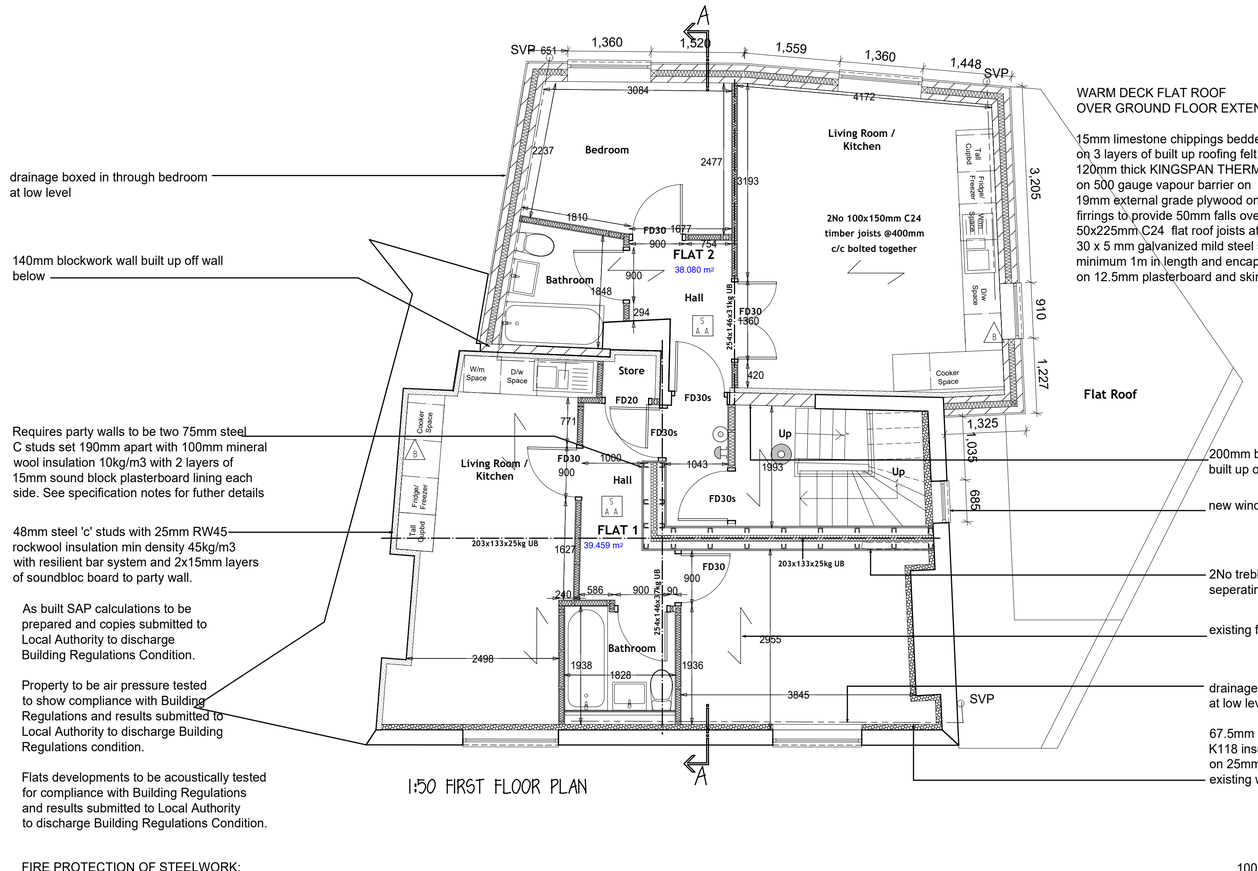
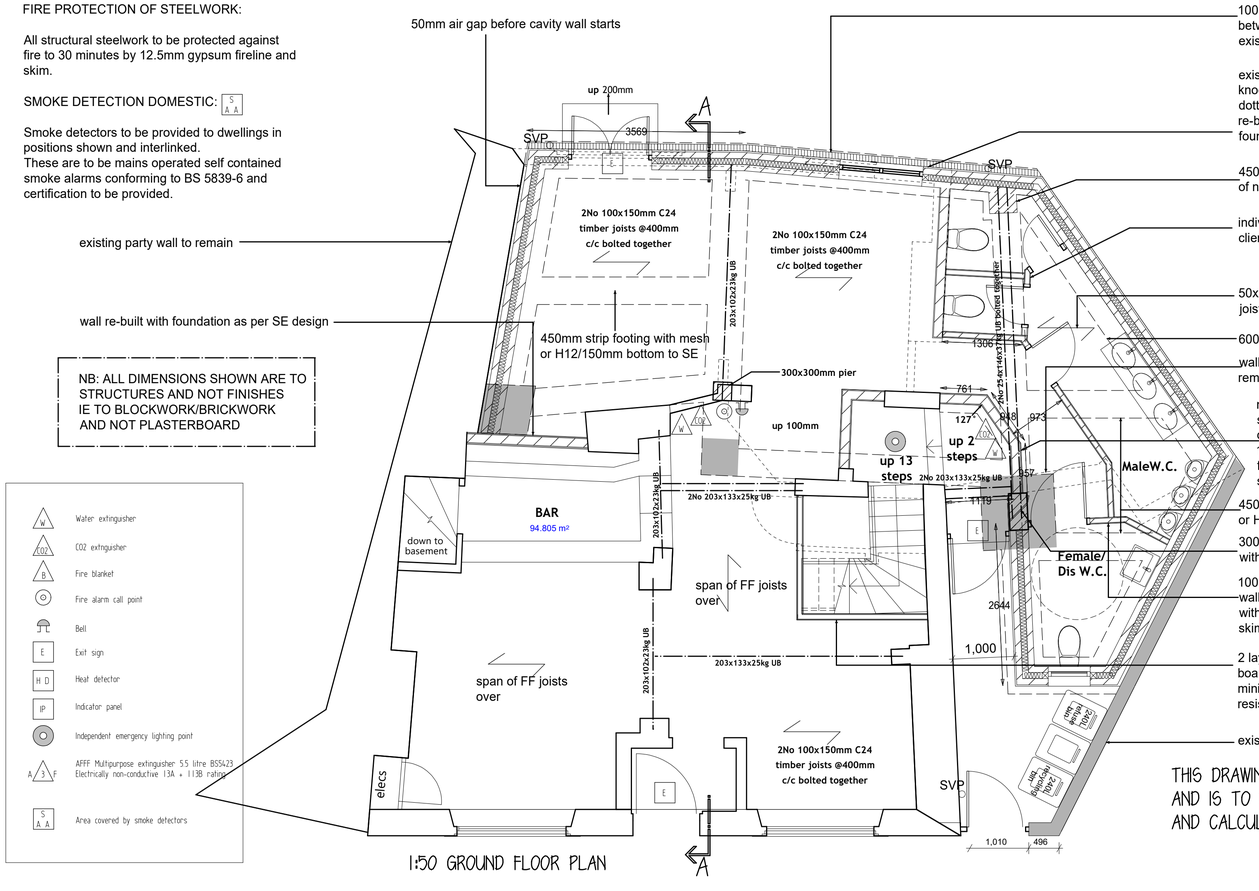


FIRE PROTECTION OF STEELWORK:

All structural steelwork to be protected against fire to 30 minutes by 12.5mm gypsum fireline and skim.

SMOKE DETECTION DOMESTIC: S A A

Smoke detectors to be provided to dwellings in positions shown and interlinked.
These are to be mains operated self contained smoke alarms conforming to BS 5839-6 and certification to be provided.



FOUNDATIONS:

Foundations requirements to be determined once trenches have been dug and inspected.

Foundations to be as per below unless the Building Inspector requests otherwise (through SE design if necessary)

600mm wide strip or trench fill foundations to cavity walls, 450mm wide to internal walls (unless otherwise stated), being located centrally beneath walls, and not less than 200mm thick. Foundations to go to invert of 1.0m below measured level and to suitable load bearing strata - and to the approval of the Local Building Inspector.

Concrete to be composed of Portland cement to BS EN 197 -1 and -2 and fine and coarse aggregate conforming to BS EN 12620.
Mix to conform to either: -
(i) in proportion of 50kg of cement to not more than 0.1 cubic metres of fine aggregate and 0.2 cubic metres of coarse aggregate,
OR
(ii) Grade ST2 or grade GEN I concrete to BS 8500-2

SINGLE STOREY ECCENTRIC:

600mm wide eccentric foundation to boundary wall. no part of the new works to oversail the boundary.

TWO STOREY ECCENTRIC:

750mm wide eccentric foundation to boundary wall. no part of the new works to oversail the boundary.

BEAM AND BLOCK GROUND FLOOR: 0.22W/m²K (min)

Ground site strip to be treated with weed killer
65mm sand cement screed on
150mm CELOTEX XR4000 insulation board
on minimum 300 micron/1200 gauge polythene dpm, continuous with DPC on beam and block flooring to manufacturers specification.

See section drawing for specification of seperating floor and UK building Compliance report

CAVITY PARTIAL FILL EXTERNAL WALLS : 0.15W/m²K

103mm thick leaf of external facing brickwork,
100mm wide cavity filled with
100m KNAUF DriTherm 32 ultimate insulation board
100mm thick dense aggregate blockwork with a minimum 7kN compressive strength unless otherwise stated.
12.5mm plaster finish to internal surfaces of all walls.
Stainless steel cavity wall ties to table 5 of Part A of the Approved Documents to BS 845-1:2003, maximum spacing 450mm vertically and 900mm horizontally.
not more than 300mm apart vertically within a distance of 225mm from vertical edges of all openings, movements joints and roof verges.
No cavity ties to be set at dpc level.
Proprietary Approved cavity wall closers to be used at all opening reveals.
Vertical DPC to all openings being of 2000 gauge polythene tacked to frames or patent PVC cavity closer attached to frames.
Cavity wall insulation to finish below dpc level.
Cavity to be filled with lean mix concrete to 150mm below DPC line.
Horizontal HYLOAD DPC or similar approved to be 150mm above external ground level continuous with dpm.
Walls below dpc level to be of masonry units suitable for use below ground level.
All frames to be mastic pointed.

LINTELS:

Lintels to be provided over openings in all walls, both internal and external. All lintels to be designed and manufactured by I.G. Lintels Limited or other Approved Manufacturer.
All lintels to have integral insulation and to receive cavity trays.
End bearings not to be less than 150mm unless otherwise specified.
all existing lintels to be checked for integrity and replaced if necessary

0 1 : 50 5m

At 1:1 this bar should be 10cm long

EXISTING EXTERNALL WALLS INTERNALLY DRY-LINED = 0.26W/m²K

25x50mm vertical battens at 600mm centres with horizontal members at floor and ceiling level fixed to internal face of existing brickwork to provide minimum 25mm airspace.
67.5mm thick KINGSPAN KOOLTHERM K118 Insulated Drylining Board' fixed to battens with drywall screws at 150mm centres providing minimum 25mm fixing into timber. Screws to be kept minimum 10mm away from edges of insulation boards.
Proprietary plaster skim coat to finish.

INTERNAL WALLS:

SOLID WALLS:

Unless otherwise noted on the drawings walls to be 100mm thick lightweight concrete blockwork with 12.5mm plaster finish to both sides. Walls below dpc to be constructed from brickwork/ blockwork suitable for use below ground. DPC to be as external wall note.
2 course deep precast concrete lintels over openings formed in blockwork walls

PARTITION WALLS:

12.5mm plasterboard and skim to both sides of 75mm x 50mm soft wood studding.
50mm acoustic quilting set between studs

See notes on plan for details of fireline board around staircase / communal lobbies. 60mins min around staircase

SEPARATING WALLS BETWEEN FLATS AND FLATS AND COMMUNAL STAIRCASE/ LOBBY

Separating walls to have two 75mm steel C studs set 190mm minimum distance apart with 100mm mineral wool insulation 10kg/m3 with 2 layers of 15mm sound block plasterboard lining either side

Separating (including corridor walls to be lined with two layers of 15mm sound block plasterboard, with either taped and filled joints finished with drywall primer or 3mm plaster skim.
All strictly in accordance with Robust Detail E-FS-1 & acoustician's requirements

Walls:- E-FS-2 = Requires party walls to be two 75mm steel C studs set 190mm apart with 100mm mineral wool insulation 10kg/m3 with 2 layers of 15mm sound block plasterboard lining each side. Include for deflection head. All junction details as per robust details & specialist acousticians advice / details are recommend to be sort.
Party walls / floor will be subject to sound testing & any upgrading required will be at the contractors expense.

Refer to Robust Detail E-FS-2 to ensure full compliance.
Separating walls to be taken to roof covering and fire stopped with mineral wool or similar. Mineral wool fire stopping to extend into eaves cavity in line with party wall.

TIMBER SUSPENDED FLOOR FIRST FLOOR

22mm C5 chipboard laid over
timber joists to SE design with preferred 150mm max depth
with 12.5mm plasterboard and skim to finish
100mm Rockwool Acoustic or similar approved quilting laid between joists to ceilings doubled up joists under first floor walls, under baths and around stairwells.

LATERAL RESTRAINT:

Where floor joists run parallel to walls, to be secured to these at 1.8m centres using 30 x 5mm galvanized ms straps, floor joists to be nogged out between.

STRUTTING
Herringbone strutting or solid blocking
should be provided at ends of joists
where they :-
bear onto steelwork
bear onto intermediate walls
are supported on joist hangers
where joists span over 2.5m
additional strutting should also be specified as follows
joist span
under 2.5m none needed
2.5m to 4.5m 1 at centre of span
over 4.5m 2 at equal spacing

SEPARATING FLOOR BETWEEN PUB AND FLAT 1&2

To be determined following sound specialist input

SEPARTING FLOOR BETWEEN FLATS:

To be determined following sound specialist input

PITCHED ROOF INSULATION AT RAFTERS 0.15W/m²K

Roof tiles to suit existing pitch fixed to
Proprietary sw tiling battens fixed in accordance with BS8000-6:1990 on
38x38mm counter batten on 'KINGSPAN NILVENT' breather membrane
75x150mm C24 timber rafters as per SE calcs
with 203x203x71kg UC steel ridge beam
100mm K7 Roof Board between rafters and 62.5mm K118 Insulated plasterboard and skim to finish to the u/s
Pitched Roof board inbetween joists fitted in accordance with manufacturers recommendations
A further 15mm soundbloc board to u/s.
Valley conditions to be formed from code 5 lead on 19mm external grade plywood,
Tilting fillet to be provided to ends of rafters.
Eaves carrier strips to be fitted to tilting fillets under NILVENT membrane
and to be lapped into gutters.
Timber wall plates to be 100 x 63mm
Wall plates and trusses to receive lateral support in accordance with Part A of the approved documents.
Vertical and horizontal strapping to be
30 x 5mm proprietary galvanised straps minimum
1m in length and set at maximum 2m centres.

APPROVED DOCUMENT G LEGISLATION
G1 - wholesome water must be provided where drinking water is drawn, supplied to any washbasin in or adjacent to a room containing a sanitary convenience and be supplied to any washbasin, bidet, fixed bath and shower in a bathroom or to any sink where food is prepared.

Water of a suitable quality must also be supplied to any sanitary convenience with a flushing device. These devices can be served with water from other sources which would not usually be deemed wholesome.

G2 Please refer to the printout detailing the anticipated water usage for the new development.

G3 Heated wholesome (or softened wholesome) water is to be supplied to any wash basin, sink, bath , bidet (in or adjacent to a room containing a sanitary convenience) or shower.
All baths to have a temperature regulator fitted to ensure the water temperature does not exceed 48°C.

Hot water systems (inclusive of storage and expansion tanks) are installed with features that resist the effects of any temperature or pressure that may occur in normal use or in a reasonably anticipated malfunction. There should be safety features also in the design to ensure that the water in the system never exceeds 100°C. Any safety devices designed to alert the end user of a malfunction in this area are to be easily noticed yet will not cause danger to any persons in or about the building.

G6 A sink must be provided with all legislation of the former clausesin an area where food is to be prepared.

THIS DRAWING HAS BEEN CREATED USING DRAWINGS COMPLETED BY OTHERS AND IS TO BE READ IN CONJUNCTION WITH THE STRUCTURAL ENGINEERS DESIGN AND CALCULATIONS AND SOUND SPECIALIST DESIGN

rev	date	description
a	29/09/21	drawing updated following conditional approval and SE calcs
b	23/02/22	minor amendments following structual info

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Client: MR SHANE WEST
Project Title: PROPOSED EXTENSIONS & ALTERATIONS
DOG & GUN
MANSION STREET, HINCKLEY
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