

MILD HOME AND ECO GREEN VILLAGE COMPETITION OF IDEAS

COMPETITIA DE IDEI MILD HOME AND ECO GREEN VILLAGE

My Modular, Intelligent, Low cost, Do it yourself nearly zero energy House for our Eco Green Village



GREEN IDENTITY COMPLEX HOMOGENITY

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Question: How can density cohabit with natural landscapes and overcome homogenization?

Answer: Thru complex homogeneity, achieved by reinterpreting the urban tissue specific to the area.

Our layout is a hybrid structure between the city Caransebes, with its squares house blocks that hide orchards and gardens in the middle, and the village Paltinis, with his linear disposition of houses. We've given the green space to the residents, for common use, and minimized the traffic area available now only for bikes and pedestrians, with the exception of loading/unloading, fire truck and ambulance access.

The project organizes a number of green structures and building structures on the basis of a homogeneous matrix of sites. They are defined either by the built frames of different housing structures (row and semi-detached) or by rows of trees and perimeter edible hedges and narrow alleys forming vegetation frames. Landscape architecture encloses architecture and vice versa. The streets run from east to west, taking advantage of the south orientation thru the greenhouses. Urban intensity in a suburban context is created by a great variety of housing structures, pathways, garden types, private and public green spaces.

The whole village layout is dictated by the need to maximize south orientation.

The retention ponds are protected by an area of dense vegetation.

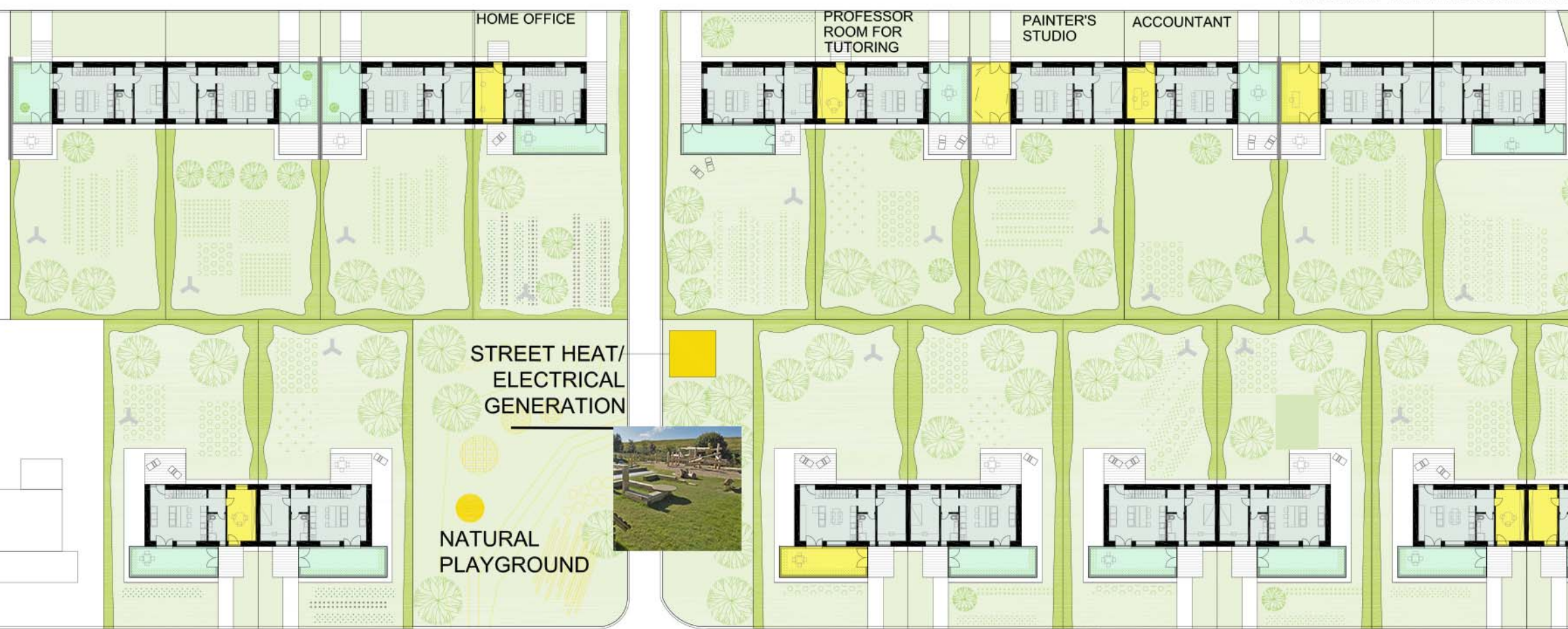
The project takes into account the connection to the existing traffic structure, and manages to create a hierarchy: the county road, the loop road that encompasses the public spaces, the bicycle and pedestrian paths that end in the scenic bicycle path at the fringe of the site, the narrow alleys that make the house blocks permeable.

SCALE 1:2000

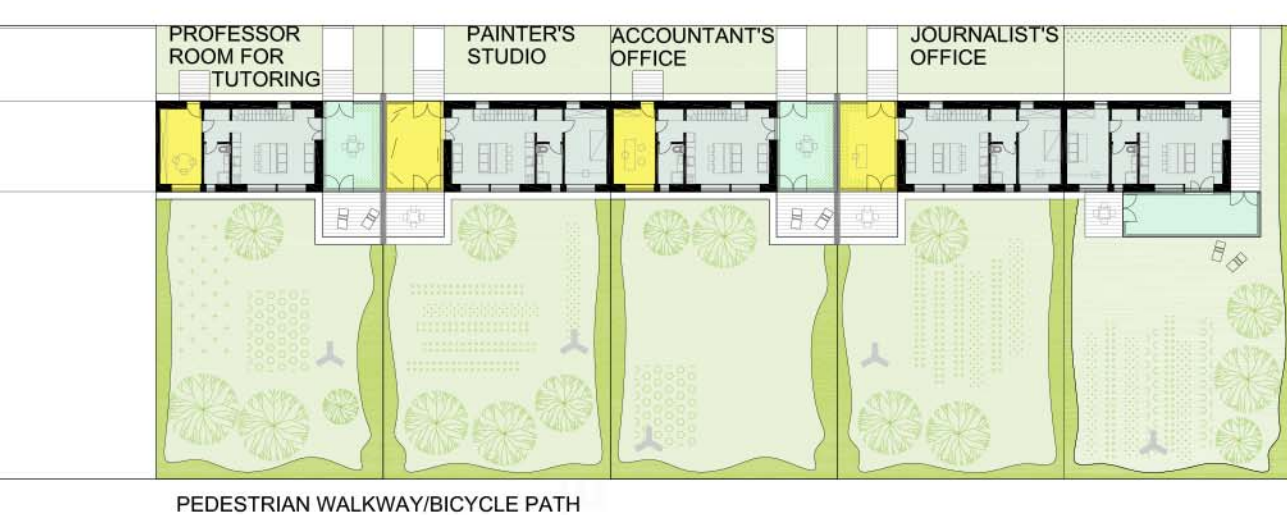


FOOD FOREST

The green street doubles as a public garden but also as a flexible green infrastructure for the entire neighborhood, with rainwater retention features, tree plantations and different green clusters with edible plants that can be also used for didactic gardening.



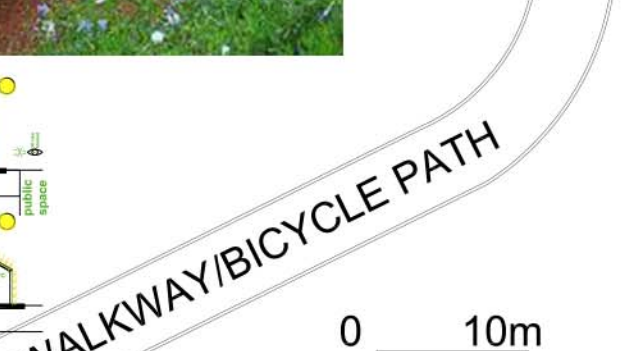
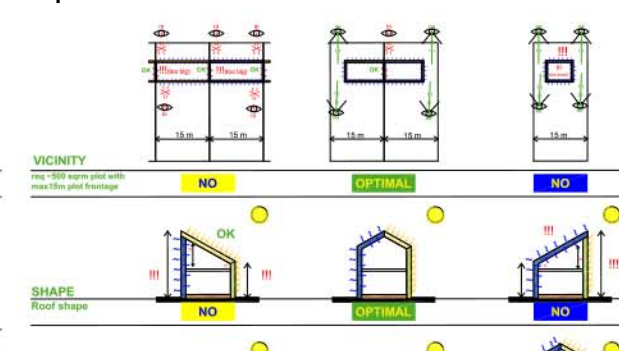
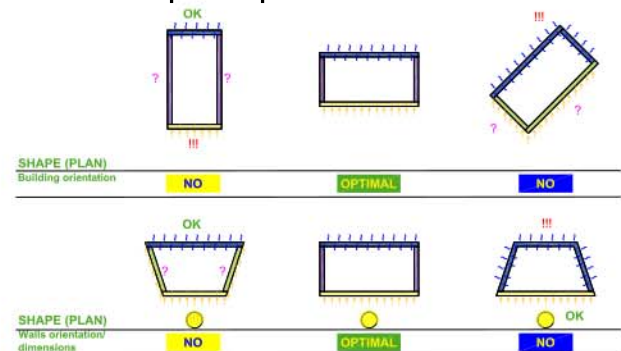
Functionally the buildings differ thanks to the many public and collective activities planned for the ground floors, while various outdoor activities are spread out to the whole site (orchards, playgrounds, green and paved areas)



SCALE 1:500

DESIGN FEATURES

- Large south facing area to maximize the solar gain and solar energy generation
- South facing facades are highly perforated for achieving maximum solar gain in the winter period
- North facing facade are perforated just by strict functional openings to minimize heat loss in winter
- Edible deciduous trees are planted in the south oriented courtyard providing summer shading
- Green house transparent PV roof panel shading the south facing openings
- Utilization of existing infrastructure
- Utilization/ refurbishment of existing buildings
- Scenic bicycle path enveloping the residential area
- Preservation and protection of sensitive areas
- Consolidation of utilities
- Minimal impact on site topography
- Orientation for use of renewable energy
- Complementary use of renewable energies
- Window sizing, location and shading
- Engineered lumber
- Alleys covered with gravel made from recycled brick
- Reusable foundation - recycled car tires filled with concrete
- Products with minimal off-gas
- Reduction of textiles, maximized hard floor surfaces
- Harmful gas monitoring and control (Radon)
- High efficiency light fixtures
- Reuse of removed topsoil
- Food forest - plants on site give edible produce
- Natural playgrounds
- Rainwater management
- Space provided for future development



FOOD FOREST

COMMUNITY GARDENING, COMPOSTING

ROW HOUSES

NATURAL PLAYGROUND

PEDESTRIAN WALKWAY/ BYCICLE PATH

BRICK GRAVEL (RECYCLED)

SEMI-DETACHED HOUSES

BACKYARDS

WITH EDIBLE HEDGES ON THE PROPERTY LIMITS