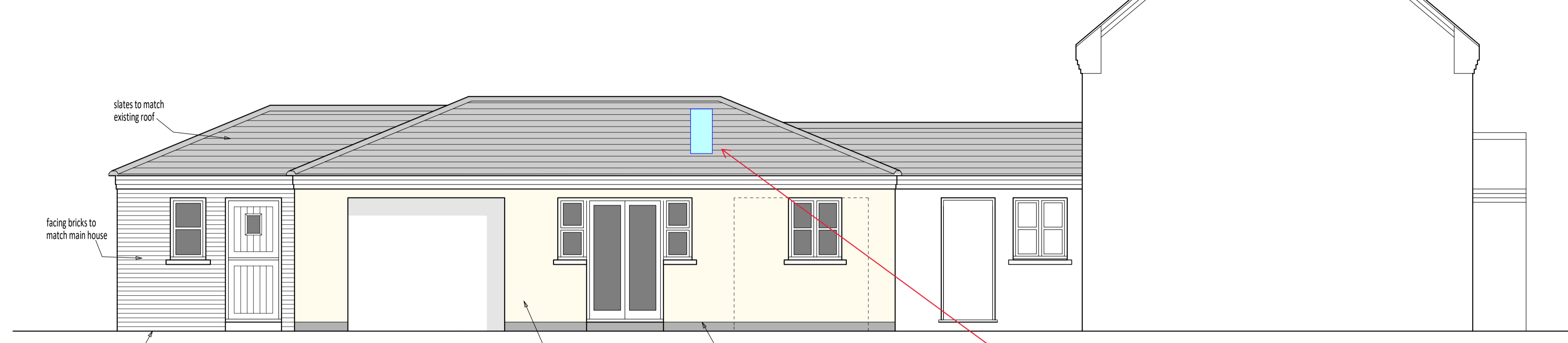
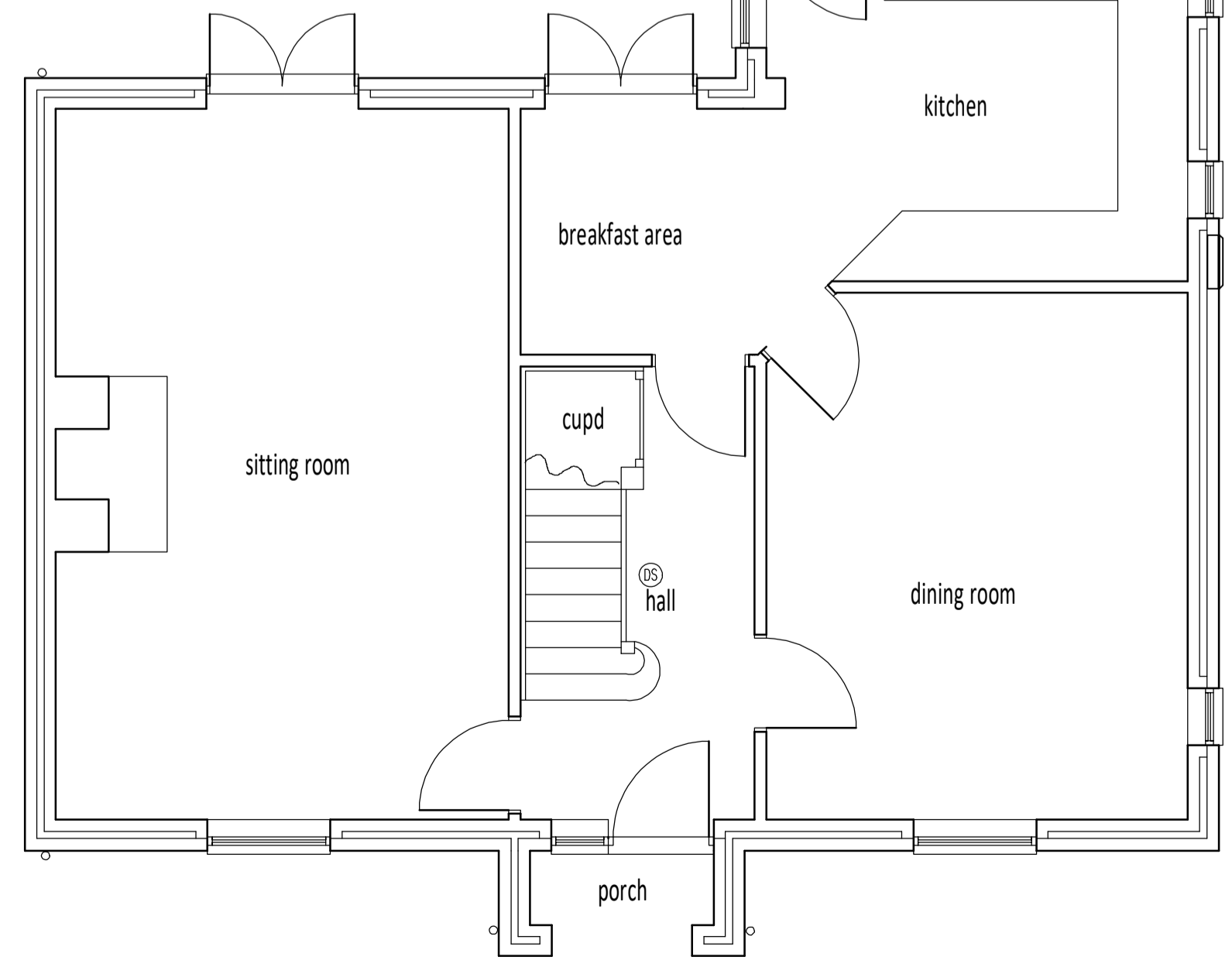
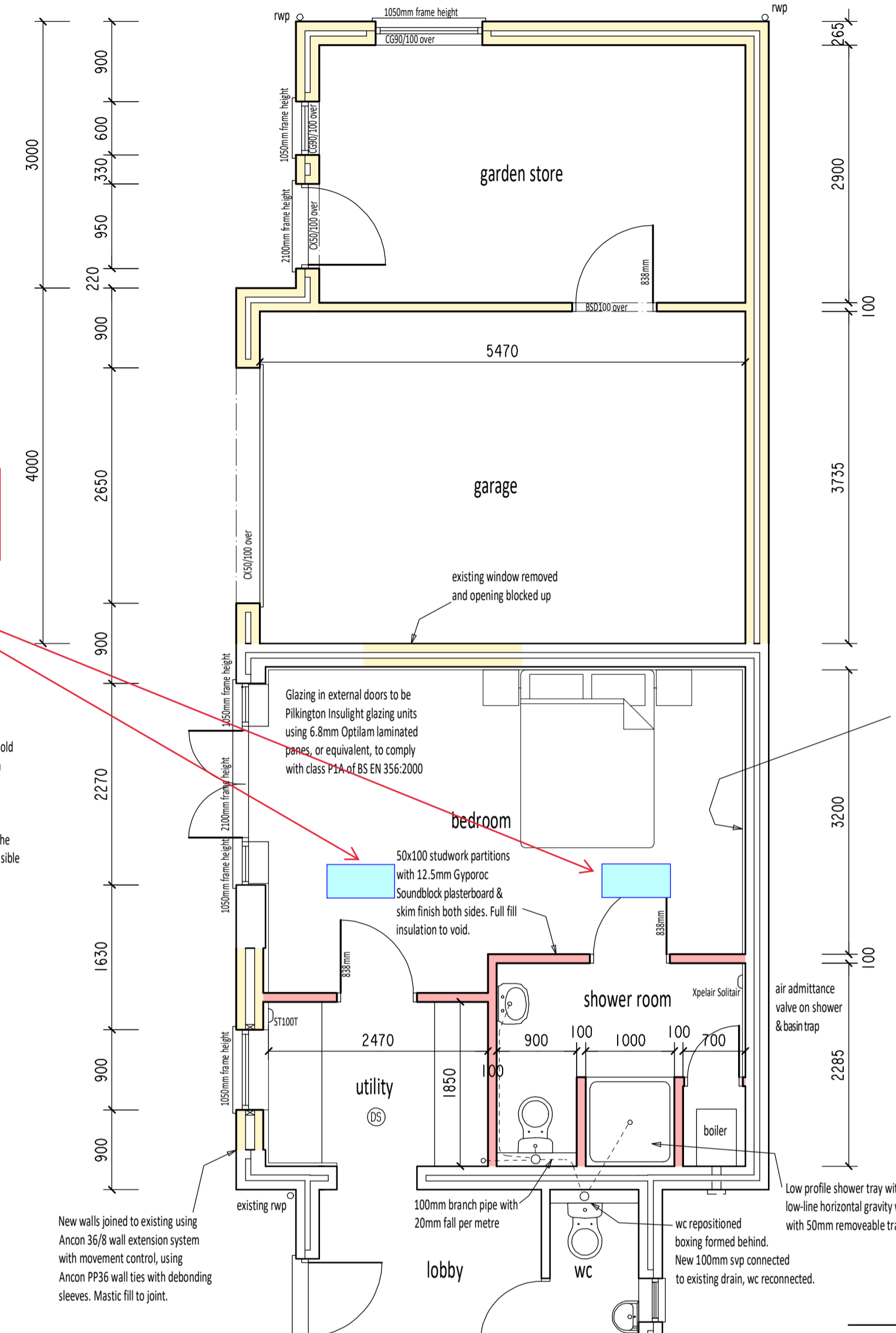
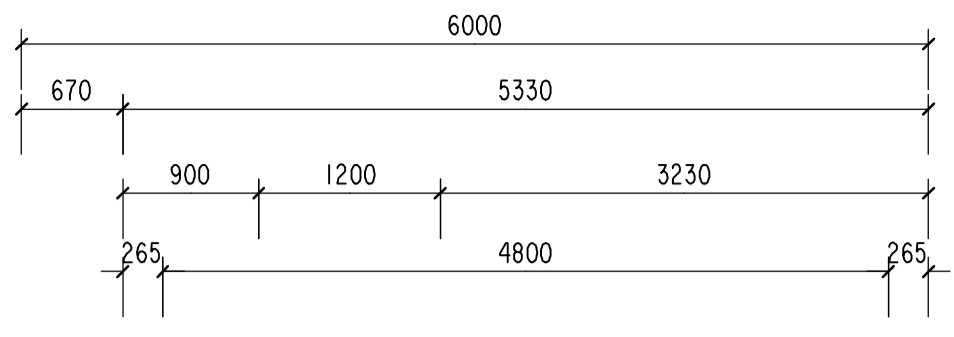


Materials should comply with the appropriate British Standards or Agreement Certificates. Alternatively, the materials should be marked, stamped, independently certified or otherwise justified by test or calculation to show their suitability. Standards of workmanship should meet the relevant BS 8000 series.

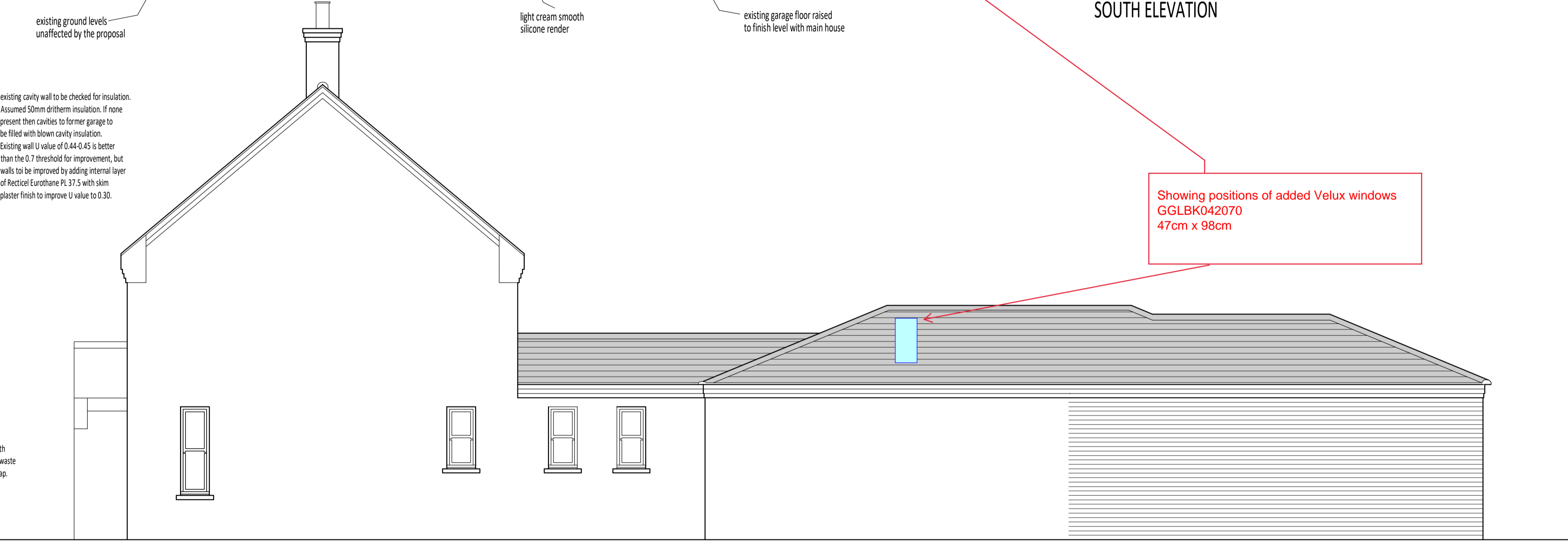
The Construction (Design and Management) Regulations 2015  
Under the CDM regulations, the designer has a duty to ensure that the design pays adequate regard to health and safety. Adequate regard has been taken of this duty, foreseeable risks have been avoided and where it has not been possible to avoid them, information for the contractor, to reduce and control risk, has been added to the drawings.

Showing positions of added Velux windows  
GGLBK042070  
47cm x 98cm

existing concrete garage floor includes dpm but no insulation. Existing U value 1.05 is worse than threshold of 0.70 and needs improving. Floating floor of 22mm 18kg flooring chipboard with fully glued joints over 50mm Recticel Eurothane GP insulation, over sealed vapour barrier and self-levelling screed if necessary, providing U value 0.26, which is slightly worse than the 0.25 requirement but is the maximum insulation possible to keep floors level and therefore complies with Regulation 4.11 table 4.3 (B)  
existing uninsulated garage roof has U value worse than the 0.35 threshold and must be improved, by adding 100mm Knauf loft roll insulation between the ceiling ties and 200mm over the top in the opposite direction, to provide U value 0.34. Roof insulation to link with wall insulation at junction.



SOUTH ELEVATION



NORTH ELEVATION

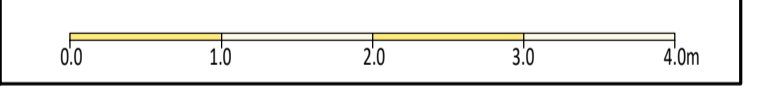


WEST ELEVATION

**NOTES:**  
**PLUMBING:**  
38mm pvc waste pipe to utility, 32mm to basin, with water seal traps and air admittance valve.  
100mm pvc soil branch pipe & stack, terminating 900mm above window head level and fitted with cowl.  
Heating and water pipes extended from existing system.  
All heating & water pipes to be ducted or sleeved to remain accessible.  
New rads from existing system to be fitted with TRV's.  
**VENTILATION:**  
Purge ventilation by opening casement windows and doors.  
Vent area at least one twentieth of floor area of room.  
All new windows to be fitted with 8000mm<sup>2</sup> tricklevent. Utility to be fitted with ST1001 extractor fan or equivalent.  
Shower room, without background ventilation to be fitted with Xpelair Solitair decentralised MVHR unit (or equivalent)  
**SAFETY:**  
⑤ indicates position of interconnected self contained smoke detectors to BS5839-6:2019, permanently wired to a separate fused circuit at the distribution board, with battery backup, linked into existing system.  
**HEAT LOSS:**  
All service pipes and ducts to be sealed around at floor and ceiling levels  
All new light fittings to be Low Energy light fitting (lamp having minimum luminous efficacy of 75 lumens per circuit watt)  
**ELECTRICAL:**  
All electrical work required to meet the requirements of Part P (electrical safety) must be designed, installed, inspected and tested by a person competent to do so. Prior to completion the Council should be satisfied that Part P has been complied with. This may require an appropriate BS7671 electrical installation certificate to be issued for the work by a person competent to do so.  
External lighting, if provided, to be low energy fittings with on-off solar control.

Showing positions of added Velux windows  
GGLBK042070  
47cm x 98cm

Original drawing created using DX2022 software. Original drawing size A1. Drawing scale 1:50.



**PROPOSED ALTERATIONS AND EXTENSION TO EXISTING DWELLING**  
28A OLD FELTWELL ROAD  
METHWOLD  
IP26 4PW

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14278	July 2022	details added