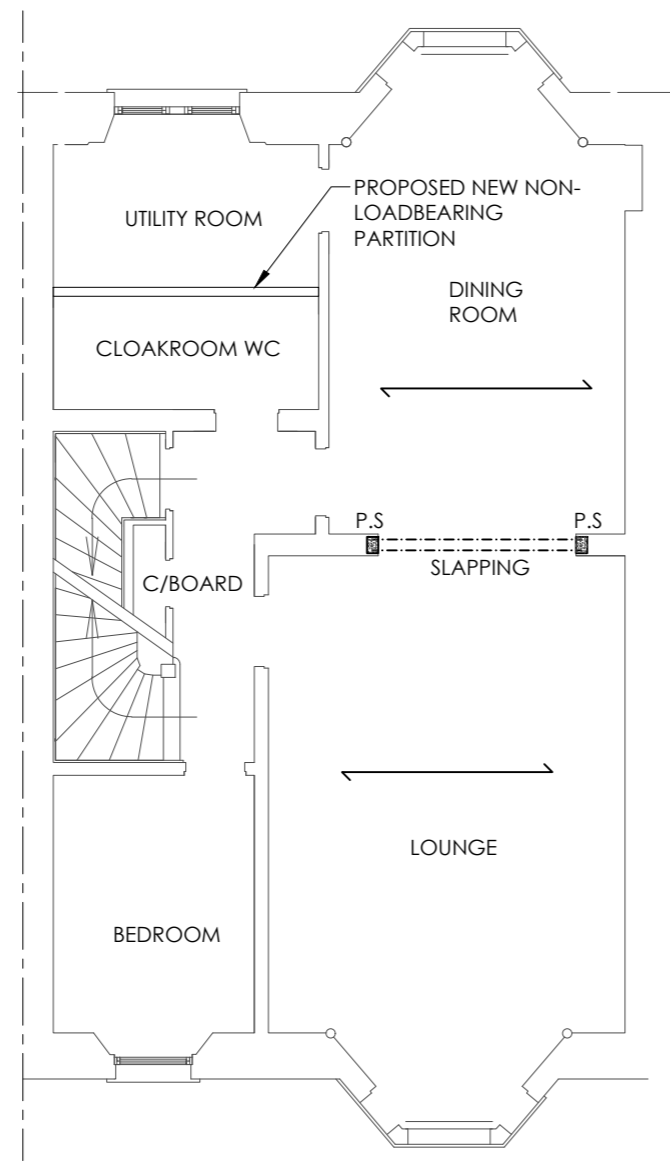
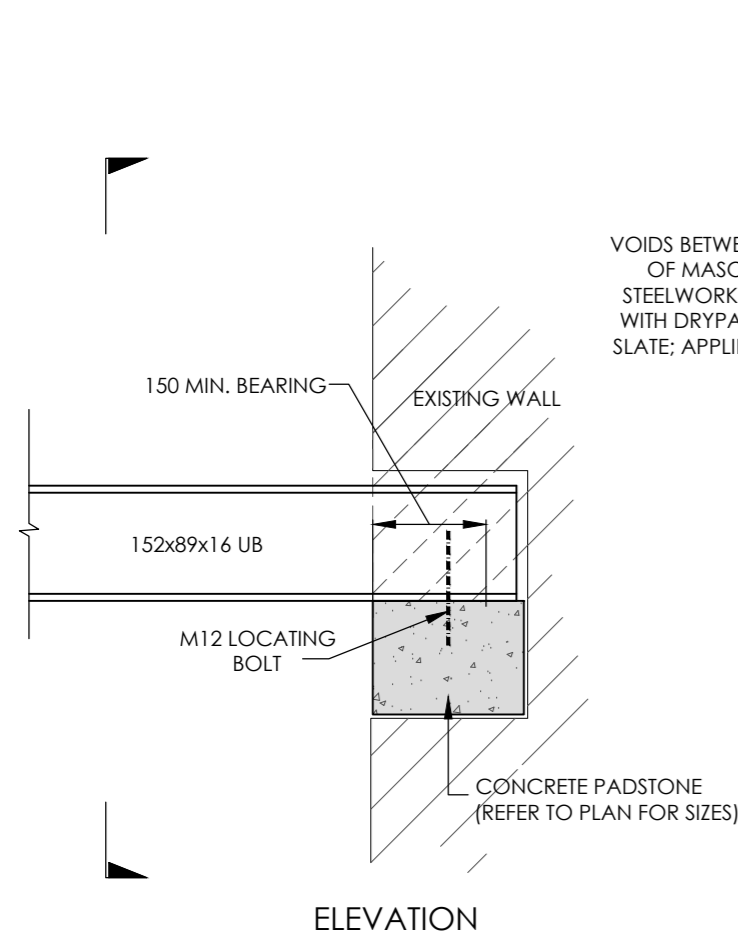


FLOOR PLAN AS EXISTING  
1:100

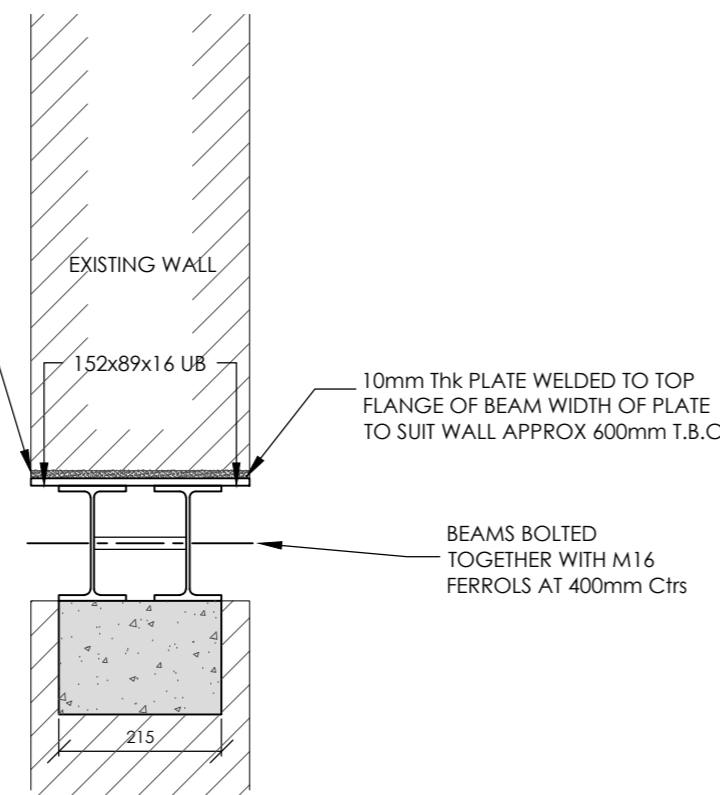


FLOOR PLAN AS PROPOSED  
1:100



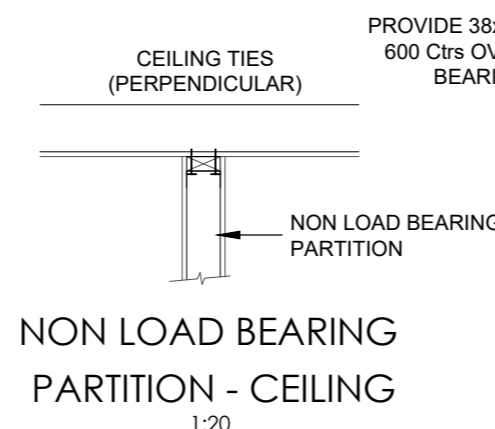
ELEVATION

VOIDS BETWEEN UNDERSIDE OF MASONRY & TOP OF STEELWORK TO BE FILLED WITH DRYPACK MORTAR & SLATE; APPLIED FROM BOTH SIDES.

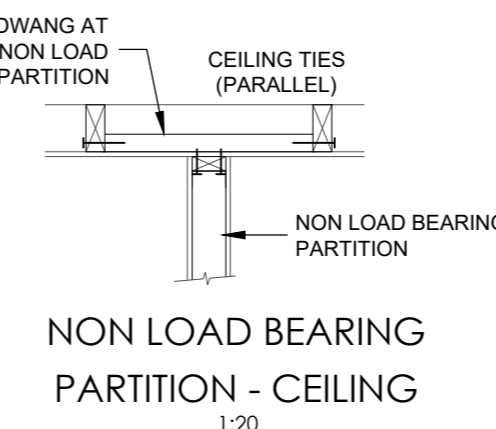


SECTION

CONNECTION DETAIL  
1:10



NON LOAD BEARING PARTITION - CEILING  
1:20



NON LOAD BEARING PARTITION - CEILING  
1:20

STEEL NOTES

- Steelwork Hot Rolled I & H Sections to be of Mild Steel to BS EN 10025:2, with Dimensions and Tolerances to BS 4:1 and BS EN 10034
- Steelwork Plates to be of Mild Steel to BS EN 10025:2, with Tolerances to BS EN 10029
- All Steelwork where noted on the Drawing or exposed during construction to be Hot Dip Galvanised after fabrication, in accordance with BS EN ISO 1461 to a thickness of 85 microns (Corus System no. B12). Include for nuts, washers etc.
- All steelwork to be shot blasted to SA2½ after fabrication and given 2 coats Zinc Phosphate Primer.
- Bolts, Nuts and Washers to be to Grade 8.8 in 2mm clearance holes unless otherwise noted. Full Threaded Bolts to BS EN ISO 4017 and, Part Threaded Bolts to BS EN ISO 4014 and, Nuts to BS EN ISO 4032 (Class 8) Washers to BS EN ISO 7091 (100HV).
- Fabrication Drawings to be submitted to the Engineer for his written approval at least seven days prior to commencement of fabrication.
- The Contractor is responsible for the accuracy of all dimensions and correct setting out and erection of the steelwork on site, including such measures as are necessary for the temporary stability of the structure during erection on site.
- Refer to Architect's drawings / specification for details of fire protection to steelwork.
- Steel Grades :-  
Hot Rolled Sections S355  
Hollow sections S355  
Plates and flats S275

TIMBER FRAME SPECIFICATION

- All structural timber studs to be in accordance with BS 5268 : Part 2 : 2002 dried to 20% moisture content at time of erection and spaced generally at a maximum 600mm centres.
- To enable the transfer of load between adjacent panels it is essential that the following conditions are met:-  
a) Tops of individual wall panels should be linked by a member or construction that is continuous across panel joints.  
b) The faces of end studs of contiguous panels should be fixed such that any vertical shear is transferred. End studs should be fixed with the equivalent of 3.35mm nails of length 75mm at 300mm c/c.
- The ends and head of internal partitions are to be securely fixed to stud work, joists and noggings.
- Specialised timber frame wall ties are to be provided at Max. 600cns horizontally & 375cns vertically. Spacings in accordance with DD140 Part 2 recommendations for design of wall ties, additional wall ties around openings/movement joints at 225cns vertically and no more than 225mm from edge, all in accordance with BS 5628 Cl.29.1.5.
- Full depth blocking should be installed below all internal non-loadbearing partitions.
- All timber shall be treated with an approved preservative as recommended by the British Wood Preserving Association standard C9 appropriate to the timber component and condition of exposure.
- Multiple studs should be provided below points of load generated from multiple girder trusses. Min. 2No. studs should be provided below 2 ply girders. Min 3No. studs should be provided below 3 ply girders
- All main structural timbers to be of strength class C16 or better, in accordance with BS 5268: Part 2 2002 at a moisture content of 20% or less at time of installation. Unless noted otherwise.

SER CERTIFICATION REQUIREMENTS FOR CONTRACTOR DESIGN ELEMENTS

All designs are to be carried out in accordance with the Building (Scotland) Act 2003 and Building Regulations (Scotland) 2007 and all amendments.

Contractor designed structures are to be carried out by specialist designers chosen by the main contractor or their sub-contractor and agreed by the main contractor. Clancy Consulting Ltd are registered with the Structural Engineers Registration Ltd (SER) Scheme and will require to certify the building structure as a whole under the Building (Scotland) Act 2003. Contractor design elements are covered by 'Form Q'.

All design work carried by specialist designers will require to be submitted to Clancy Consulting Ltd to be checked for compliance with our performance specification and for consistency with the overall design. Any divergence from this will require an amendment to warrant. Should inadequate information be provided during the construction phase we shall not be able to complete Form Q for submission to the Council, and as such they will not issue a completion certificate for the project.

Submission of Structural Designs

The following information must be submitted to Clancy Consulting Ltd for checking and confirmation of acceptance prior to construction. In the absence of appropriate and relevant BBA certification or similar published material, the following requires to be provided.

- Full calculations for all elements and connections are to be prepared and checked in house by suitably qualified and experienced engineers prior to their submission to the certifier.
- Notification of experience and qualifications of the designer and checker (cv).
- Fully complete layout drawings and details showing the construction implementation of the design, which have been checked and signed off 'in house', must accompany the calculations.
- All references and design data must be included in the submission pack.
- All site data and installation records that relate to and/or affect the designs must be submitted.

The submissions must be clear and easily followed to allow a smooth turn around period. The turn around period is expected to be two weeks assuming the submissions to be of a standard that can be certified, liaison directly with the certifier is essential to ensure the process is completed as efficiently as possible.

It is important to ensure that the submissions generate a minimum of feedback from the checking process, as each round of query answer exchanges may significantly delay the construction process.

Submissions, which are not project specific, unclear or unchecked, will be returned without certifier review. No further action will follow until the submission is brought up to an appropriate standard.

Design Liability

The structural design certification process is for building warrant purposes only and does not relinquish the designers or any responsibility, in any way, to their client in terms of their liability for their designs. By undertaking their designs, it is taken that the designers have accepted that they are duty bound to their client to use all reasonable skill and care in their work. Clancy Consulting Ltd will not accept any liability in any respect for the designs produced.

	- DENOTES CDM RESIDUAL RISK.
NOTE CONSTRUCTION RISK - TEMPORARY NEEDLING AT SLAPPINGS	
CONTRACTOR TO PREPARE RAMS FOR DESIGN AND TEMPORARY WORKS AND HAVE APPROPRIATE HEALTH AND SAFETY PRECAUTIONS IN PLACE FOR THE WELFARE OF PERSONNEL INVOLVED, IN ACCORDANCE WITH CDM REGULATIONS 2015	

KEY	
SLAPPING - 2No. 152x89x16 UB'S BOLTED TOGETHER VIA M16 LONGBOLTS & TUBE FERRULES @ 400mm CRS	
PS1 - 215x150x150 d/p C28/35 CONCRETE PADSTONE.	

	DENOTES ASSUMED SPAN OF FLOOR JOISTS ABOVE FROM SITE INSPECTION
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GENERAL NOTES

- All dimensions are in millimetres unless noted otherwise. No dimensions to be scaled off this drawing. All dimensions to be checked on site prior to ordering materials.
- This drawing to be read in conjunction with all relevant Architect's, Engineer's and Specialist's drawings and the Contract Specification. The Engineer is to be advised of any discrepancies encountered on site during construction works.
- The Contractor is responsible for the accuracy of all dimensions and correct setting out and erection of structural elements on site, including the provision of such measures as are necessary for the temporary stability of the structure during erection.
- All proprietary products to be fitted in strict accordance with the manufacturers written instructions.
- Details of d.p.c., d.p.m., extent of facing brickwork etc. to be taken from Architect's drawings and fully agreed before construction commences.

MASONRY NOTES :

- Blockwork (if required) to be Dense Concrete Block to BS 6073. Minimum strength 7N/mm² (unless noted otherwise), built in 1:1:6 mortar.
- Existing services should be located and clearly marked prior to commencement of works.
- New masonry to be bonded to existing by a proprietary wall starter system. Cathnic type stronghold or equal approved fixed in accordance with manufacturer's recommendations.
- Wall ties to be in accordance with BS EN 845-1:2003 embedment of 50mm in mortar beds staggered in alternate courses 600mm horizontally and 450mm vertically. Additional ties provided at openings within 225mm of unbonded reveals every course.

Rev	Date	Description	By	Check	App.

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Client	MALCOLM ASSOCIATES LTD	
Project	PROPOSED ALTERATIONS, 78 Highburgh Road, Glasgow	
Office	PRESTWICK	
Discipline	STRUCTURAL	
Title	EXISTING + PROPOSED STRUCTURAL FLOOR PLANS, DETAILS + NOTES	
Drawn	KS	Date 14/04/2023
Checked	DCr	Scale @ A2 AS SHOWN
Approved		Status WARRANT



Job number	Drawing number	Revision
14-17151	S-001	

Birmingham 0121 230 7800, Glasgow 0141 222 1720, Liverpool 0151 227 5500, London 020 3077 0870, Manchester 0161 613 8000, Newcastle 0191 221 0702, Norwich 01603 309190, Preston 01792 475375, Reading 0118 941 7888