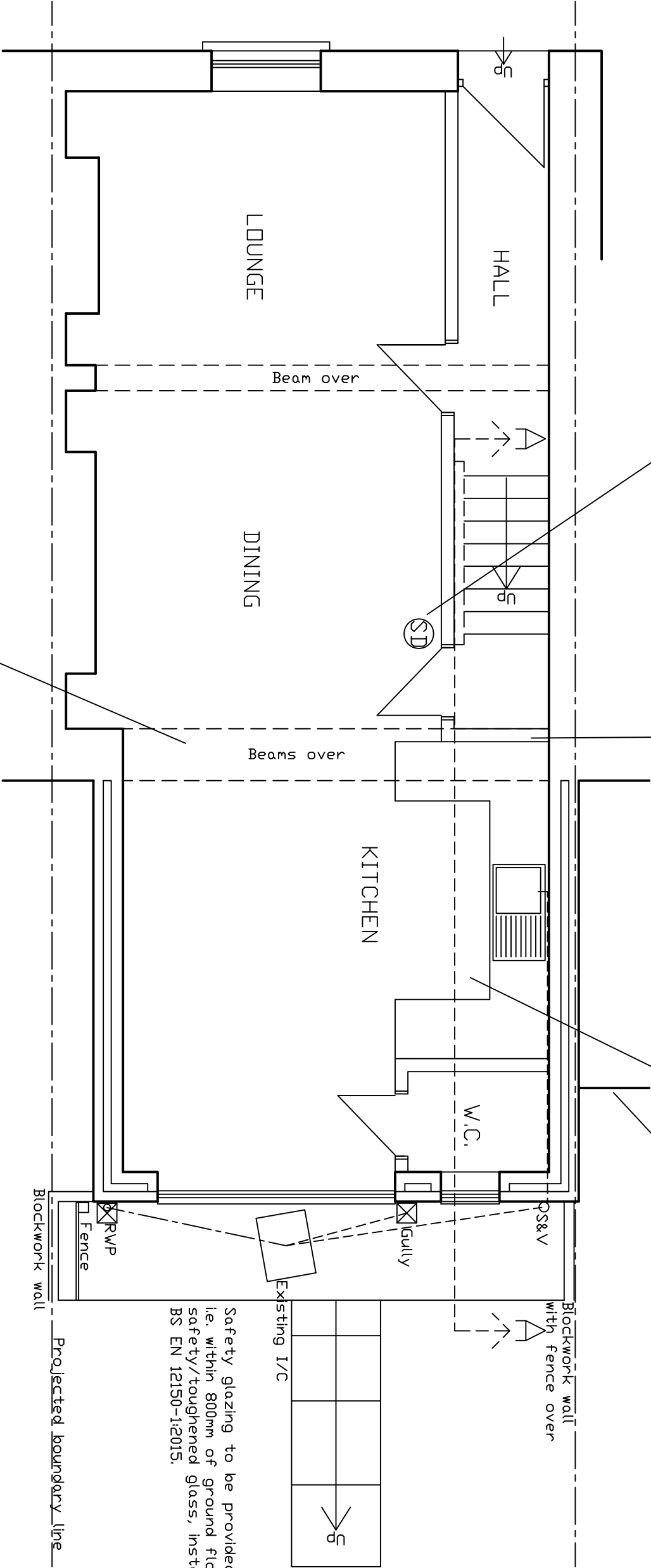


Smoke detectors and fire alarm system to be designed and installed to BS5839 Part 6 : 2013 and to be located at a maximum distance of 7.5 metres from all habitable rooms within ground and first floor circulation spaces to at least a Grade D Category LD3 Standard. All apparatus is to be mains operated and interconnected, each with a battery back-up. Kitchen to be fitted with a heat detector to same specification and positioned 300mm from any walls and/or electrical source. All detectors to be interlinked to respond simultaneously.

Ground floor internal walls to comprise 100mm concrete blockwork with 13mm render/plaster finish to both faces.

Supply and fix wall mounted, low voltage, mains operated mechanical extract vent to kitchen, Xpelair GX6 or similar approved capable of providing a minimum of 60 litres/second extraction rate, which is to be directed and ducted to an external air supply.

Limit of adjacent single storey flat roof extension



Consequential Energy Efficiency Improvements

Loft insulation

If there is no loft insulation or it is less than 200mm thick, provide 250mm insulation or increase it to 250mm.

Wall insulation

If the dwelling has uninsulated or partially insulated cavity walls then fill with insulation where suitable (cavity wall insulation may not be suitable for sites exposed to driving rain) Hot water cylinder Upgrade any hot water cylinder insulation as follows:

- i If the hot water cylinder is uninsulated provide a 160mm thick insulated jacket or
- ii If the hot water cylinder has an insulated jacket of less than 100mm thick, add a further insulated jacket to achieve a total thickness of 160mm or
- iii If the hot water cylinder has a factory fitted solid foam insulation of less than 25mm thick, add an 80mm insulated jacket.

3no. 203x133x30Kg/m universal beams over with min. 150mm end-bearing. See enclosed Engineers calculations. Beam to be encased in Supalux, 15mm fire line board or similar to provide 30 minutes fire resistance.

All new windows to be upvc double glazed with a 20mm air gap and low E glazing. Cavity to be closed at sill level with an insulation block to prevent thermal bridging. Provide Catnic or similar insulated steel lintols over openings with 150mm end-bearing and cavity tray over. Provide lead core or similar insulated dpc around all external openings. New windows to meet 14 W/m²K U value and horizontal and vertical dpc to be provided to all cavity closures such as eaves, cills and reveals throughout the construction.

PROPOSED GROUND FLOOR PLAN

PROJECT

PROPOSED IMPROVEMENTS/ALTERATIONS
2, MOUNT PLEASANT,
BEDLING,
MERTHYR TYDFIL.

DRAWING PROPOSED GROUND FLOOR PLAN

SCALE 1:50 @ A3 DATE MAY 2023

DRAWN RE DRG.NO. 3