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To cheeks and gable of dormer fix grey vertical tiles on 50x25 battens, on breathable membrane, on 9mm OSB, 75mm Recticel Eurothane GP insulation between 100x50mm timber dormer studs(To be confirmed by structural engineer). Lined internally with 60mm Recticel Eurothane GP insulation then lined with 12.5mm plasterboard with 3mm skim coat.
U-Value = 0.18w/m²k.
Dormer timber frame to be designed by Structural Engineer.

Where dormer wall is within 1 metre of boundary then Supalux board is to be used instead of 9mm OSB.

Drains to new en-suite to connect into existing soil pipe to side of house.

Build new stud walls in 75x50mm timber studs, with 12mm ply and 12.5mm plasterboard and skim to both sides. Include for 50mm Isover insulation between studs.

Red broken lines indicate new steel ridge beam inserted to span from gable to gable. Structural engineer to design suitable support ridge beam.

New timber staircase from first to second floor to have a going of 245mm 12no. equal risers, max 220mm riser(max staircase angle of 42°) with a minimum clear headroom of 2m.
Balustrade to 1 side of stair min. 900mm above pitch.

Build up existing gable in blockwork and rendered outer leaf to match existing, 75mm full fill Knauf Dritherm Slab 34 insulation in cavity, 100mm medium density blockwork inner-leaf with 60mm insulated plasterboard.
U-Value of 0.17 W/m²K.

Red broken lines indicate new steel purlin inserted to span from gable to gable.

New loft floor to be installed. use 170x75mm C24 joists at 400mm centres. To run parallel and bottom of joists level with existing loft joists. New 18mm ply boarding on top of joists. Line underside where required with 12.5mm plasterboard and skim. Use 150mm Rockwool mineral insulation between joists.
Structural engineer to confirm floor joists sizes and if steel floor support is required. Middle wall at first floor and ground floor line through with each other. If loadbearing then use this wall to break span of loft floor joists.

Full pitched roof to be insulated, to enable a dry, warm storage area to front of roof.

