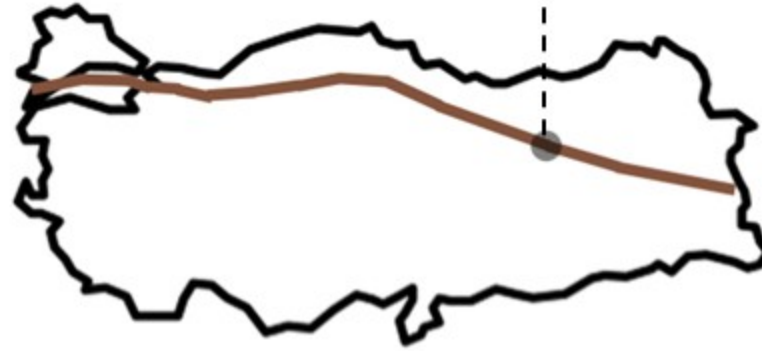


PALANGA GOAT SHELTER

ERGİNOĞLU & ÇALIŞLAR



ERZİNCAN_NORTH ANATOLIAN EARTHQUAKE ZONE



1939, 7.9 Magnitude



1992, 6.6 Magnitude



KA HOUSE, 2013-2015







PAAF_PALANGA ART AND ARCHITECTURAL FARM

PALANGA 1888



PAAF_PALANGA ART AND ARCHITECTURAL FARM
PALANGA 1888





SEMI OPEN CATTLE BARN
IND [Inter.National.Design]



NEWBORN CALF SHELTER
NSMH



KA HOUSE
ERGINOĞLU & ÇALIŞLAR ARCHITECTS



GOAT SHELTER
ERGINOĞLU & ÇALIŞLAR ARCHITECTS



HANDAM COW SHELTER
MIMARLAR + HAN TUMERTEKİN



HOUSE OF CHICKEN
SO? ARCHITECTURE AND IDEAS



5 10 50
m

PALANGA ART AND
ARCHITECTURE FARM

SITE PLAN



KA House,
Erginoğlu & Çalışlar



House of Chicken,
SO? Architecture and Ideas



Newborn Calf Shelter,
NSMH



Handam Cow Shelter
Mimarlar + Han Tümertekin



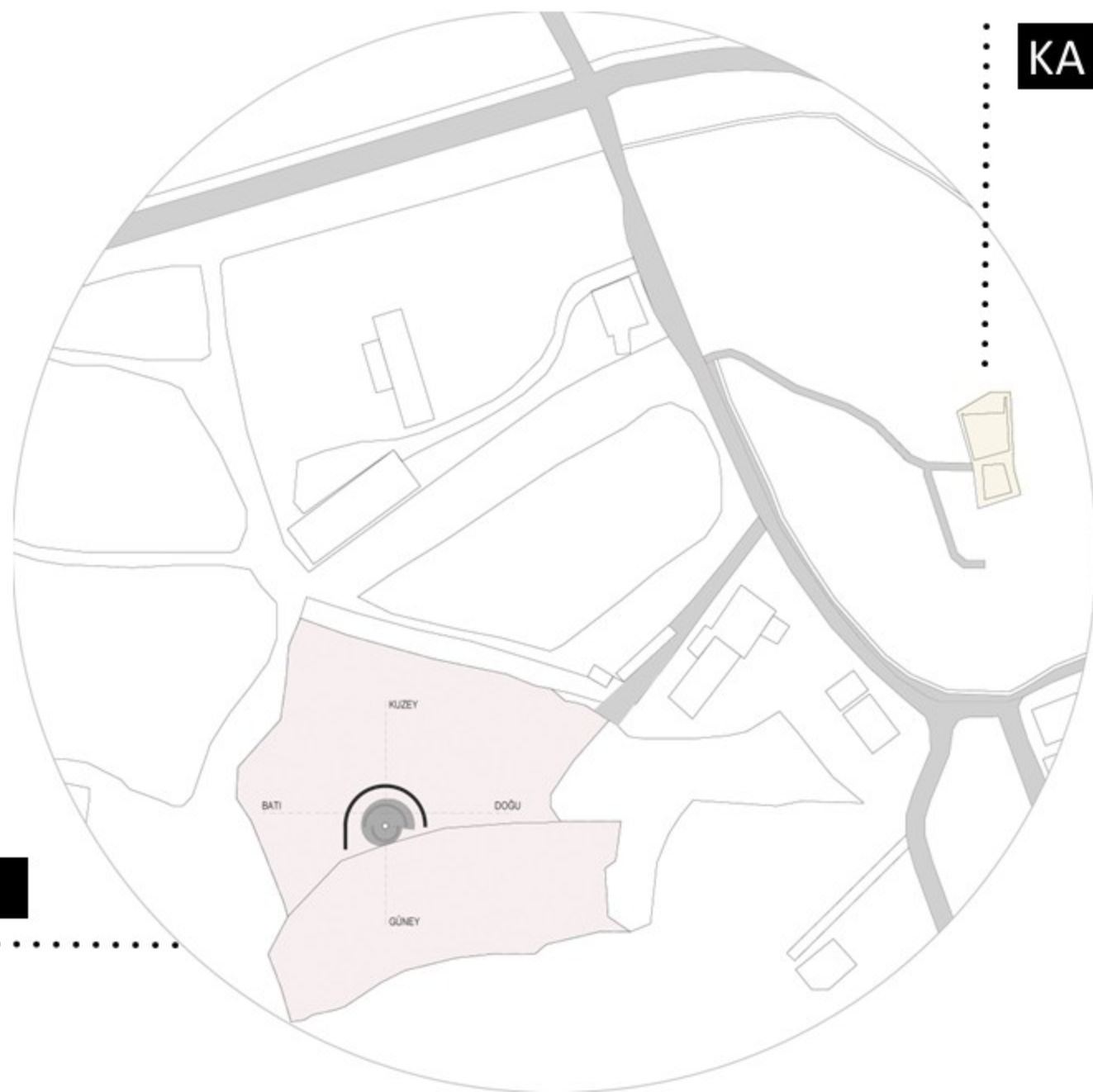
Semi Open Cattle Barn,
IND



Palanga Goat Shelter,
Erginoğlu & Çalışlar



GOAT SHELTER



KA HOUSE



KA HOUSE

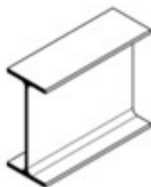


GOAT SHELTER

ATYPICAL GEOMETRY

FRAME SYSTEM
STEEL

IMPORTED



GEOMETRY

STRUCTURE

MATERIAL

SELF-SUPPORTING STRUCTURE
SEMI-CIRCULAR WALLS, CONICAL FORM

MASONARY SYSTEM
RAMMED EARTH, STONE

LOCAL MATERIAL







STONE



EARTH



WOOD



BRUSHWOOD



ROPE



..... NATURAL LOCAL MATERIALS

ROOF COVERING

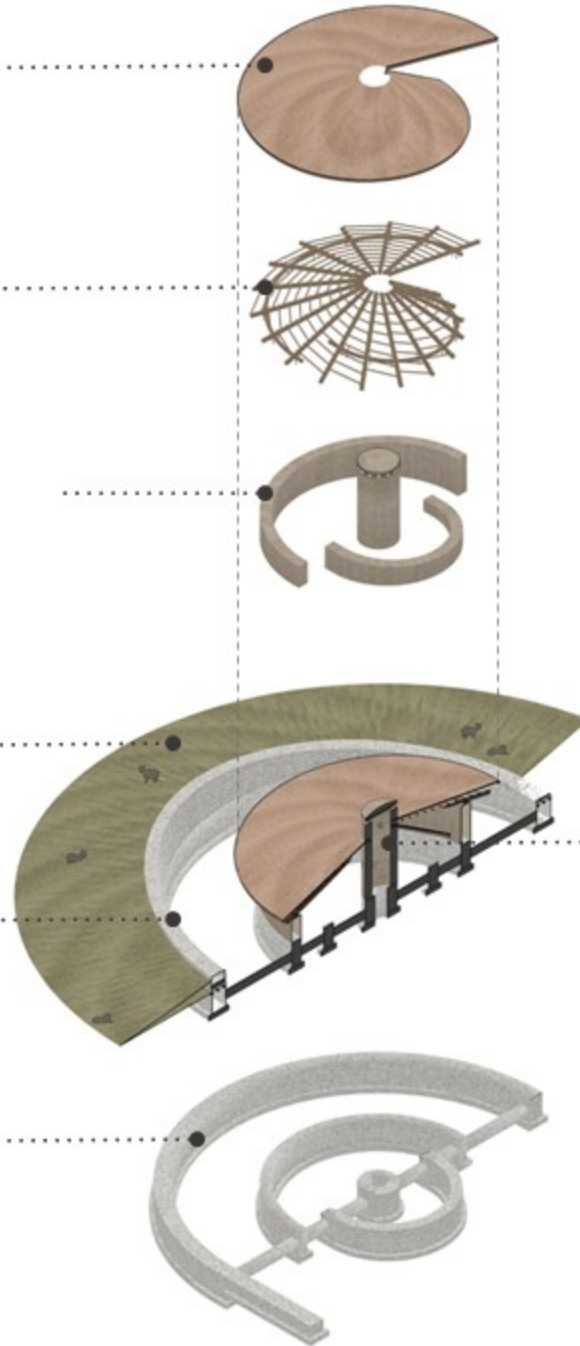
WOODEN ROOF STRUCTURE

EARTH WALLS and CENTRAL COLUMN

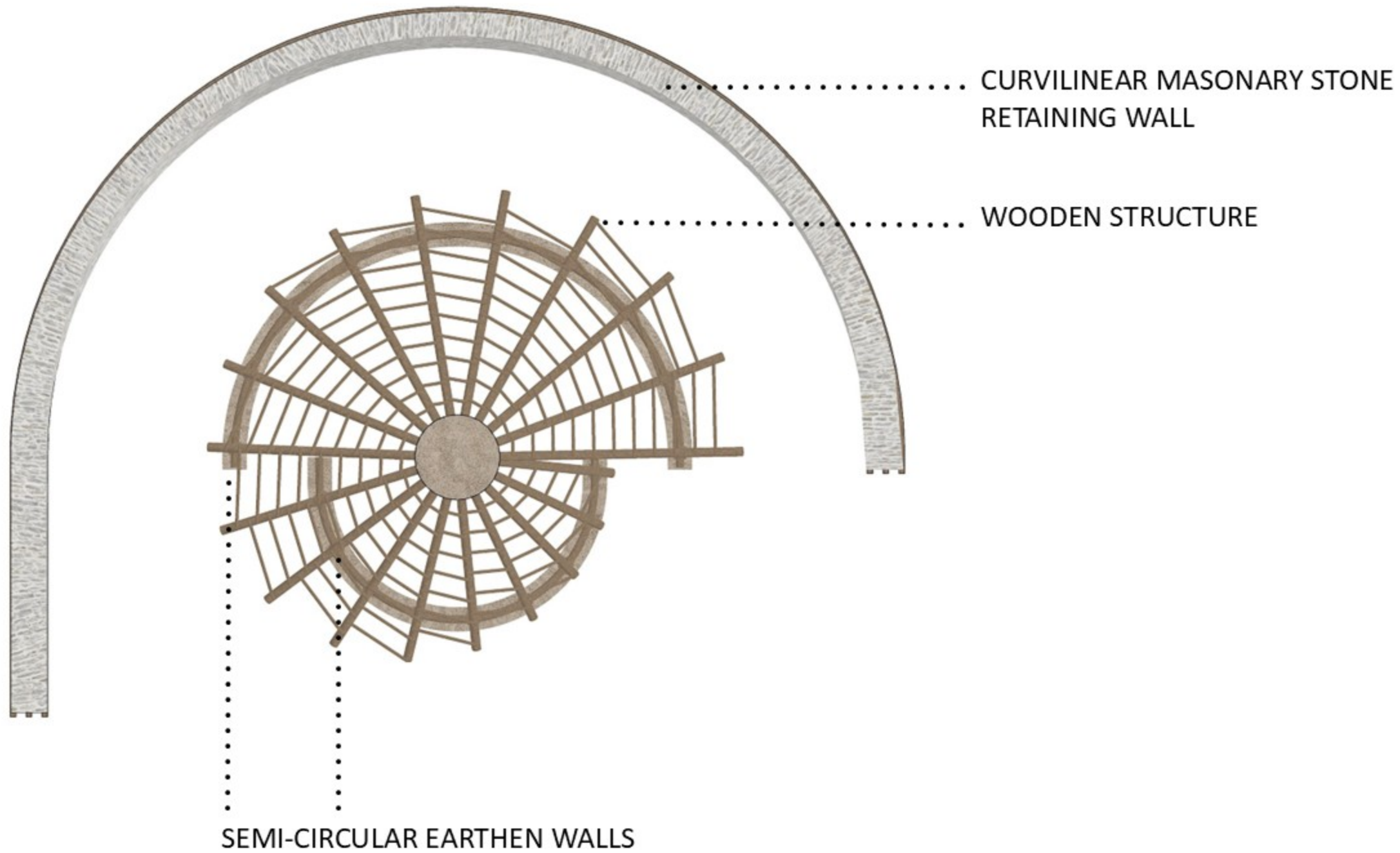
ARTIFICIAL TOPOGRAPHY.....
as wind barrier

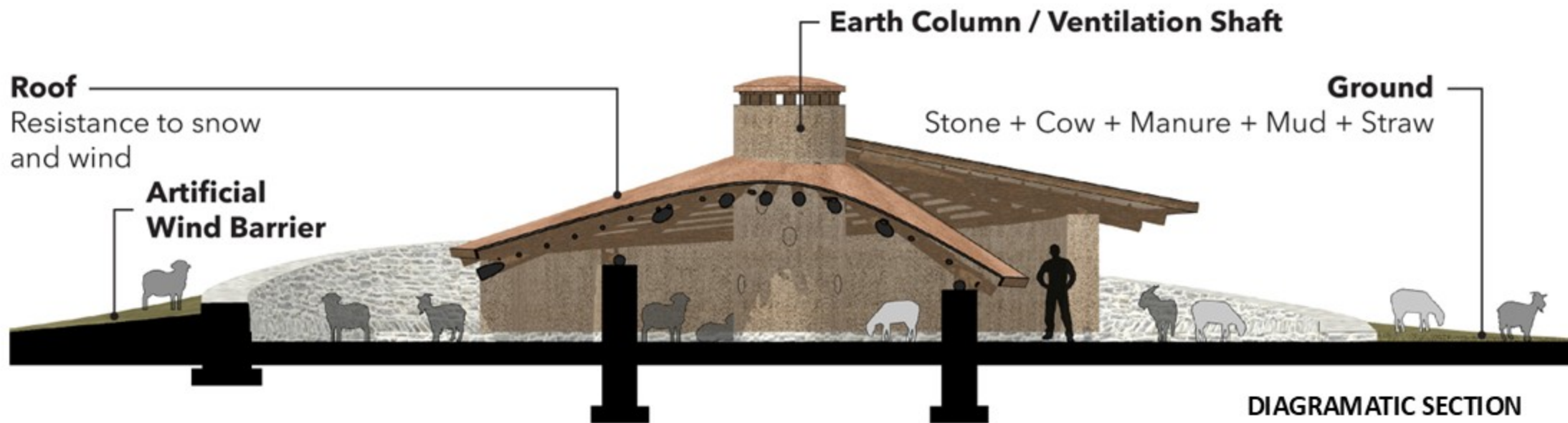
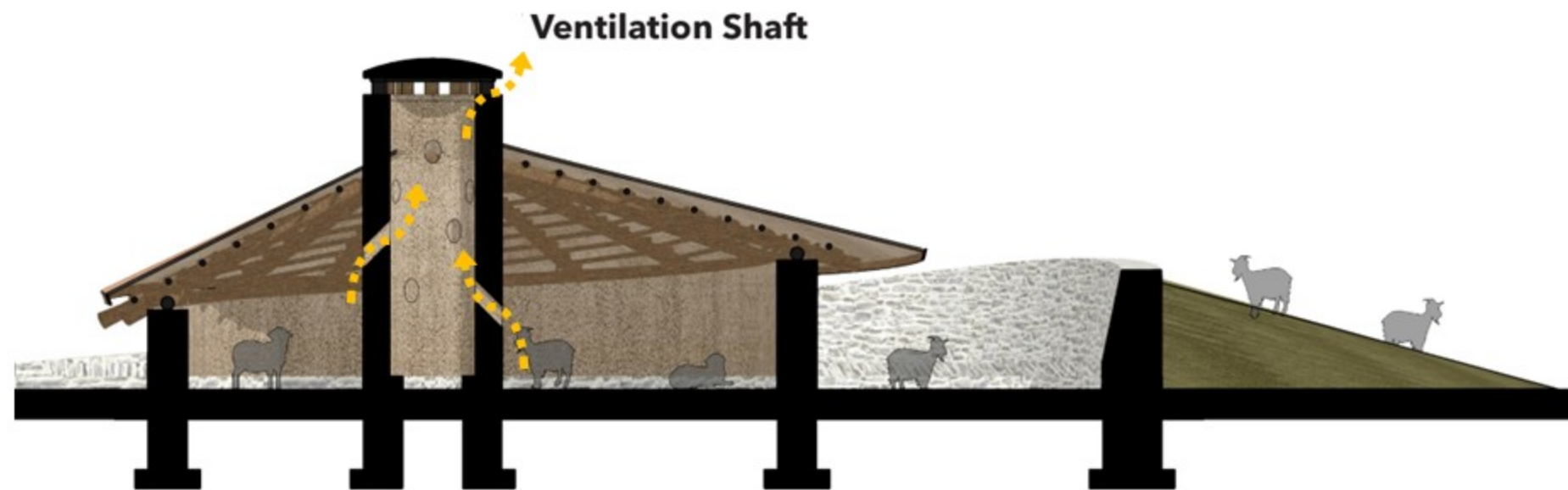
RETAINING STONE WALL.....

STONE FOUNDATION.....



RAMMED EARTH CENTRAL COLUMN-
VENTILATION SHAFT



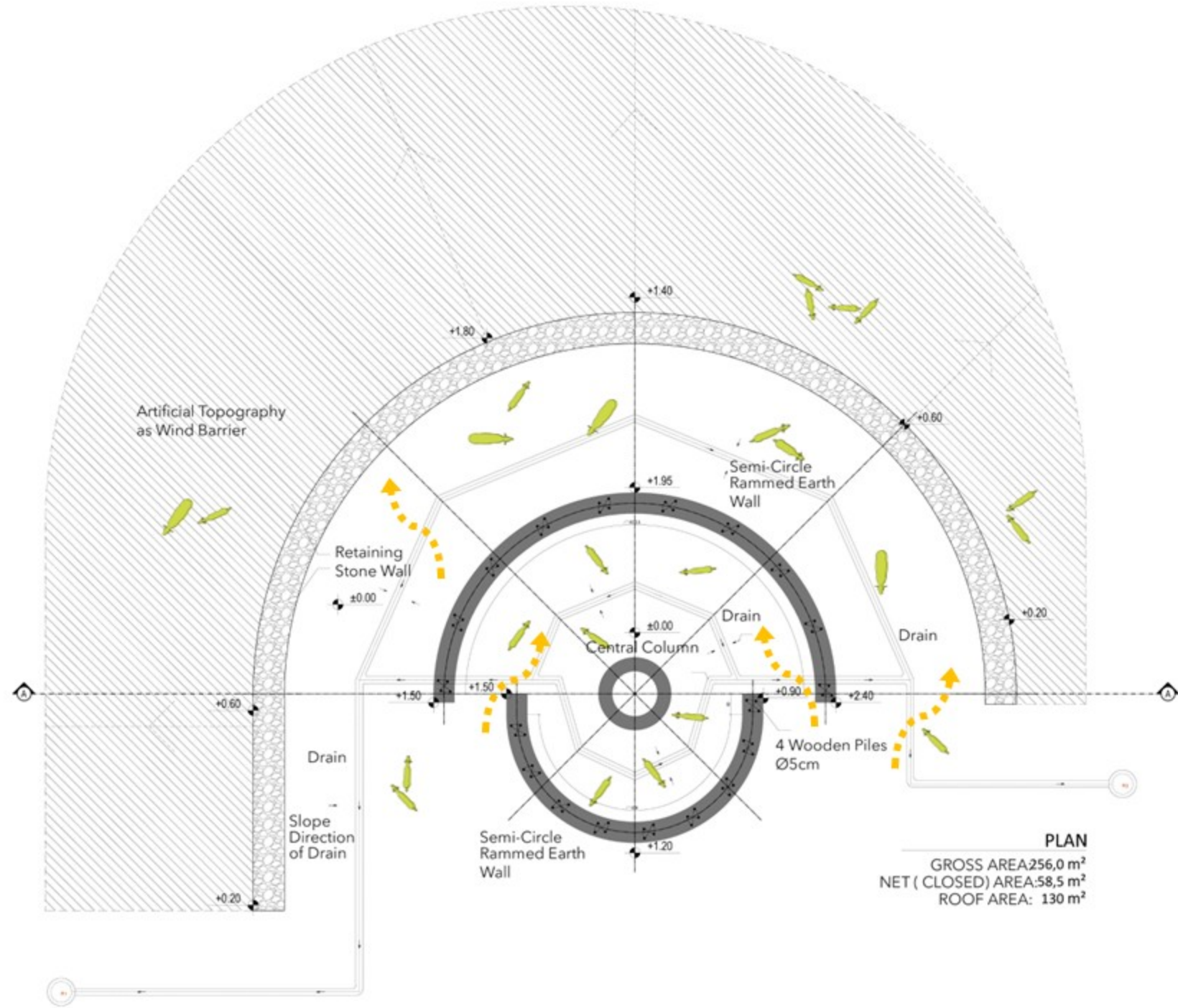




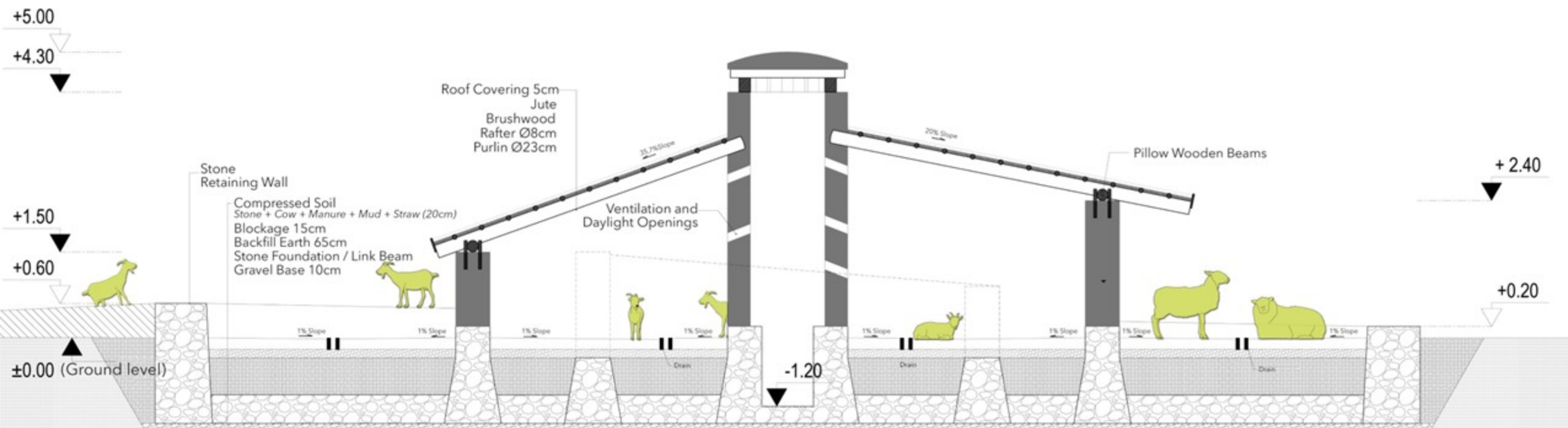
ROOF AND WIND BARRIER RELATION

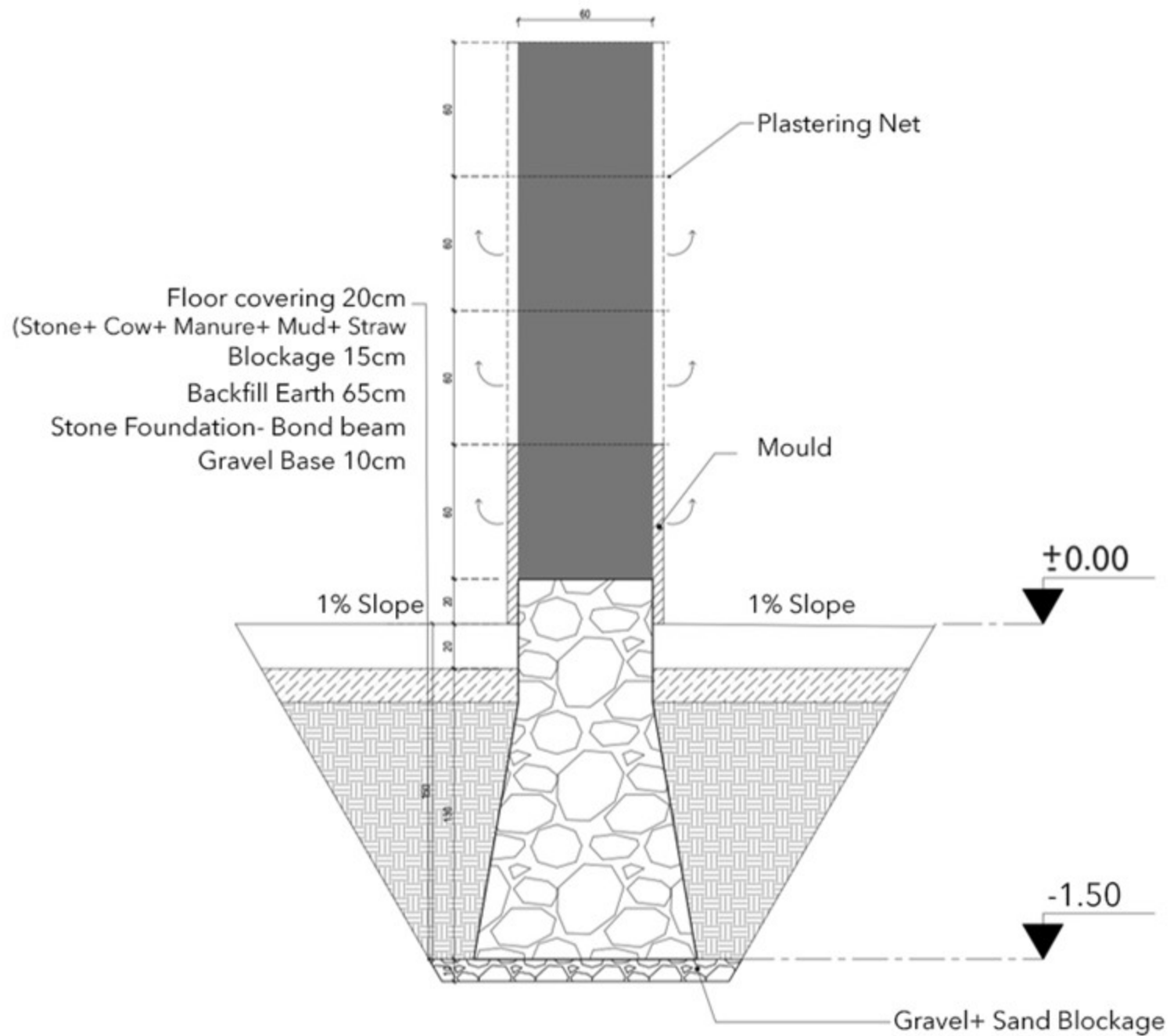


ROOF BEHIND THE WIND BARRIER



PLAN
GROSS AREA: 256,0 m²
NET (CLOSED) AREA: 58,5 m²
ROOF AREA: 130 m²





- Compressing the soil poured between the molds



- Layers after ramming process



Rammed Earth Workshop with the sample soils from Erzincan, 26 May 2021,
Participants: Prof. Dr. Bilge Işık, Suat Işık, Suat Güvenç, Dilara Demiralp

FOUNDATION





OCTOBER, 2019



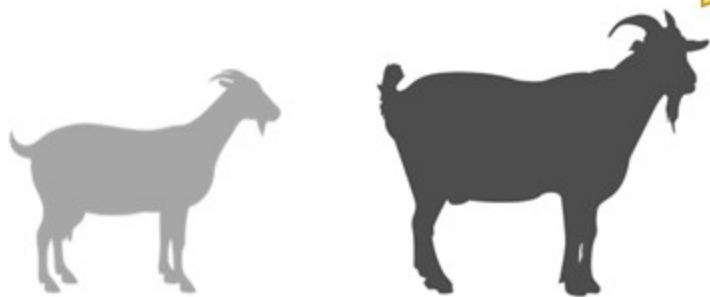
BLOCKAGE LAYER and KHORASAN MORTAR MATERIALS



STONE FOUNDATION

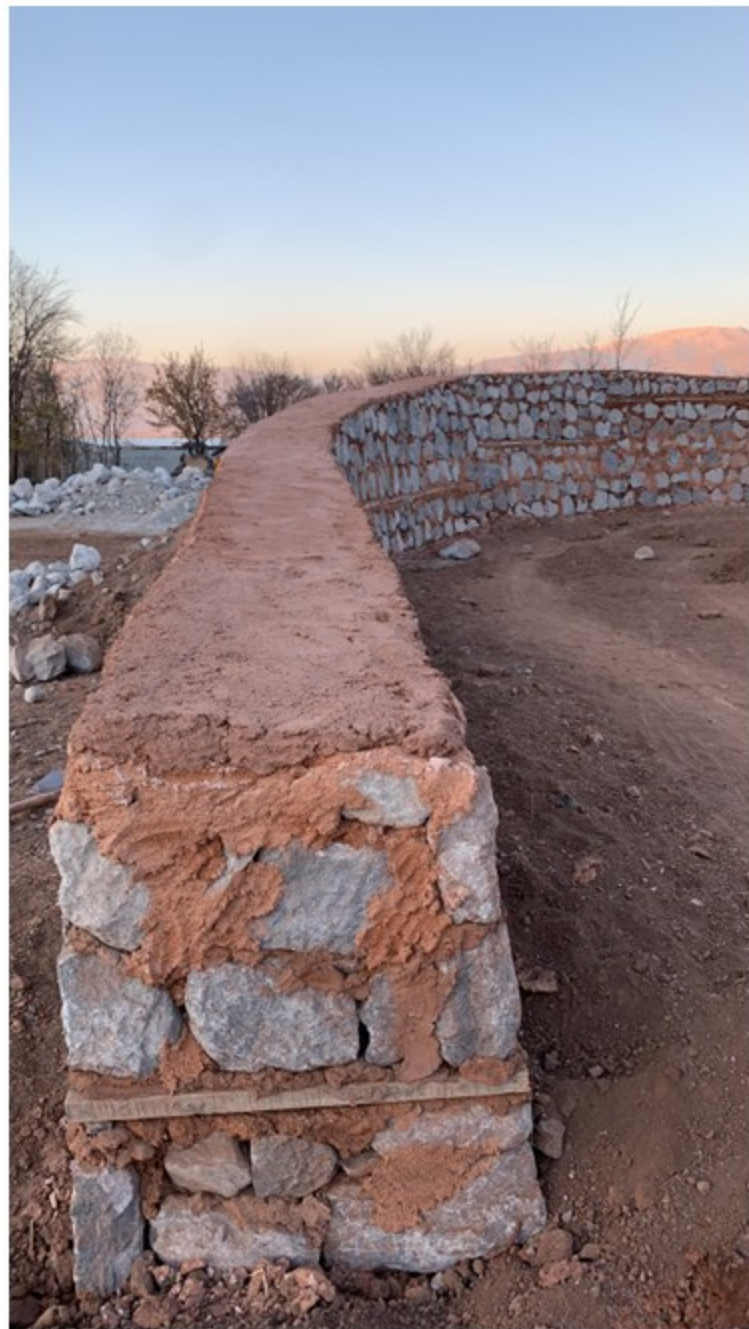


STONE RETAINING WALL





WOODEN BOND BEAMS



STONE RETAINING WALL



WIND BARRIER



EARTH WALLS

PLYWOOD MOULDS



Wall molds made of plywood

COMPRESSIVE STRENGTH TESTS



Soil samples were tested for compressive strength, Erzincan Binali Yıldırım University,
22 October 2020





The first 60 cm of the two main earth walls were built, 10 June 2021



Soil mixture samples at different ratios were prepared and poured into the mold, 20 June 2021

WE FAILED



**BUT
WE NEVER GIVE UP!**





WE DID EXPERIMENTS!





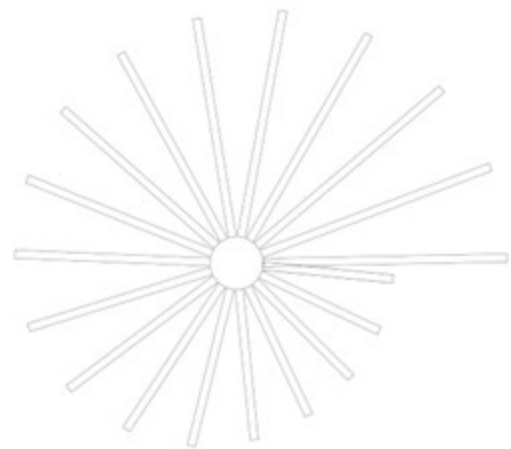
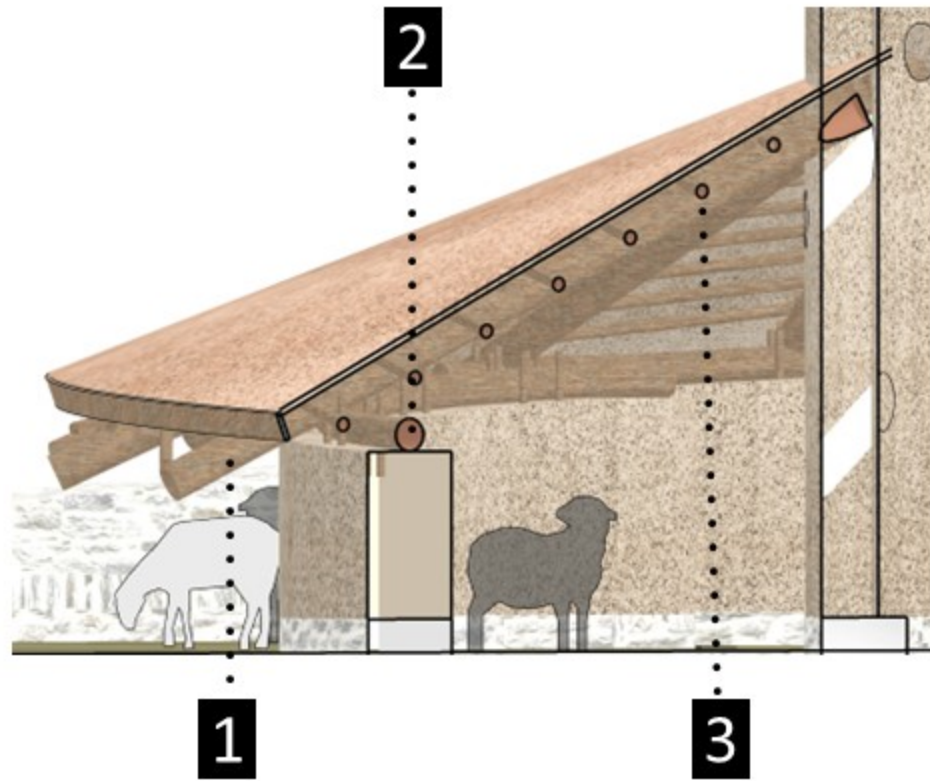
YESS!



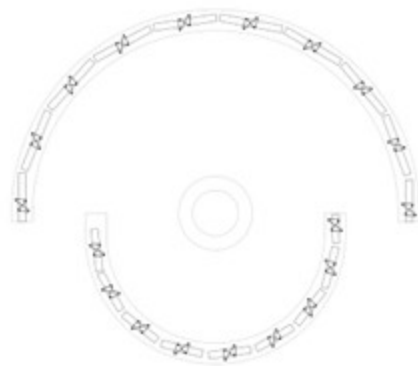




ROOF



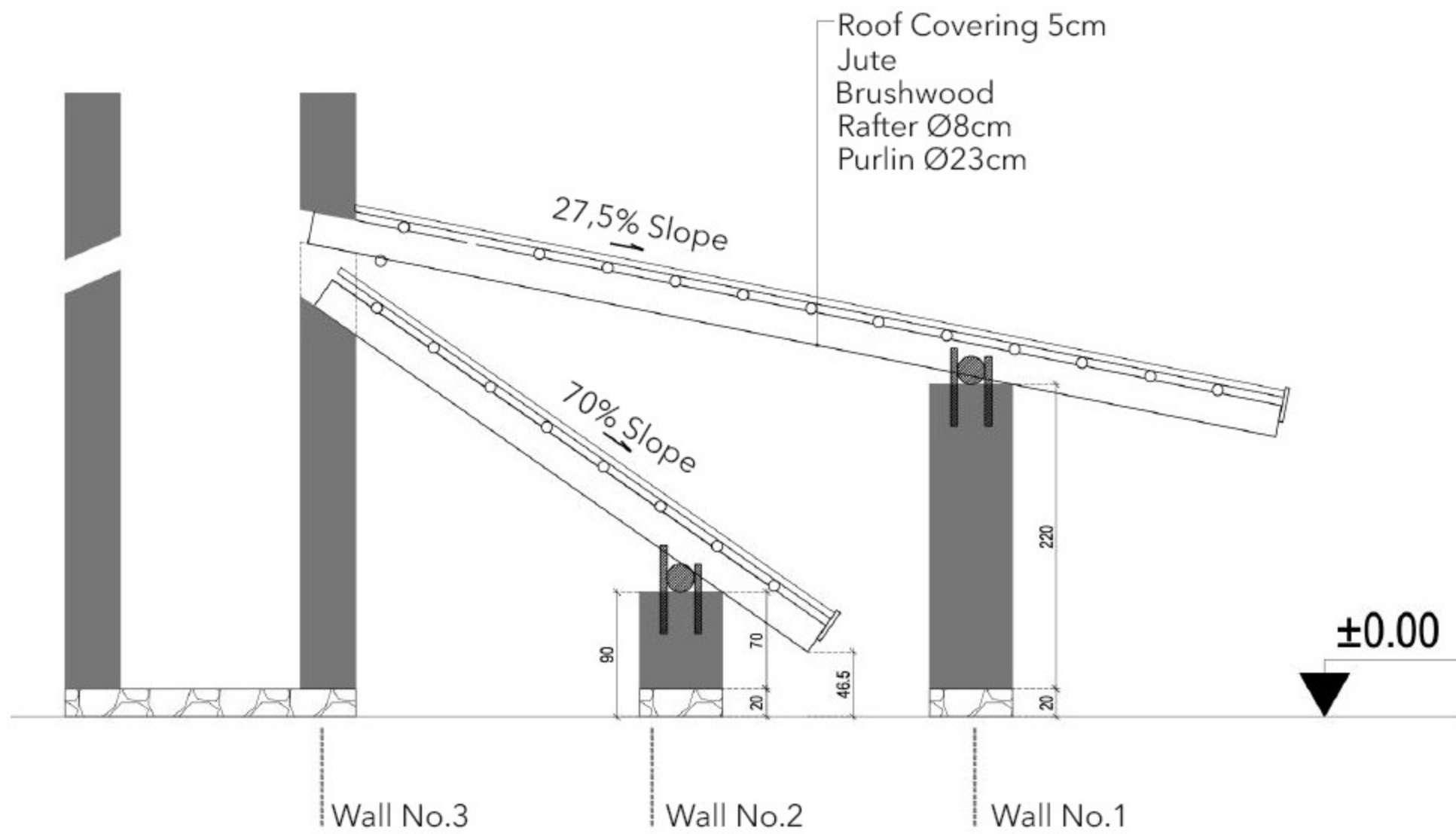
1 PURLINS



2 PILLOW WOODEN BEAM
CONNECTION POINTS



3 RAFTERS





LOCAL POPLAR TREES



POPLAR TREE DRYING METHOD



**PLACEMENT PROCESS OF WOODEN ROOF ELEMENTS:
PURLINS, RAFTERS, BRUSHWOOD, JUTE, COVERING**



Layers visible during roofing, 31 August 2021

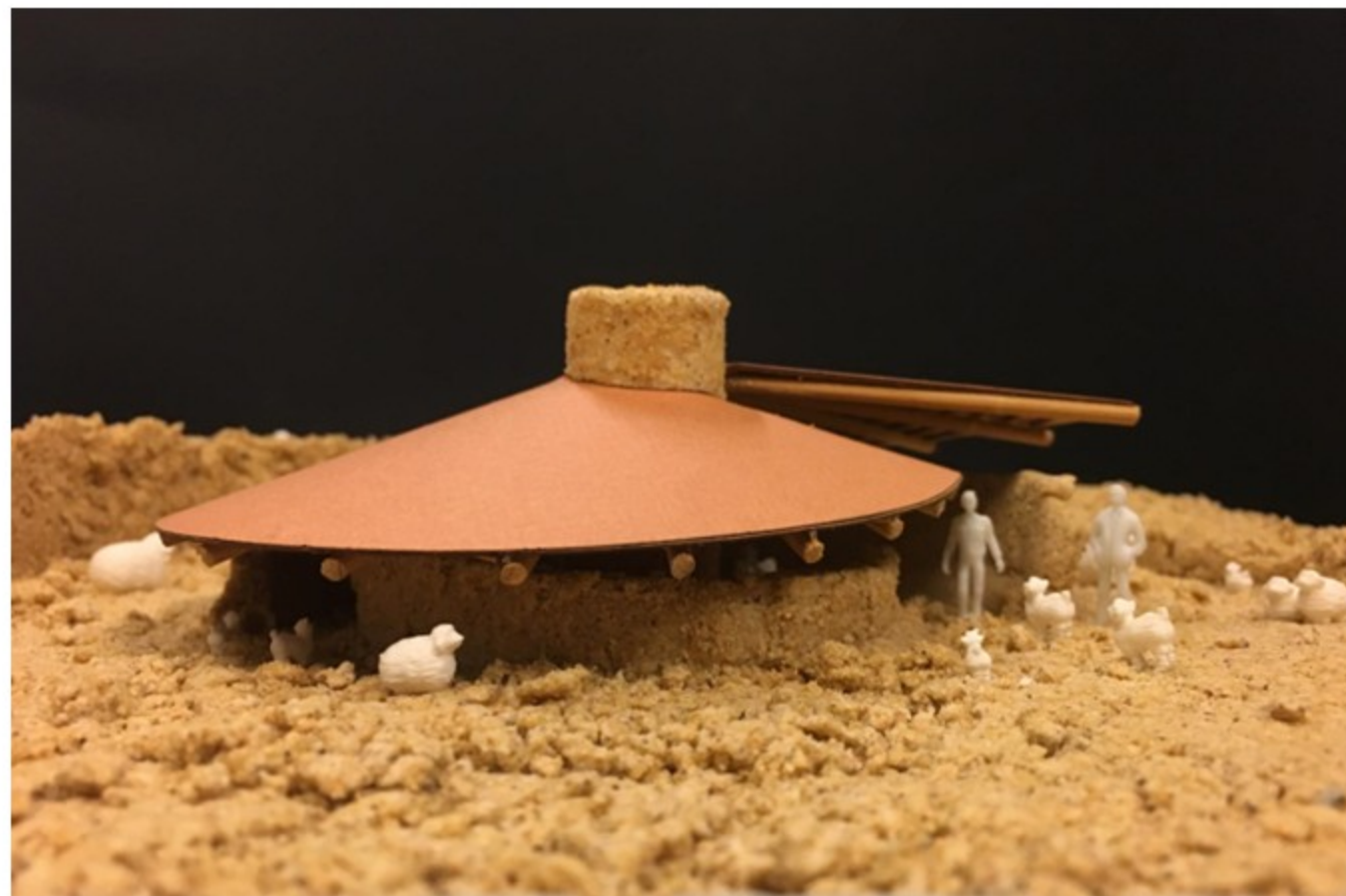
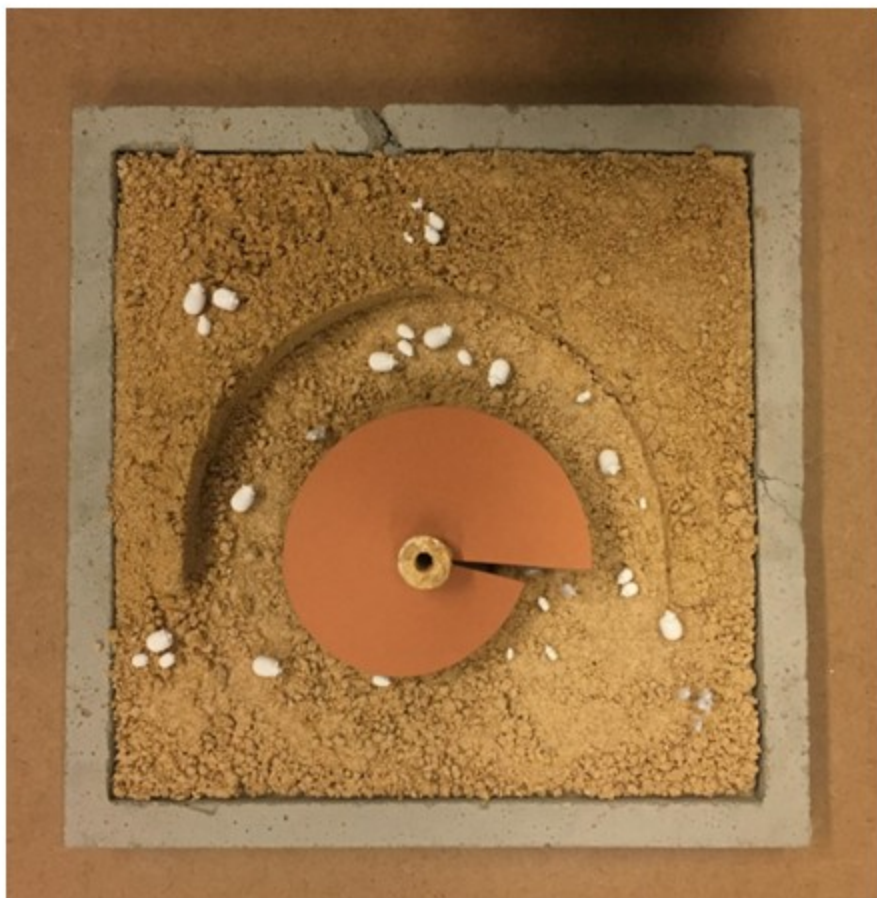












Model by Katharina Anna Thomas

Design Team:

Hasan Çalışlar
Kerem Erginoğlu
Dilara Demiralp

Client: PAAF

Consultants:

Mustafa Çakalgöz (Arkeolog / Archaeologist)
Suat Güvenç (İnşaat Mühendisi/Civil Engineer)
Bilge Işık (Akademisyen Mimar / Academician, Architect)

LET'S GOO!

