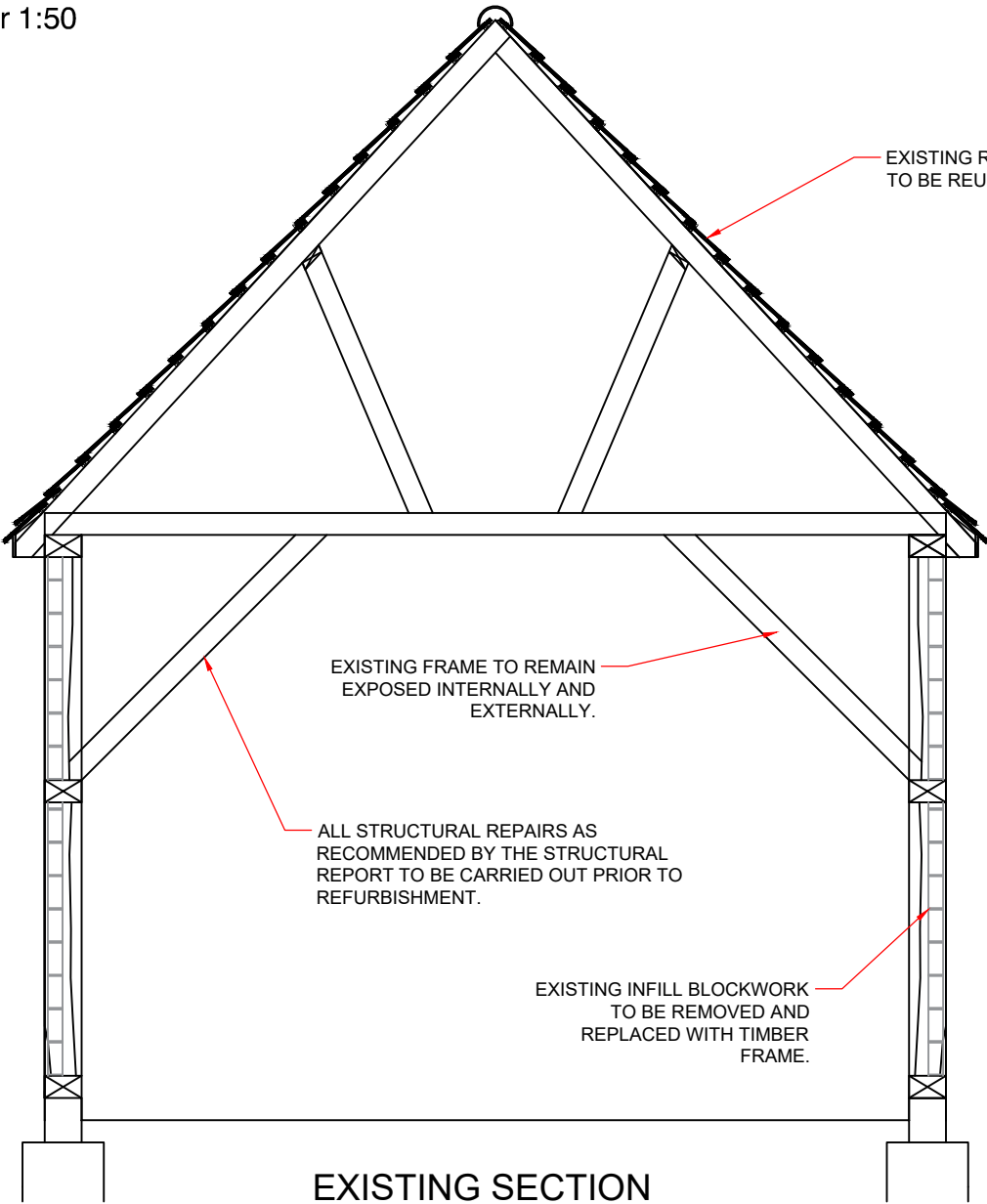
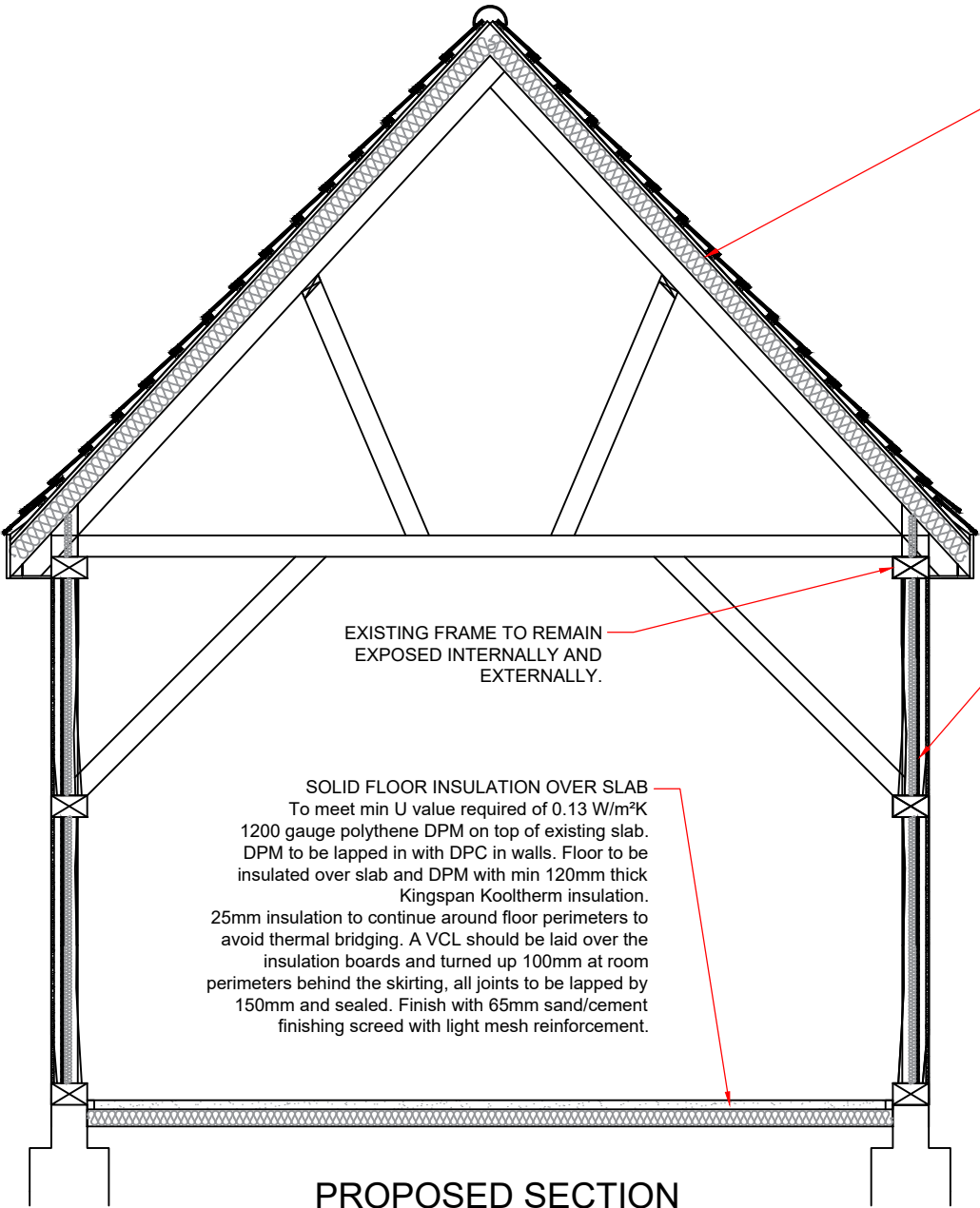




Scale Bar 1:50



EXISTING SECTION



PROPOSED SECTION

WARM PITCHED ROOF
Pitch 45° (imposed load max 0.75 kN/m² - dead load max 0.75 kN/m²)
To achieve min U-value required of 0.11 W/m²K
Provide 150mm Celotex XR4000 insulation boards under the counter battens. Finish with 12.5mm plasterboard and skim between existing rafters to keep them exposed.

TIMBER FRAME WALL
To achieve minimum U Value of 0.18 W/m²K
Lime Render finish to match the existing. Render lath fixed to vertical 25 x 50mm preservative-treated battens to provide vented and drained cavity, battens fixed vertically to breathable membrane (having a vapour resistance of not more than 0.6 MNs/g) and 12mm thick W.B.P external quality plywood sheathing (or other approved). Ply fixed to treated timber frame studs constructed using 100mm x 50mm head and sole plates and vertical studs (with noggins) at 400mm ctrs or to s/engineer's details and calculations. Insulation between and over studs: 90mm Kingspan Kooltherm between plus VCL with 12.5mm plasterboard over, maintaining exposed timber frame internally. Finish with 3mm skim coat of finishing plaster. All junctions to have water tight construction, seal all perimeter joints with tape internally and with silicon sealant externally.

Client

-

Project title

Pickhams Cottage,
Cuckfield Road
Hurstpierpoint
BN6 9LL

Drawing description

Construction Section through
barn

Scale

1:50 @ A3

Date

Dec 2025



CDMS
· Design ·

Drawing no.

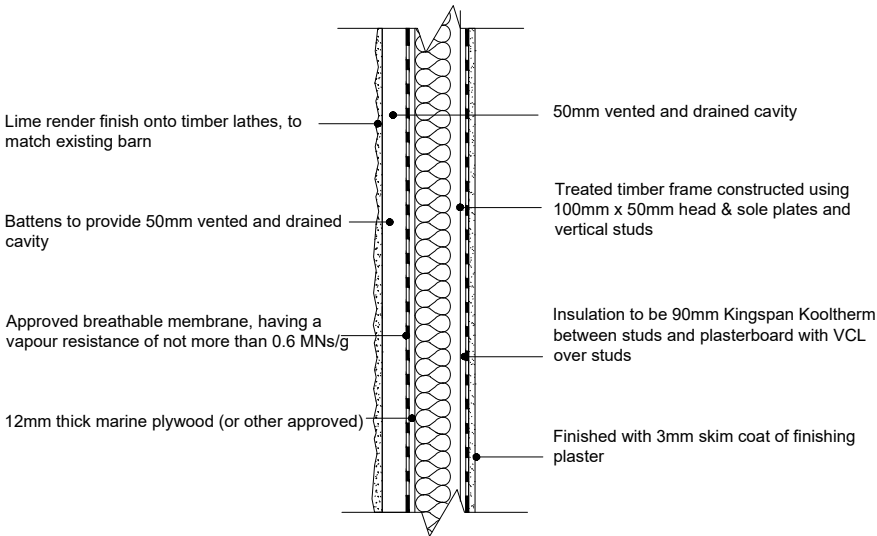
CDMS-21009.17

Revision

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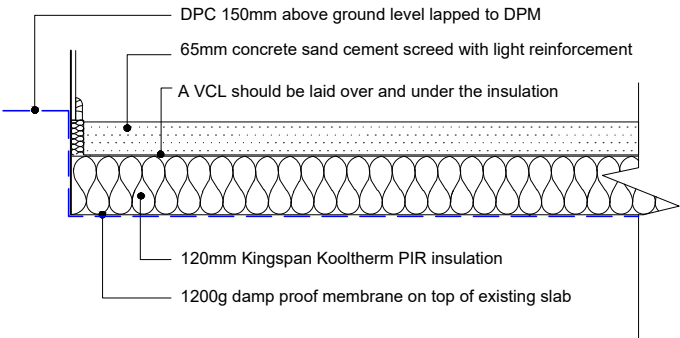
TIMBER FRAMED INFILL WALL

U-value 0.18 W/m²K



SOLID GROUND FLOOR

U-value 0.13 W/m²K



WARM PITCHED ROOF

U-value 0.11 W/m²K

