

Neighborhood Centre 3.0

The whole construction sector is facing serious pollution and supply chain issues. Our global systems grinding to a halt and force us to rethink how, and with what we can build.

With **Neighborhood Centre 3.0** I propose to kickstart a new way of thinking, researching hyperlocal resources I came to the conclusion to construct with a light, unfired adobe brick from local soil and developed 3 different ways of applying them in construction fit for our local climate.

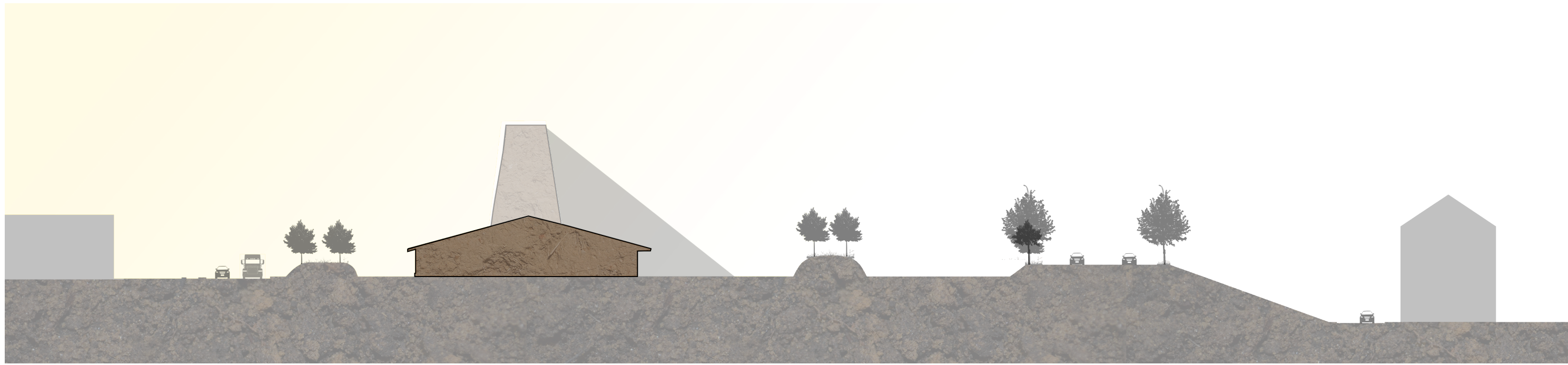
The site at Marconistraat has the potential to be the core of the neighborhood-to-come. It will function not only as a community hub, but also supplies the area with examples and means of production to build the new neighborhood in a healthy and sustainable way.



location plan 1:1000



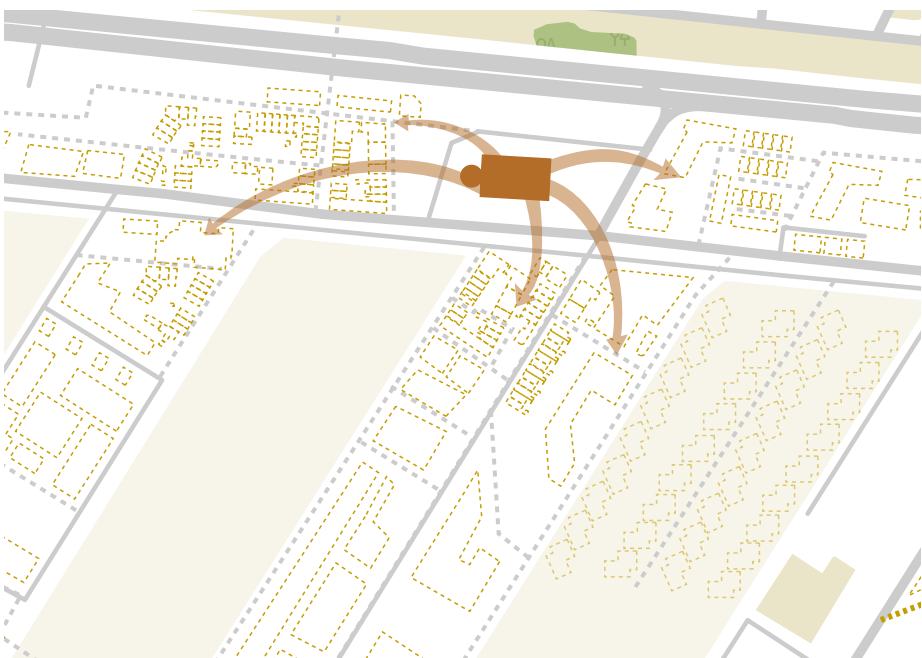
Situation plan 1:500



Situation section 1:500



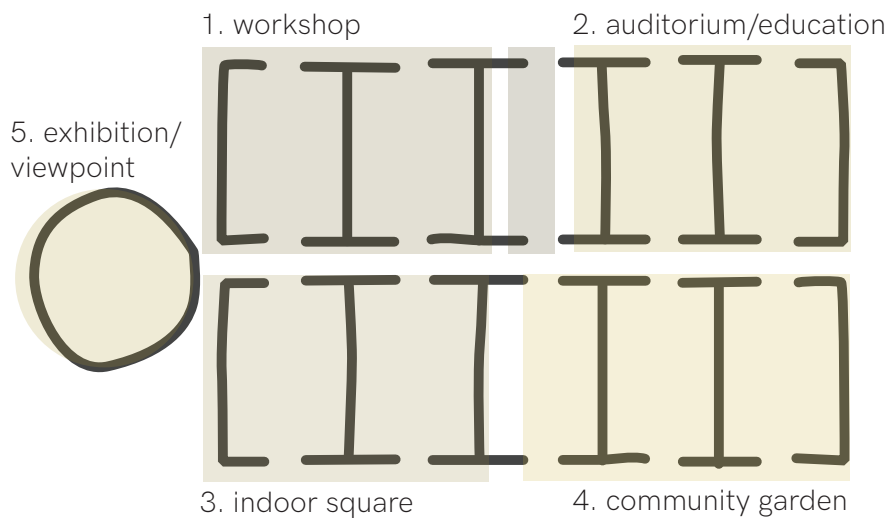
The site is at the natural centre of a new development.



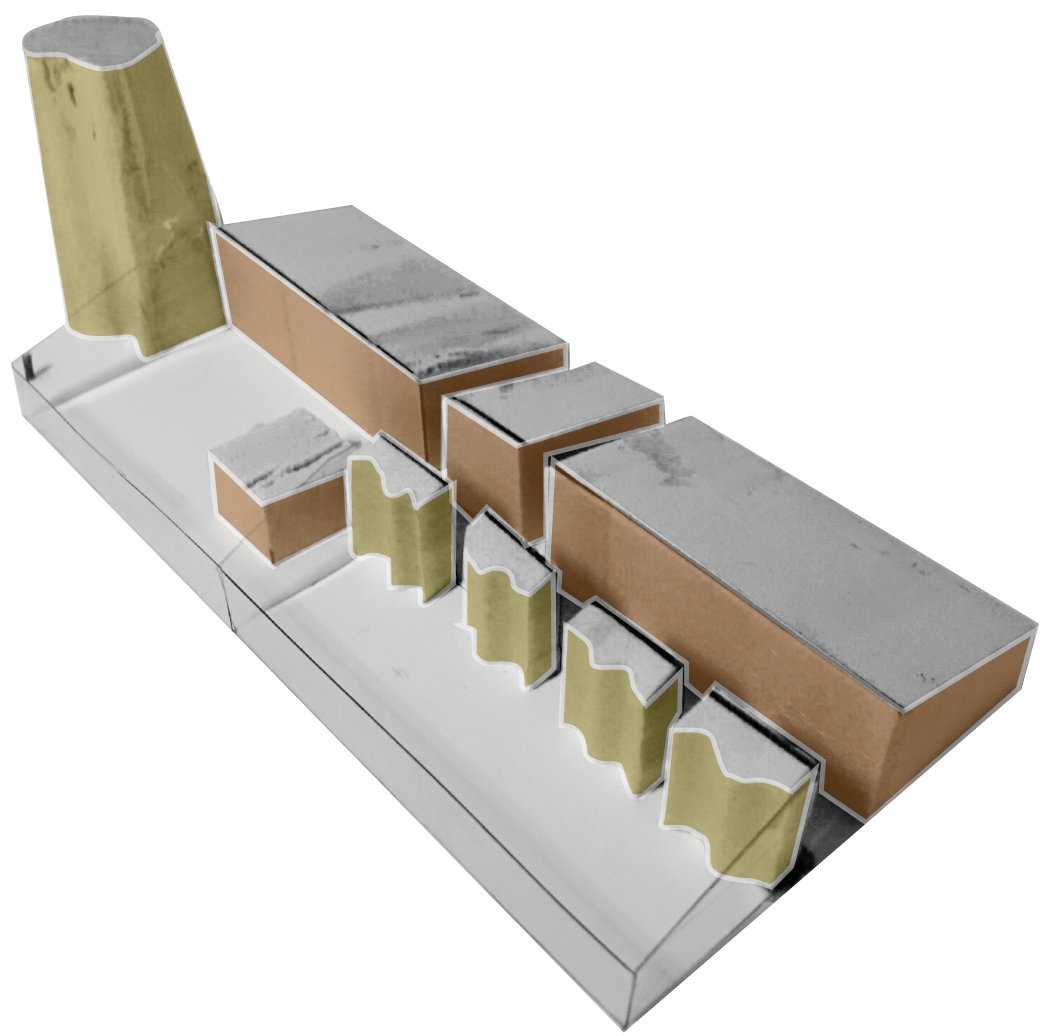
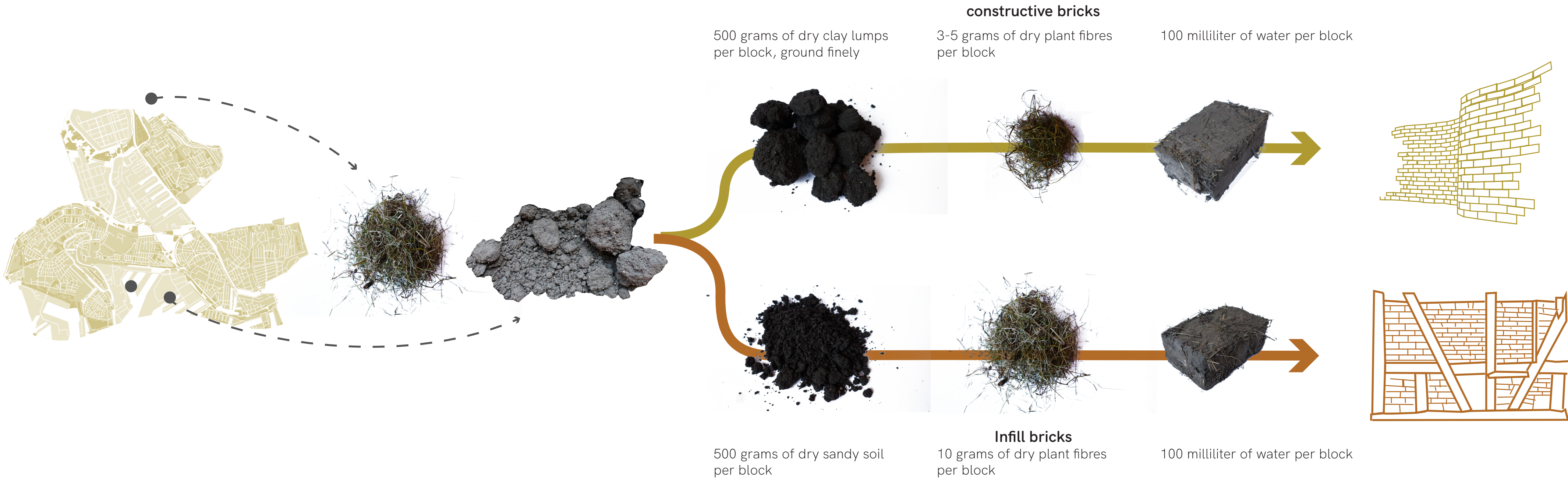
The building as the centre and start of the new neighborhood.
Functioning as community and production centre.



A dutch brick oven as the main reference.



The new program projected on the basic layout of the brick oven. The central hallway leading to the chimney is the main artery for the chambers.



Sourcing materials hyperlocal

1. Plant waste from greenhouses
2. Rotterdam soil

The Rotterdam soil is dried and seperated in clay lumps and more sandy soil

Plant waste is soaked and mixed with the soil

The mixture is shaped in a mould and dries

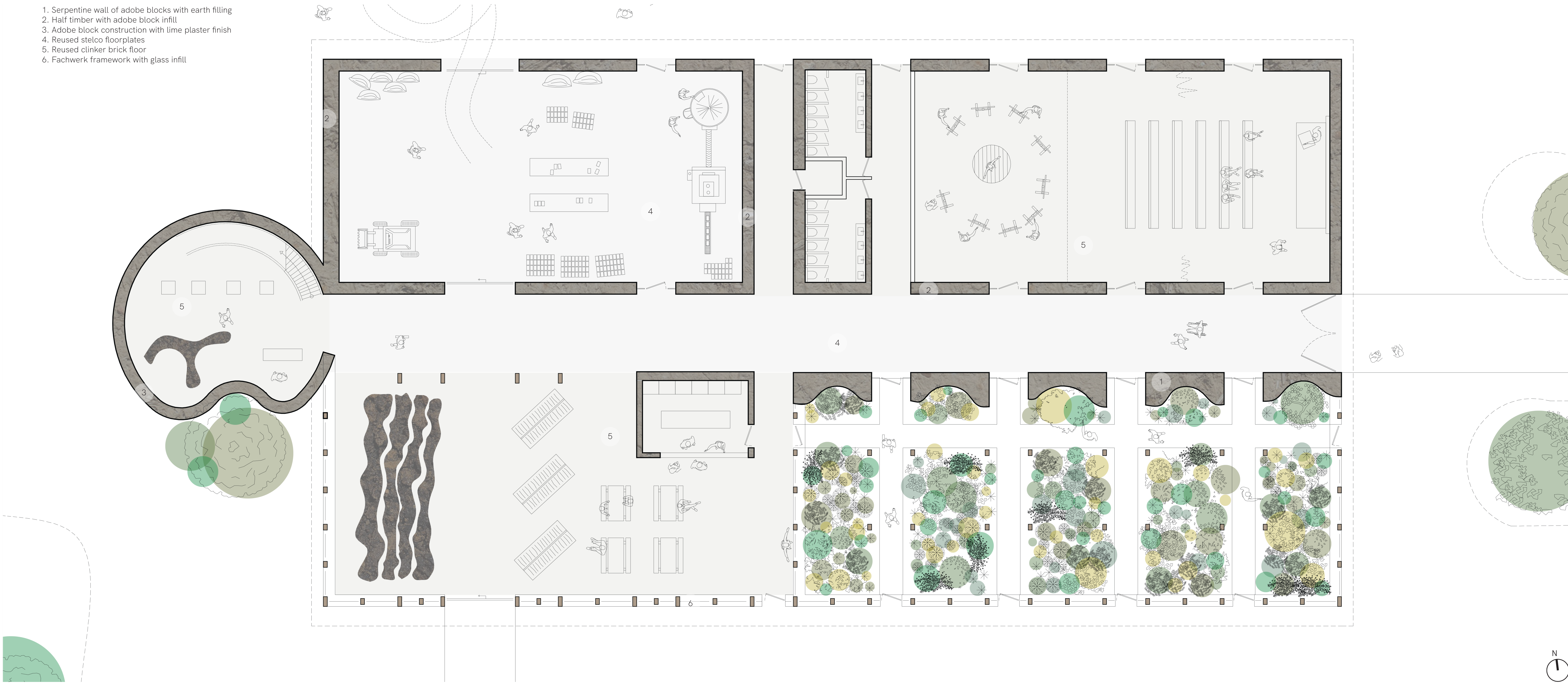
Different bricks can be used for different techniques

The building uses different construction methods so all soil can be used

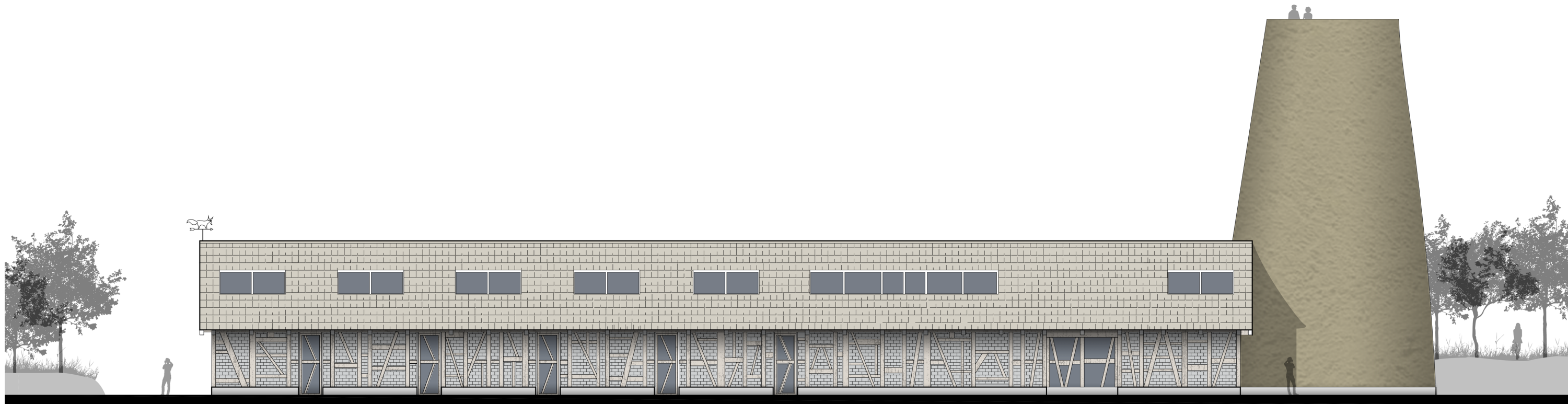


Impression

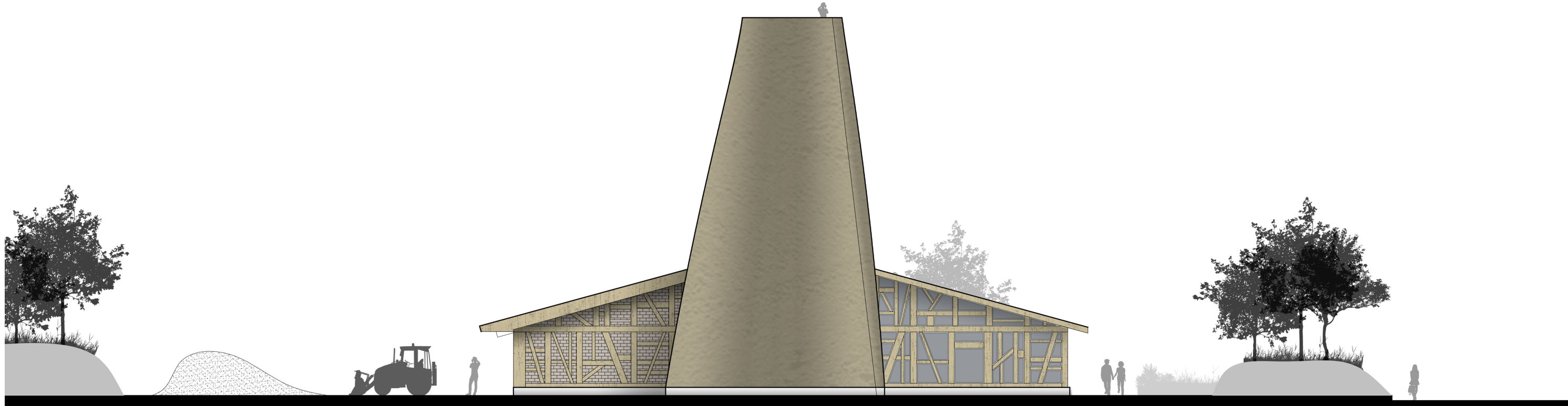
- 1. Serpentine wall of adobe blocks with earth filling
- 2. Half timber with adobe block infill
- 3. Adobe block construction with lime plaster finish
- 4. Reused stelco floorplates
- 5. Reused clinker brick floor
- 6. Fachwerk framework with glass infill



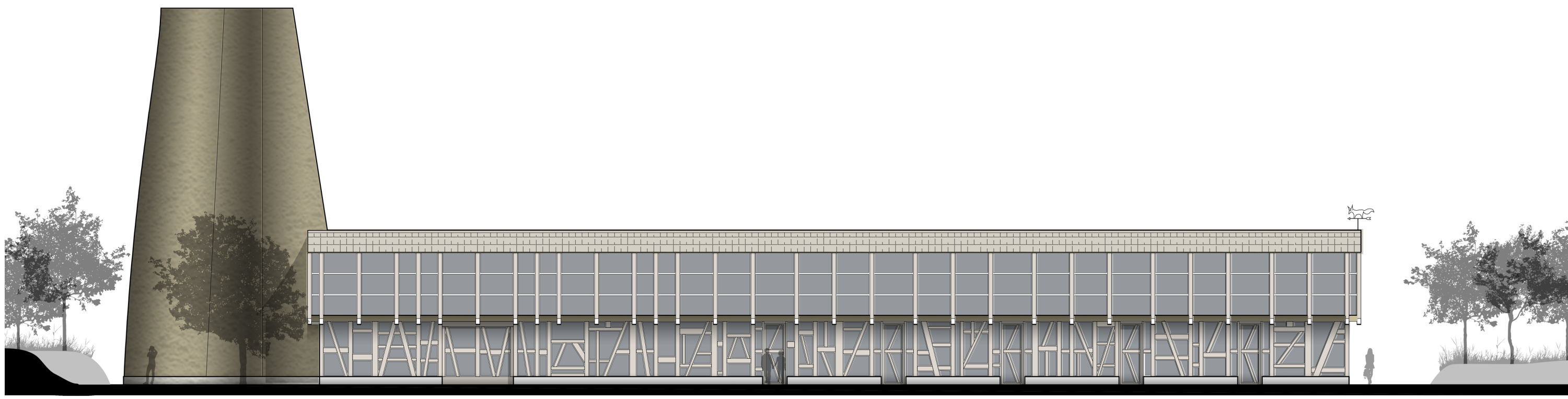
Plan view "inside" 1:100



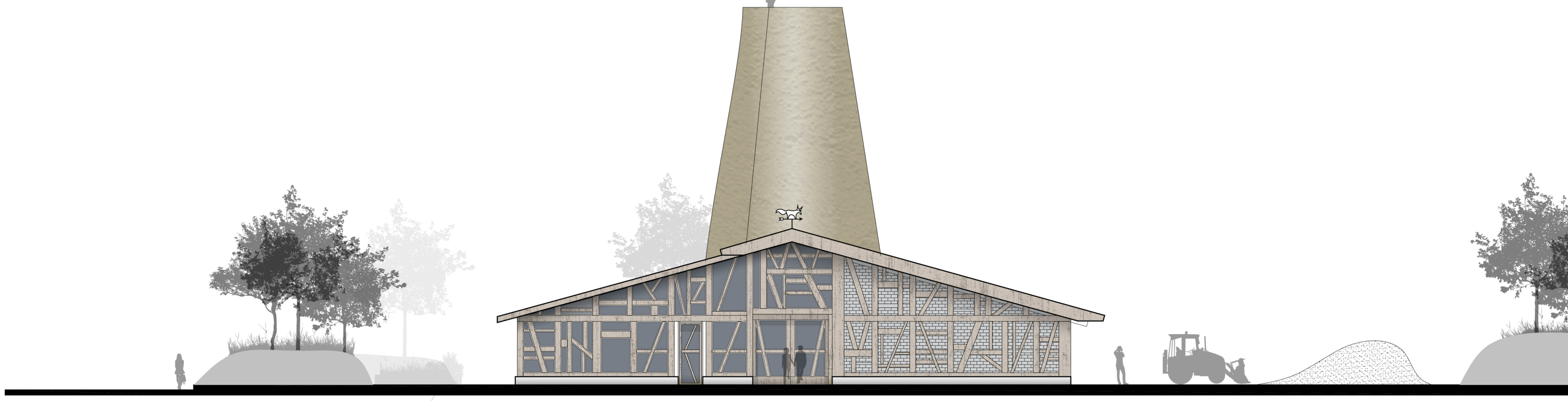
Elevation North 1:200



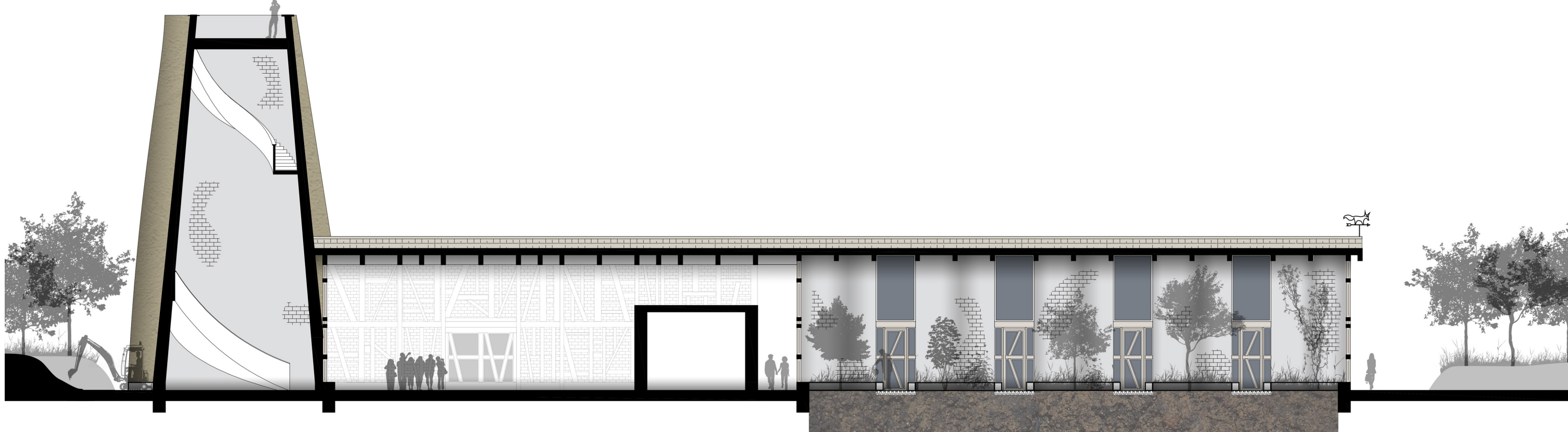
Elevation West 1:200



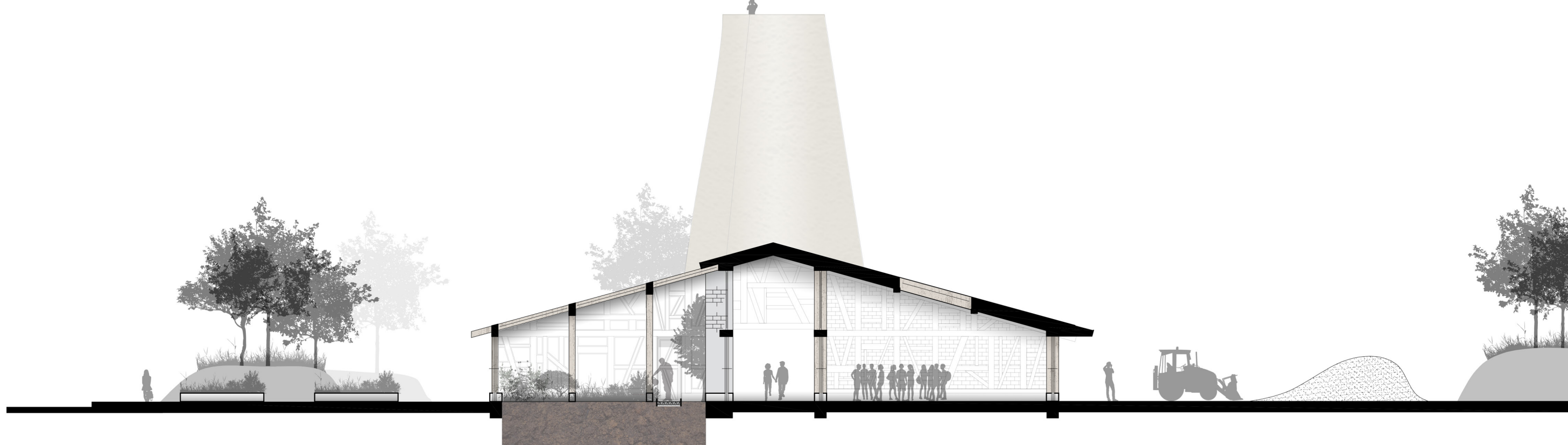
Elevation South 1:200



Elevation East 1:200



Section West-East 1:200



Section South-North 1:200

- 1. Serpentine wall of adobe blocks with earth filling
- 2. Half timber with adobe block infill
- 3. Adobe block construction with lime plaster finish
- 4. Reused stelco floorplates
- 5. Reused clinker brick floor
- 6. Fachwerk framework with glass infill
- 7. Wooden shingles 700x300mm



Detailed Section South-North "inside outside" 1:50