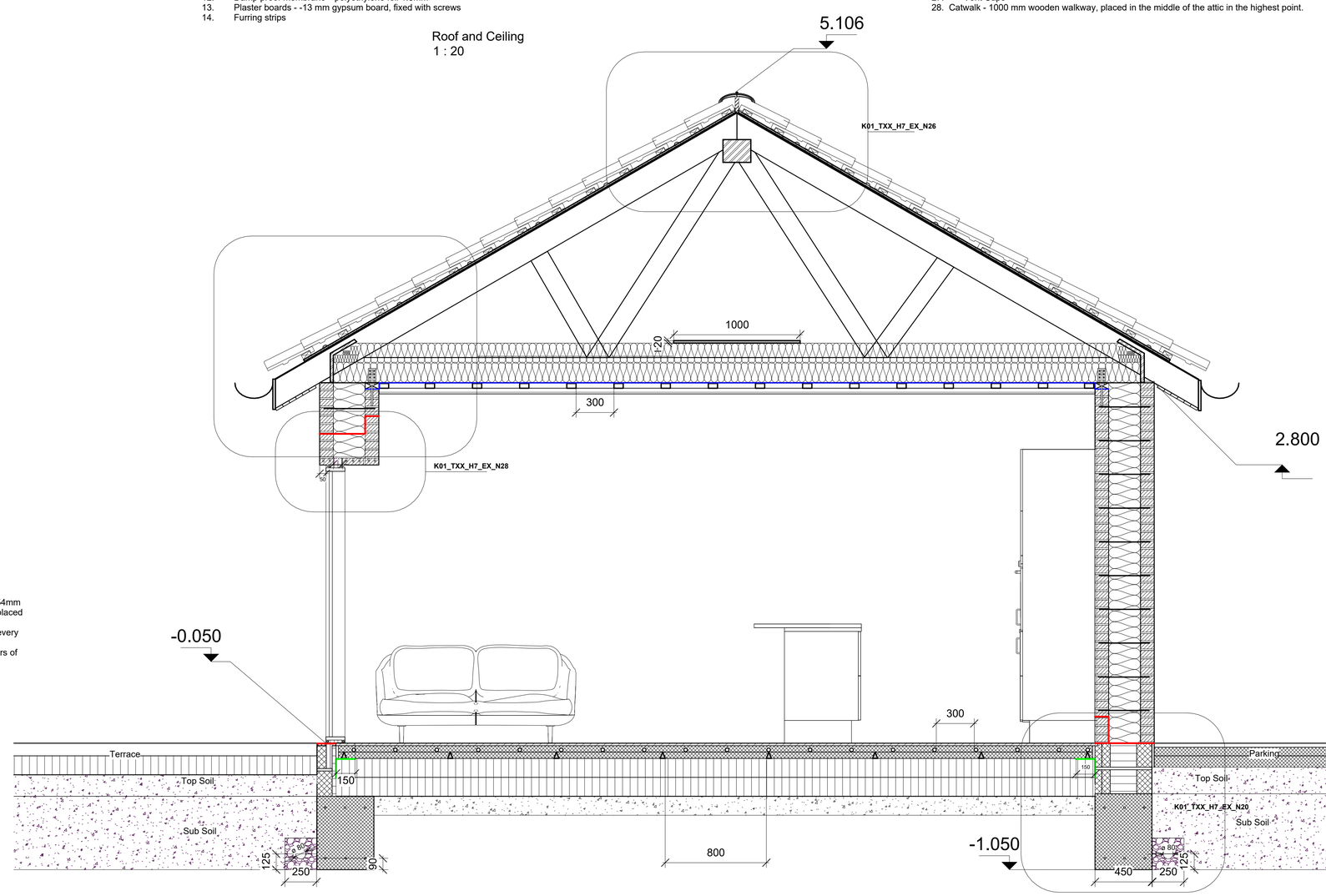
Roof and Ceiling:
1. Roof tiles – Red clay roof tiles, are all fixed along the edges
2. Battens - 38x73mm. Connected using stainless steel nails.
3. Sarking felt - placed vertical and horizontal on the roof with overlap
4. Underlay for sarking felt - Plywood 18mm
5. Wind breaker
6. Supports for wind breaker– battens 25mm*25mm fixed with stainless nails
7. Tilting fillet - Plywood 18mm underlay
8. Wall plate – made with wood 38mm*100mm
9. Trusses
10. Angle brackets
11. Insulation– made with mineral wool, total thickness 350mm
12. Damp proof membrane – polyethylene foil 1.5mm
13. Plaster boards - -13 mm gypsum board, fixed with screws
14. Furring strips
15. Cornice beading - made by polystyrene, placed along the transition form wall to ceiling
16. Gutter drip
17. Gutter brackets
18. Gutter - 120mm*72mm
19. Down pipe – 75mm diameter
20. Down pipe brackets
21. Soffit boards – timber wooden boards 25mm*100m*3m placed with 7mm gaps between them
22. Fascia boards - 25x150mm and are fixed with stainless steel screws
23. Ridge board - Pressure impregnated wooden top plank, 50mm*175mm, fixed with screws
24. Support for underlay– 30mm*30mm pressure impregnated wooden battens fixed with screws
25. Ridge capping – metal
26. Ridge tiles – Red clay tiles placed with 60mm overlap and fixed to the top plank
27. Vent Caps
28. Catwalk - 1000 mm wooden walkway, placed in the middle of the attic in the highest point.

Roof and Ceiling
1 : 20



External Walls:
1. Bricks – standard Danish bricks 228mm*108mm*54mm
2. Insulation, made with mineral wool, 250mm thick placed between the inner and external leaf
3. Wall ties – 5mm diameter stainless ties placed in every sixth course with 0.5m interval.
4. Mortar – 12mm thick (3 layers of bricks with 3 layers of mortar are 200mm)

External Walls
1 : 20

Internal Walls:
Bricks – standard Danish bricks 228mm*108mm*54mm

Internal Walls
1 : 20

Dimitrian's Section
1 : 20

Foundation:
1. Insitu-casted Concrete 450mmx700mm
2. Reinforcement - BI steel bars with 12mm diameter
3. Anchor to truss - 35mm*3mm steel perforated anchor what connect the foundation and the roof trusses it is placed in wet concrete, on the edge of Leca blocks insulation.
4. Filter drain - 250mm*250mm is placed around the drainage pipe next to the bottom of the foundation, it is made with gravel
5. Drainage pipe – perforated pipe made with PVC with diameter of 80mm placed in the middle of filter drain.
6. LECA Thermoblocks – placed on top of the concrete for partition walls 490mm*450mm*190mm with 210mm polystyrene insulation

Foundation
1 : 20

Ground supported slab:
1. Capillary Breaking layer– made with light weight clinker concrete placed next to the foundation with the thickness 150mm
2. Insulation – 2 layers of 150mm thick of pressure resistant Polystyrene Insulation
3. Bitumen felt – It is a radon and moisture barrier that is placed on top of the second layer of LECA Thermoblocks
4. Edge insulation – 20mm*100mm polystyrene placed inside next to the LECA thermoblocks over the bitumen felt
5. Mesh supports – 40mm spacers placed on top of the insulation to support the reinforcement mesh
6. Reinforcement mesh – 5mm diameter reinforcement bars placed with 150mm*150mm gaps, set on the spacers
7. Floor heating pipes – 28mm*2mm heating pipe placed on the top of the reinforcement mesh
8. Concrete slab – with the thickness 100mm
9. Moisture barrier – 0.20mm Polyethylene - foil
10. Laminate - 20 mm that is placed on the top of the concrete slab

Ground supported slab
1 : 20

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