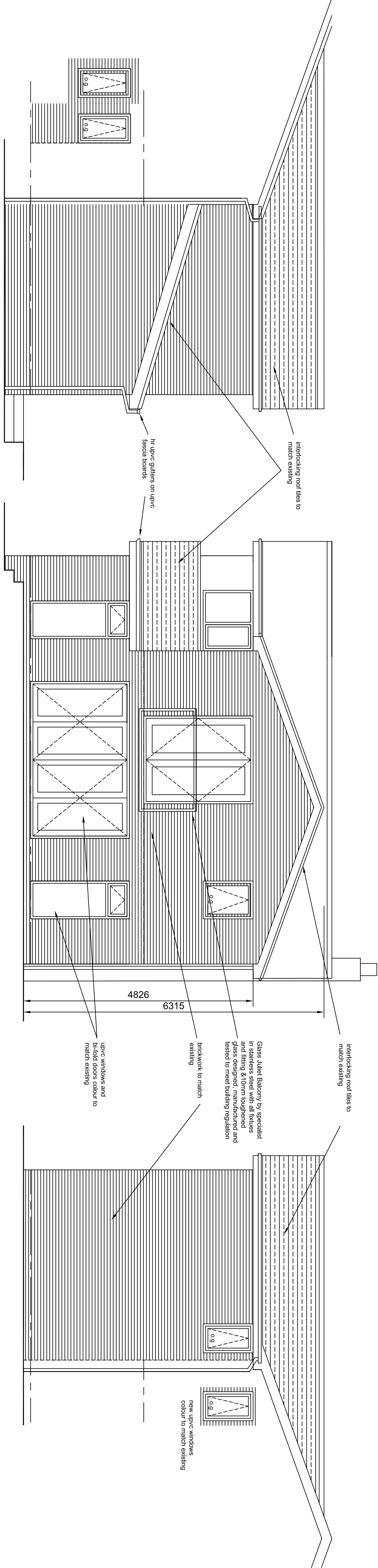




SPECIFICATION NOTES
FOUNDATIONS:
New foundations to be 600x150mm thick strip footings taken down min 750mm below ground level

FLOOR TO NEW EXTENSION:
to comprise 75mm thick proprietary quick drying screed with oriented strand reinforcement on building paper on 75mm Kingspan Thermafloor T1770 insulation board on 125mm insitu R/C concrete slab on visqueen zedex 2000 gauge gas membrane on 50mm sand blinding on min. 150mm well consolidated hardcore. To achieve max u value of 0.22W/m² K.

EXTERNAL WALLS:
Cavity wall construction: 100mm brick facings externally (to match adjacent); 100mm cavity containing 55mm Kingspan Thermawall TM50 zero OP; partial fill insulation: 100mm thick blockwork (7N/m² strength, 1400kg/m³ density, 0.51W/mK thermal conductivity); blockwork to have Catlle plaster finish internally or dot and dab 12.5mm plasterd. All cavities to be closed at top of walls with rockwool rockclose and around openings with insulated thermabate cavity closers or blockwork turned across; stainless steel wall ties with insulation retaining clips at max. 750mm centres horiz and 450mm staggered centres vertically. In/lead or similar dpc, cavity trays to all interruptions of cavity, to achieve u value of 0.28W/m² K. New walls connected to existing walls with stainless steel movement connectors, bolted to existing and built into new walls. * Cavities to be made continuous with the existing

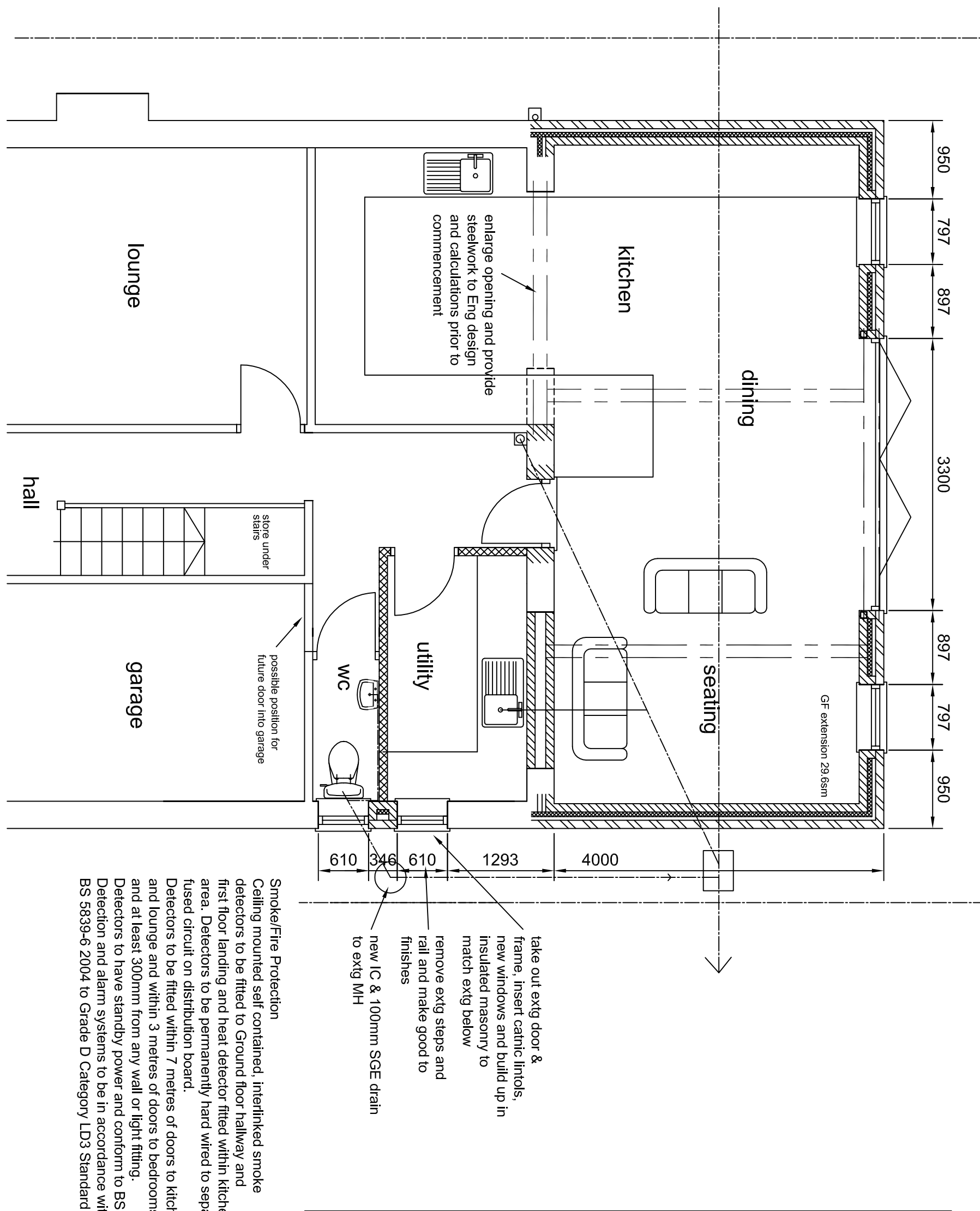
ABUTMENT:
Insert type X remedial cavity trays where new roofs about existing walls and allow for weephholes at approx 900mm centres.
DPCs
Hyload or similar approved to new masonry walls at floor level and 150mm min. above ground level.
WINDOWS/DOORS:
New external alum windows/doors to be double glazed (colour to be dark grey) New window/doors to comply with requirements of Parts K and L1b of the Building Regs with safety glazing to be used in critical locations to comply with Approved Doc and BS 6206.

SPACE AND WATER HEATING:
Existing radiator system to be adapted as necessary to provide heating to new extension from the exstg house. All pipework to be insulated, heating to be thermostatically controlled. Heating system to comply with part L1b of the building regulations.
VENTILATION:
Windows to be min size of 1/10th floor area of room with opening lights to equal min 1/20th floor area. Provide background ventilation by installing trickle vents to achieve 5000m² to all habitable rooms. Mechanical ventilation system to be of an energy efficient type in compliance with Table 3. Provide utility/wc mechanical extract fan giving 30l/s to comply with App Doc F - Ventilation. * 6 Usec fan to WC

proposed side elevation

proposed rear elevation

proposed side elevation



proposed ground floor plan

Structural calculations to be submitted and approved before commencement

HEATING APPLIANCES:

Any work to heating appliances to be carried out by a registered Gas Safe engineer.

VENTILATION:

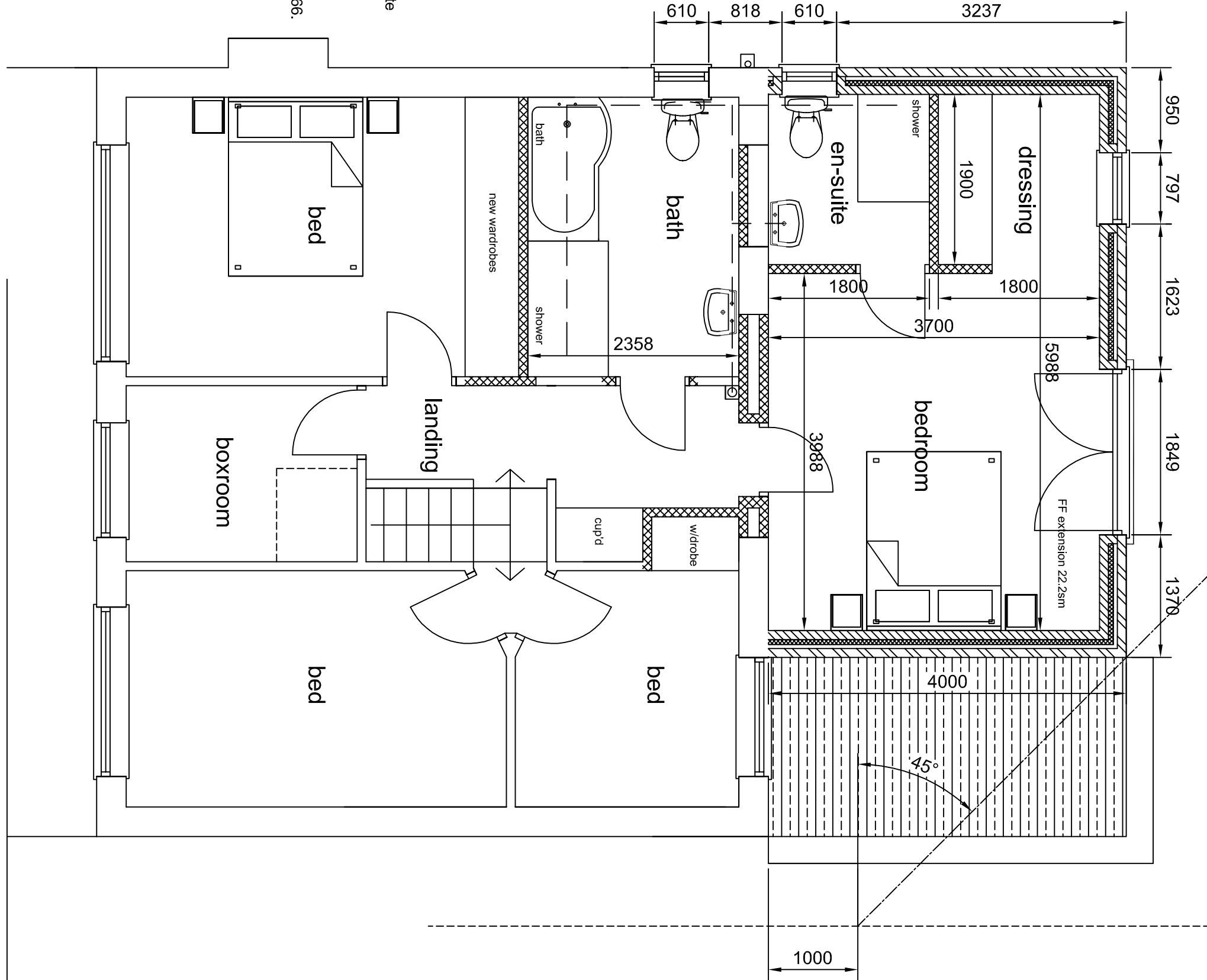
Windows to be min size of 1/10th floor area of room with opening lights to equal min 1/20th floor area

CONSERVATION OF FUEL AND POWER:

Alterations to be designed in accordance with the 2010 edition of building regulations approved document L1B

ABOVE GROUND DRAINAGE:

- All traps to have min. 75mm deep seal. All wastes to connect to either Soil and Vent Pipe or Stub Stack, or discharge into trapped gully.
- Provide new uPVC gutters (to match exstg), mounted level and discharging to new square rainwater pipes, connected directly into surface water trapped gullies.



proposed first floor plan

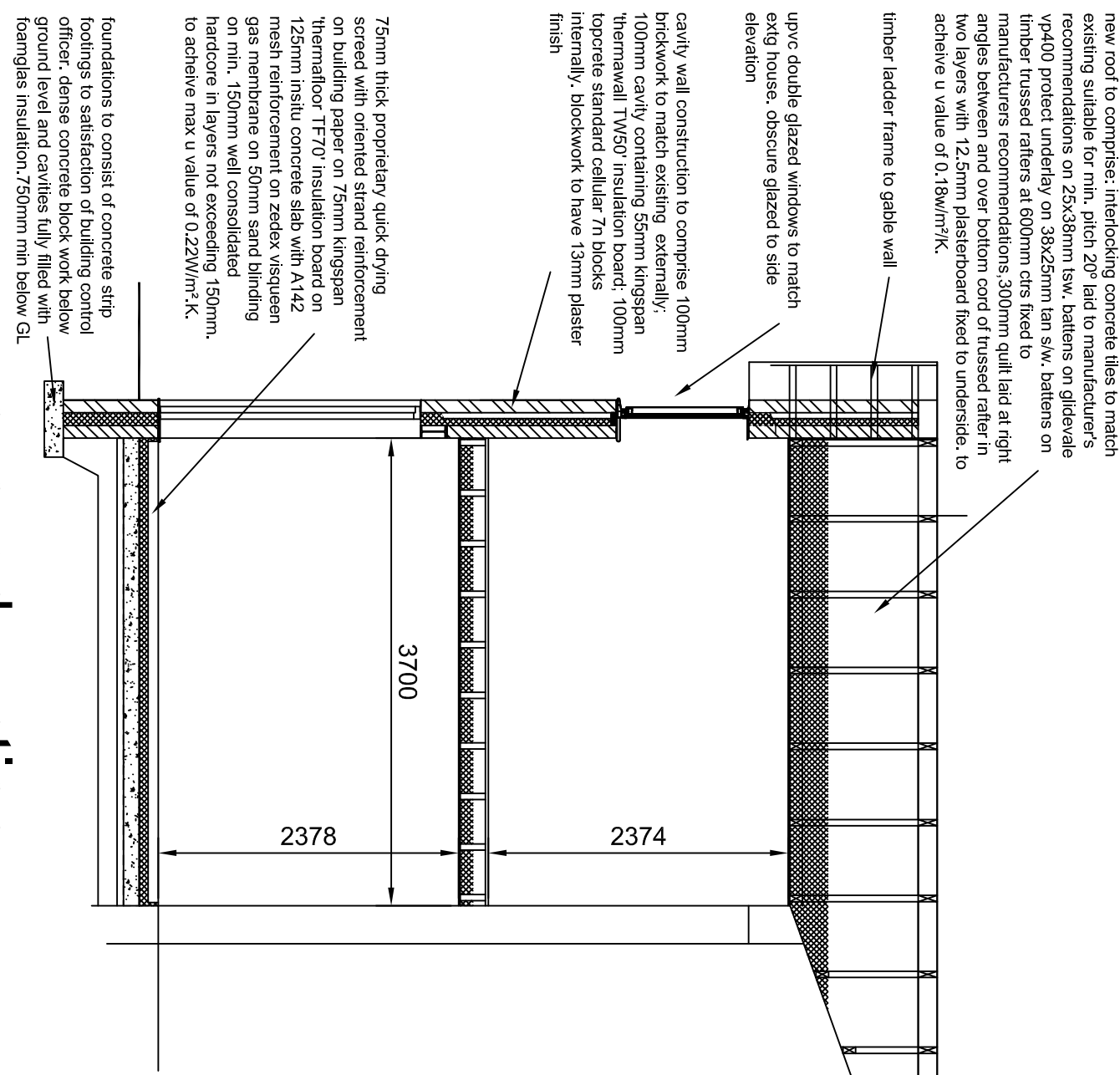
BELOW GROUND DRAINAGE:

- Start of new drains to be either a gully or rest band (from SVP, 100mm²). Pipes to be bedded and backfilled with granular material to BS882, and generally laid to falls of 1:80.
Drains passing under building to be encased all around with 100mm concrete if within 300mm of u/s of slab.
For drains that pass through walls provide openings in wall with r.c. lintels to all leaves, to give 50mm clear space around pipe, to be filled with compressible fill to prevent gas entry.

NEW REAR ROOFS:

new roofs to comprise: Concrete interlocking roof tiles, colour to match existing suitable for min. pitch 17° laid to manufacturer's recommendations on 25x38mm i.s.w. battens on glidvale vp400 protect underlay on 50x38mm tan s/w. counter battens on 125mm thick Kingspan Kooltherm K7 rigid pitched roof board insulation laid above and between 200x50 C16 s/w rafters at 450mm ctrs with * 25mm insulation backed plasterboard under drawing to achieve u value of 0.18W/m² K. Velux roof windows min 1200x600 fixed to manufacturers instructions with proprietary roof fastening. Roof timbers supported on 100x50mm wall plates bedded on wall tops and strapped down to structure with 1200x6mm galv ms straps at 2m max centres provide eaves ventilation equivalent to a continuous 10mm gap by patent means incorporating insect screen and equivalent to 5mm vent gap to ridge. * 50mm air space to be retained above insulation

proposed section



GENERAL BUILDING REGULATION NOTES

- All work to be carried out to the satisfaction of the Local Authority
- 32x6mm M.S. straps to be fixed as lateral restraint to roof joist / wall/wall intersections (ie) where rafters run parallel to walls to comply with Schedule 7.
- Roof void to be vented to CP144 Part 3 1970.
- Cavity barriers required to comply with Reg E.14.
- Where new cavity walls meet existing, cavities are to be connected.
- All cavities closed to comply with Bldg Regs.
- All external door & window openings to have horiz & vertical dpc's.
- Window sizes to give min 1/20th floor area of room for natural ventilation and 1/10th floor area of room for natural light
- Lintels to window & door openings to be patent metal combined lintel (Carnic CH121b) or similar (cris lintel)
- New rainwater goods to match existing (ie):
Hr gutters & mps into trapped gullies.
- Existing heating system extended into new area.
- All foundations to comply with Bldg Regs.
- All foundations within 1m of drain to be taken down to invert of drain.
- Roof ventilators to be provided at the abutment
- Existing roof to be replaced with new roof
- Existing roof to be replaced with new roof
- Concrete lintels to be provided in walls where drains pass through.
- New drainage under building to be encased in 150mm min concrete.
- New drainage to be Thermaflex or similar using flexible joints.
- All dimensions to be checked on site.

REV	DESCRIPTION	CHECK	DATE
1	1.50 @ A1	2137 P/M/02	2137 P/M/02
2	1.50 @ A1	2137 P/M/02	2137 P/M/02
3	1.50 @ A1	2137 P/M/02	2137 P/M/02
4	1.50 @ A1	2137 P/M/02	2137 P/M/02
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