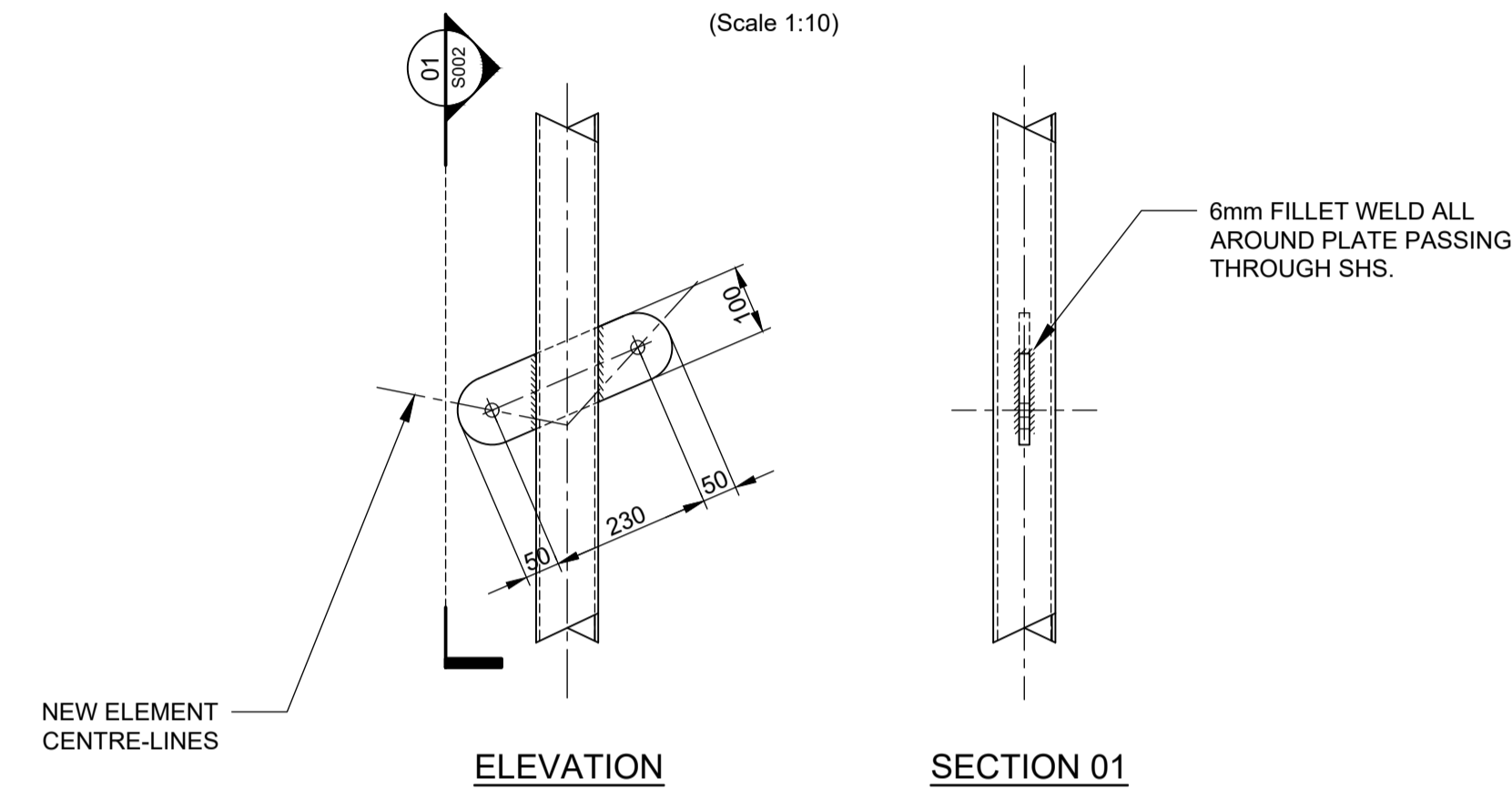
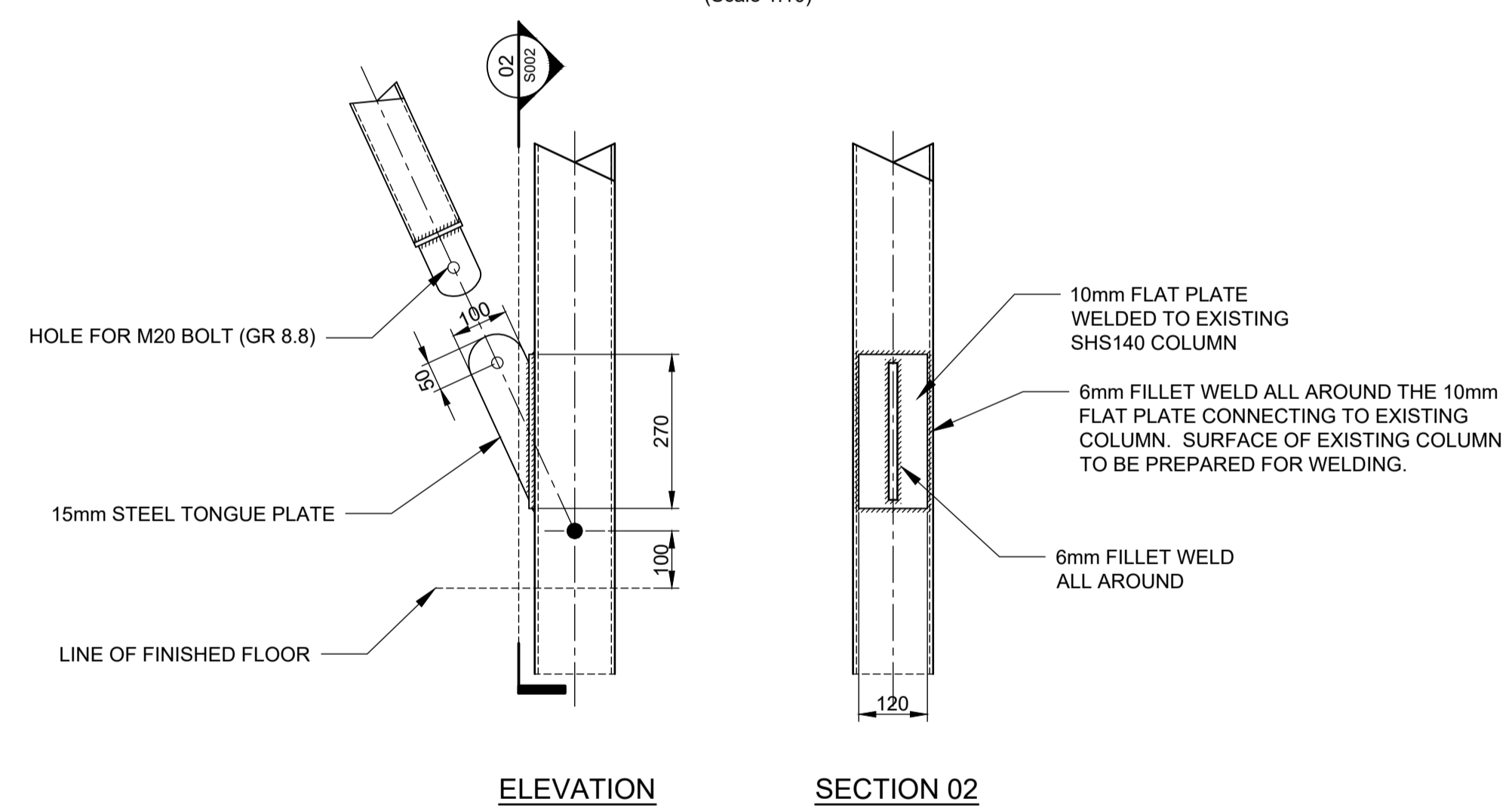


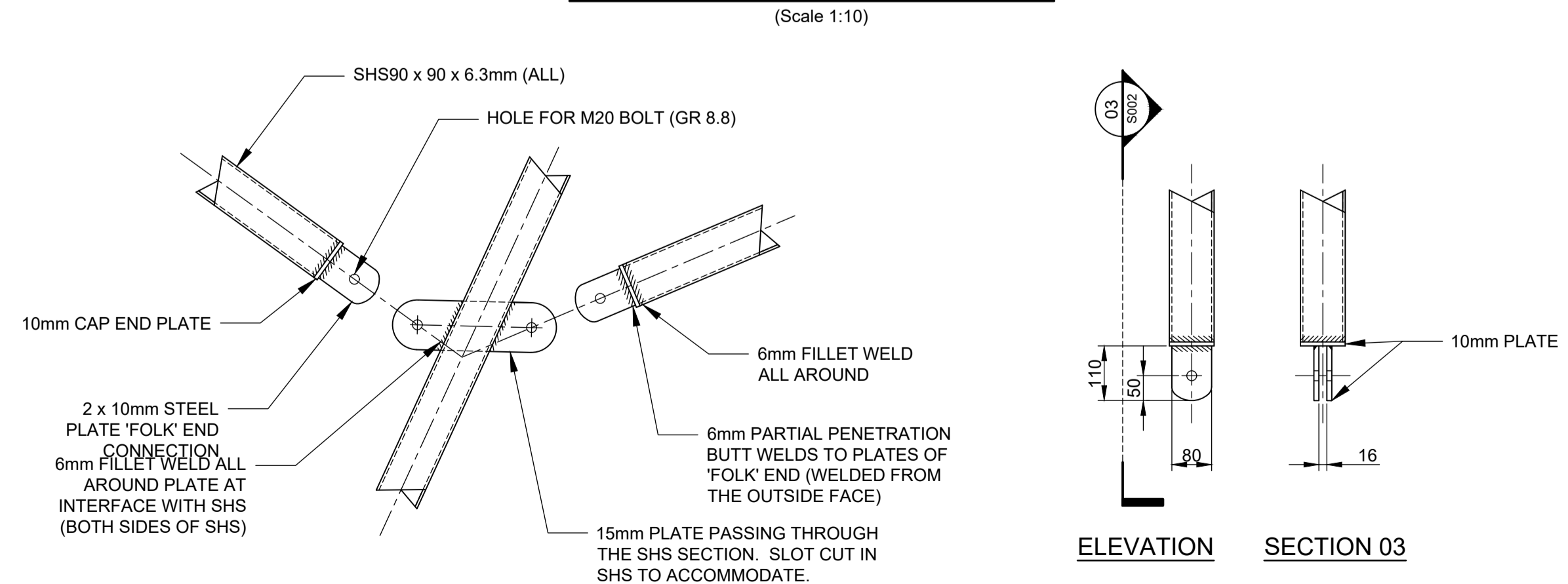
**DETAIL C - NODE ASSEMBLY**



**INTERSECTION NODE PLATE LAYOUT**

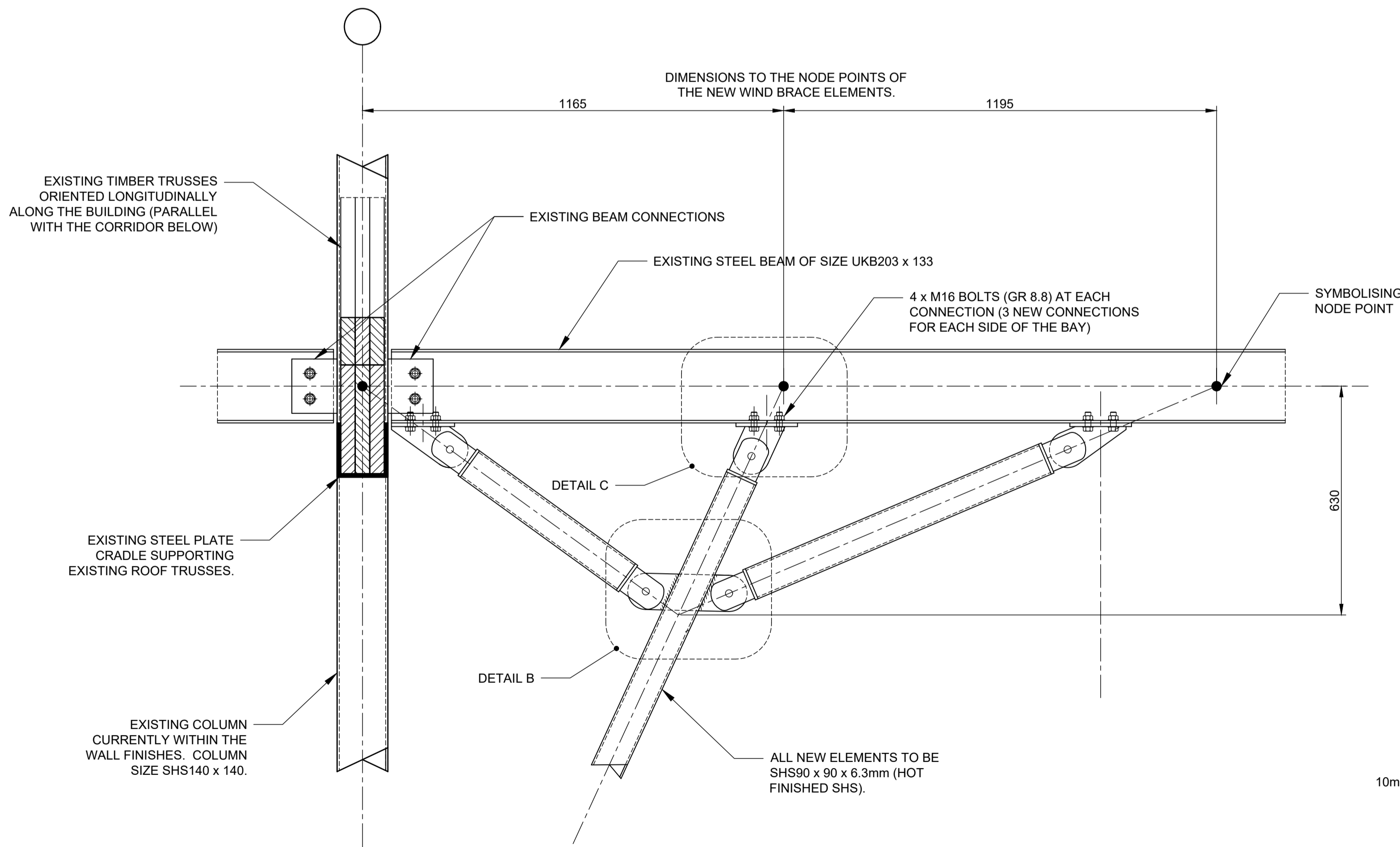


**DETAIL D - NODE ASSEMBLY**



**DETAIL B - NODE ASSEMBLY**

(Scale 1:10)



**DETAIL A - BRACE NODE DETAIL**

(Scale 1:10)

- NOTES**
- ALL NEW STEEL TO BE GRADE S355
  - ALL WELD STRENGTHS TO BE COMPATIBLE WITH THE STRENGTH OF THE MATERIALS THAT THEY JOIN. WELDS ARE TO BE A MINIMUM OF 6mm FILLET WELD (LEG LENGTH).
  - BOLTS ARE TO BE GRADE 8.8, MINIMUM SIZE M16.
  - SITE WELDING SHALL BE REQUIRED AS PART OF THESE WORKS (BASE NODE - DETAIL D). SURFACES OF THE EXISTING STRUCTURE TO RECEIVE WELDING SHALL BE PREPARED REMOVING ALL EXISTING PAINT AND SURFACE CONTAMINATIONS PRIOR TO THE WELDING OPERATION. CORROSION PROTECTIVE SYSTEMS AND FINISHING COAT TO BE APPLIED AFTER WELDING MATCHING THE EXISTING.
  - SITE MEASUREMENT OF THE DISTANCE FROM THE FINISHED FLOOR LEVEL TO THE EXISTING BEAM SHALL BE REQUIRED IN ORDER TO SET-OUT THE WIND FRAMES. ALL OTHER DIMENSIONS ARE PROVIDED.
- INSTALLATION SEQUENCE**
- THE PRINCIPAL STEPS OF THE INSTALLATION ARE AS FOLLOWS:
- REMOVE CEILING FINISHES TO A SUFFICIENT EXTENT TO ALLOW ACCESS TO THE UKB203 x 133 STEEL BEAM (LOCATED ABOVE THE CEILING) FOR THE PLANNED NEW BOLTED CONNECTION. MEASURE THE REQUIRED DIMENSION FROM THE FLOOR TO THE BEAM (SEE DRAWING).
  - IT IS ADVISED TO INSTALL A TEMPORARY BRACE AT THE EXISTING BLOCK-WALL WALL PRIOR TO THE REMOVAL OF THE WALL. THIS TEMPORARY BRACE MAY COMPRISE A X-BRACE FORM JOINING THE CORNER REGIONS OF THE STEEL FRAME THAT IS WITHIN THE PLANE OF THE WALL. ALTERNATIVELY, THE USE OF RAKING PROPS (ADOPTING SYSTEMS SUCH AS 'SYSTEM 160' BY MABEY OR SIMILAR) TO PROP THE COLUMN / BEAM INTERSECTION RESTRAINING THE FRAME IN THE DIRECTION PARALLEL TO THE WALL TO BE REMOVED. TWO SUCH PROPS COULD BE USED, ONE EACH SIDE OF THE WALL TO ACHIEVE THIS. RAKING FROM THE FLOOR LEVEL UP TO THE EDGE BEAMS AT THE OUTER PERIMETER OF THE BUILDING, CLOSE TO THE BEAM / COLUMN CONNECTIONS.
  - WITH THE X-BRACE OR THE RAKING PROPS IN PLACE, REMOVE THE BLOCK-WORK WALL COMPLETELY WITHIN THE ZONE BETWEEN THE OUTER AND INNER COLUMN.
  - MARK-OUT ALL BOLT CONNECTIONS AND MAKE HOLES FOR NEW CONNECTION. IT IS ADVISABLE TO CONSTRUCT A TEMPORARY ACCESS PLATFORM AT THE BEAM POSITION TO FACILITATE THIS.
  - PREPARE THE LOW LEVEL COLUMN POSITION FOR THE WELDED CONNECTION, AND TAKE MEASURES TO PROTECT OTHER OPERATIVES FROM THESE WORKS.
  - MAKE THE WELDED CONNECTION FOLLOWING RELEVANT PROCEDURES FOR HOT WORKS. THESE SHALL INCLUDE PROTECTION OF OTHERS FROM HIGH INTENSITY LIGHT SOURCES AND MINIMISING THE DISTRIBUTION OF HOT PARTICLES DURING GRINDING. PROVIDE A WRITTEN METHOD STATEMENT IDENTIFYING THE MEASURES BEING TAKEN TO ENSURE THE SAFETY OF SELF AND OTHERS PRIOR TO ANY WELDING OR WELD PREPARATION.
  - INSTALL THE WIND FRAME ASSEMBLIES, AND REMOVE THE TEMPORARY BRACE ELEMENTS AFTER COMPLETION.

| Rev | Date     | Description       | By | Chkd. |
|-----|----------|-------------------|----|-------|
| 1   | 20/03/20 | ISSUED FOR TENDER | MR | MR    |

Client:

Project:

Title:

**GENERAL ARRANGEMENT WIND FRAME**

Scale @ A1: 1:10, 1:25

Prepared by: MR  
Checked: MR  
Date: 20 MAR 20

Project Director: M Richards

Drawing Status: TENDER

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Drawing No.: 20/007/S002 1  
Revision: