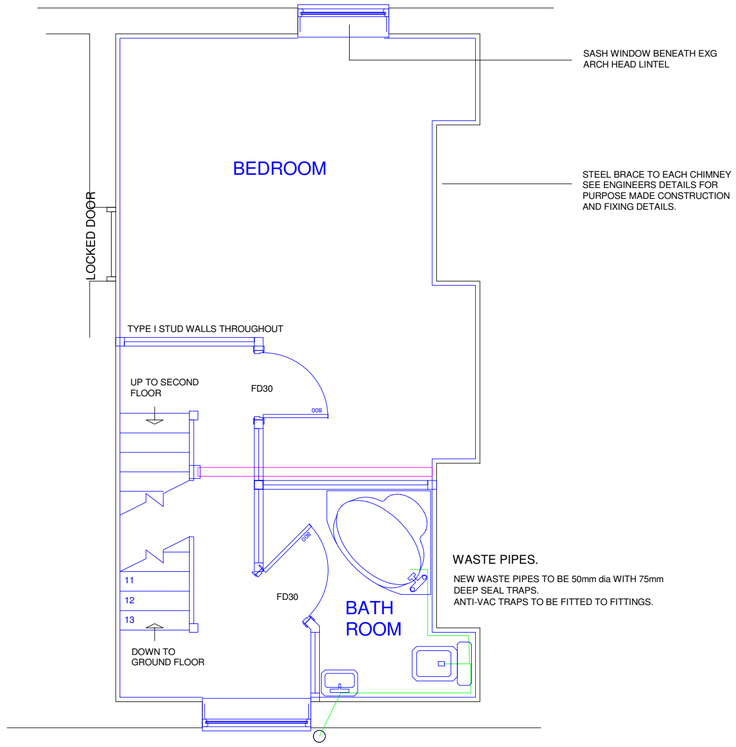
PROPOSED FIRST FLOOR PLAN

NOTE THAT THE FLOOR JOIST LAYOUT WILL NOT BE ALTERED.
THIS IS A LISTED BUILDING AND CANNOT BE DISTURBED EXCEPT FOR STUDYING THE STRUCTURE.
MODEST REPAIRS WILL BE ALLOWED SUBJECT TO THE ASSOCIATED STATEMENTS AND DETAILS.



BALANCED FLUE BOILER DETAILS.

BOILER WILL BE LOCATED IN GROUND FLOOR REAR ANNEXE.
IN THE EVENT OF A NEED TO REPLACE OR PROVIDE A NEW BOILER, NEW REGULATIONS ARE APPLICABLE. THE BOILER/GAS APPLIANCE WITH BALANCED FLUE AND A CAPACITY OF 7-14kW WILL REQUIRE CLEAR 600mm AIR SPACE AROUND THE FLUE OUTLET. OTHER TYPES OF GAS APPLIANCES ARE AFFECTED AND IT IS ADVISEABLE THAT THE MANUFACTURERS SPECIFICATIONS BE ADHERED TO. ALTERNATIVELY REFER BACK TO ARCHITECT PRIOR TO INSTALLATION. ANY REPLACEMENT BOILER TO BE CONDENSING TYPE.

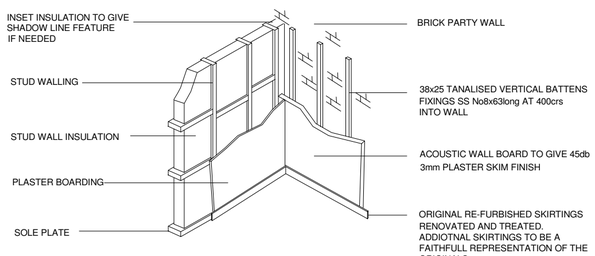
COMMISSIONING OF HEATING SYSTEMS

THE SPACE HEATING AND HOT WATER SYSTEM MUST BE INSPECTED AND COMMISSIONED TO ENSURE THE RELEVANT REQUIREMENTS OF L1(b) AND (a) HAVE BEEN COMPLIED WITH. UPON COMPLETION OF THE INSTALLATION THE PERSON RESPONSIBLE FOR ACHIEVING THE COMPLIANCE MUST PROVIDE THE CLIENT AND THE COUNCIL WITH A CERTIFICATED STATING THAT SUCCESSFUL COMMISSIONING HAS BEEN CARRIED OUT. THE PERSON GIVING THE CERTIFICATE MUST HAVE A RECOGNISED QUALIFICATION.

THE COMBUSTION INSTALLATION MUST BE CHECKED BY QUALIFIED INSTALLER AND A REPORT DRAWN UP SHOWING THAT MATERIALS COMPONENTS AND FLUES HAVE PASSED RELEVANT TESTS. REPORT COPIES TO BE GIVEN TO CLIENT AND THE COUNCIL.

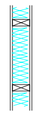
FOR THE PURPOSES OF DETERMINING THAT THE COMBUSTION APPLIANCES CAN BE SAFELY INSTALLED, WHERE A HEARTH AND FIREPLACE OR CHIMNEY IS PROVIDED OR EXTENDED A DURABLE NOTICE CONTAINING INFORMATION ON THE PERFORMANCE OF HEARTH FIREPLACE OR CHIMNEY MUST BE AFFIXED IN A SUITABLE PLACE WITHIN THE BUILDING.

THE OWNER/OCCUPIER OF THE BUILDING MUST BE PROVIDED WITH SUFFICIENT INFORMATION WITH THE RELEVANT SERVICES SO THAT THE BUILDING CAN BE OPERATED AND MAINTAINED IN SUCH A MANNER AS TO USE NO MORE ENERGY THAN IS REASONABLE IN THE CERCUMSTANCES.



ACOUSTIC WALL BOARD AND STUD WALL INDICATIVE

STUD WALL TYPE 1



50x75 C16 TIMBER STUDS AT 400crs (VERT & HORIZON).
67 ROCKWOOL ACOUSTIC SLAB
13mm PLASTER BOARD EACH SIDE WITH 3mm PLAST. SKIM.

FIRE RESISTANCE = 30mins
ACOUSTIC ISOL'N = 44dB

INNER & OUTER SURFACES	= 0.18
	= 0.114
INSULATION 0.075/0.035	= 2.14
PLASTER BOARD 0.026/0.16	= 0.16
	2.594
'U' VALUE = 0.38W/sqmK	

TIMBER STUD CONSTRUCTION

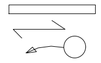
ALSO LOOK AT CONSPECTUS STUD WALL TYPE 1 & 2
DRG. SYMBOL

50x100 C16 TIMBER FRAMEWORK SET 400mm APART AND BOTH SIDES PLATED WITH PLASTER BOARD AND WITH 5mm PLASTER FINISH.
NOTE THAT WALLS SHALL HAVE 100mm FIBREGLASS INFILL AND 15mm PLASTER BOARD FOR SOUND INSUL.
PLASTER BOARD FIXINGS TO BE 50mm GALV. NAILS AT 250mm crs.
STUD WALL AT FIRST AND/OR SECOND FLOOR LEVEL TO BE BUILT ON A TRIPPLE JOIST.

BEAM AND STRUCTURAL NOTE

FOR STRUCTURAL CALCULATION PURPOSES ALL THE MAJOR STEEL AND/OR TIMBER BEAMS WILL CARRY DEAD AND IMPOSED LOADS FROM WALLS, FLOORS AND ROOFS BASED ON THE SPANS INDICATED ON THIS PLAN OR ASSOCIATED PLANS.
IN SOME CASES THE CALCS MAY SHOW A DIFFERENT OR ASSUMED SPAN FOR THE PURPOSES OF CALCULATING WORST CASE LOADING PATTERN.
DEPARTURES FROM APPROVED CALCULATIONS ARE NOT PERMITTED.

NOTE THAT WHERE A BEARING SIZE IS GIVEN THEN THIS WILL BE THE MINIMUM PERMITTED AND THAT THE CONTRACTOR SHALL WHERE SPACE IS AVAILABLE FIT A LARGER SIZE PADSTONE.
WHEN PURCHASING BEAMS THE CONTRACTOR SHALL USE SITE MEASUREMENTS FOR LENGTHS OF BEAM.
FOR THE PURPOSES OF SAFETY, THE BUILDER SHALL ALREADY HAVE KNOWLEDGE OR OBTAIN KNOWLEDGE IN RESPECT TO THE HANDLING AND INSTALLATION OF THE VARIOUS ITEMS INVOLVED IN THE CONSTRUCTION.



STRUCTURAL USE OF TIMBER

ALL STRUCTURAL TIMBER MEMBERS ie. JOISTS, RAFTERS, PURLINS, LINTELS, TRIMMERS, TIMBER TIES ETC. SHALL BE IN ACCORDANCE WITH BS 5268-2:2002.
TIMBERS USED SHALL BE C16min FROM SUPPLIES THAT WERE STAMPED 'DRY' or 'KD'. (REF. TO ANY CALCS)
TIMBERS USED SHALL BE FROM GRADE STRESSED STOCK.
MAXIMUM THICKNESS OF ANY MEMBER TO BE 100mm AND MAXIMUM DEPTH OF ANY MEMBER SHALL BE 300mm.
ANY NOTCHES IN A TIMBER MEMBER SHALL BE LIMITED TO MAX. 1/8th DEPTH, BE BETWEEN 1/20th & 1/4 OF SPAN FROM A SUPPORT. DRILLED HOLES TO BE AT THE MIDDLE AXIS OF MEMBER AND NOT MORE THAN 1/4 OF DEPTH, NOT LESS THAN THREE DIAMETERS APART, & BE BETWEEN 0.25 AND 0.4 SPAN.
NAILED JOINTS TO HAVE MIN. 2 SCEW DRIVEN NAILS.
WHERE BEAMS AND TRIMMERS ARE BOLTED TOGETHER THEN THE PREFARED BOLT SIZE IS M16 WITH NUT AND WASHER AND 400mm APART.

KEITH SWAIN DESIGN

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DRAWING NUMBER	P 13162

PROPOSED DEVELOPMENT

REFURBISHMENT OF LISTED BUILDING

AT

31 LIVERPOOL ROAD
MANCHESTER

SCALES 1 : 50	sht 4