

NOTES:

- GENERAL NOTES:**
- DO NOT SCALE ANY DRAWINGS. ALL STEELWORK LEVELS AND DIMENSIONS ARE TO BE CHECKED AND CONFIRMED ON SITE BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND STARTING CONSTRUCTION
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND DETAILS BY VANGUARD STRUCTURAL ENGINEERS, THE ARCHITECT & OTHER SPECIALISTS
 - CONSTRUCTION TO BE UNDERTAKEN BY A COMPETENT BUILDING CONTRACTOR USED TO UNDERTAKING THIS FORM OF BUILDING WORKS, OF THIS COMPLEXITY, IN ACCORDANCE WITH GOOD BUILDING PRACTICE AND METHODS OF CONSTRUCTION.
 - THE MAIN CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TEMPORARY STABILITY DURING ALL STAGES OF THE CONSTRUCTION WORKS, INCLUDING THE DESIGN OF TEMPORARY WORKS.
 - THE OVERALL STABILITY OF THE STRUCTURE IN THE PERMANENT CONDITION RELIES UPON THE INTERACTION OF ALL ELEMENTS.
 - ANY DISCREPANCIES OR OMISSIONS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.

- REINFORCED CONCRETE NOTES:**
- STRUCTURAL CONCRETE TO BE GRADE C20/25 UNLESS STATED OTHERWISE. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS TO BE 25N/mm². MINIMUM CEMENT CONTENT TO BE 300kg/m³. MAXIMUM FREE WATER/CEMENT RATIO TO BE 0.55. MAXIMUM AGGREGATE SIZE TO BE 20mm. ALL BURIED CONCRETE TO BE TO SULPHATE CLASS DS-1 & ACC CLASSIFICATION AC-14.
 - ALL REINFORCEMENT TO BE HIGH YIELD MINIMUM GRADE 500N/mm²
 - MIN. COVER TO REBAR TO BE 35mm OR 75mm IF CAST AGAINST A BARE EXCAVATED SURFACE.
 - FABRIC REINFORCEMENT TO HAVE MINIMUM 400mm SIDE AND END LAPS.
 - ALL CONCRETE TO BE MECHANICALLY VIBRATED.
 - PROPRIETARY SPACERS TO BE USED.

- STEELWORK NOTES:**
- ALL UB, UC & PFC STEELWORK IS TO BE GRADE S355JR FABRICATED, PRIMED AND INSTALLED IN ACCORDANCE WITH BS5950.
 - ALL RHS, SHS & CHS STEELWORK IS TO BE GRADE S355JD FABRICATED, PRIMED AND INSTALLED IN ACCORDANCE WITH BS5950.
 - ALL STEELWORK LENGTHS AND LEVELS ARE TO BE MEASURED AND CONFIRMED ON SITE.
 - TO COMPLY WITH UKCA MARKING (OR CE MARKING UNTIL 31st DECEMBER 2022) ALL STEELWORK TO BE FABRICATED IN ACCORDANCE WITH THE NATIONAL STRUCTURAL STEELWORK SPECIFICATION (NSSS) FOR BUILDING CONSTRUCTION (7TH EDITION).
 - STEELWORK EXECUTION CLASS:
CONSEQUENCE CLASS: CC1
SERVICE CATEGORY: SC1
PRODUCTION CATEGORY: PC1
EXECUTION CLASS: EXC2
 - ALL BOLTS TO BE BS8892, GRADE 8.8 GALVANISED/SHEARIDISED.
 - ALL BOLT HOLES TO BE BOLT DIAMETER +2mm.
 - ALL WELDS TO BE MIN. 6mm CONTINUOUS FILLET WELDS U.N.O.
 - FIRE PROTECTION REQUIRED WHERE APPROPRIATE. TO BUILDING REGULATIONS REQUIREMENTS OR TO ARCHITECTS DETAILS.
 - EXTERNAL / EXPOSED STEEL TO EITHER BE SHOT BLASTED TO SA 2.5 & PAINTED WITH 2 COATS OF ZINC-RICH PRIMER, GIVING TOTAL D.F.T. OF 80 MICRONS OR HOT DIP GALVANISED TO BS EN ISO 1461.

- BEARING NOTES:**
- ALL PADSTONES TO BE POSITIONED CENTRALLY UNDER BEAM THEY SUPPORT.
 - WHERE MULTIPLE BEAMS SHARE A SINGLE PADSTONE POSITION AS CENTRALLY AS POSSIBLE UNDER THE MULTIPLE BEAMS, UNLESS NOTED OTHERWISE.
 - MIN. 50N/mm² PRECAST CONCRETE PADSTONES UNLESS NOTED OTHERWISE. STANDARD SIZES SPECIFIED AND SUPPLIED BY MAYLOR INDUSTRIES.
 - ALL STRUCTURAL ELEMENTS TO HAVE MIN. 100mm BEARING (U.N.O.).

- MASONRY NOTES:**
- ALL EXTERNAL BRICKWORK TO HAVE A MIN. COMPRESSIVE STRENGTH OF 20N/mm² AND WITH A WATER ABSORPTION BETWEEN 7 & 12%.
 - ALL BLOCKWORK TO HAVE A MIN. COMPRESSIVE STRENGTH OF 7N/mm² UNLESS NOTED OTHERWISE. ALL BLOCKWORK TO HAVE A UNIT WEIGHT NOT EXCEEDING 21KG.
 - MORTAR TO BE GENERALLY DESIGNATION (III) UNLESS NOTED OTHERWISE.

- LINTEL NOTES:**
- ALL PROPRIETARY LINTELS TO BE AS SPECIFIED OR SIMILAR APPROVED.
 - ALL LINTELS TO BE INSTALLED AND HAVE MIN. END BEARINGS (TYPICALLY 150mm) RECOMMENDED BY THE MANUFACTURER FOR THE PARTICULAR LINTEL TYPE SPECIFIED.
 - CONCRETE LINTELS ARE TO BE INSTALLED THE CORRECT WAY UP (REINFORCEMENT STRANDS) TO BE CLOSE TO THE BOTTOM OF THE UNIT AND AWAY FROM THE LOAD THAT IS IMPOSED UPON IT).
 - CONCRETE LINTELS ARE TO BE INSTALLED AS BOUGHT AND NO ALTERATIONS ARE TO BE MADE TO THEM I.E. DO NOT CUT LINTELS TO SUIT OPENING SIZE AND NO REBAR MUST BE FORMED/CUT INTO LINTELS OR HOLES DRILLED FOR CHEMICAL ANCHORS.

- TIMBER NOTES:**
- ALL TIMBER JOISTS/BEAMS TO BE FSC CERTIFIED STAMPED GRADE C16/C24.
 - USE PROPRIETARY TIMBER FRAME FIXINGS/ANCHORS OR HANGERS TO SECURE TIMBERS TO OTHER TIMBERS.
 - USE PROPRIETARY JOIST HANGERS TO SUPPORT TIMBER JOISTS OFF TIMBER PLATES BOLTED TO STEEL BEAM WEB USING M10 BOLTS AT 600mm c/c.
 - MULTIPLE TIMBERS TO BE BOLTED TOGETHER AT 400mm c/c USING M12 BOLTS. 50mm TOOTHED PLATE CONNECTORS AND SQUARE PLATE WASHERS.
 - ALL TIMBER JOISTS TO BE TREATED BY DOUBLE VACUUM PRESERVATIVE TREATMENT TO BS 5707 PART 3. ALL ENDS TREATED ON SITE.
 - ALL SOFTWOOD TIMBER FIXINGS TO BE GALVANISED/SHEARIDISED.
 - FIRE PROTECTION TO ARCHITECTS DETAILS OR BUILDING REGULATION REQUIREMENTS.

- ROOF BRACING / STRAPPING**
- TRADITIONAL CUT OR TRUSS RAFTER ROOFS TO HAVE STANDARD TIMBER BRACING IN ACCORDANCE WITH BS5268 PART 3 AND/OR IN ACCORDANCE WITH TRUSS MANUFACTURERS DESIGN.
 - FLAT ROOF AREA TO BE LINED WITH MIN. 18mm PLYWOOD OR OSB SHEETS FIXED WITH 5mm Ø NAILS / SCREWS @ 300mm c/c AND 150mm c/c @ BOARD EDGES.
 - STANDARD 305x1200 LONG GALVANISED STEEL RESTRAINT STRAPS TO BE PROVIDED TO FLOORS, FLAT ROOFS AND AROUND GABLES. STRAPS FIXED OVER 38mm WIDE NOGGINS AT LEAST HALF THE DEPTH OF THE JOIST OR RAFTER. STRAPS TO EXTEND OVER AT LEAST 3x JOISTS OR RAFTERS. SPACING OF STRAPS TO BE AT MAX. 2m c/c IN ACCORDANCE WITH BS5268 OR CURRENT BUILDING REGULATION APPROVED DOCUMENT A.
 - STANDARD 305x1200 LONG GALVANISED STEEL RESTRAINT STRAPS TO BE PROVIDED VERTICALLY TO WALL PLATES FIXED TO THE SUPPORTING MASONRY BELOW AT MAX. 2m c/c IN ACCORDANCE WITH BS5268 OR CURRENT BUILDING REGULATION APPROVED DOCUMENT A.

C	B3 PARTY WALL BEARING DETAIL REVISED	AC	03/03/23
B	SLAB ADDED	AC	11/1/22
A	RAFTERS REVISED	AC	11/1/22
REV	DESCRIPTION	BY	DATE

STATUS: **BUILDING REGS ISSUE**

Vanguard Structural Engineers Ltd

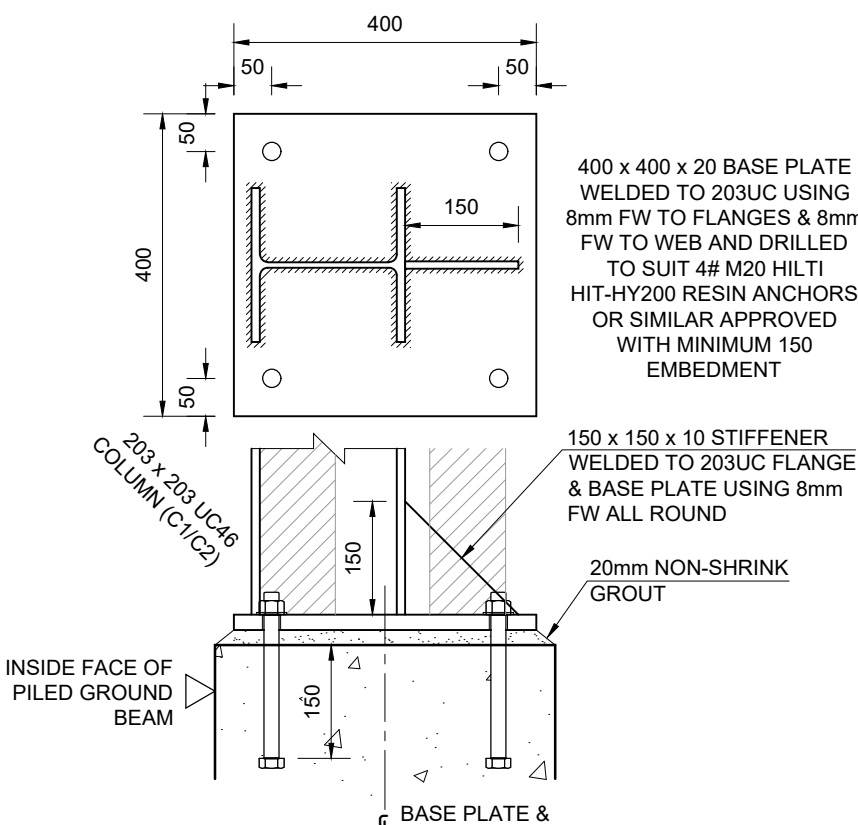
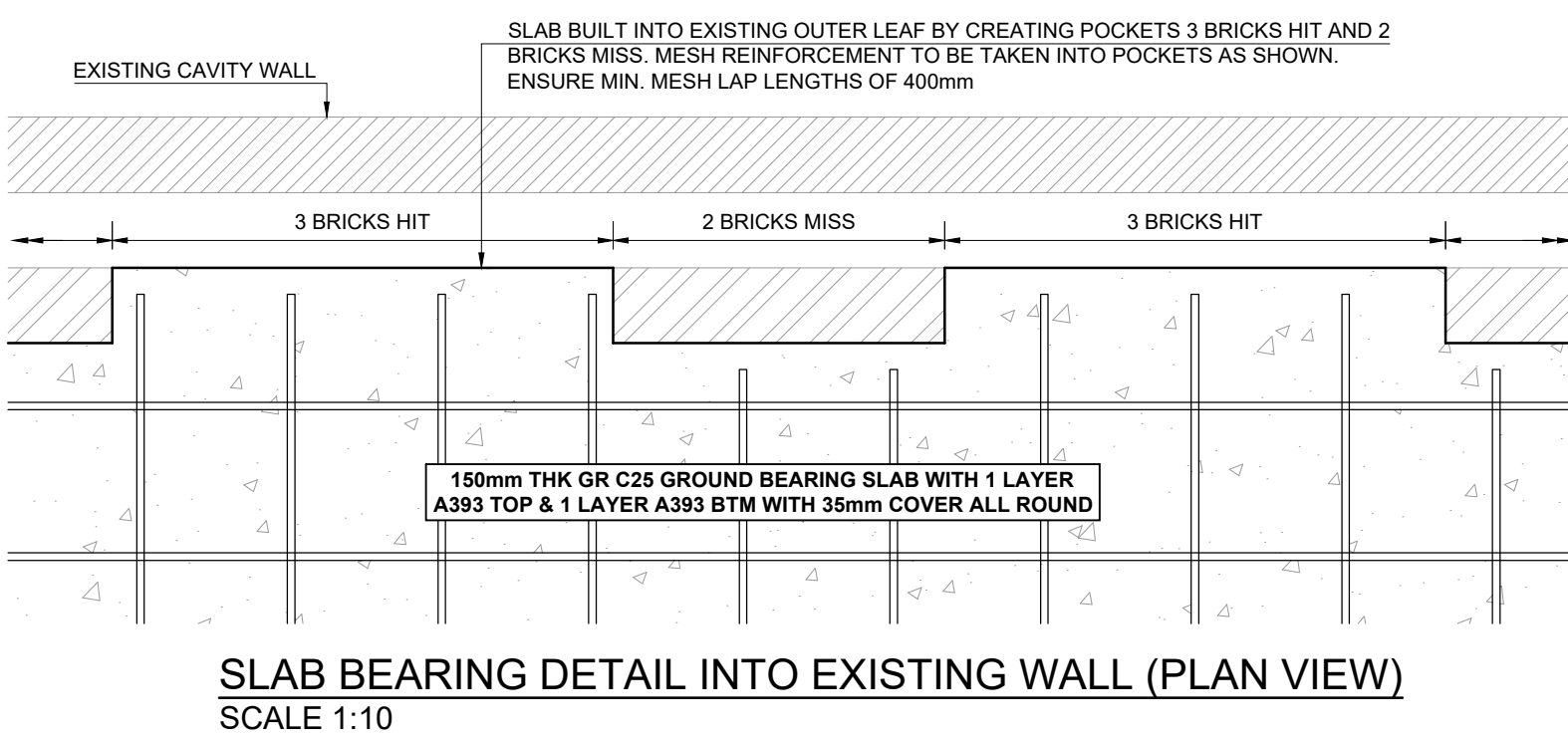
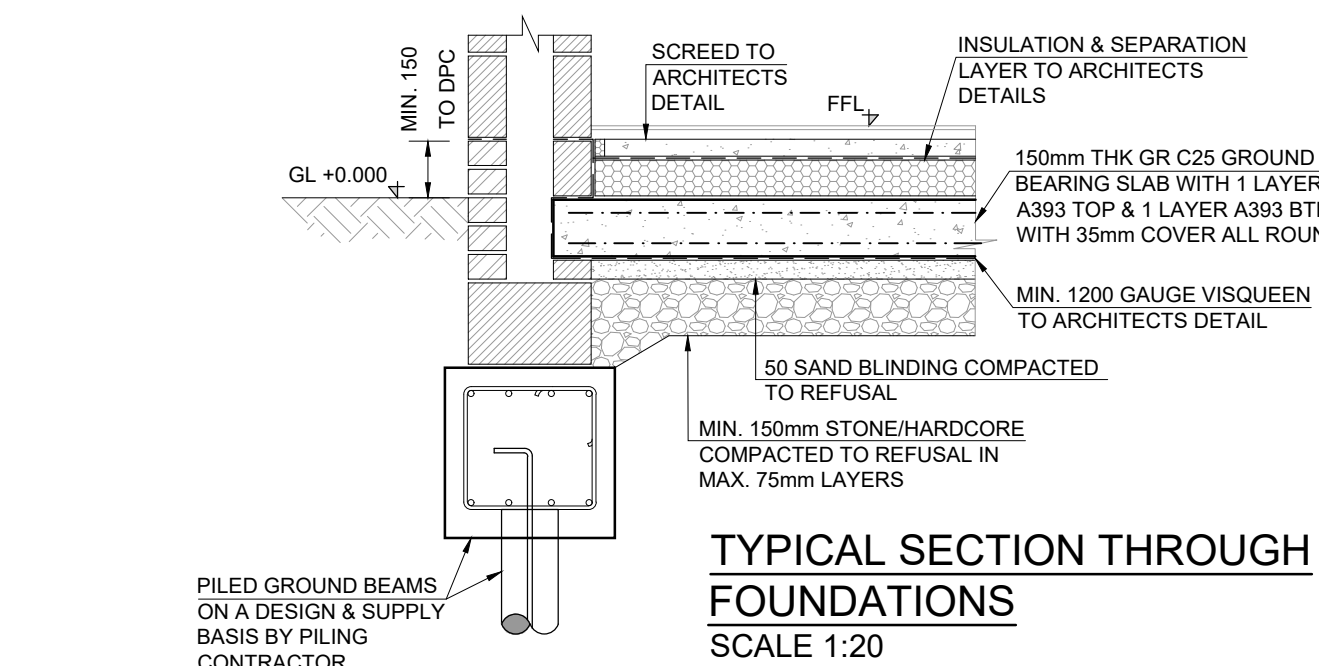
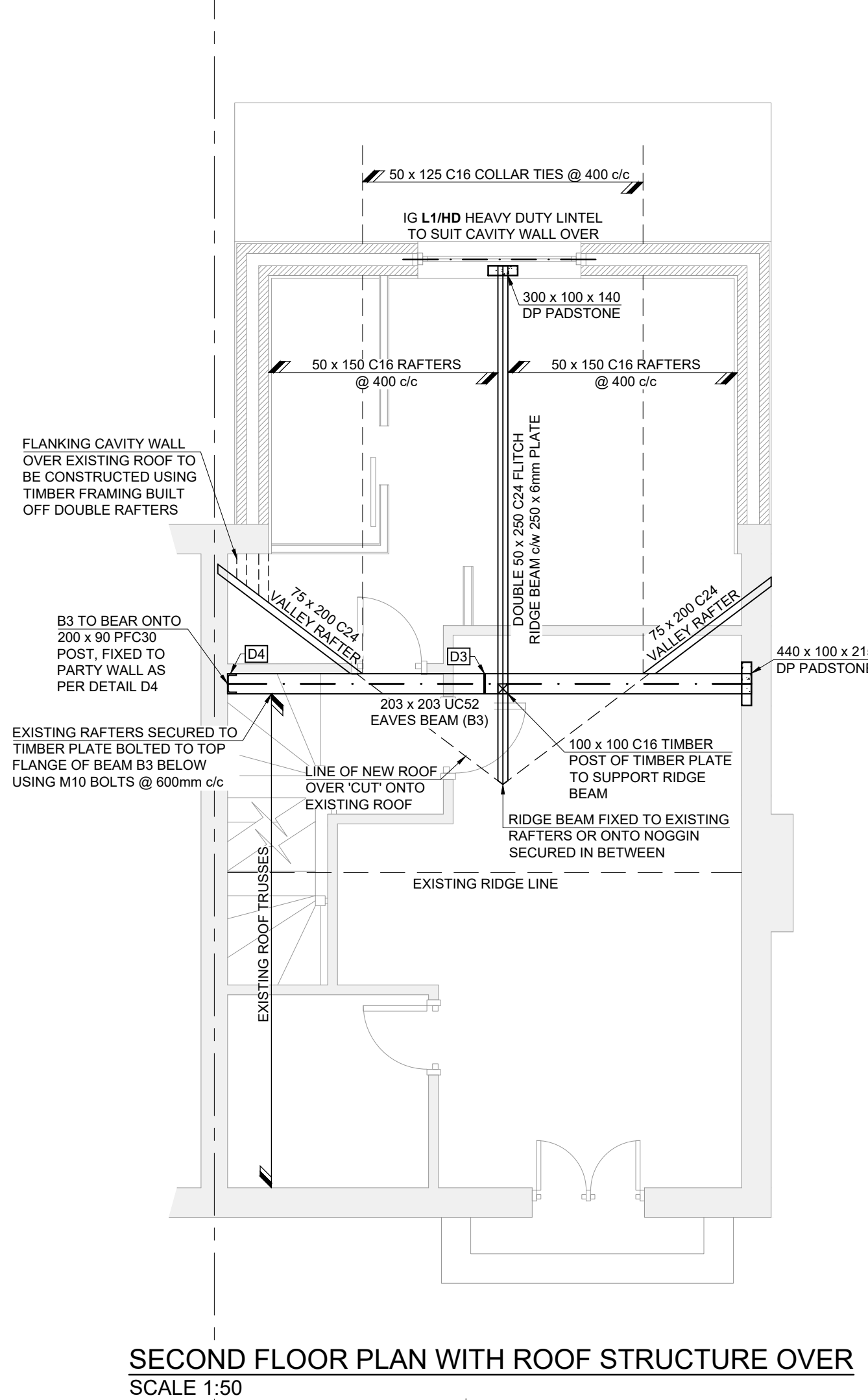
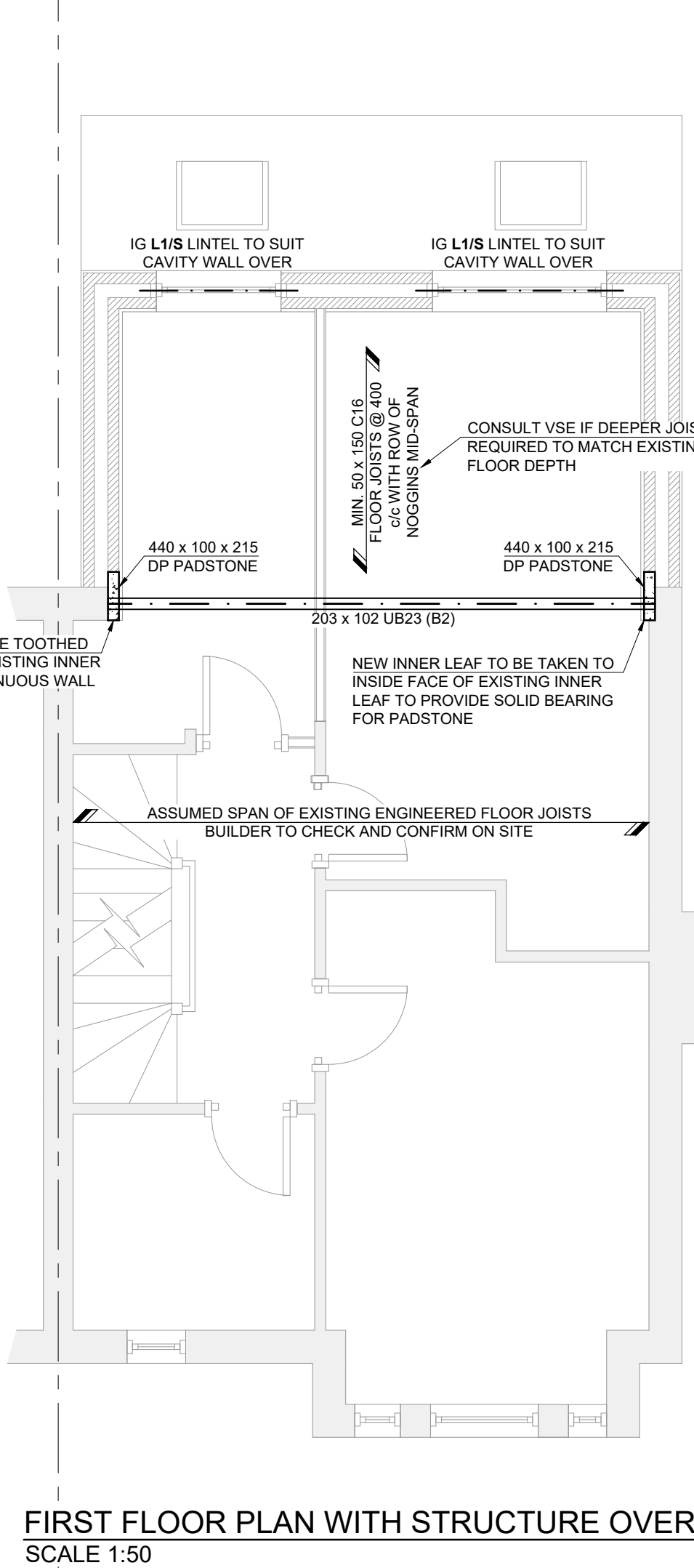
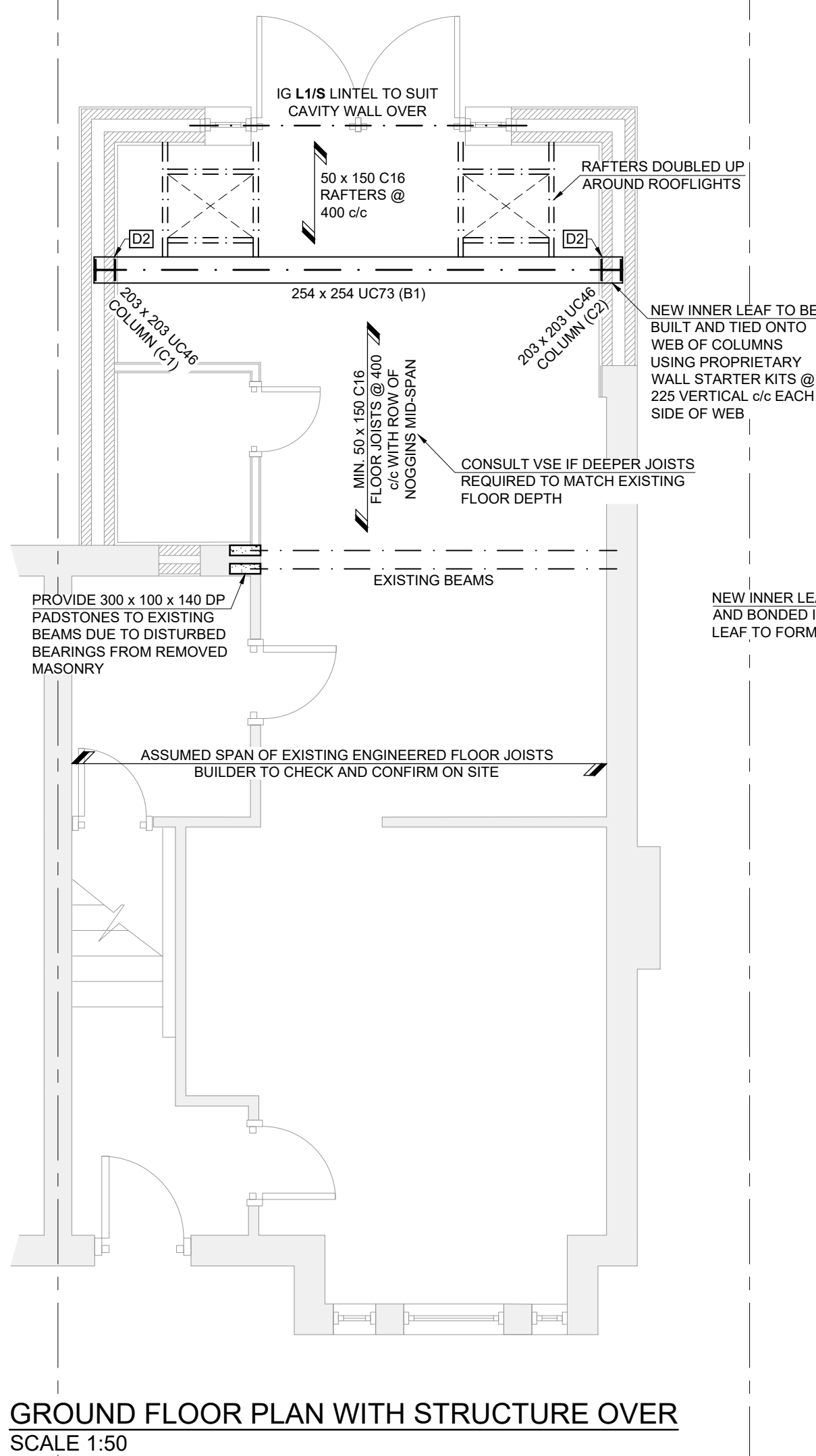
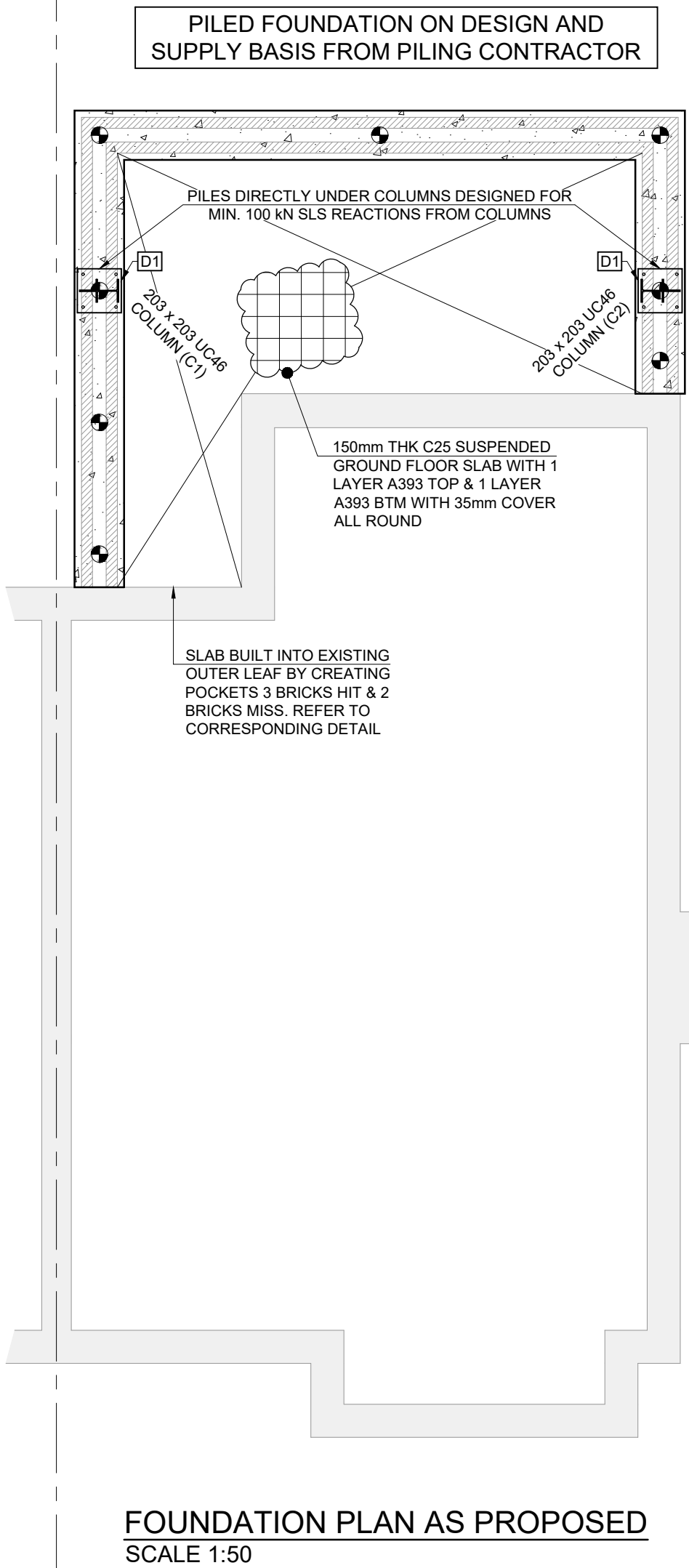
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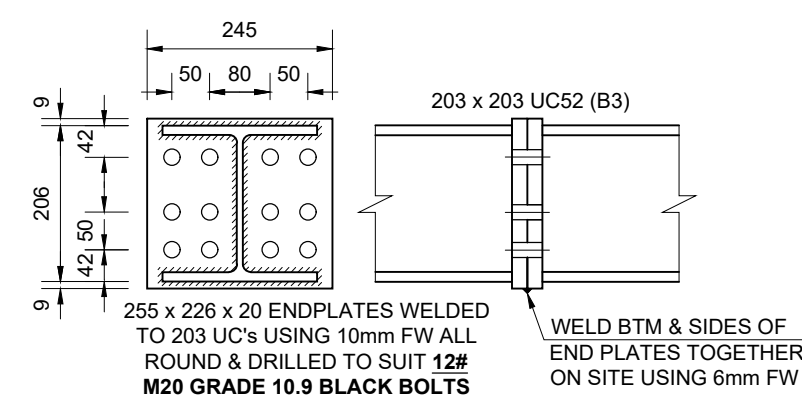
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MANCHESTER
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TITLE: **FLOOR PLANS & DETAILS**

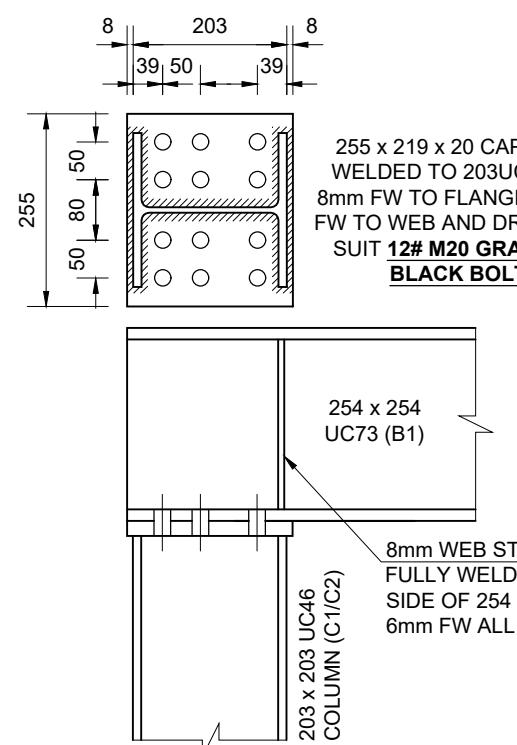
SCALE @ A1:	DATE:	DRAWN:	ENG:
AS SHOWN	18/12/2022	AC	AC
PROJECT NO:	DRAWING NO:		REVISION:
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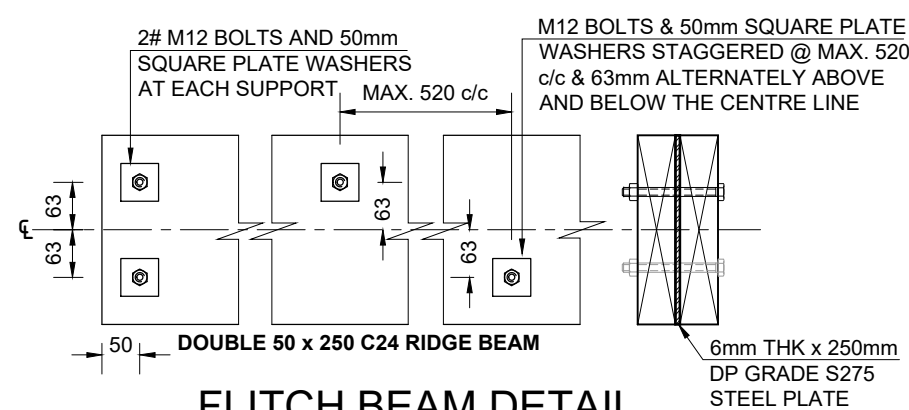
BASE PLATE DETAIL D1
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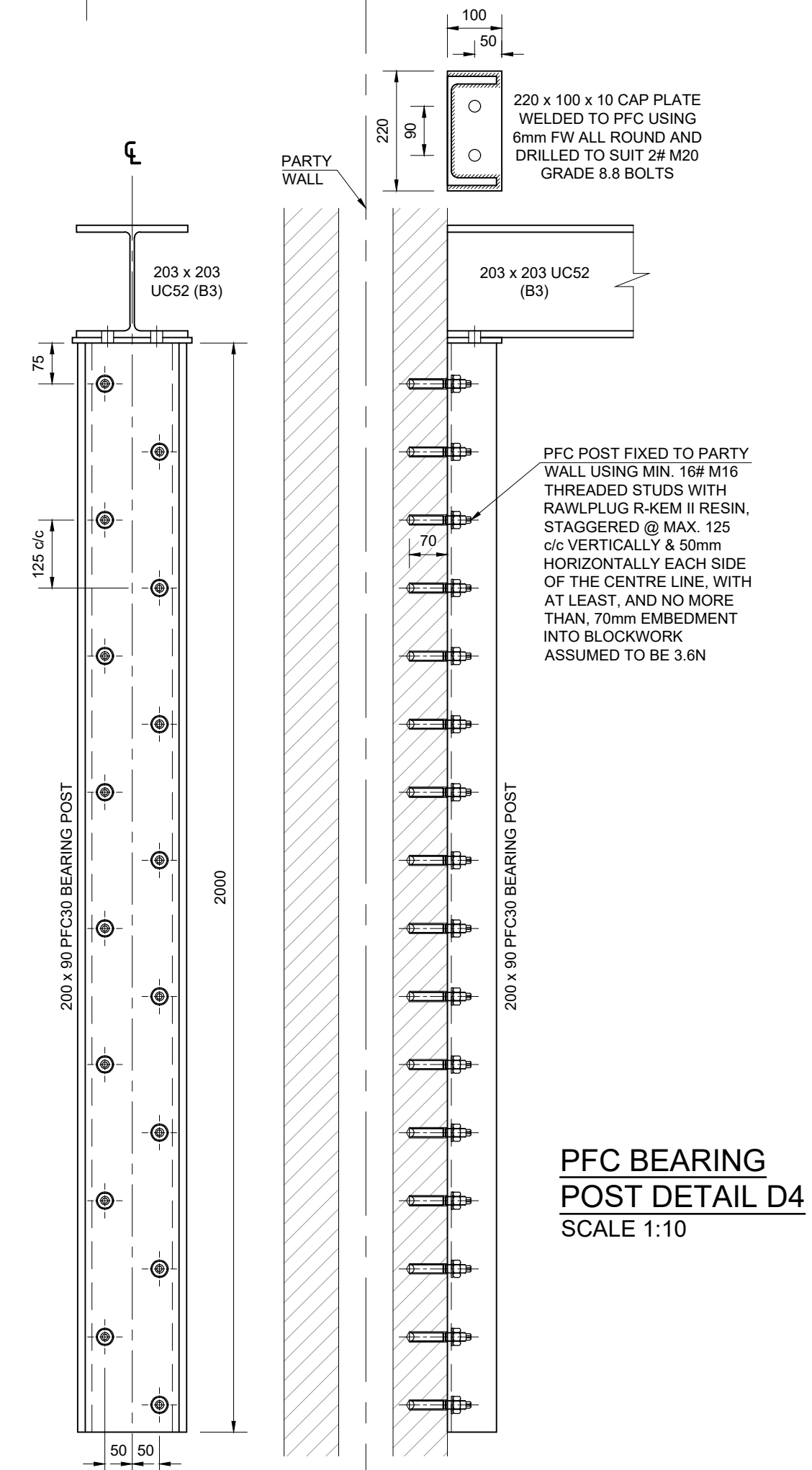
SPLICE DETAIL D3 - IF REQUIRED
SCALE 1:10



CAP PLATE DETAIL D2
SCALE 1:10



FLITCH BEAM DETAIL
SCALE 1:10



PFC BEARING POST DETAIL D4
SCALE 1:10