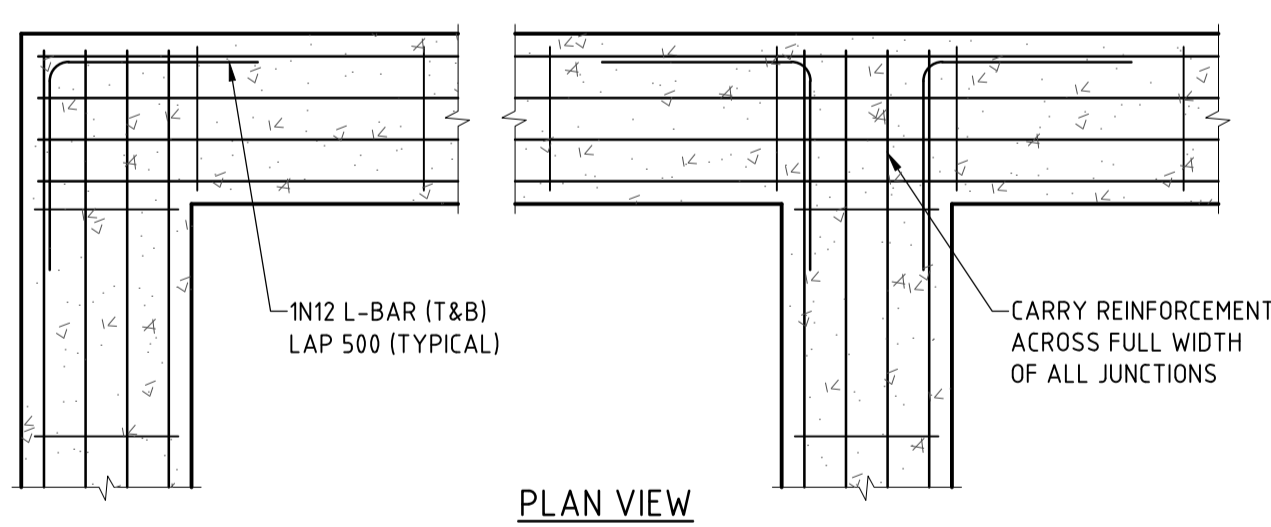
- PROP LINTEL DURING CONSTRUCTION.
- LINTELS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS & STANDARD BUILDING PRACTICE.

TYPICAL TIE DOWN NOTES

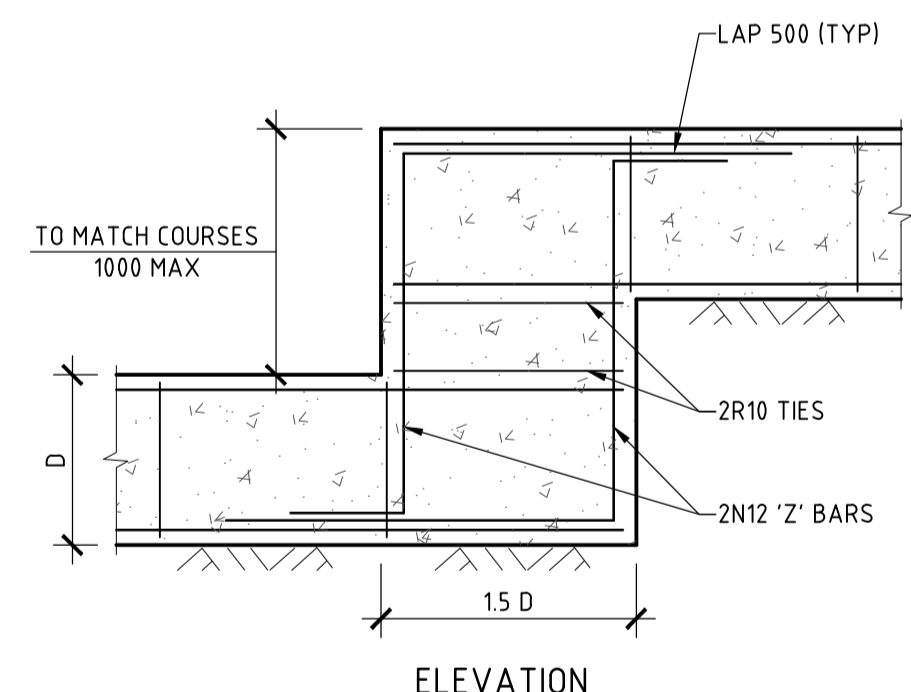
- BATTENS TO BE FIXED TO RAFTERS WITH 1 - TEK SCREW WITH 38mm PENETRATION INTO TRUSSES.
- TRUSSES TO BE FIXED TO TOP PLATE OR BEAMS WITH 1 FRAMING ANCHOR WITH 4-2.8mm DIAM NAILS INTO SIDE GRAIN OF EACH MEMBER.
- WALL TOP PLATE TO BE ANCHORED TO STUD AT AN AVERAGE OF 1.8m c/c AND EACH SIDE OF ALL OPENINGS WITH 30mm x 0.8mm HOOP IRON STRAP TURNED OVER TOP PLATE AND NAILED TO EACH SIDE OF STUD WITH 3-2.8mm DIAM NAILS. BOTTOM OF STUD TO HAVE SIMILAR FIXED TO BOTTOM PLATE.
- BOTTOM PLATE TO BE NAIL FIXED TO FLOOR FRAME WITH 2-3.15mm DIAM SKEW NAILS AT 900mm c/c.
- BRACING AND TIE-DOWNS TO BE IN ACCORDANCE WITH RESIDENTIAL TIMBER FRAMED CONSTRUCTION AS 1684.2 - 2010 U.O.N.



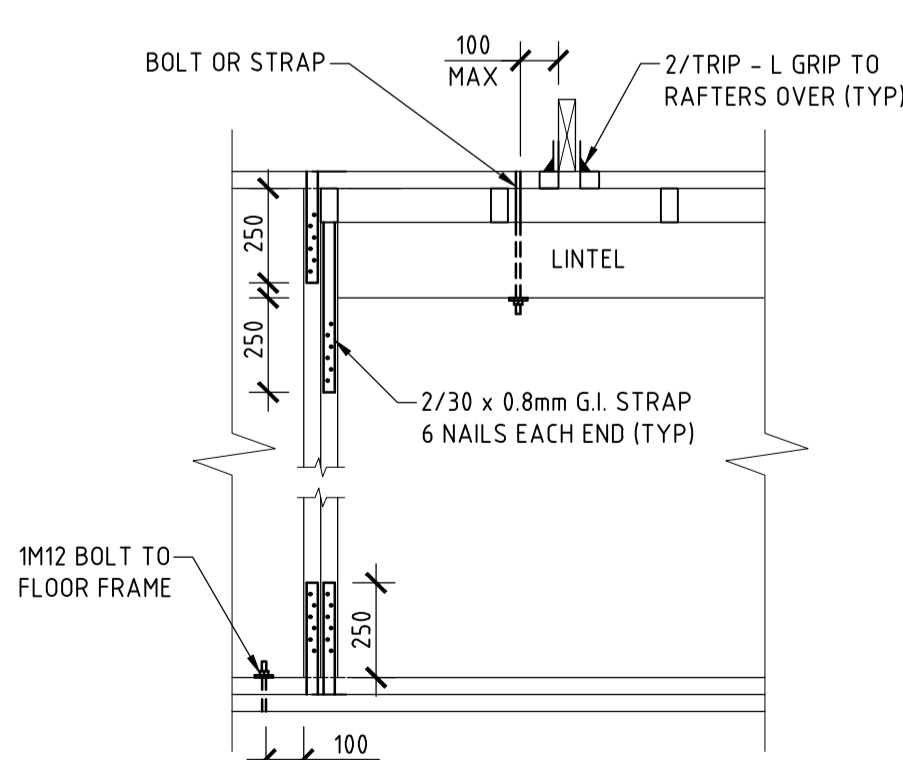
EXISTING FOOTING EXCAVATION ZONE DETAIL
SCALE 1:20



TYPICAL STRIP FOOTING JUNCTIONS DETAIL
SCALE 1:20

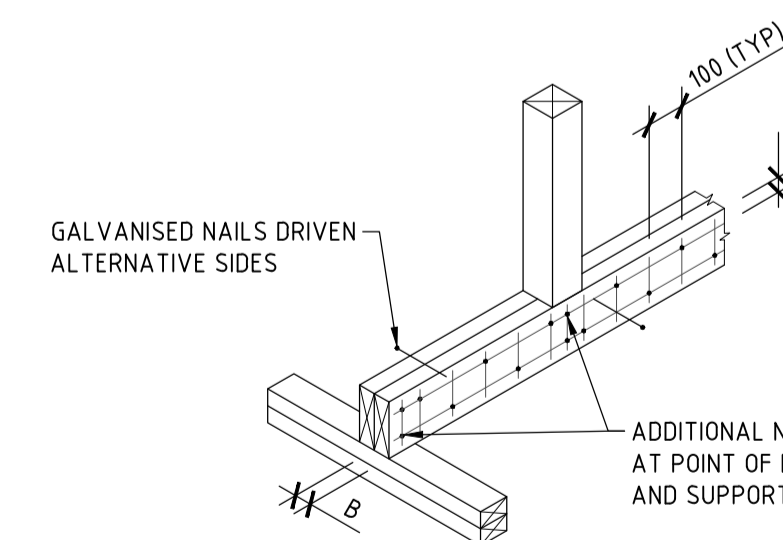


TYPICAL FOOTING STEP DETAIL
SCALE 1:20



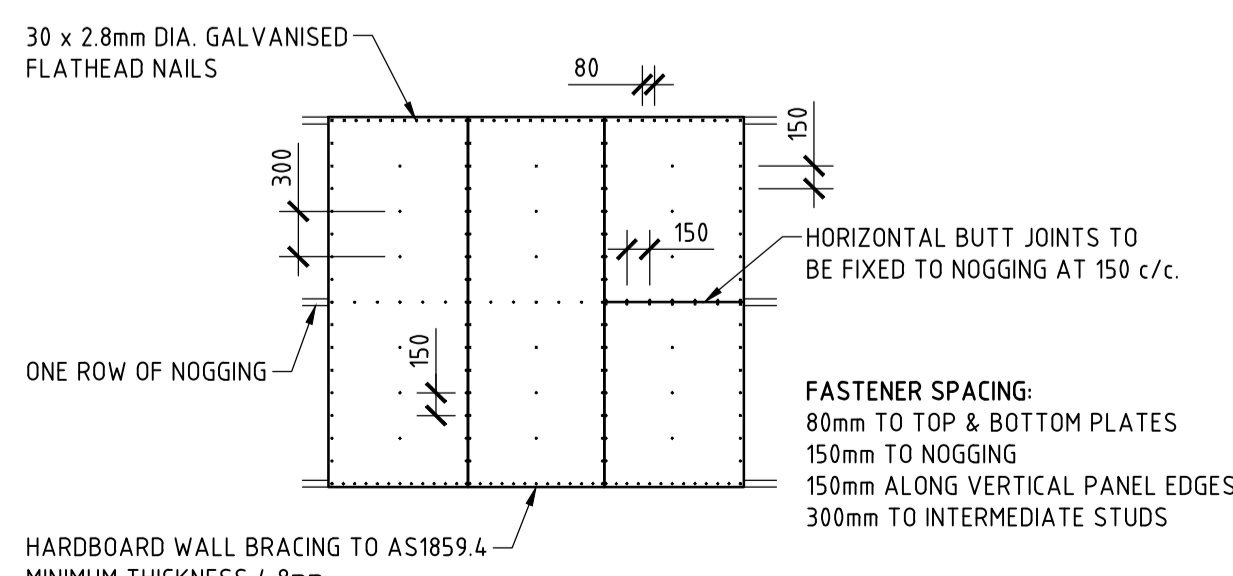
NOTE: THE TOP PLATE SHALL BE FIXED OR TIED TO THE LINTEL WITHIN 100 mm OF EACH RAFTER, OR THE RAFTER FIXED DIRECTLY TO THE LINTEL WITH A FIXING OF EQUIVALENT TIE DOWN STRENGTH TO THAT REQUIRED FOR THE RAFTER

TYPICAL LINTEL TIE DOWN DETAIL
SCALE 1:20

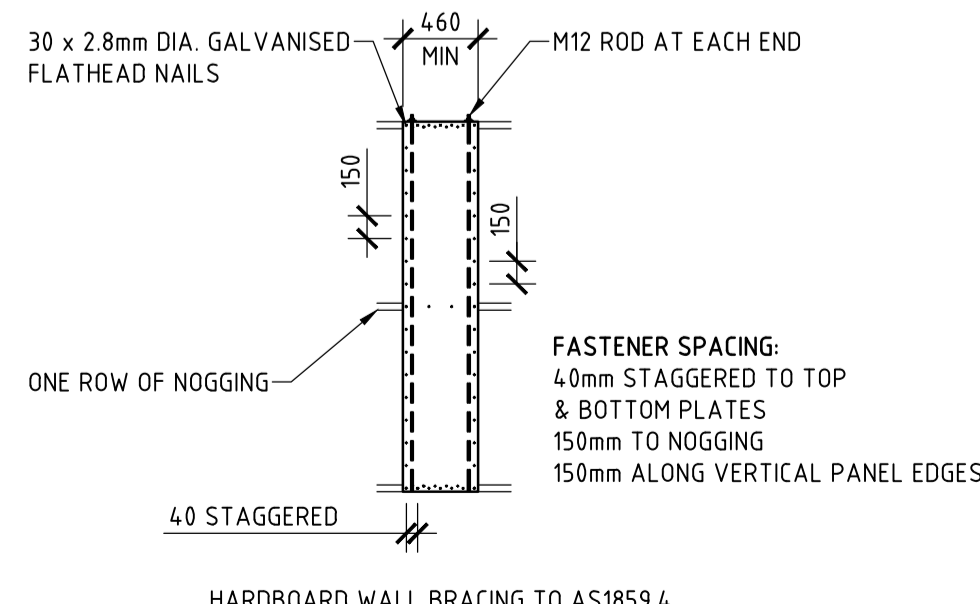


VERTICAL LAMINATION DETAIL
SCALE 1:20

SECTION SIZE B	NAIL SIZE MIN	NAIL LENGTH MIN
36mm	Ø3.06mm	75mm
45mm	Ø3.30mm	90mm
63mm	Ø3.30mm	100mm



HARDBOARD WALL BRACING DETAIL - TYPE A
SCALE 1:50



HARDBOARD WALL BRACING DETAIL - TYPE E
SCALE 1:50

ABBREVIATIONS

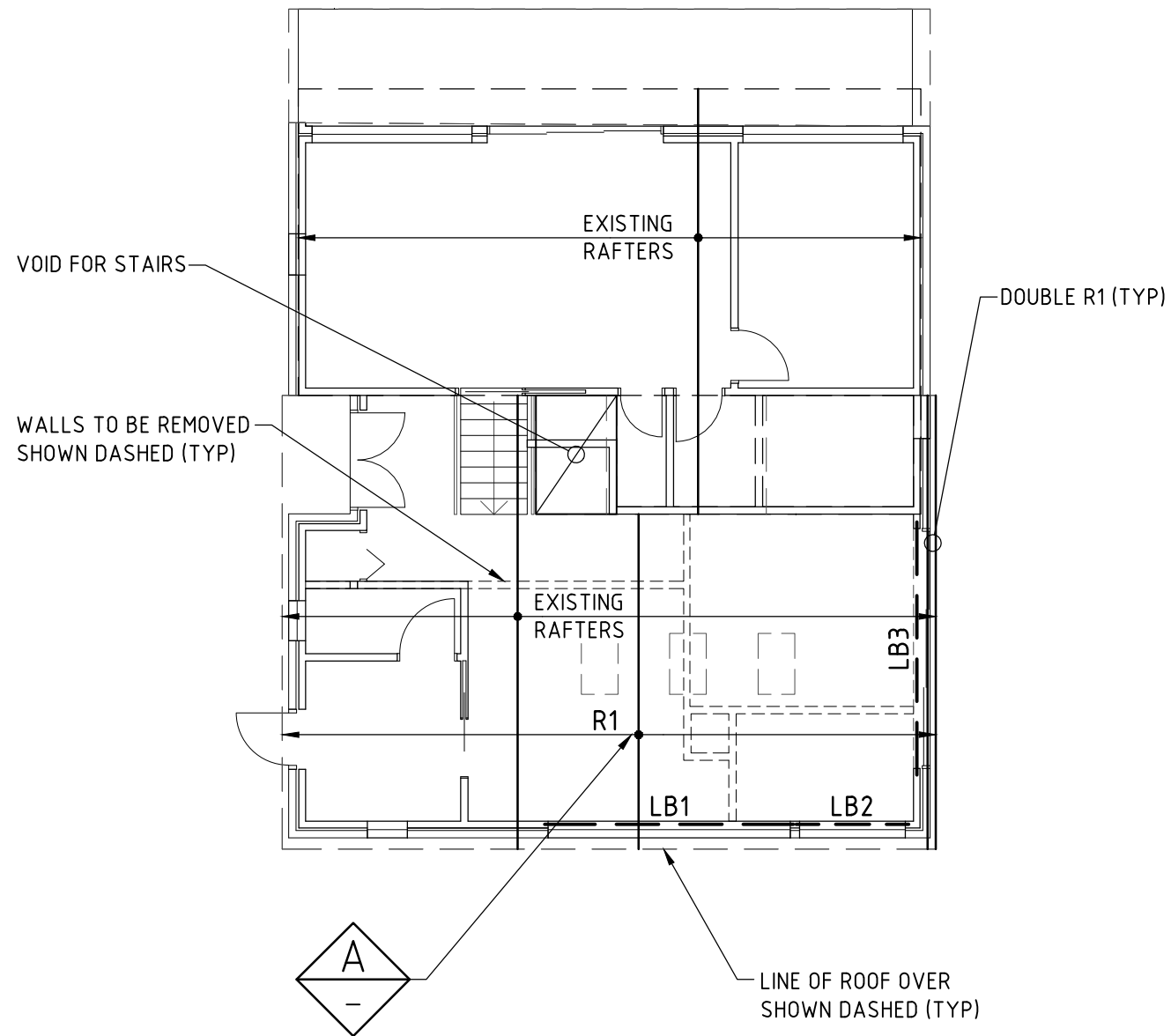
U.O.N.	UNLESS OTHERWISE NOTED
T	TOP
B	BOTTOM
H.D.	HOT DIPPED
GALV.	GALVANISED
MIN.	MINIMUM
c/c	CENTRE TO CENTRE
SQ.	SQUARE
TYP.	TYPICAL

ISSUE DATE	REVISION

TITLE			
STRUCTURAL DETAILS - STANDARD DETAILS			
5 GIPPS PLACE, CROMER			
DRAWN	DATE	CHECKED	SCALE
CJM	26 APRIL 2024	[Signature]	AS 1
ENGINEER			
CJM			

TAYLOR CONSULTING
CIVIL & STRUCTURAL ENGINEERS

TYP DETAILS



GROUND FLOOR PLAN

SCALE 1:100

MEMBER SCHEDULE

LINTEL BEAMS

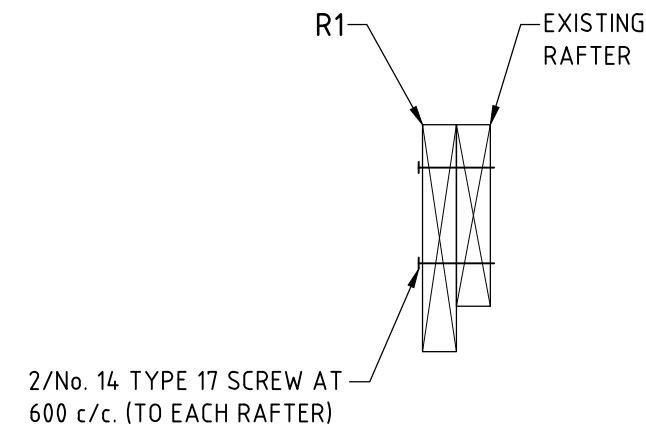
LB1, LB3.....2/300 x 45 LVL 13.
 LB2.....200 x 45 LVL 13.

RAFTERS

R1.....300 x 45 LVL 13 SCREWED TO EXISTING RAFTERS.

NOTES:

1. DESIGN WIND CLASSIFICATION = N2
2. ALL EXPOSED STEEL MEMBERS, FITTINGS AND FASTENERS TO BE HOT-DIP GALVANISED.
3. ALL STEEL BEAMS IN CONTACT WITH EXTERNAL BRICKWORK TO BE SEPARATED FROM BRICKWORK WITH ALCORE OR BEAMS TO BE HOT-DIP GALVANISED. SIMILARLY TIMBER BEAMS IN CONTACT WITH EXTERNAL BRICKWORK TO BE SEPARATED WITH ALCORE OR BEAMS TO BE PRESERVATIVE TREATED.
4. ALL EXPOSED TIMBER MEMBERS TO BE PRESERVATIVE TREATED TO H3 LEVEL OR HARDWOOD, DURABILITY GRADE 2 OR BETTER.
5. PROVIDE 100 END BEARING TO ALL BEAMS SUPPORTED ON BRICKWORK UNLESS OTHERWISE NOTED.
6. PROVIDE 3/90 x 45 F7 POST UNDER ALL BEAMS U.O.N.
7. PROVIDE WALL BRACING, ROOF BRACING AND TIE-DOWN IN ACCORDANCE WITH AS1684.2-2010 RESIDENTIAL TIMBER FRAME CONSTRUCTION.



DETAIL

SCALE 1:10

TITLE
STRUCTURAL DETAILS – ALTERATIONS & ADDITIONS
5 GIPPS PLACE, CROMER

DRAWN

JBP

DATE

26 APRIL 2024

CHECKED

BE Civil (Hons) MIE Aust.

SCALE @ A3

1:100
 1:10

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DRAWING NO
STRUCT-1