



Supertall Timber

Impossibly High Wooden Skyscrapers

Michael H. Ramage

University of Cambridge

Light Earth Designs LLP

Kings College Chapel, Cambridge
John Wastel
1509









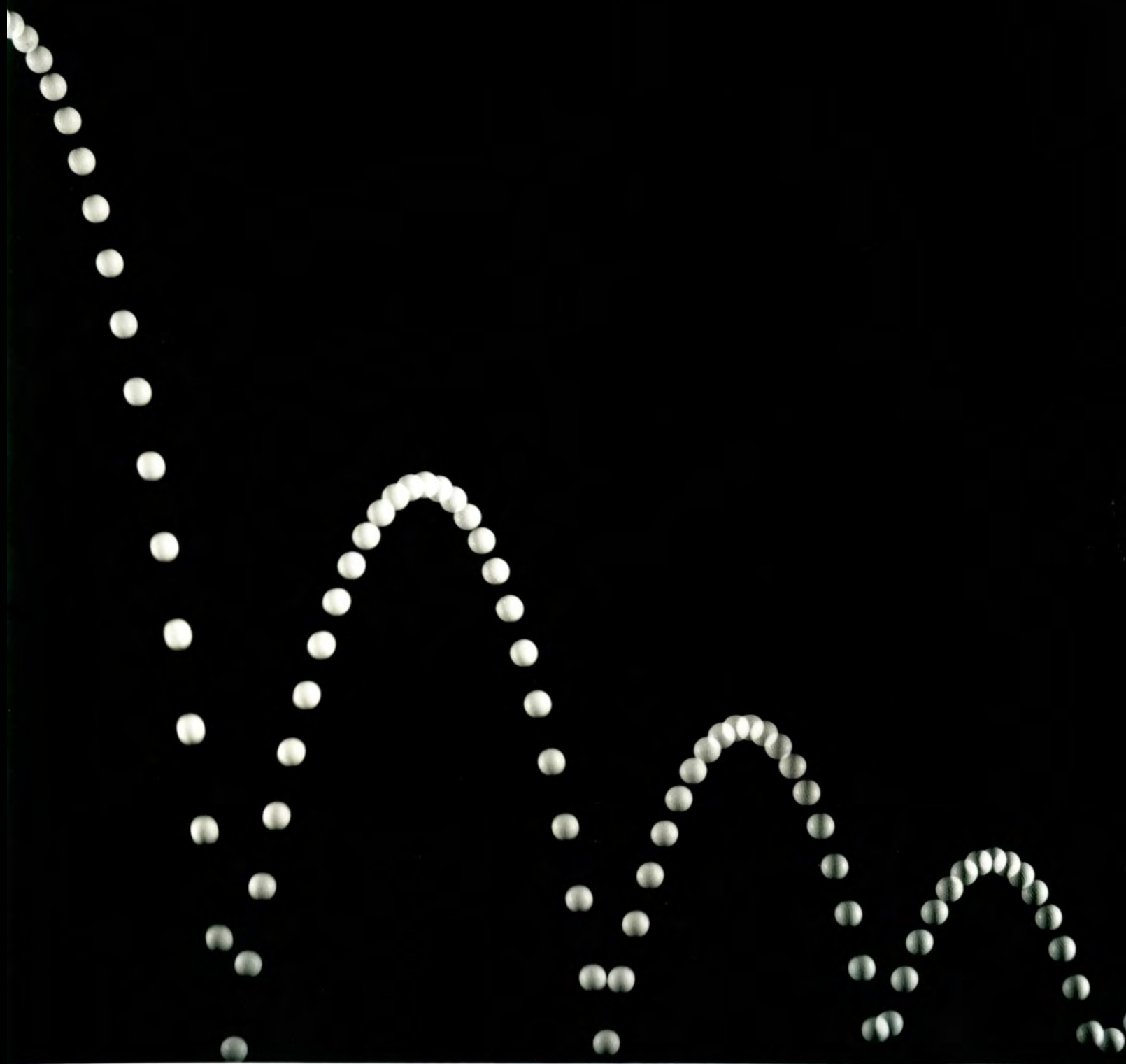
Rwanda Cricket Stadium

RCS Foundation • Cricket Builds Hope

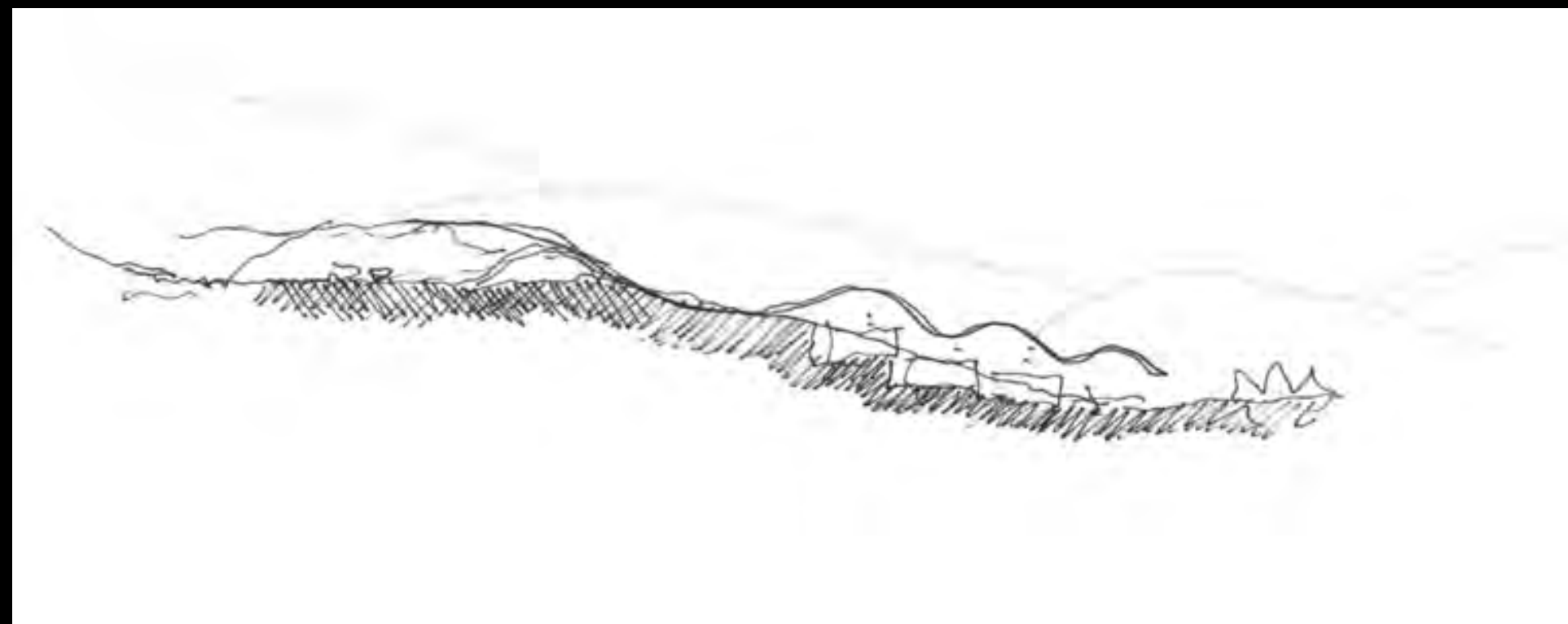
Light Earth Designs
Roko Construction
James Bellamy
FBW

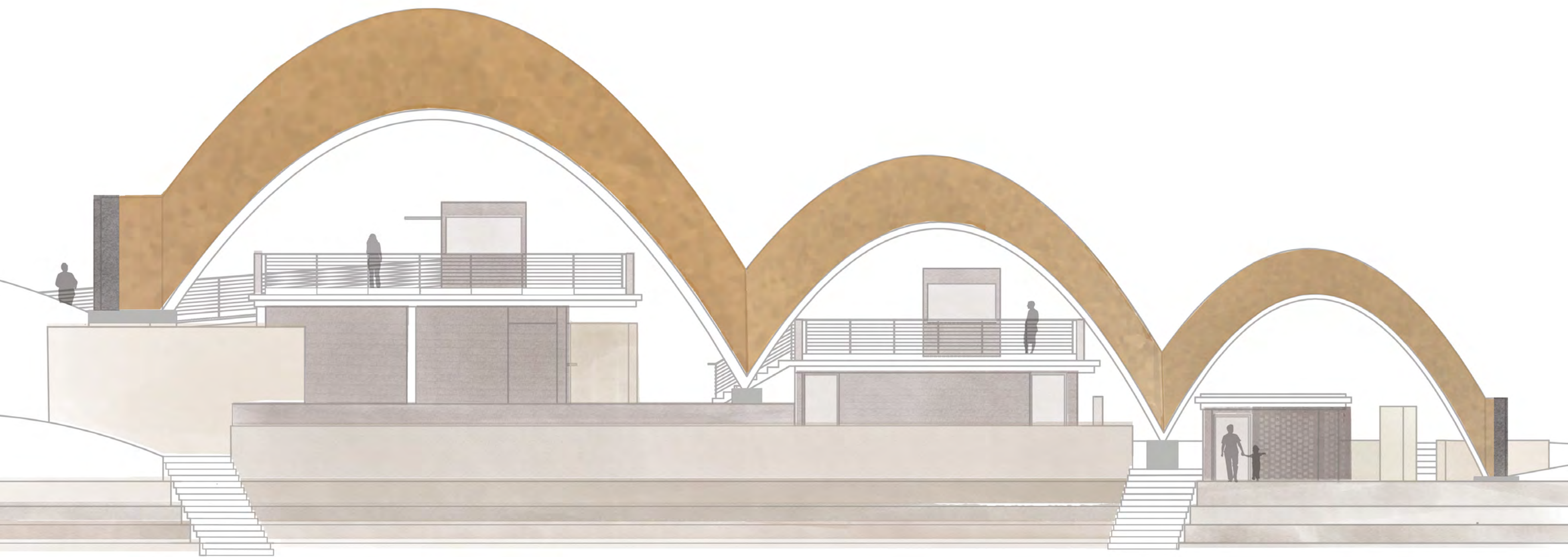
Paul Broadie





Berenice Abbot

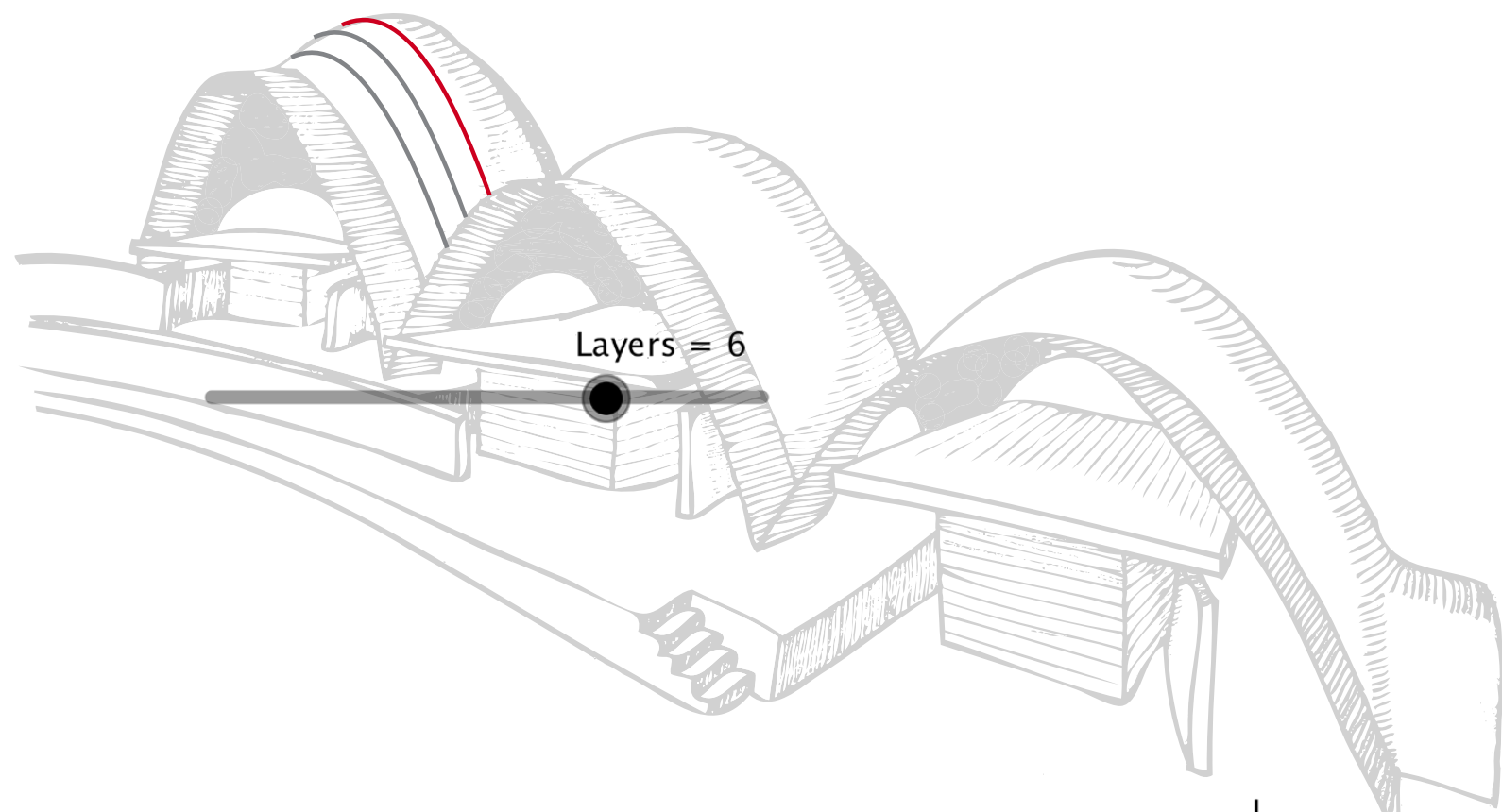




SOUTH ELEVATION

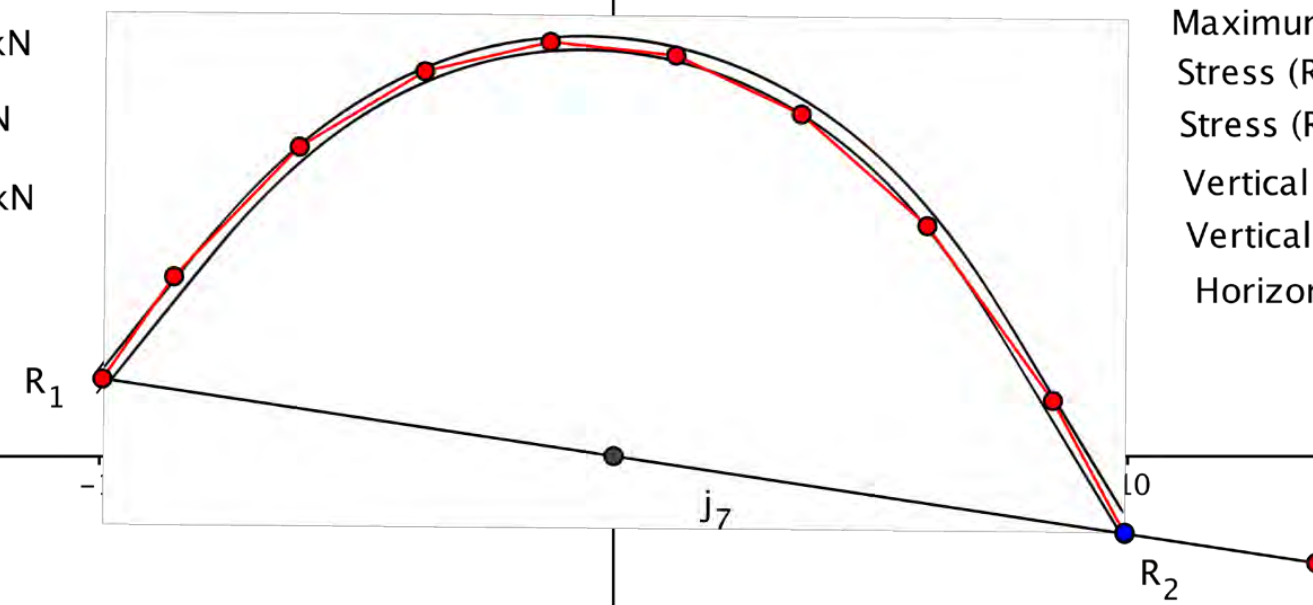
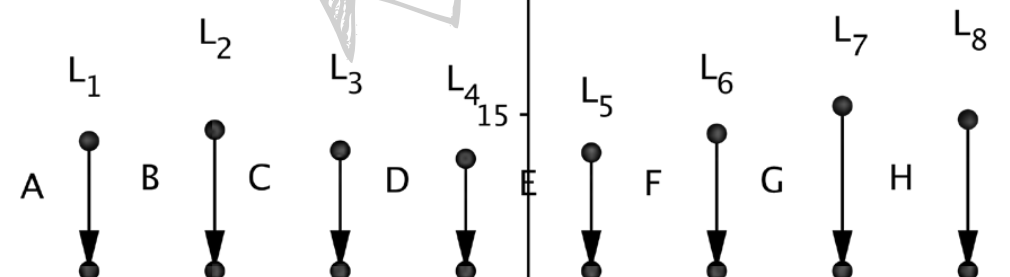




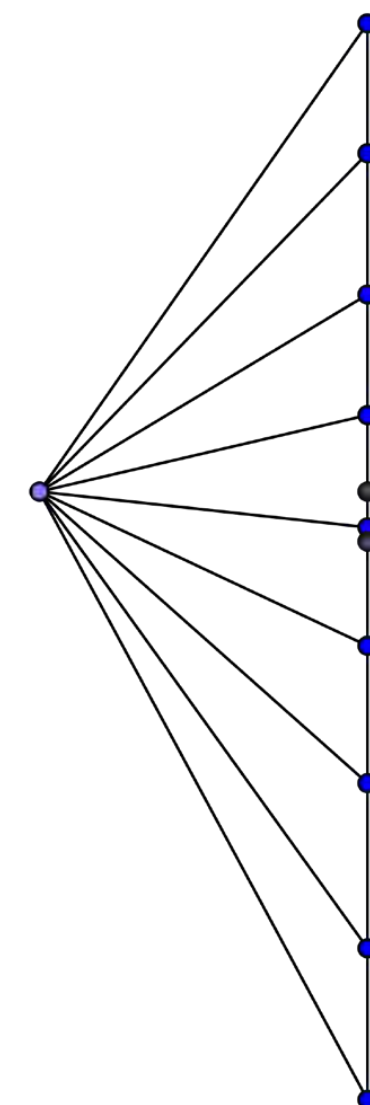


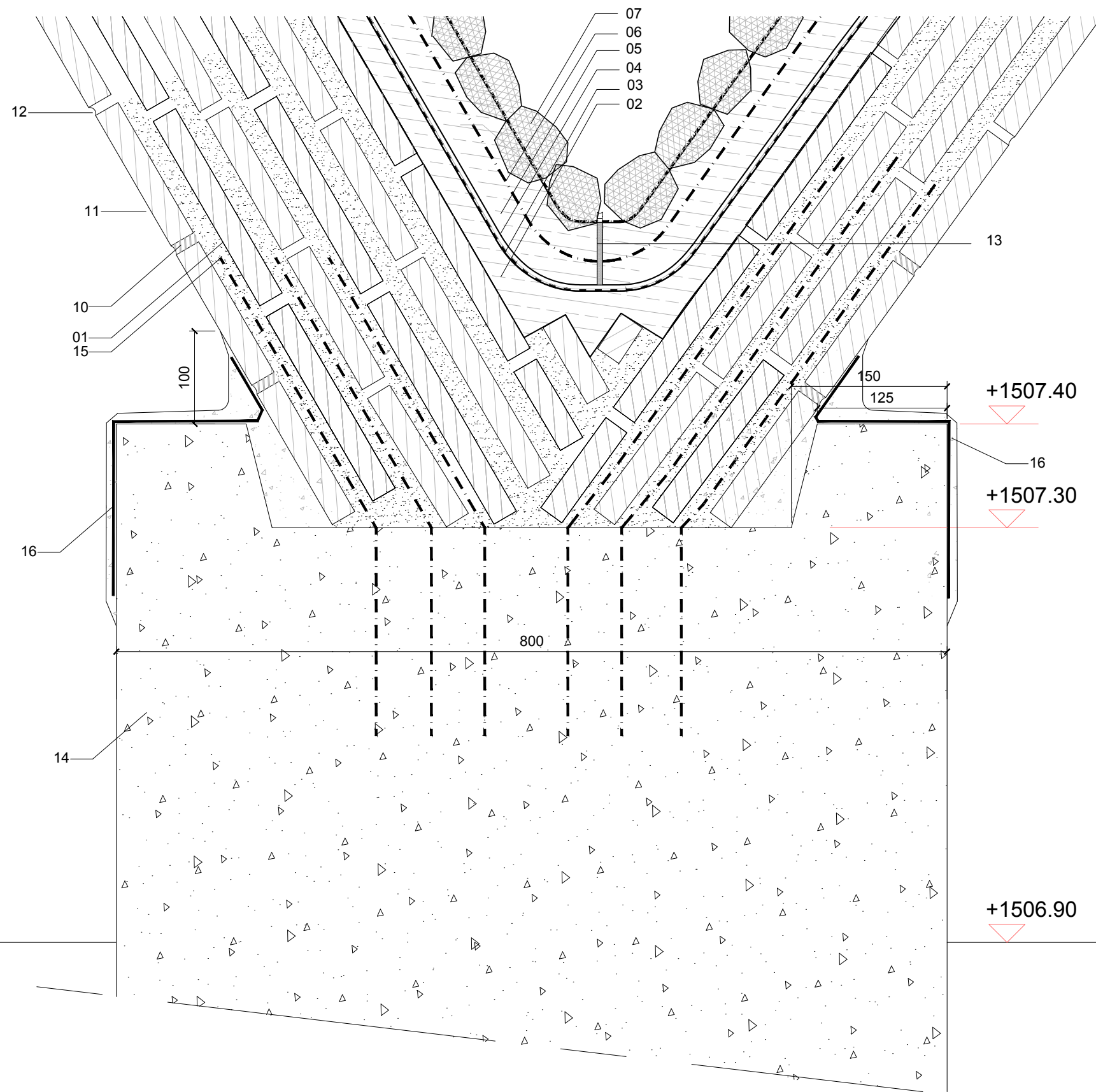
Span = 15.85 m
 SliceWidth = 1.25m
 ScaleFactor = 0.793
 MasonryLoad = 5kN/m²
 gK = 2 kN/m²
 VaultThickness = 0.25m

Load₁ = 19.956kN
 Load₂ = 21.691kN
 Load₃ = 18.519kN
 Load₄ = 17.237kN
 Load₅ = 18.182kN
 Load₆ = 21.104kN
 Load₇ = 25.35kN
 Load₈ = 23.272kN



Maximum Load (R₁) = 88.179kN
 Maximum Load (R₂) = 106.43kN
 Stress (R₁) = 0.282 MPa
 Stress (R₂) = 0.341 MPa
 Vertical Thrust (R₁) = 71.912kN
 Vertical Thrust (R₂) = 93.398kN
 Horizontal Thrust (R₁, R₂) = 51.031kN























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Wesam Al Asali

Light Earth Designs
Tim Hall
Ana Gatoo
Ben Veyrac
Anton Larson

The Leverhulme Trust
Cricket Builds Hope
Said Foundation
Clare Hall, Cambridge

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