

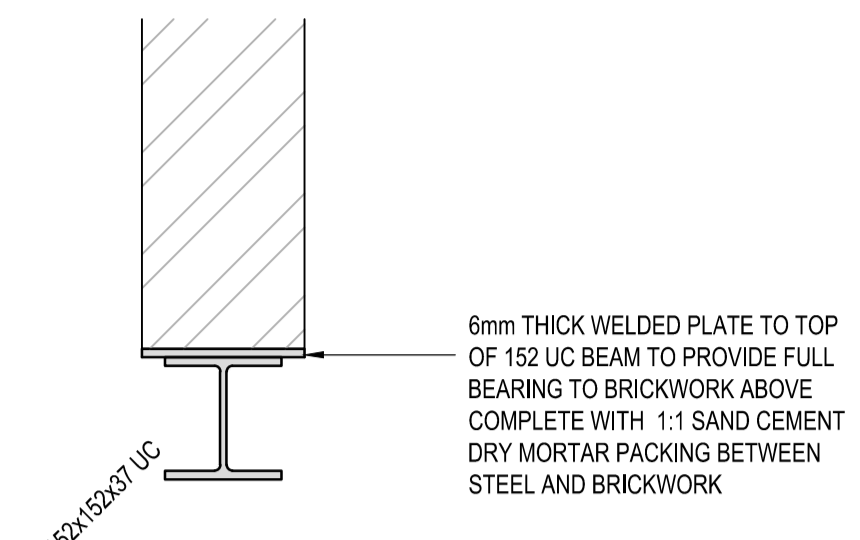
SECTION A-A
SCALE 1:10

CONNECTION DESIGN DETAILS (FACTORED)

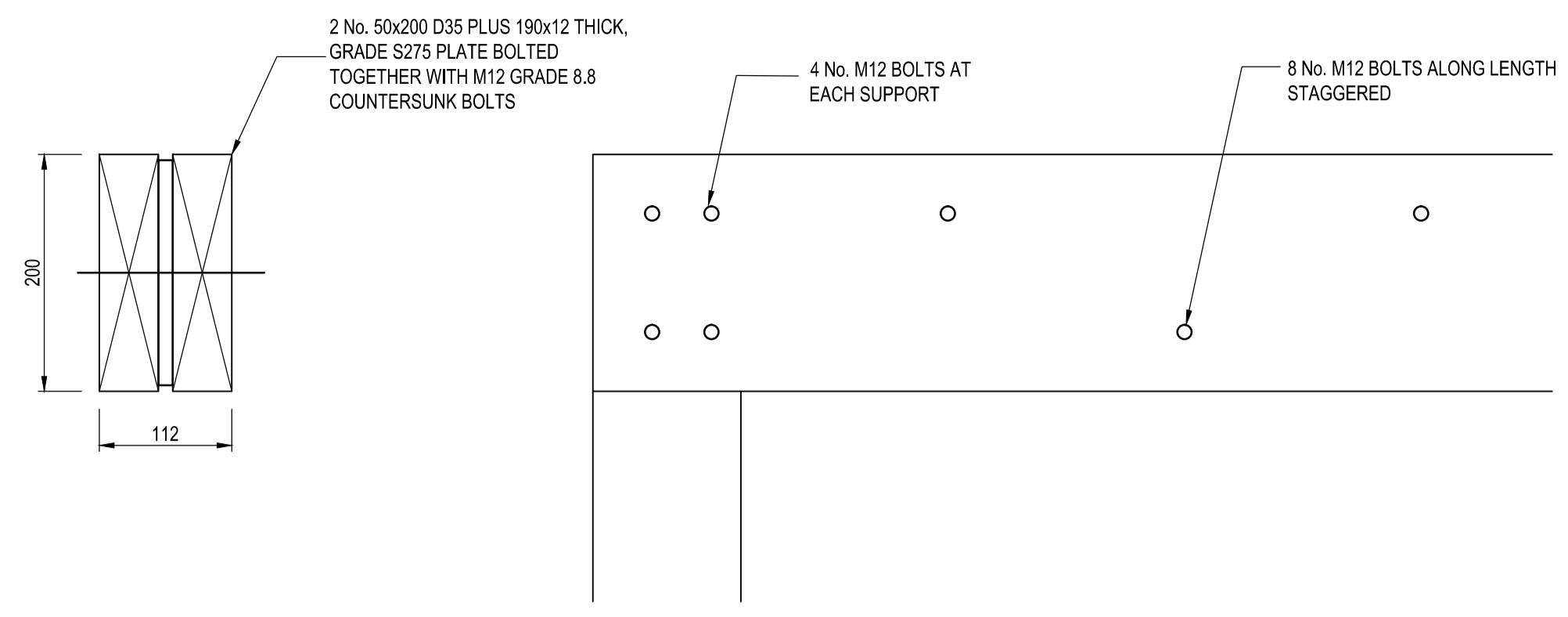
MOMENT = 25kNm
SHEAR = 65kN
AXIAL = 65kN

NOTE:
STEELWORK CONNECTIONS TO BE DESIGNED BY STEEL FABRICATOR

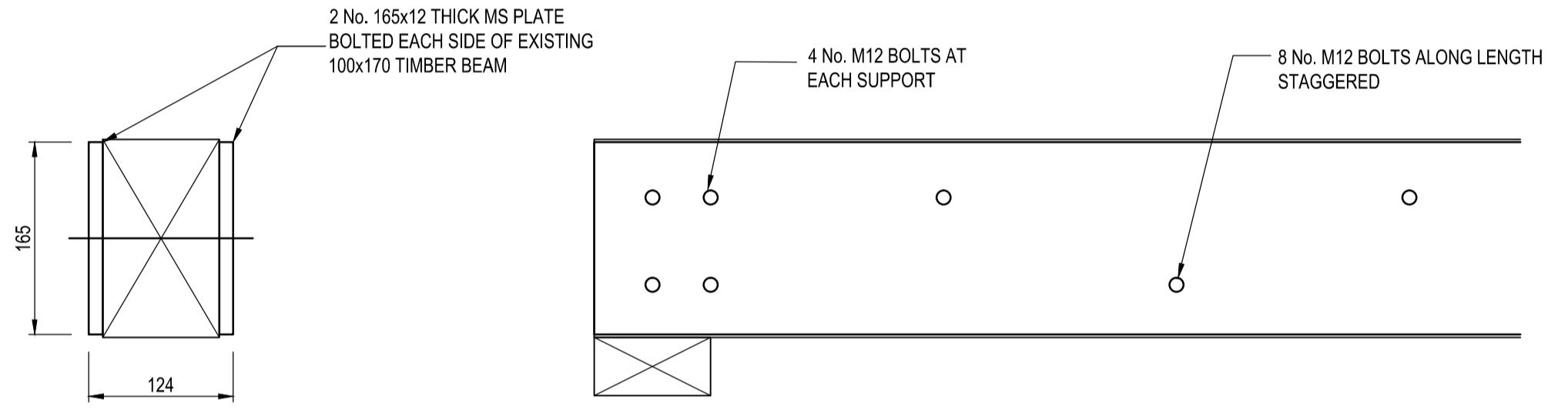
152x152x37 UC BOX FRAME: COLUMNS & BOTTOM BEAM TO BE FIXED TO FACE OF BRICKWORK USING RAWL R-KEM M12 RESIN ANCHORS @ 225 C/C STAGGERED



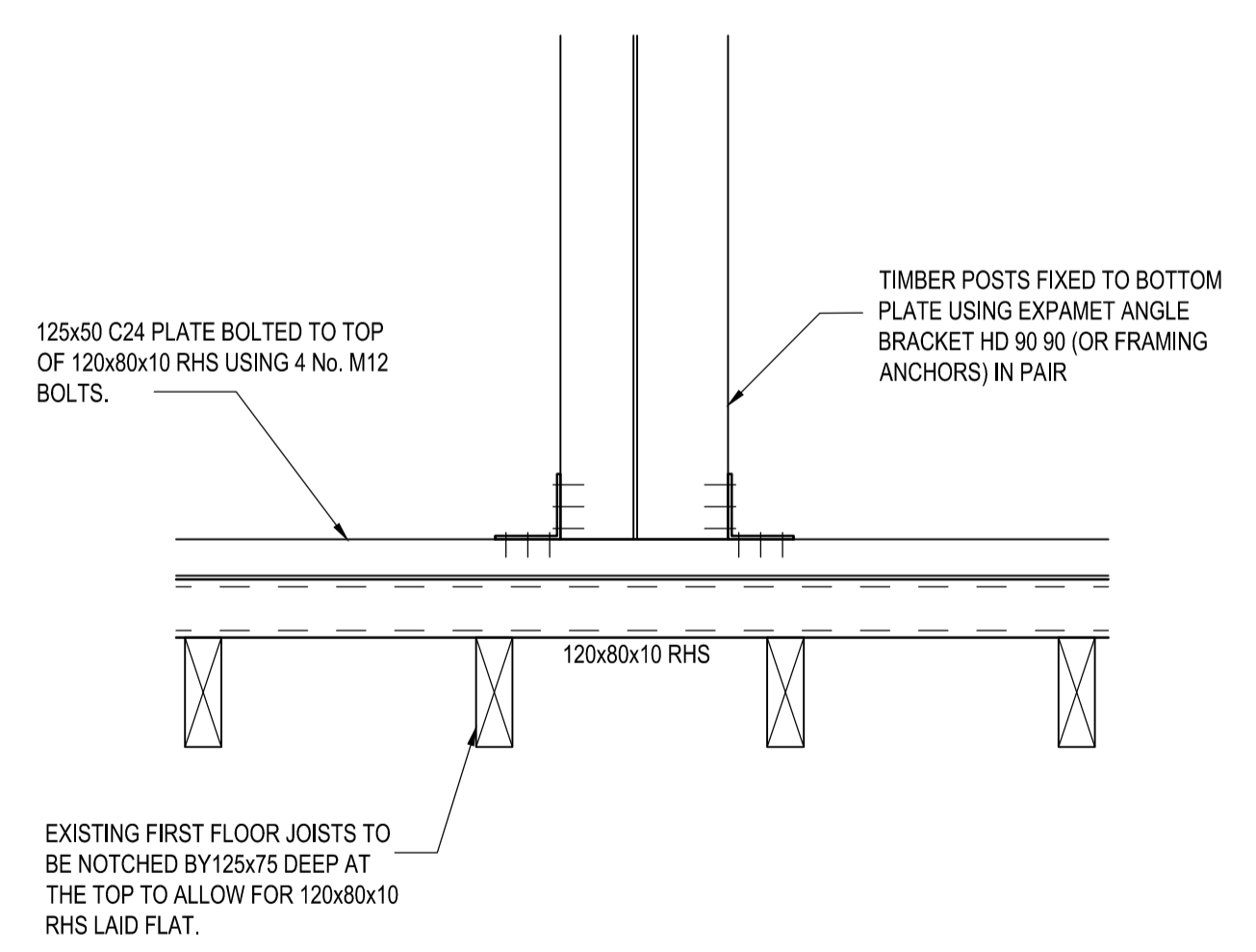
SECTION X-X
SCALE 1:10



TYPICAL FLITCH BEAM DETAIL
SCALE 1:5



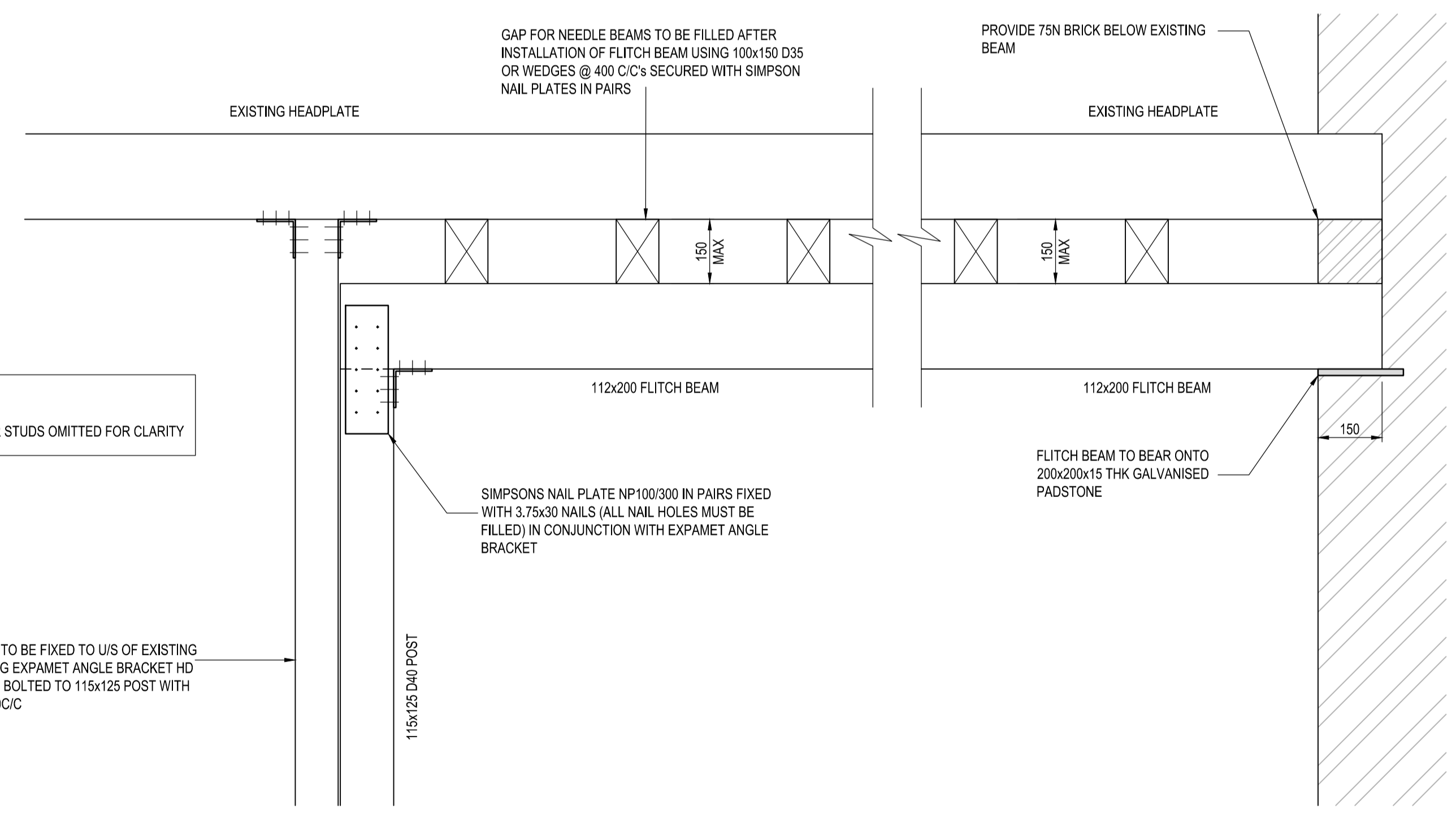
TYPICAL DETAIL FOR STRENGTHENING EXISTING 100x170 BEAM
SCALE 1:5



NEW POST SUPPORT DETAIL
SCALE 1:10

NOTE:
EXISTING TIMBER STUDS OMITTED FOR CLARITY

75x100 C24 STUD TO BE FIXED TO UIS OF EXISTING HEADPLATE USING EXPAMET ANGLE BRACKET HD 90 90 IN PAIRS AT BOLTED TO 115x125 POST WITH M12 BOLTS @ 600C/C



TYPICAL FLITCH BEAM TOP SUPPORT DETAIL
SCALE 1:10

- GENERAL:**
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTS/ENGINEERS/SPECIALISTS DRAWINGS AND SPECIFICATIONS. DRAWINGS ARE NOT TO BE SCALED
 - THE CONTRACTOR IS TO BE FULLY EXPERIENCED AND ACQUAINTED WITH ALL ASPECTS OF ALL STRUCTURAL WORK INCLUDED IN THIS PROJECT.
 - ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS/ENGINEERS BY THE CONTRACTOR WITHOUT DELAY.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TEMPORARY SUPPORT REQUIREMENTS ASSOCIATED WITH THE CONSTRUCTION TECHNIQUES AND METHODOLOGY THAT IS TO BE ADOPTED FOR THE FULL DURATION OF THE WORK.
 - FOR DETAILS OF ALL FINISH THICKNESS (SCREEN ETC) AND INSULATION REQUIREMENTS THAT ARE TO BE PLACED ON CONCRETE SURFACES. REFER TO ARCHITECTS DRAWINGS AND SPECIFICATIONS.
 - PROTECTION AGAINST DAMAGE DUE TO WORKING IN COLD WEATHER SHALL ACCORD WITH THE RELEVANT BRITISH STANDARDS AND CODE OF PRACTICE.
 - ANY COSTS AS A RESULT OF OVER EXCAVATION AND NECESSARY FILLING SHALL BE BOURN BY THE CONTRACTOR.
 - ALL DIMENSIONS ARE TO BE VERIFIED AND CONFIRMED BY CONTRACTOR PRIOR TO CONSTRUCTION.
 - ALL PROPRIETARY ELEMENTS TO BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION

- STEELWORK:**
- ALL MATERIALS AND WORKMANSHIP MUST BE IN ACCORDANCE WITH THE NATIONAL STRUCTURAL STEELWORK SPECIFICATION (N.S.S.S)
 - STRUCTURAL STEEL WORK SECTIONS ARE TO BE GRADE S275 MILD STEEL IN ACCORDANCE WITH BS 5950
 - CONTRACTOR MUST VERIFY ALL DIMS ON SITE PRIOR TO COMMENCING ANY WORK. NO DIMS TO BE SCALED FROM ENGINEERS DRAWINGS
 - ALL STEELWORK TO BE SHOT BLAST CLEANED TO MINIMUM OF SA2.5 STANDARD PRIOR TO PAINTING WITH HIGH BUILD ZINC PHOSPHATE ALKYD PRIMER OF 150 MICRONS THICK AS SOON AS PRACTICABLE BUT NOT MORE THAN 4 HOURS AFTER CLEANING. RED OXIDE IS NOT ACCEPTABLE.
 - FIRE PROTECTION TO UNCASED STEELWORK TO BE IN ACCORDANCE WITH BUILDING REGS AND MIN 30MMS.
 - FOLLOWING ERECTION, ANY DAMAGE TO PAINTWORK TO BE TOUCHED UP WITH COMPATIBLE COATING ON SITE.
 - SITE MEASUREMENTS TO BE TAKEN AND COMPARED WITH ARCHITECTS DIMENSIONS AND LEVELS AND AGREED PRIOR TO FABRICATION.
 - ALL BEAMS TO HAVE A MIN 100MM END BEARING.

- TIMBER:**
- STRUCTURAL TIMBER TO BS 5268: ALL TIMBER SIZES TO BE IN ACCORDANCE WITH APPROVED DOCUMENT A. 1992 WITH AMENDMENTS.
 - VERTICAL STRAPPING (VS)- METAL STRAPS TO PERIMETER OF EXTENSION AT MAX 1.8M CRS. TO BE 30 x 5 x 1200 LONG TAKEN DOWN WALLS AND FIXED 3 TIMES, WITH BOTTOM FIXING NOT MORE THAN 150MM FROM BOTTOM OF STRAP.

Notes:

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<table border="1"> <thead> <tr> <th>Rv</th> <th>Date</th> <th>By</th> <th>Ch</th> <th>Revisions</th> </tr> </thead> <tbody> <tr> <td>C1</td> <td>21.06.16</td> <td>CR</td> <td>SA</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> <tr> <td>C2</td> <td>27.06.16</td> <td>LS</td> <td>SA</td> <td>STRENGTHENING DETAIL AND ADDITIONAL INFORMATION ADDED</td> </tr> </tbody> </table>	Rv	Date	By	Ch	Revisions	C1	21.06.16	CR	SA	ISSUED FOR CONSTRUCTION	C2	27.06.16	LS	SA	STRENGTHENING DETAIL AND ADDITIONAL INFORMATION ADDED	<p>Client SIMON PARKIN</p> <p>Drawing Status FOR CONSTRUCTION</p> <p>HLN Civil + Structural Engineers Warlies Park House, Essex, EN9 3SL t:01992 788188 e:engineering@hingroup.co.uk www.hingroup.co.uk</p>	<p>Project FLAT 3 86 CANFIELD GARDENS</p> <p>Scale AS NOTED</p> <p>Date JUNE '16</p> <p>Design By SA</p> <p>Drawn By CR</p> <p>Checked By SA</p>	<p>Drawing Title STRUCTURAL ALTERATIONS</p> <p>Job No. 101127</p> <p>Drawing No. S100</p> <p>Rev. C2</p>
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<p>Cardiff <input type="checkbox"/> Redditch <input type="checkbox"/> Reading <input type="checkbox"/> Waltham Abbey <input type="checkbox"/> London <input type="checkbox"/></p>		<p>HLN ENGINEERING CIVIL + STRUCTURAL</p>																