

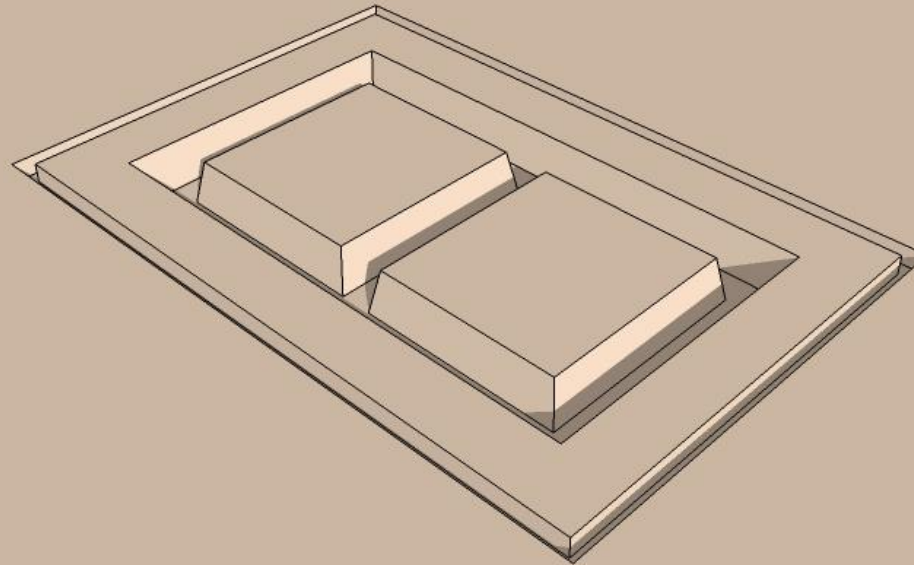


Affordable Housing for Flood Risk and Heavy Rain



Building Back Better





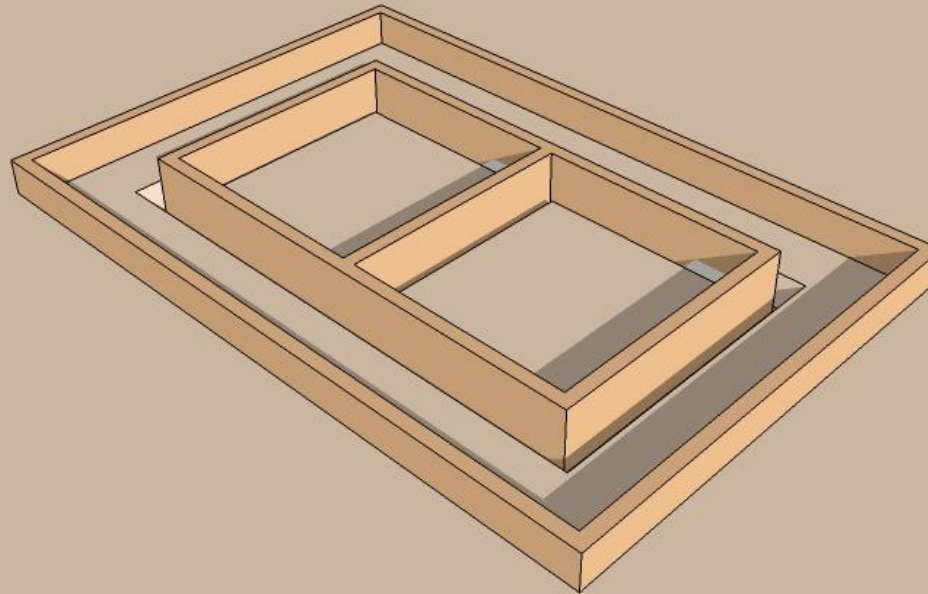
Foundations must be excavated to a depth to achieve the following:

- Firm sub soil base
- No roots
- No made up ground
- Minimum 50cm deep



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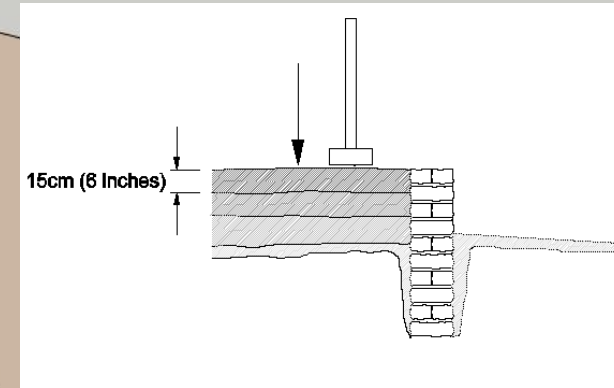
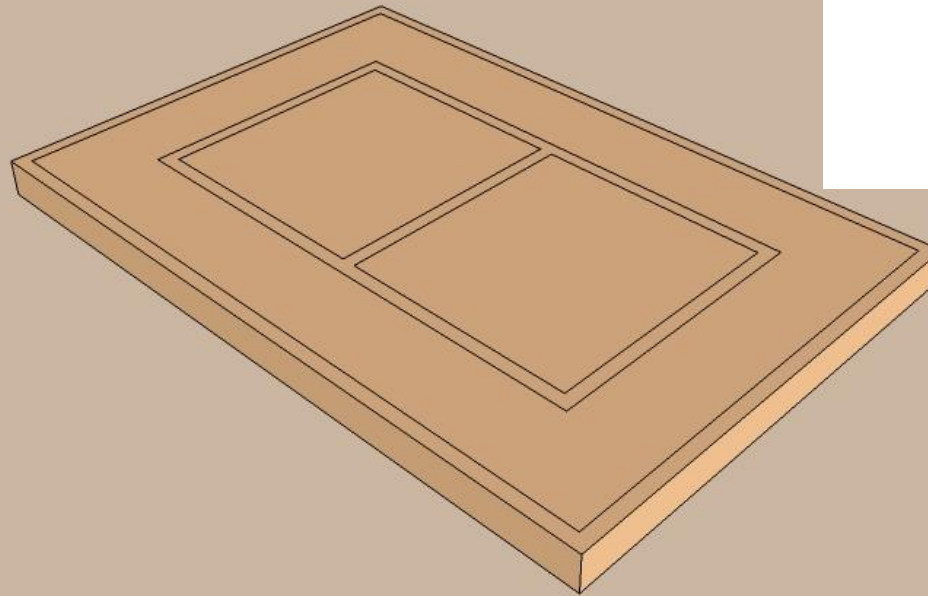


Foundations walls should be constructed to the same standard as walls above ground. Care taken to compact mortar in all the joints and back fill around the foundation walls by compacting sub soil in layers. This reduces the impact of moisture on the blocks.



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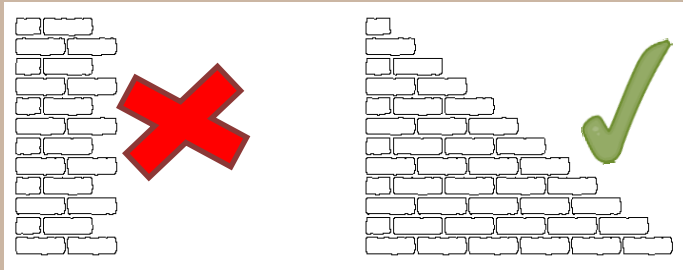
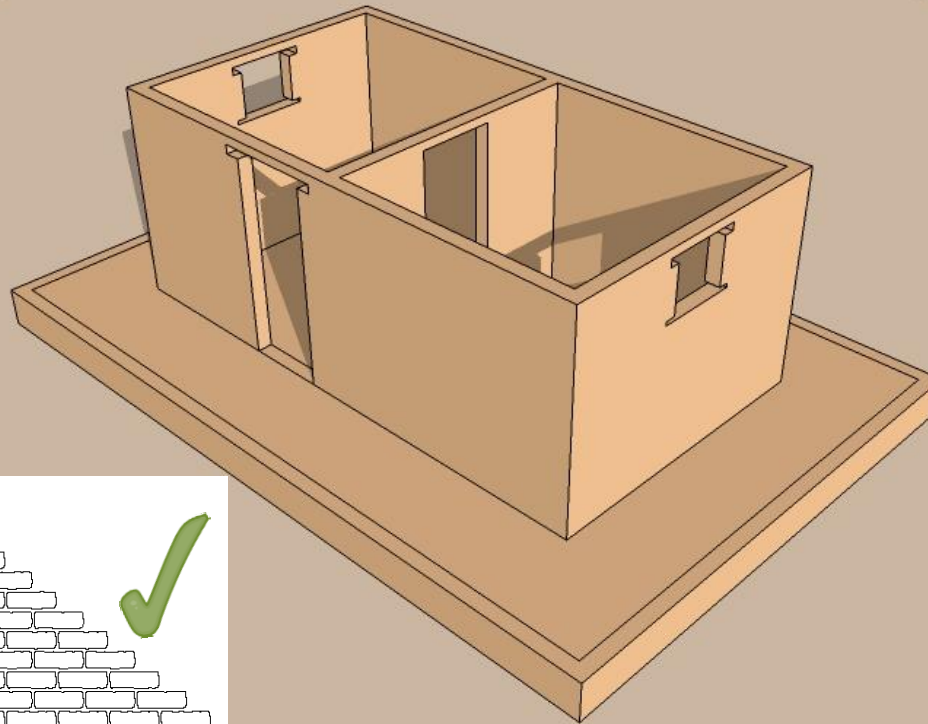


Fill the base with subsoil and compact in layers of no more than 15cm. Topsoil or soil with roots and vegetation should not be used.



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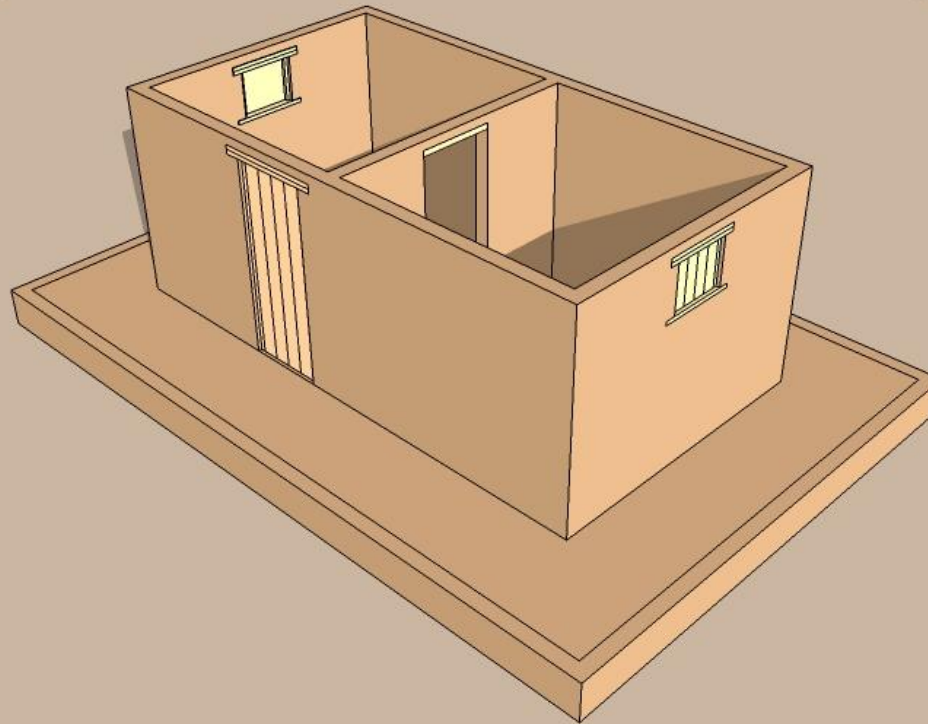


Walls to be constructed following good practices. Corners should be constructed as steps not toothed (as shown above). Mortar must be the same quality of soil as used for the brick production. All joints must be fully filled with mortar.



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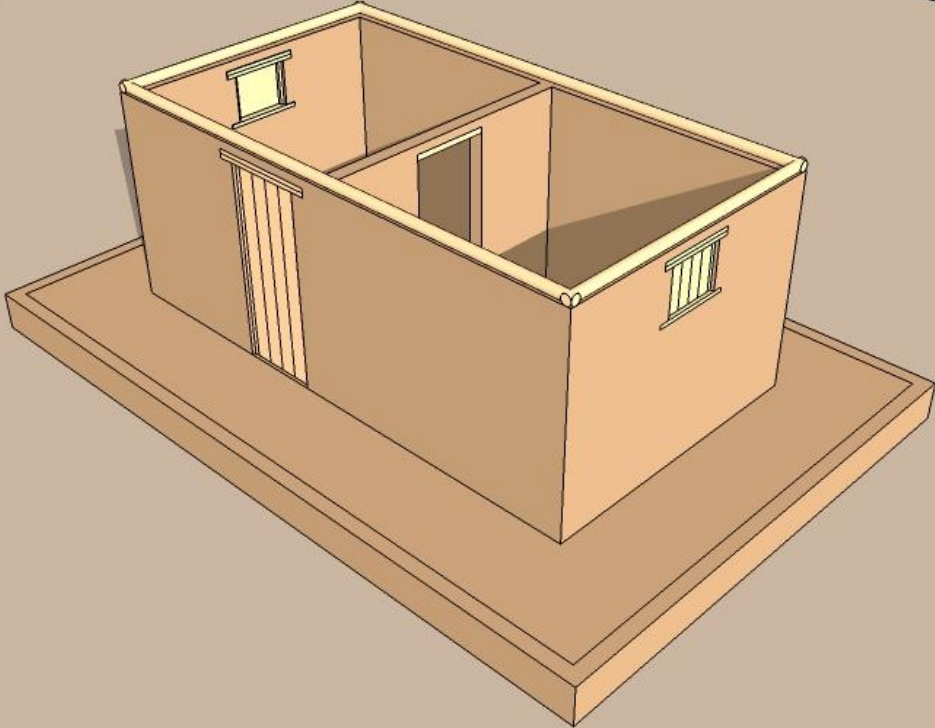


All doors and windows must have suitable lintels. This should be timber at least 7.5cm (3") in depth for openings up to 90 cm. For openings between 90cm and 120cm, 10cm (4") lintels should be used.



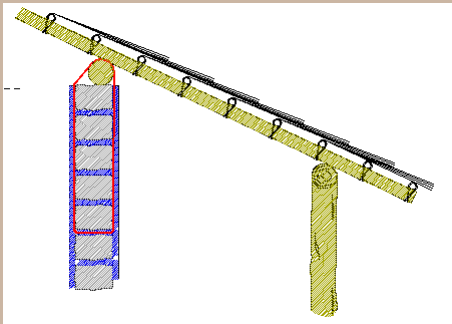
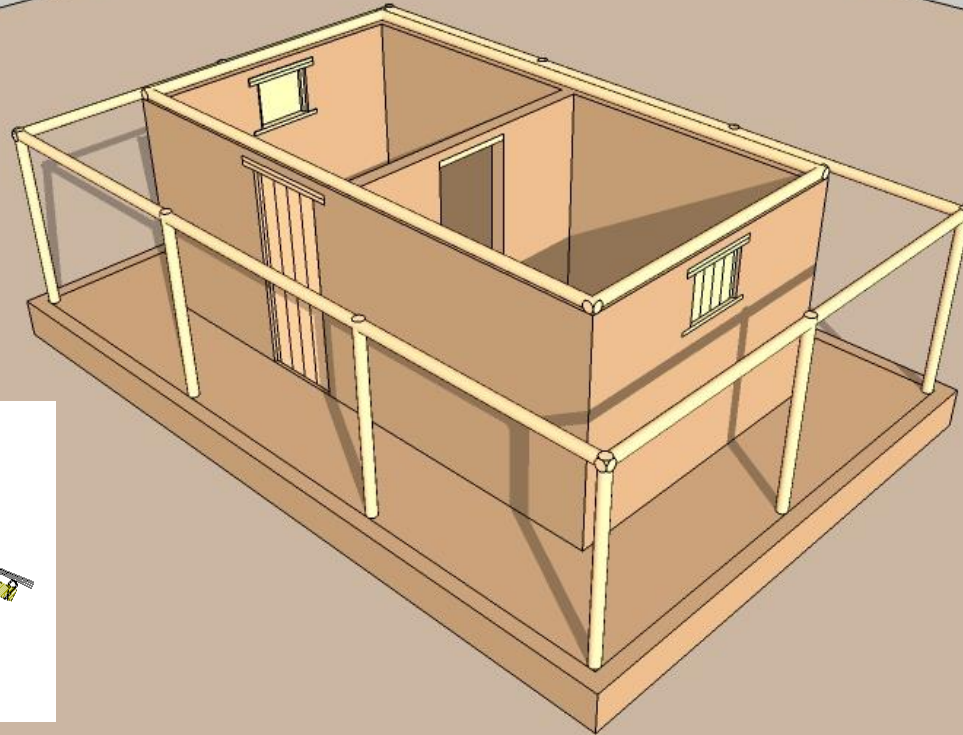
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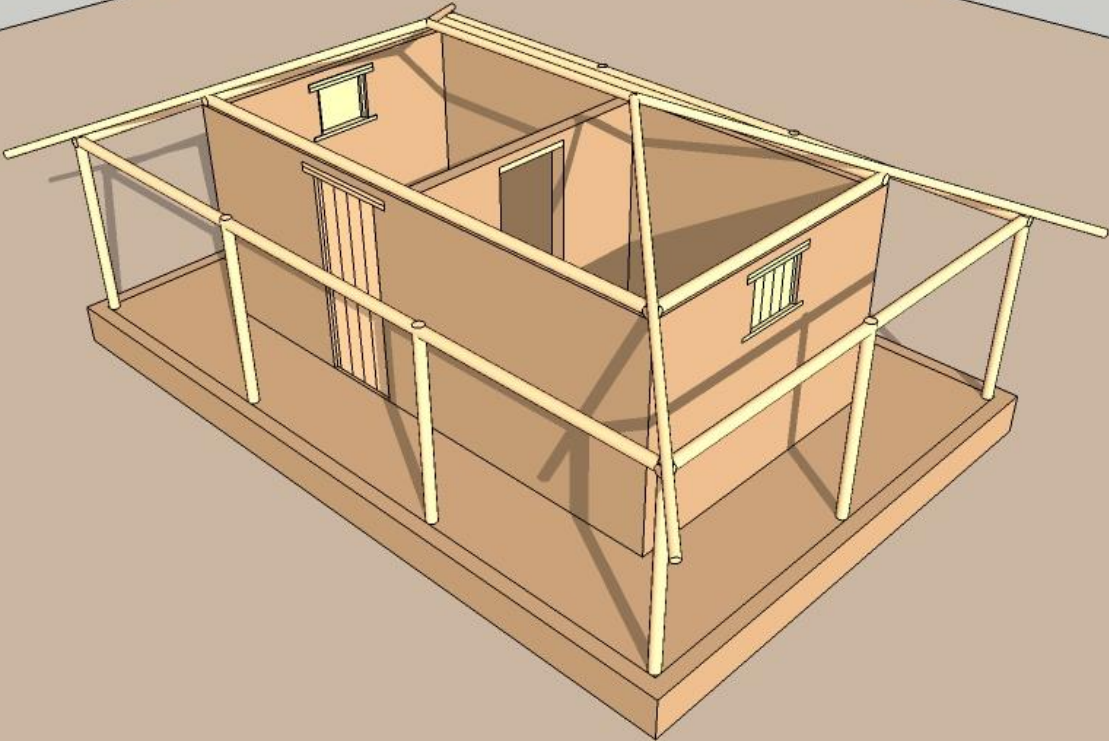


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Blue gum (eucalyptus) posts to be heat treated and buried at least 50cm below ground level. Beams to fitted securely to posts and wall plate to be fixed to the walls with tie wire.

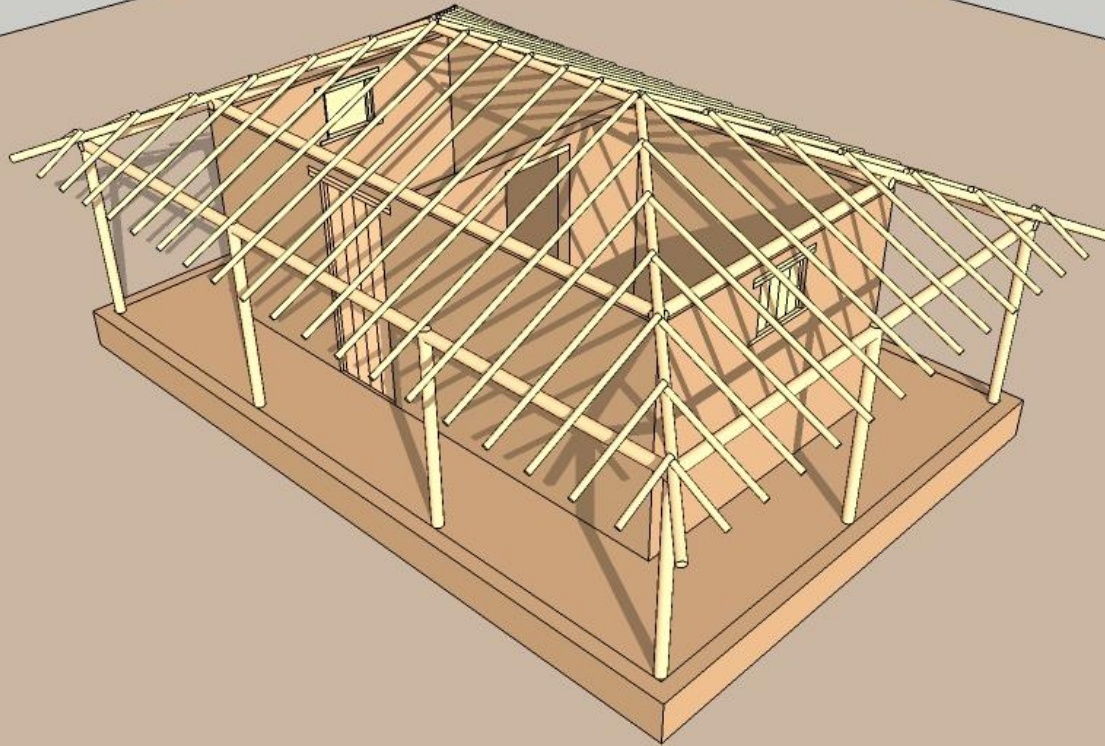


Ridge and hip beams fitted as shown.

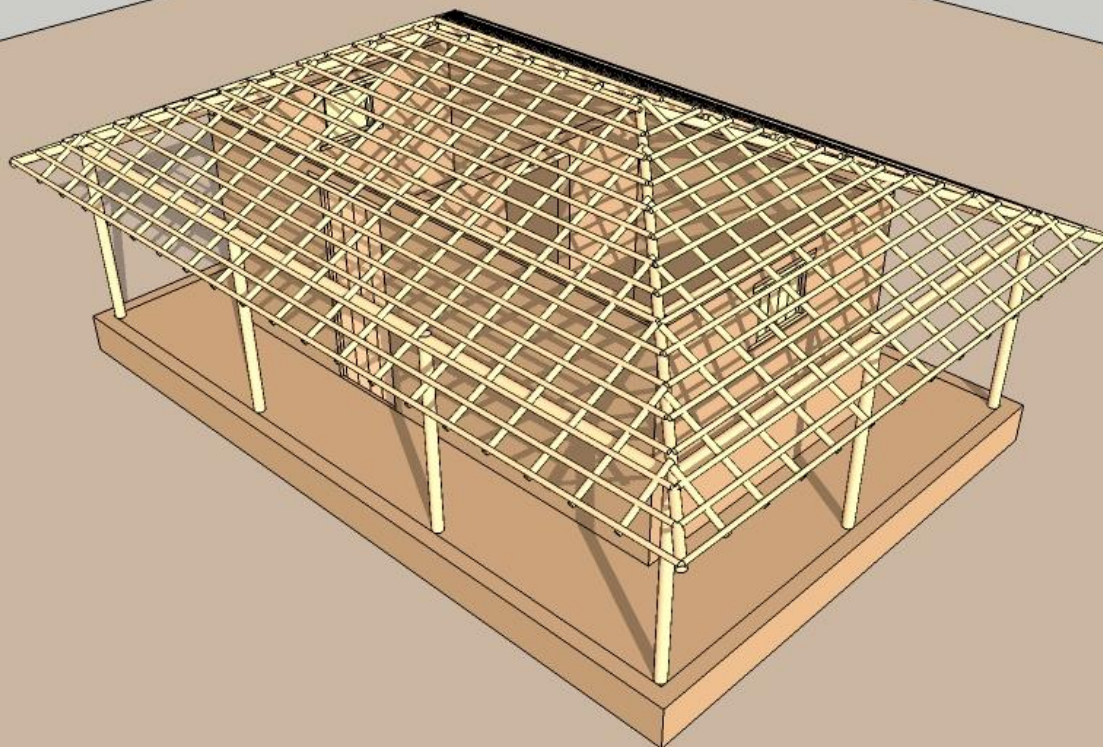


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Rafters fitted as shown. Spacing of the rafters depending on the size of the timber or bamboo.



Thatch battens fitted as shown.



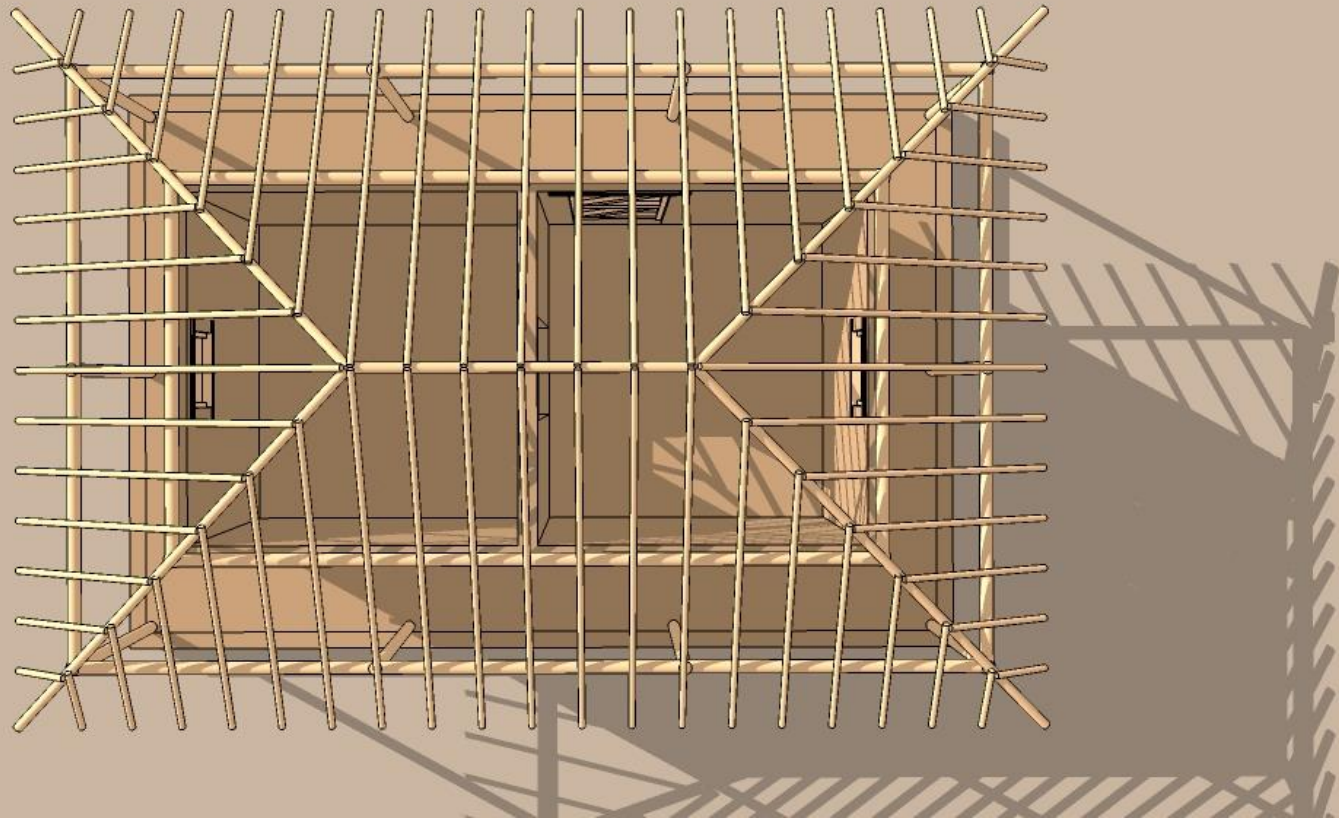
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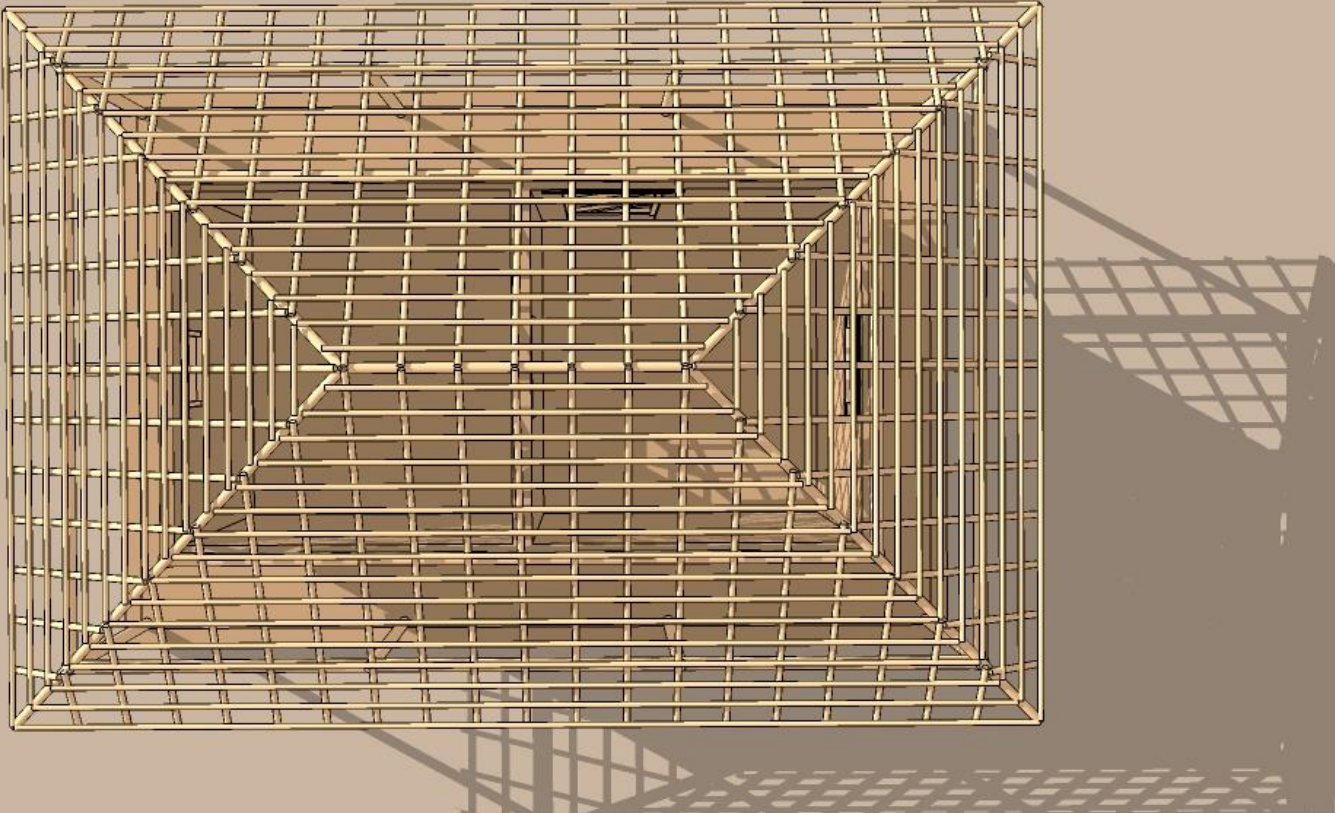
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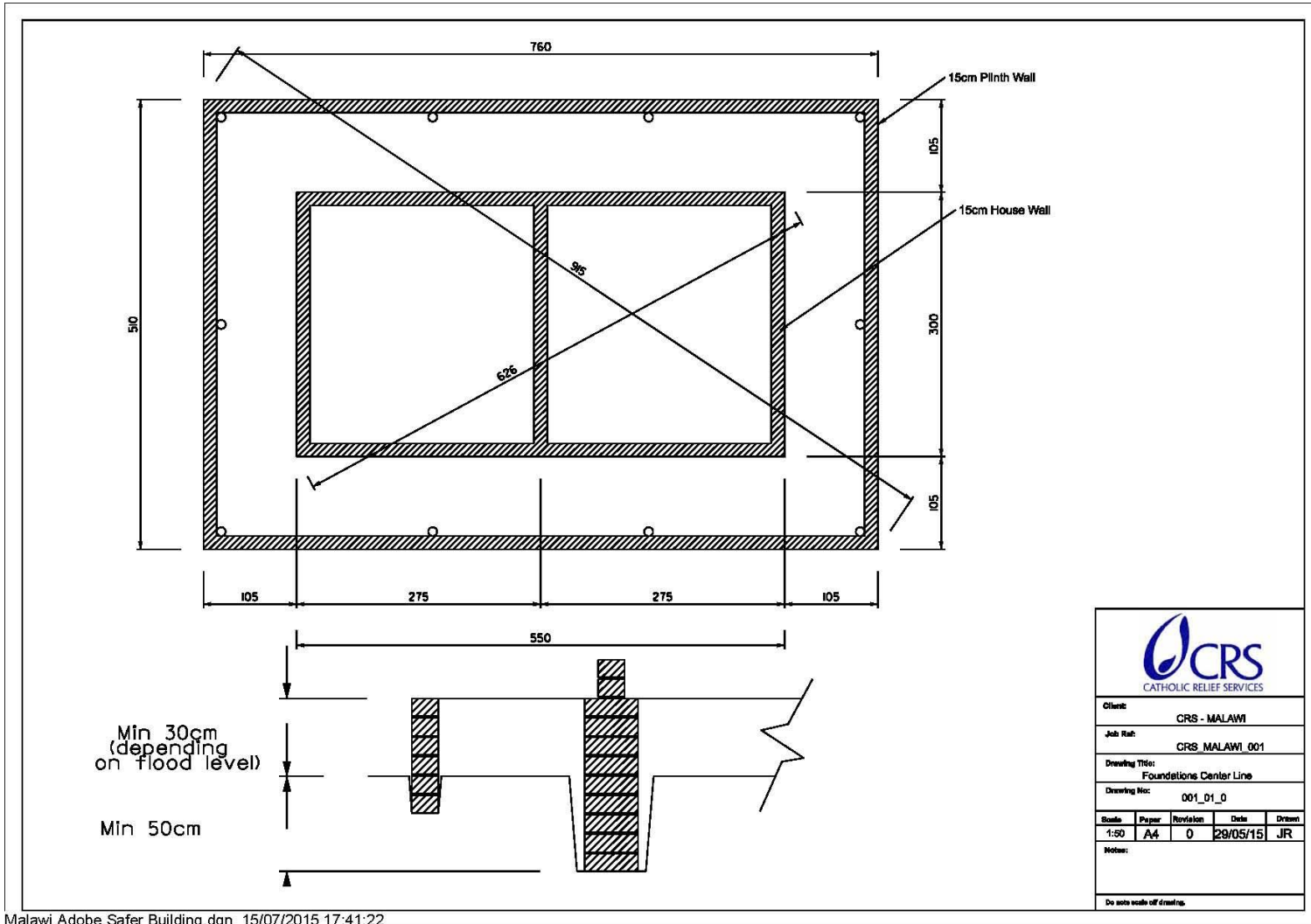
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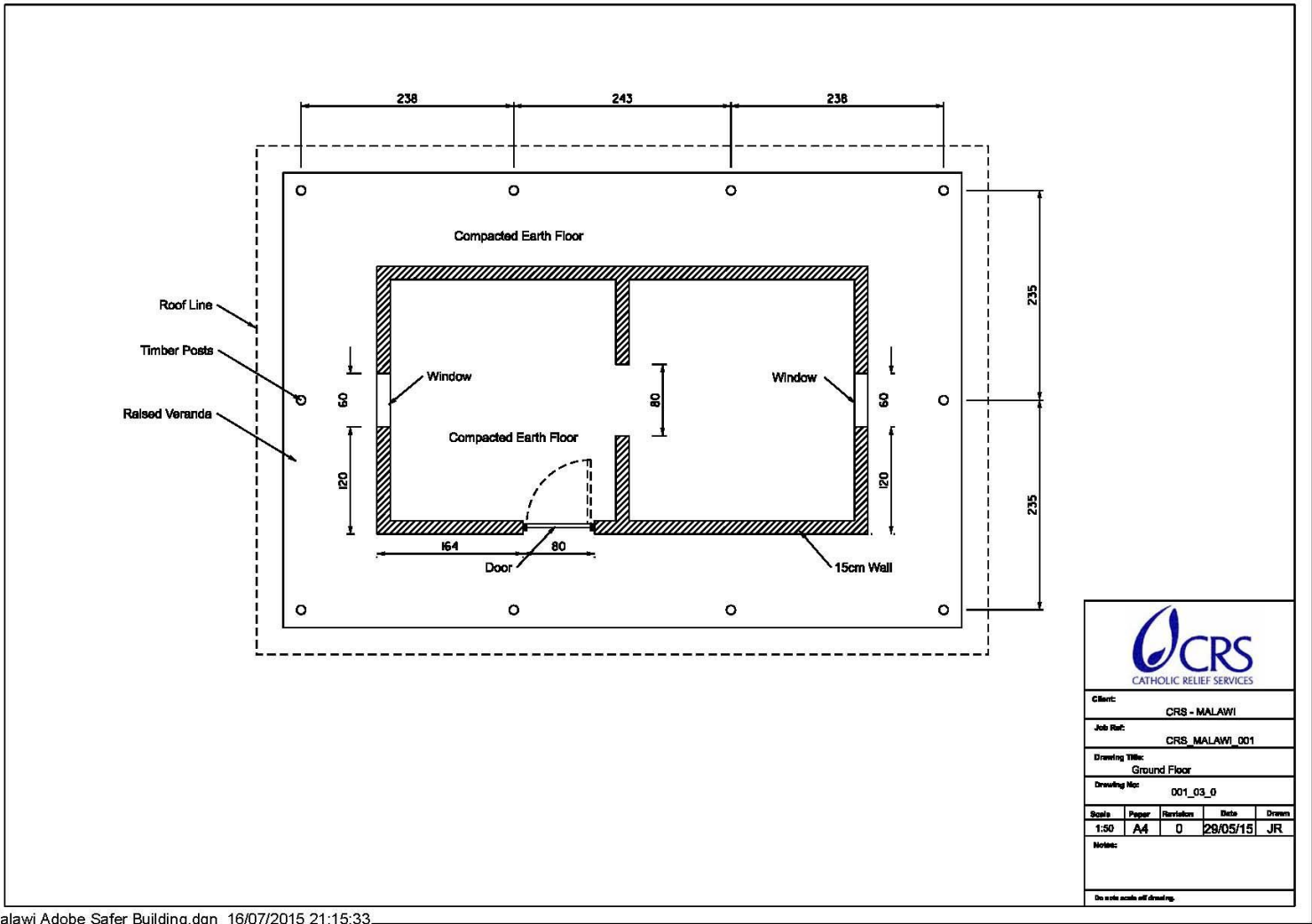




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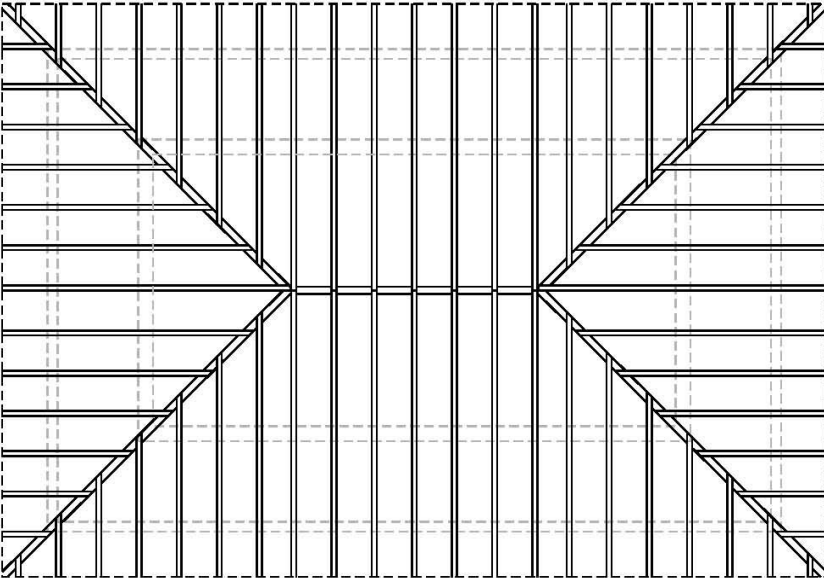
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Spacing on rafters approx 40cm
(may vary depending on material)



Hip and Ridge Beams made from 10cm poles



CATHOLIC RELIEF SERVICES

Client: CRS - MALAWI

Job Ref: CRS_MALAWI_001

Drawing Title: Roof Plan

Drawing No: 001_04_0

Scale	Paper	Revision	Date	Drawn
1:50	A4	0	29/05/15	JR

Notes:

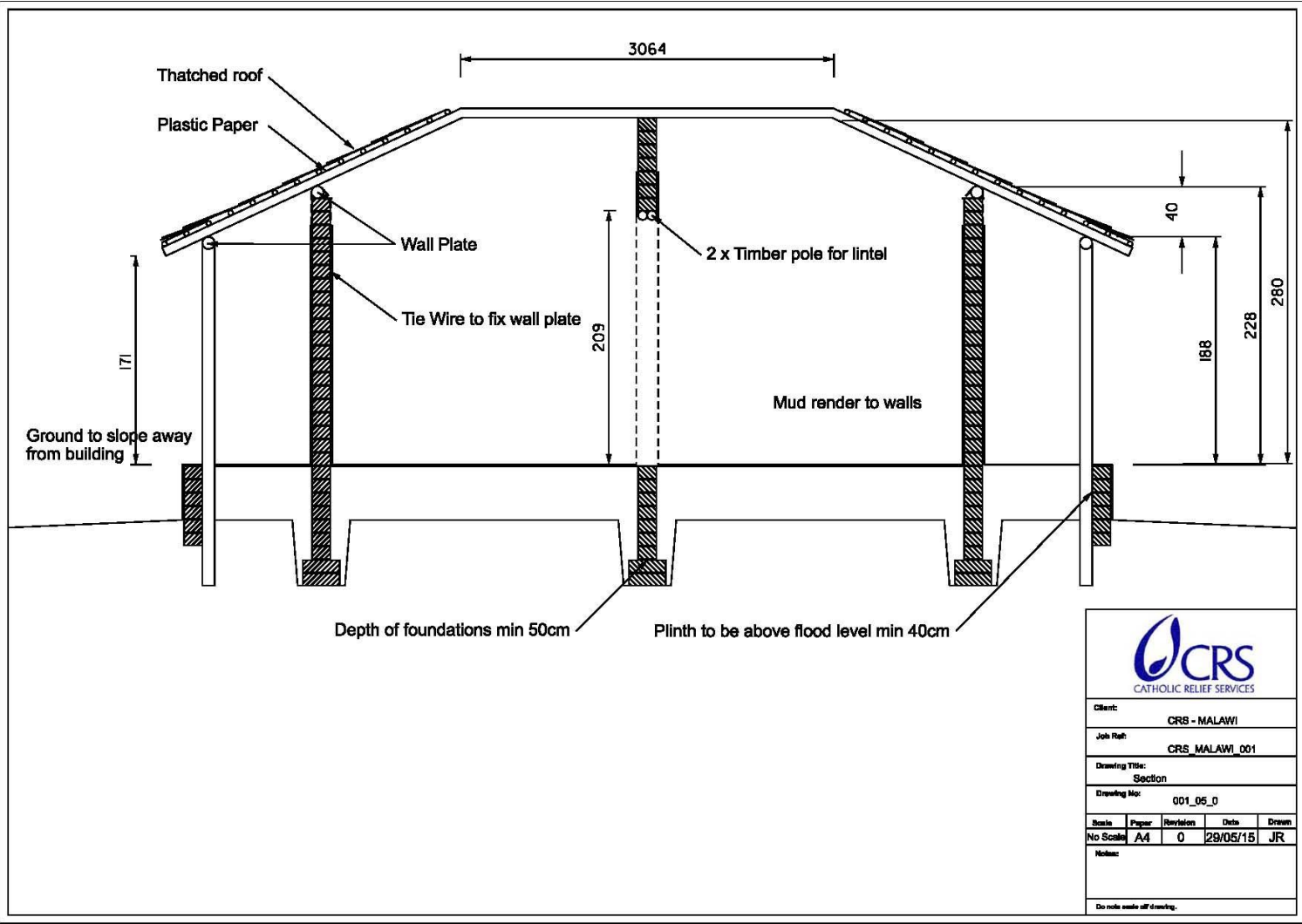
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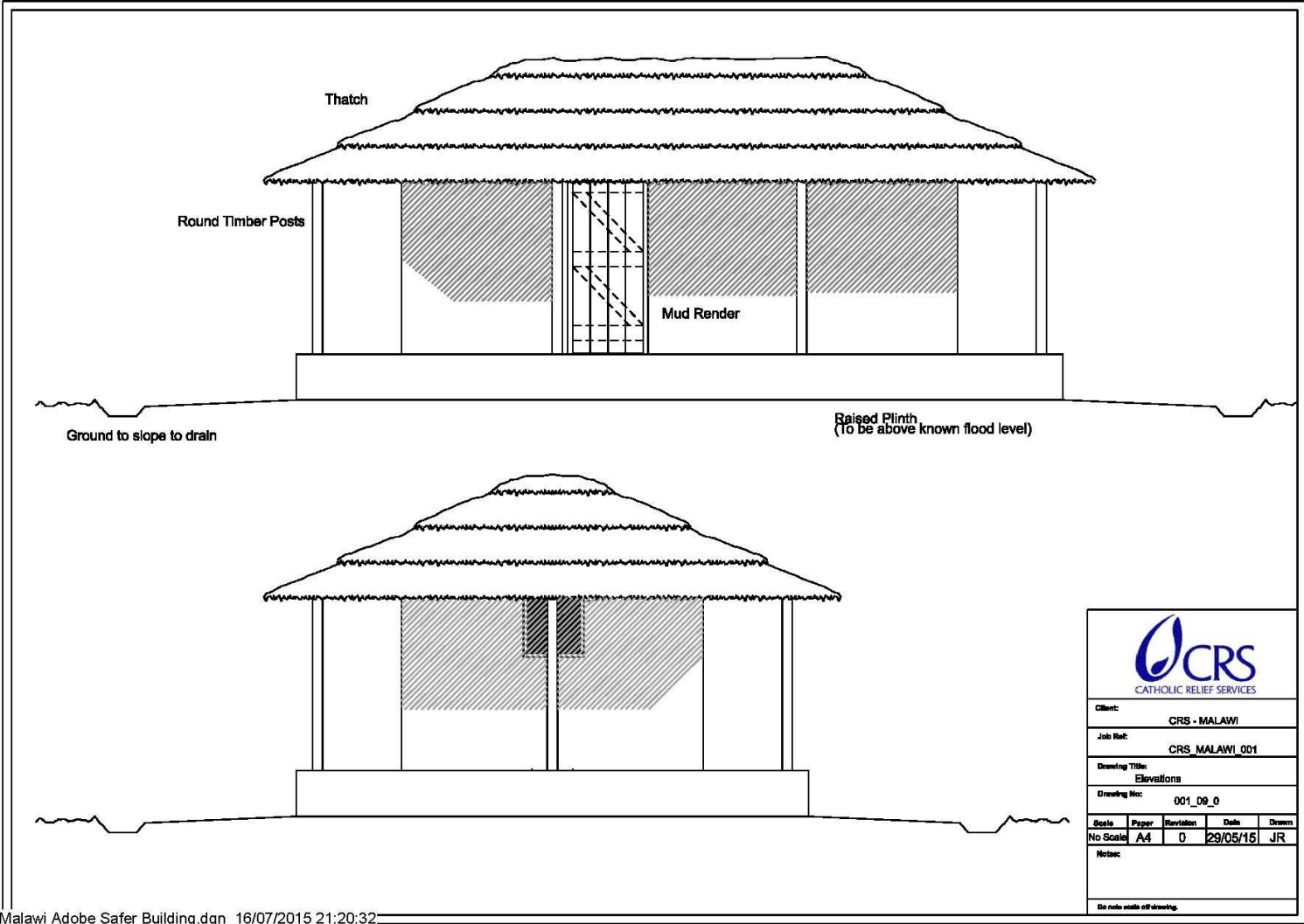
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