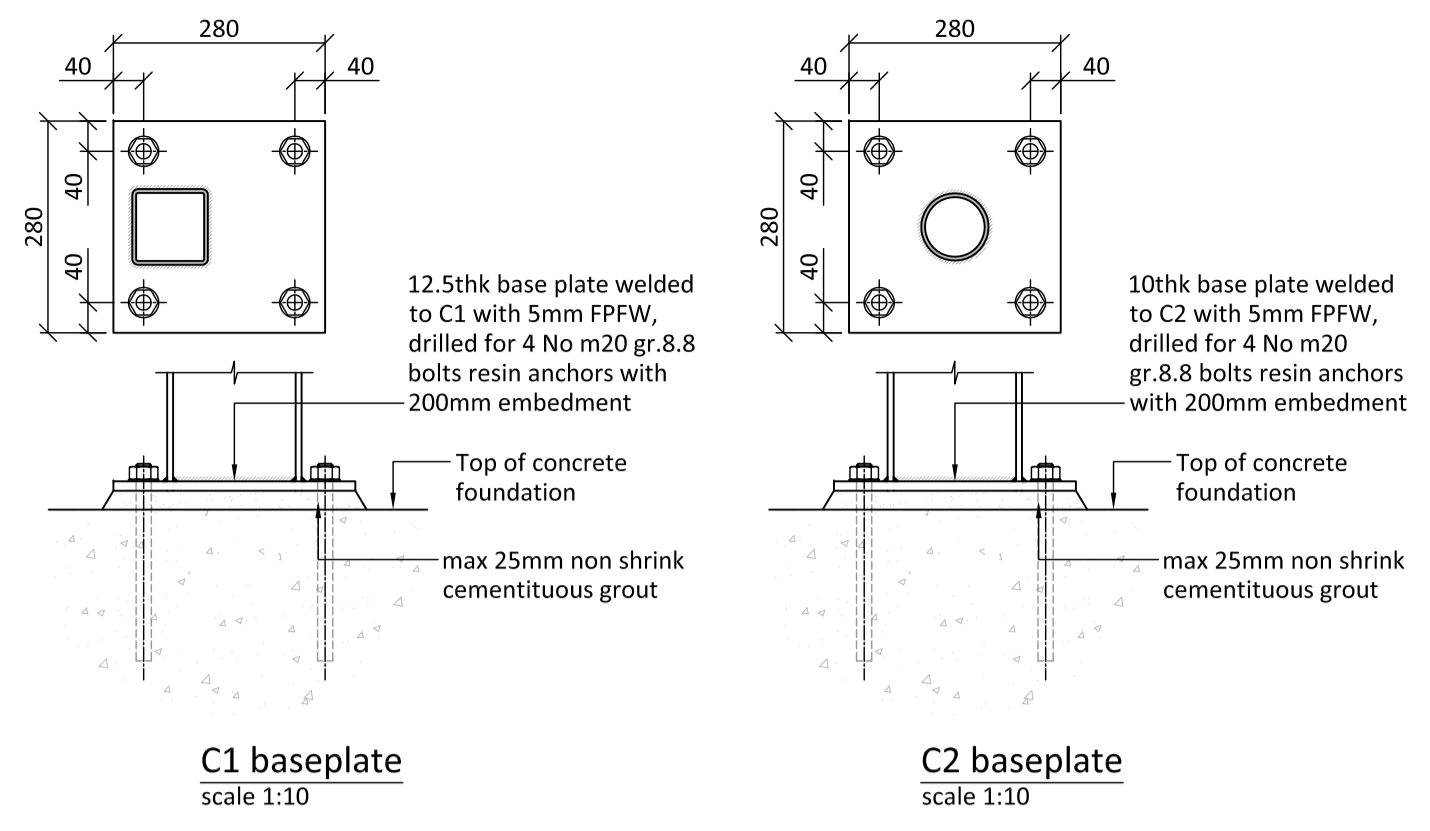
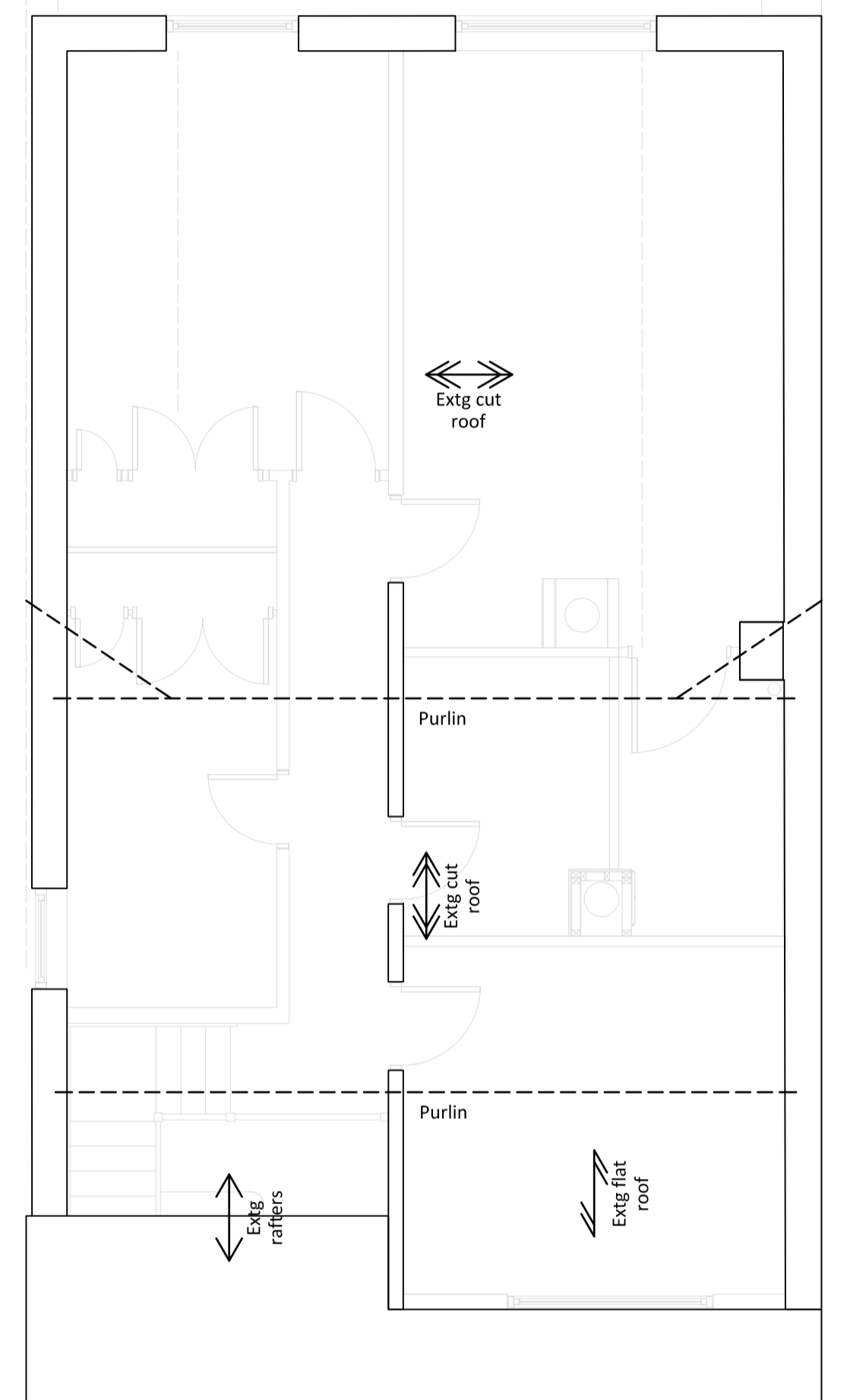


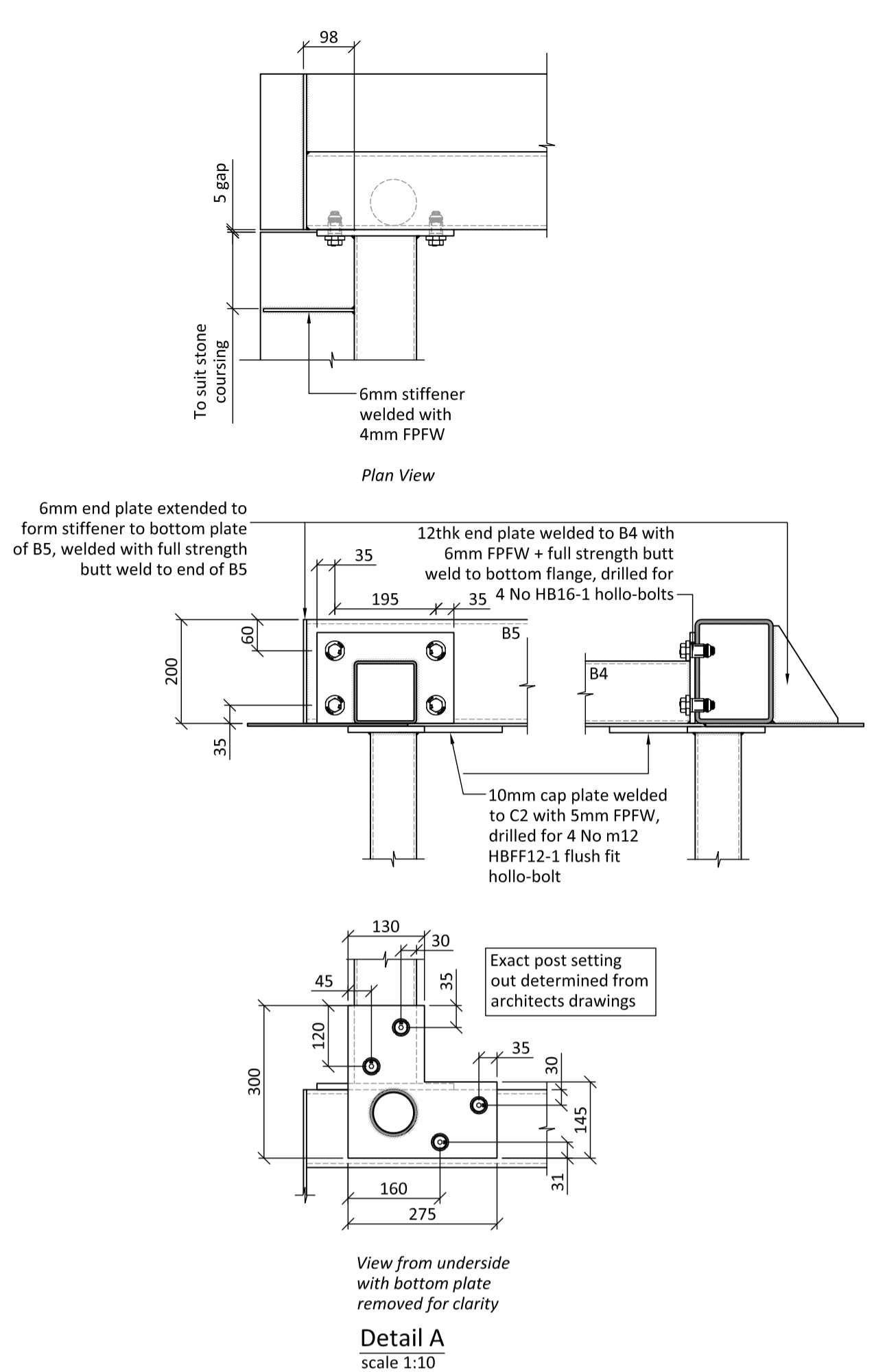
Ground Floor Showing Structure Over
scale 1:50



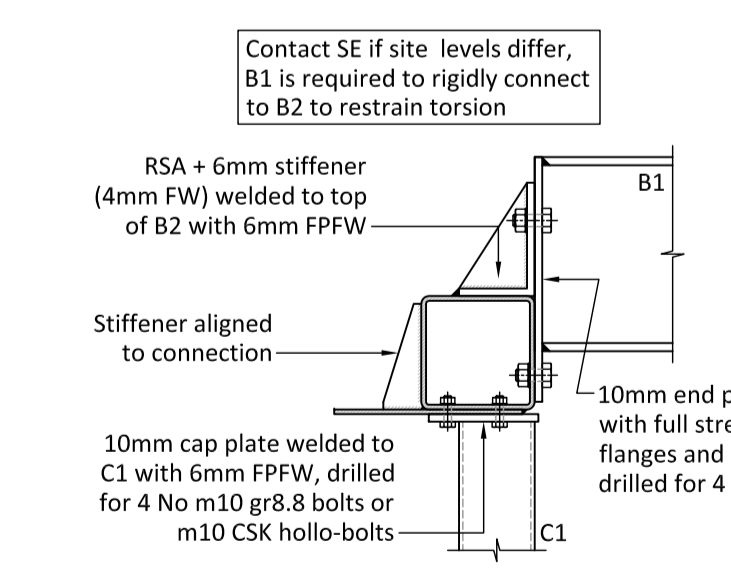
C1 baseplate scale 1:10
C2 baseplate scale 1:10



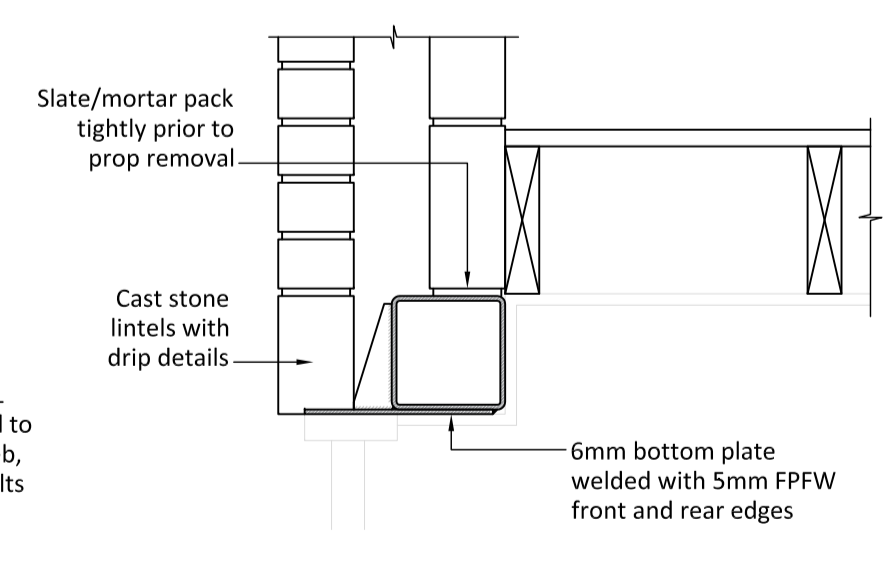
First Floor Showing Structure Over
scale 1:50



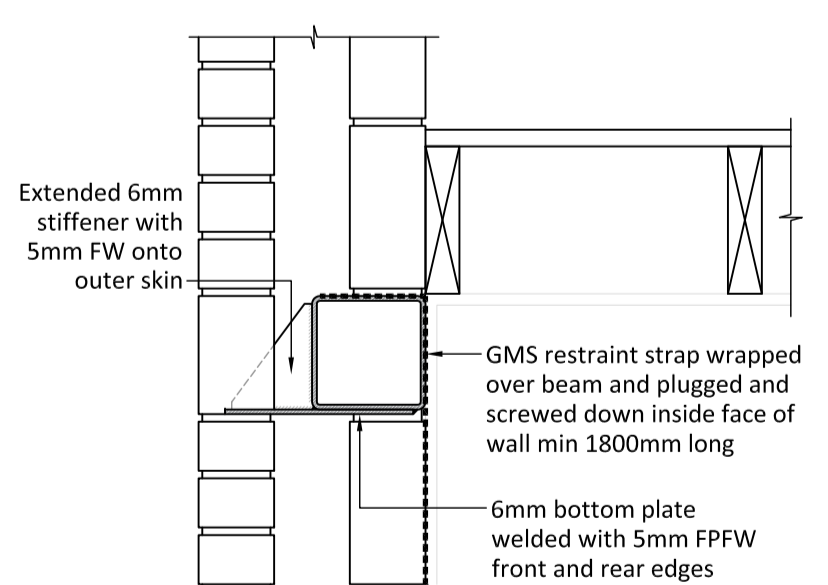
C3 baseplate scale 1:10
C3 to B3 connection scale 1:10



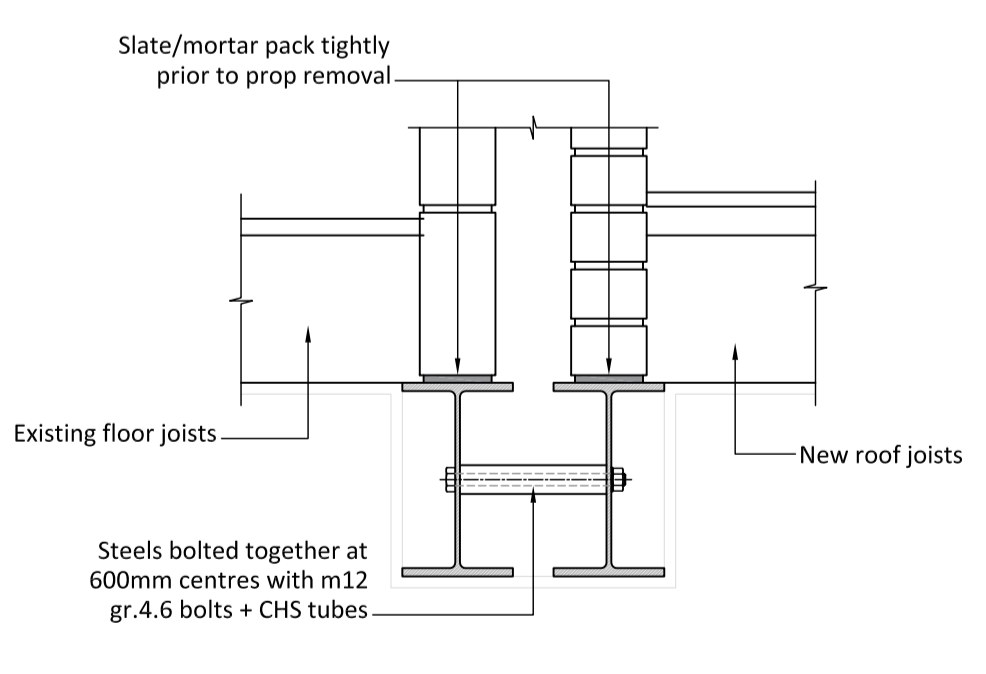
B1, B2 and C1 connection
scale 1:10



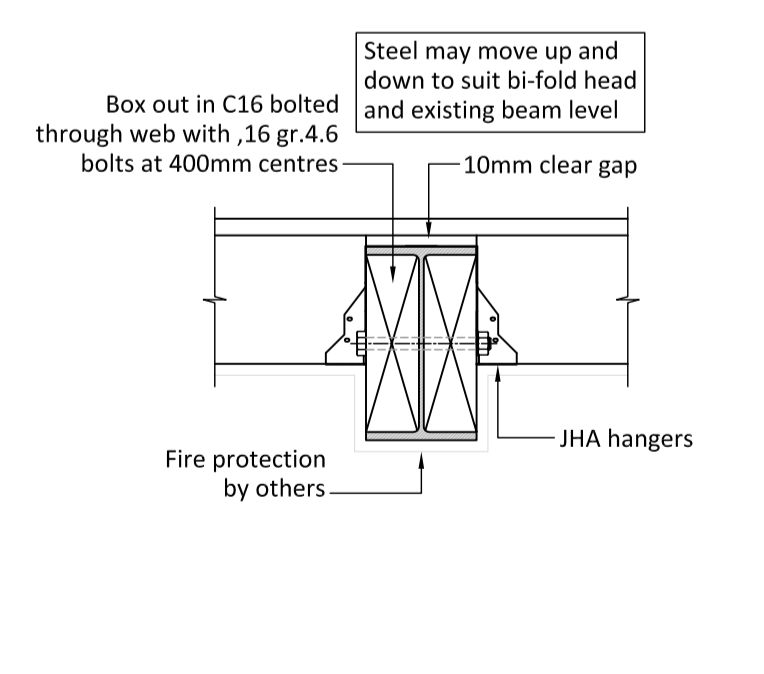
Typical Section Through B2/B4/B5
scale 1:10



P2 bearing (typical)
scale 1:10



Section Through B3
scale 1:10



Section Through B1
scale 1:10

| Legend | |
|--------|---|
| | Steel beam (size as noted in key) |
| | Crank in steel beam (full strength butt weld) |
| | Steel column (size as noted in key) |
| | Timber beam (size as noted in key) |
| | Rafter (size as noted on key) |
| | Flat roof joist (size as noted on key) |
| | Floor joist (size as noted on plan) |
| | Trussed rafters by supplier |
| | Timber post (size as noted in key) |
| | Blockwork inner skin |
| | Brickwork |
| | Stone/ recon stone |
| | Non load-bearing partitions by others |
| | Studwork wall (size and spacing as noted in member key) |
| | Pre-stressed lintel with min 150mm bearings (size as noted on member key) |
| | Padstone (size as noted on member key) |

| Member Key | |
|------------|--|
| J1 | - 195 x 45 C16 joists at max 600mm centres |
| T1 | - 2 No 195 x 45 C16 trimmer |
| T2 | - 2 No 195 x 70 C24 trimmer |
| B1 | - 254 x 146 UB 43 |
| B2 | - 150 x 150 SHS6.3 + 6mm bottom plate (see typical section) |
| B3 | - 2 No 254 x 146 UB37 |
| B4 | - 120 x 120 SHS 5 + 6mm bottom plate (see typical section) |
| B5 | - 200 x 150 RHS 8 + 6mm bottom plate (see typical section) |
| B6 | - 127 x 76 UB13 at tip of chimney stack above first floor level |
| B7 | - 152 x 89 UB16 downstand below ceiling level |
| C1 | - 100 x 100 SHS 10 post |
| C2 | - 88.9 CHS 5 post |
| C3 | - 178 x 102 UB19 post |
| P1 | - Steel to bear 300mm onto 440 x 100 x 215dp PPC padstone. |
| P2 | - Steel to bear 225mm onto masonry, including bottom plate onto outer skin (see typical detail). |

- General Notes:**
- Do not scale from the drawing; all dimensions and setting out to either be confirmed by the Architect or by measuring on site.
 - The copyright in this drawing belongs to Barsby Structural Consultants Ltd; the details contained within this drawing can not be used for any other project other than the project stated in the title block.
 - It is the responsibility of the contractor to review the drawing and notify the Structural Engineer of any discrepancies prior to commencing works.
 - All dimensions are in mm u.n.o.
 - This drawing may be subject to planning, building regulations application, party wall agreement. Should this be the case, all works carried out prior to approval are at the contractors/clients risk.
- Steelwork notes:**
- These are **not** setting out drawings - steelwork setting out to be determined by the fabricator from site measurement or the Architects drawings.
 - No holes are to be drilled through the steelwork unless agreed with the Structural Engineer.
 - All steelwork to be CE marked in accordance with BS EN 1090-1 & 2. All steelwork to be Execution Class 2.
 - All open sections to be grade S275JR in accordance with BS EN10025-2
 - All hollow sections to be grade S355J0H in accordance with BS EN10210-1
 - All bolts to be m20 grade 8.8; sheradized for internal use, or hot spun galvanised for external use.
 - All fillet welds to be 8mm full profile fillet welds u.n.o
 - Corrosion protection.
- Timber notes:**
- All softwood timber to be fsC certified stamped grade C16. All hardwood timber to be fsC certified stamped grade D30 to BS 5268 u.n.o, with maximum moisture content of 20% internal use and 40% external use.
 - All fixings into softwood to be galvanised
 - All fixings into hardwood to be stainless steel
 - All nails to be in accordance with BS 1202-1, pre drilling to be maximum of 0.8 x nail diameter
 - All screws to be in accordance with BS 1202, pre drilled holes to be maximum of 0.5 x screw shank diameter
 - All bolts to be grade 4.6 with oversized washers. Toothed plate connectors to be used between adjoining timber surfaces.
 - All notches and holes within timbers to be in accordance with the Building Regulations current version

- Masonry notes:**
- All masonry to be in accordance with BS EN 5628-1 and 3.
 - Brickwork to be minimum compressive strength of 20N/mm², with frogs facing upwards.
 - Blockwork to be minimum compressive strength 7.3n/mm² u.n.o.
 - Engineering brickwork to be minimum compressive strength 50N/mm² u.n.o.
 - Below DPC mortar to be designation class (ii).
 - Above DPC mortar to be designation class (iii).
 - Internal blockwork to have movement joints in accordance with the Suppliers specification but at a maximum of 6m, unless shrinkage cracking is deemed acceptable.
- Foundation notes:**
- All excavations to be inspected by the Building Control Officer (BCO) prior to pouring concrete
 - Assumed bearing pressure 80kPa, to be approved by BCO for site soil conditions
 - Concrete to be poured on the same day of excavation. If this is not possible, the base of the excavation is to be reduced 200mm immediately prior to pouring concrete the following day. The contractor is responsible for making sure excavations are not left open overnight.
 - Excavations to be clear and free of debris prior to pouring concrete.
 - All below ground mass fill concrete to be FND3 u.n.o
 - All below ground reinforced concrete to be RC32/40 u.n.o

| CDM Risk Schedule: | |
|--|--|
| The client is responsible for ensuring those who undertake the work are suitably experienced and competent. In addition to usual hazards expected with the work covered by this drawing, the following unusual risks have been highlighted risk through assessment. The work must be planned and executed to account for these risks during construction, operation, maintenance, decommissioning and demolition | |
| Reference | Risk description |
| 1 | There are no unusual risks identified for this drawing |

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Drawing Status: **ISSUED FOR CONSTRUCTION**

Project: **15 WILLOW GROVE SOUTH CERNEY**

Title: **GENERAL ARRANGEMENT AND DETAILS**

Scale: **as shown at A1** Date: **16/11/22** Drawn: **MPB**

Drawing Number: **22.132-1000** Revision: **B**

| Date | Description | Rev. |
|----------|-----------------------|------|
| 16/11/22 | Chimney support added | B |
| 25/10/22 | First issue | A |