

# VerSus International Student Competition

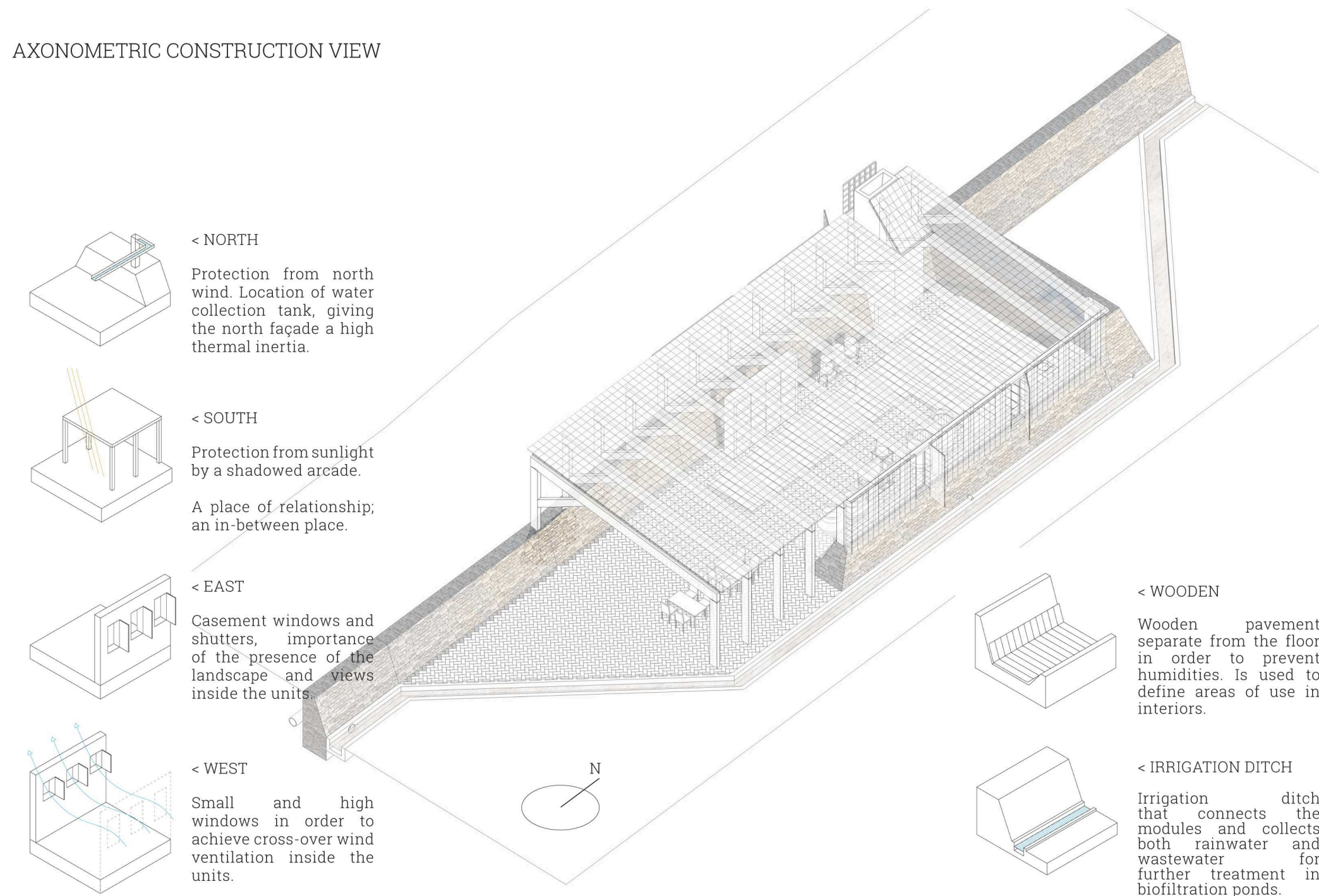
## Poster 2: Project and Solutions

Authors: Alejandro García Pedrón, Raquel Sola Rubio

# 2

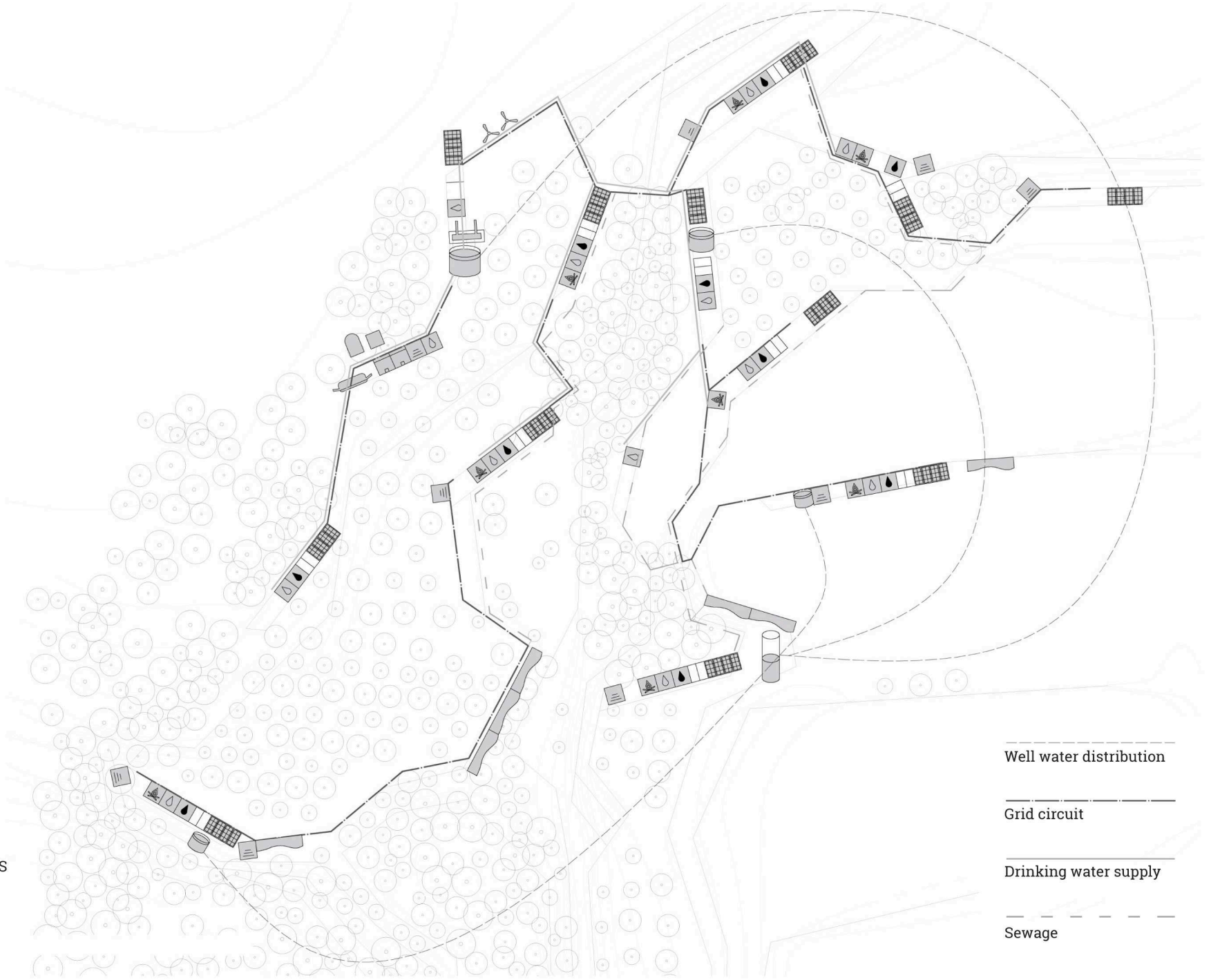
### CONTEMPORARY RURAL SETTLEMENT IN LOS PEDRONES (VALENCIA)

#### AXONOMETRIC CONSTRUCTION VIEW

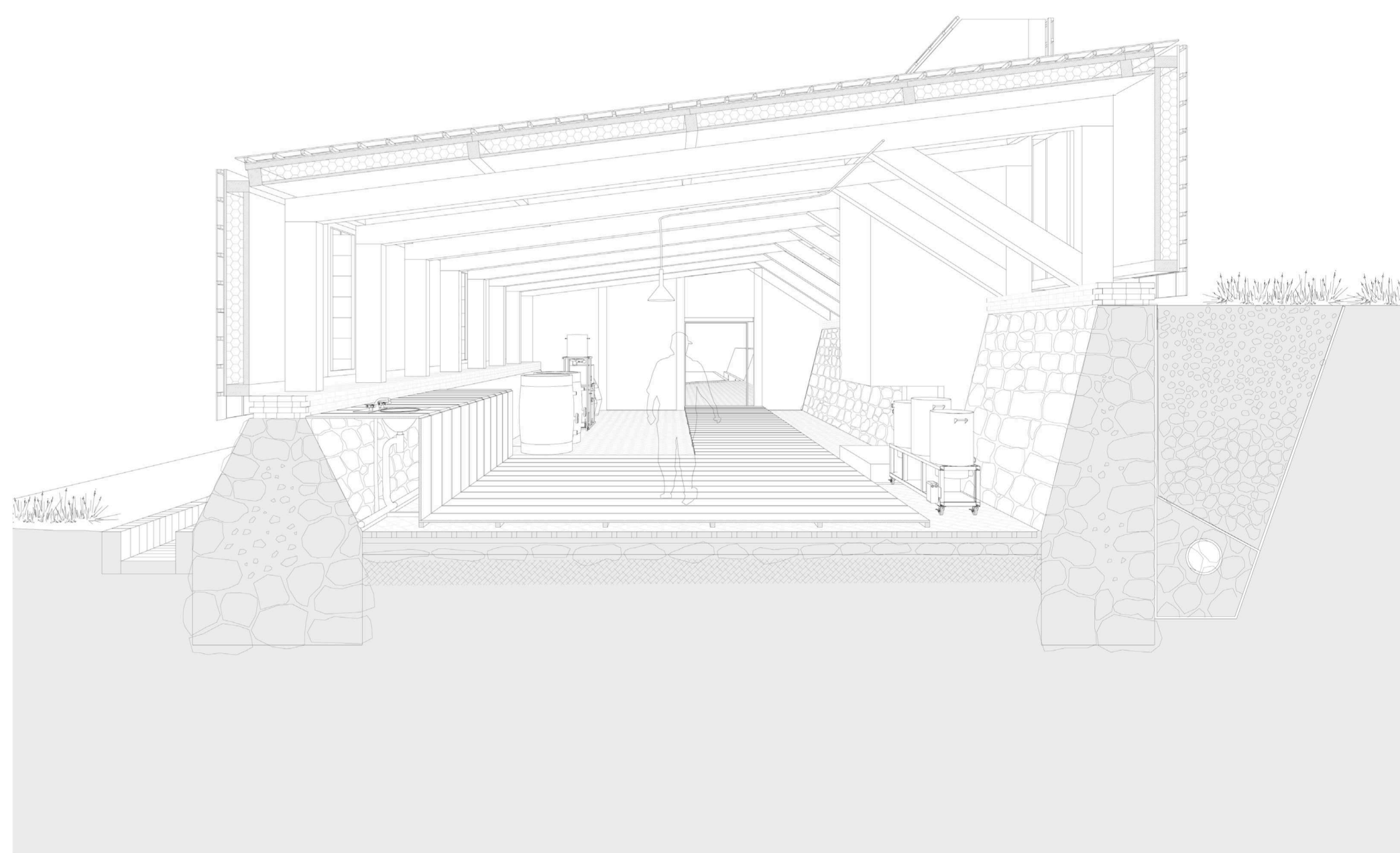


#### ENERGY CYCLES

- GAS
- DRINKING WATER
- HOT WATER
- WATER TANK
- TURBINE
- WELL
- BIOFILTRATION POND
- WATER TREATMENT
- WASTE CONTAINERS
- WASTE COMPOSTING
- DIGESTER
- PHOTOVOLTAIC PANELS
- DRY TOILET



#### CROSS SECTION MODULE, CONSTRUCTIVE DETAIL scale: 1/30



The new terraces (stone walls) are constructed including waterproofing and insulating surfaces in the backfill of the wall. A wood surface that softens the environment will extend the interior spaces that require more warmth. The installations will run below the floating floor or anchored to the cover. To receive the upper part will be necessary to regularize the surface using CEB (compressed earth block).

The upper part is understood as an element resting on the stone base, on the terraces. The structure is constructed with solid pine wood of the place, sawn a few miles from the site of work. There is a regular modulation of 2,5 meters. The structure supports panels of insulation and waterproofing. The exterior is finished with ceramic tiles.

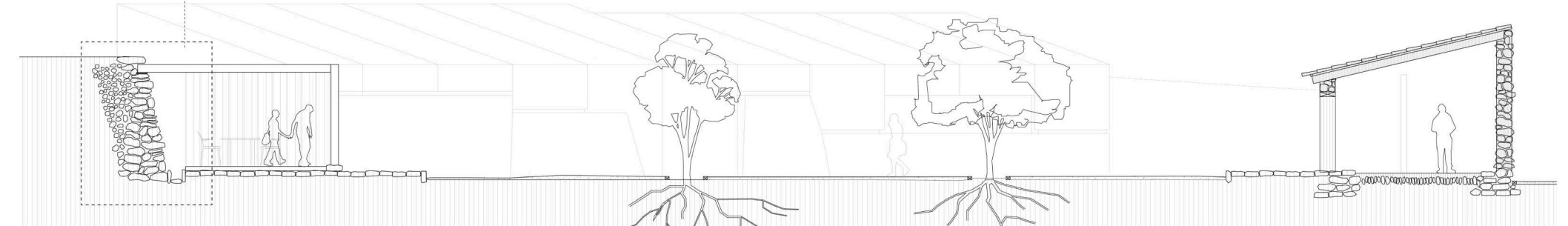
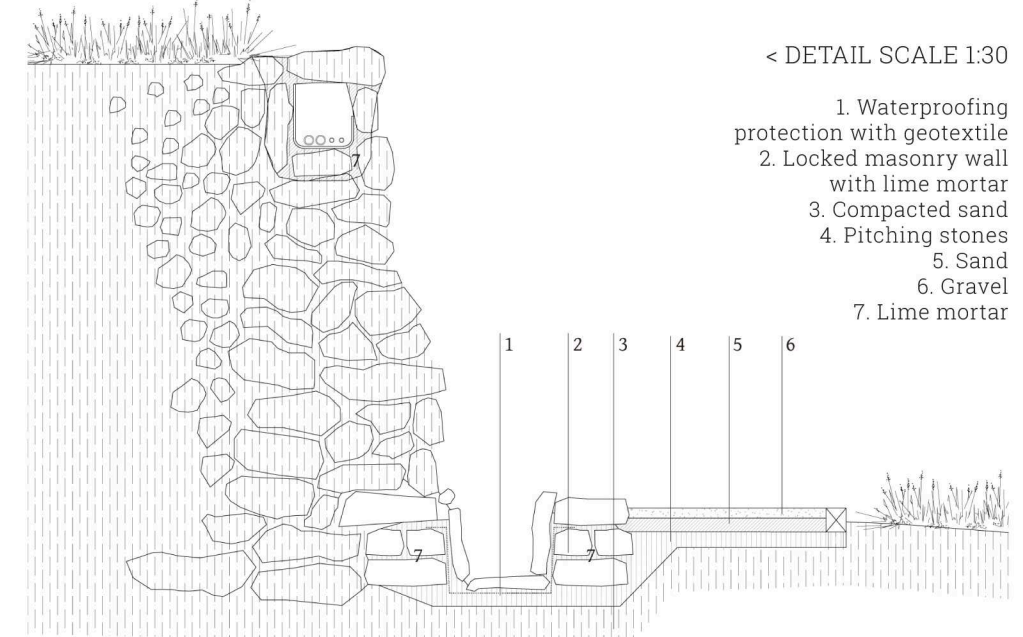


**< CONCEPT MODEL**  
The stone has been removed from the project site. The wood, polished and treated in a woodworking shop to give it abstract.

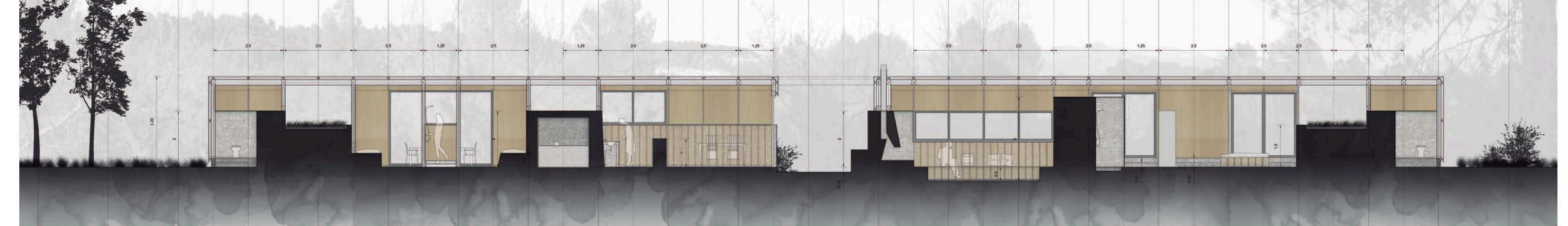
#### IMPLANTATION AND SUSTAINABILITY

To understand that this place and its strokes are a cultural good, makes sense to use resource and energy supply strategies that do not compromise future generations. There are use construction materials present on the site, like stone and pine wood. Industrialized items are selected according to ecological standards, bioconstruction and nearby availability. The resource network is proposed as a circuit that minimizes waste. There are centralized and distributed installations. To distribute energy and water is used the coping of the new stone walls. Drinking water is pumped and stored in a reservoir. In addition, each module has its own rainwater tank. The units have solar panels and combined with wind turbines provide enough electricity for the settlement. Water treatment is done by irrigation ditches that run parallel the walls and units to a biofiltration pond. Composting toilet are proposed for solid waste treatment and compost making.

#### DRY STONE WALL



#### RESIDENTIAL UNIT \_ LONGITUDINAL SECTION scale: 1/200



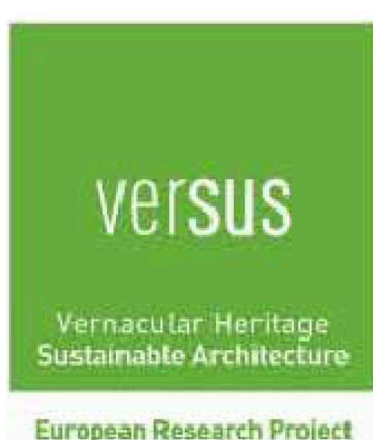
#### RESIDENTIAL UNIT \_ PLAN scale: 1/200



#### GENERAL VIEW



#### INTERIOR VIEW



Project Leader



Partners



With the support of the Culture Programme of the European Union

