

Construction notes (U values from PHPP)

Ground floor: Reduce level; lay geotextile membrane on compacted sub grade; 300 mm compacted 100% recycled foam glass sub base/insulation; 100 mm 1:2 NHL:sharp sand fibre reinforced limecrete screed incorporating UFH pipework fixed to proprietary plastics grid laid on geotextile membrane.
 U = 0.247 W/m2K

External wall: 340/ 225 mm existing solid clay facing brickwork; nominal 20 mm lime plaster; 80 mm rigid wood fibre internal wall insulation system with proprietary mesh reinforced lime based plaster finish.
 U = 0.391/ 0.406 W/m2K

First floor: 195 x 45 mm C24 timber floor joists @ maximum 400 mm crs; 22 mm T&G particleboard floor deck; plasterboard lining to underside; 100 mm mineral wool acoustic insulation (minimum density 10 kg/m3) supported between joists.

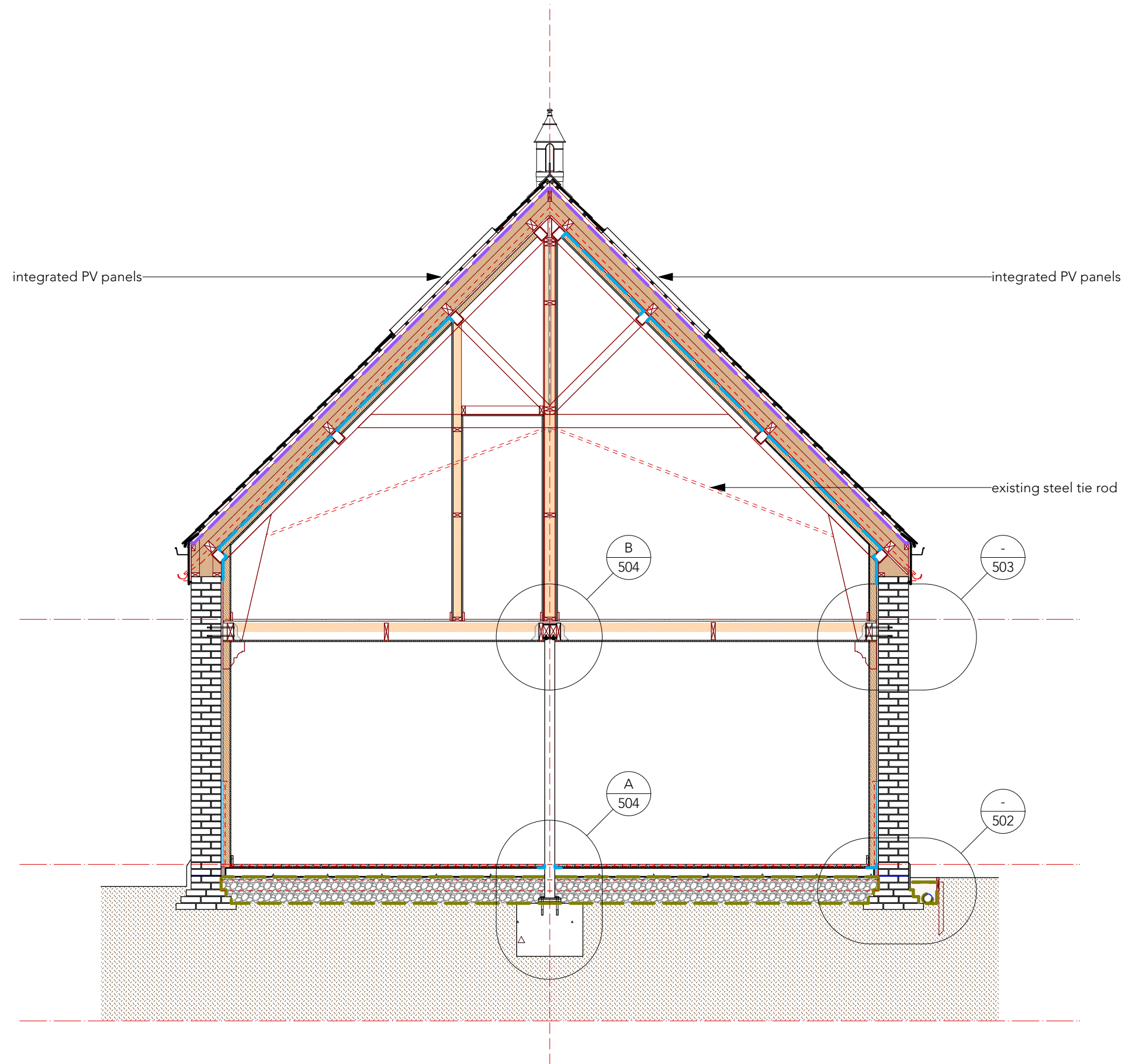
45° main pitched roof: Carefully remove existing natural slate roof covering and set aside for re-use; retain existing timber trusses, purlins and boarding; bolt 120 x 70 mm C24 timber purlins to existing purlins; 95 x 45 mm C24 timber rafters @ maximum 400 mm crs; semi rigid wood fibre insulation batts between purlins and rafters; fix pro clima Intello Plus intelligent vapour check and airtight membrane to under boarding; fix 60 mm solid wood fibre lining to underside existing boarding with proprietary mesh reinforced lime based plaster finish.
 U = 0.146 W/m2K

22.5° lean-to pitched roof: Carefully remove existing natural slate roof covering and set aside for re-use; remove existing rafters; 220 x 45 mm C24 timber @ maximum 600 mm crs; 60 mm rigid wood fibre sarking boarding; fix pro clima Intello Plus intelligent vapour check and airtight membrane to underside rafters with 45 x 45 mm timber batten service zone and 12 mm plasterboard and skim finish.
 U = 0.151 W/m2K

Provide ventilation openings @ eaves equivalent to continuous 25 mm opening using proprietary plastics ventilators and @ ridge/ abutment equivalent to continuous 5 mm opening using Nature Vent ventilators

Pitched roof covering: Refix natural slates set aside previously on 50 x 25 treated timber battens on 45 x 45 mm treated timber counterbattens on Powerlon UltraPerm Breathable Roofing Underlay laid over new rafters (main roof) and new sarking boarding (lean-to roof).

Read drawing in conjunction with consultant structural engineer's design drawings and calculations



Proposed section B

Proposed conversion to dwelling

Former Methodist Chapel, The Street, Braughing, Herts SG11 6RD

Scale 1:50 @ A3 Date Nov 2022 Drawing no. 22_404 | L | 020_C4

C4	15.03.24	As built for application to discharge planning conditions	AG
C3	17.02.24	Solitex membrane replaced by Powerlon UltraPerm breathable roofing underlay	AG
C2	14.08.23	Bedroom 3 ceiling profile and construction notes amended	AG
C1	29.05.23	Initial construction issue	AG
P4	24.05.23	Construction notes and detail references added	AG
P3	21.12.22	Steel tie rods retained; PV panels moved 1 course down slope to accommodate roof ventilators @ ridge	AG
P2	21.11.22	Ridge cupola and lead fascia note added	AG
P1	19.11.22	Initial issue	AG
Rev	Date	Amendment	By Chkd