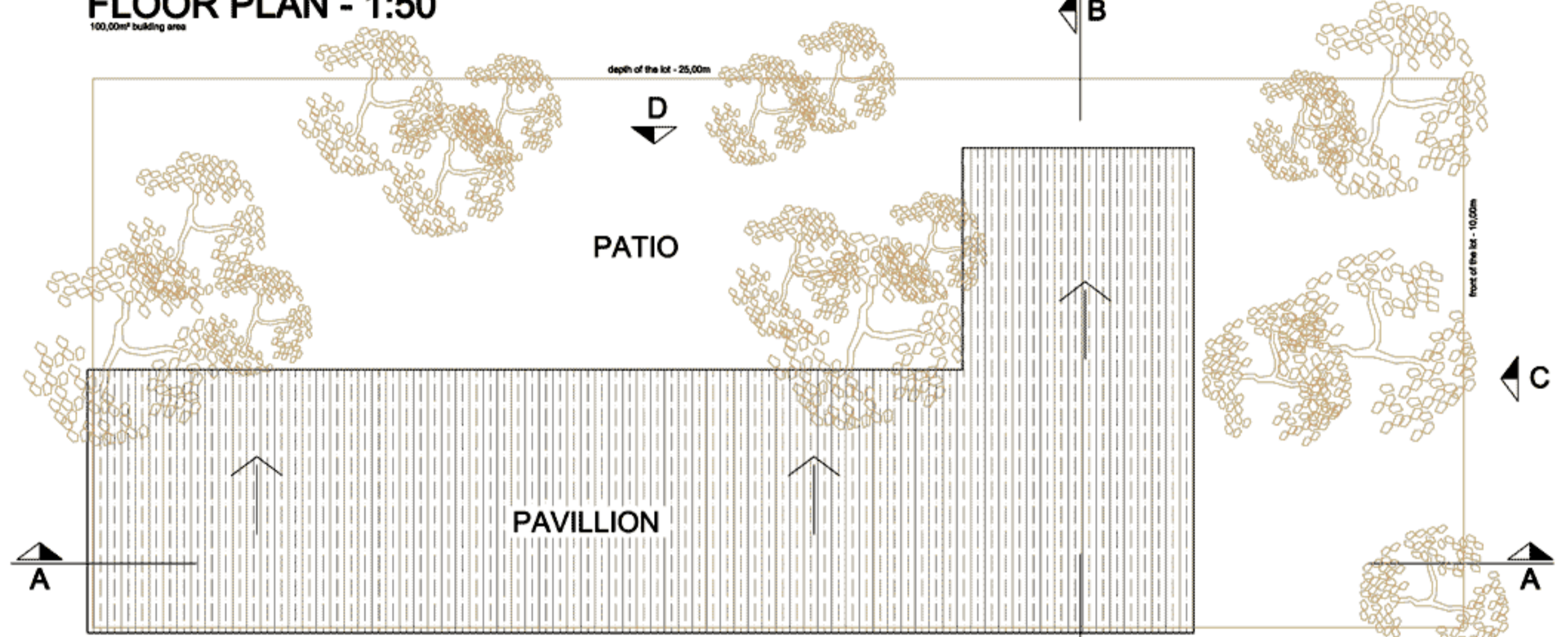
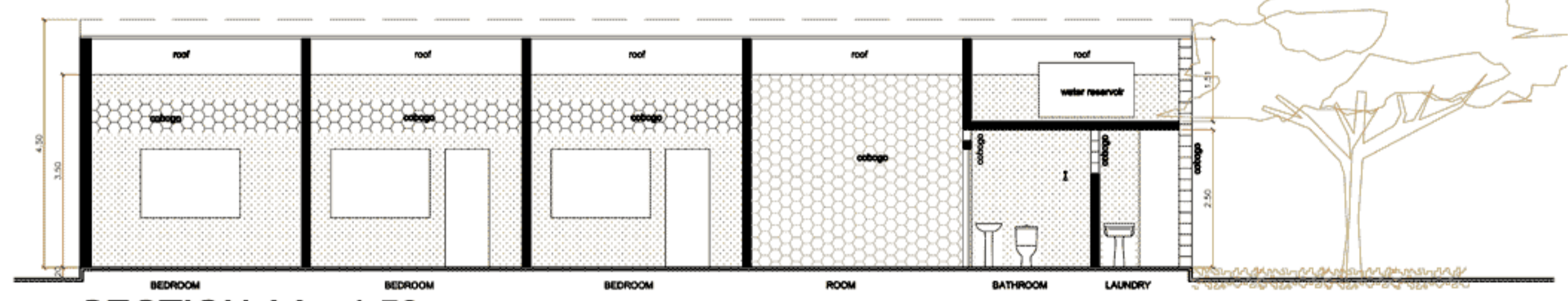


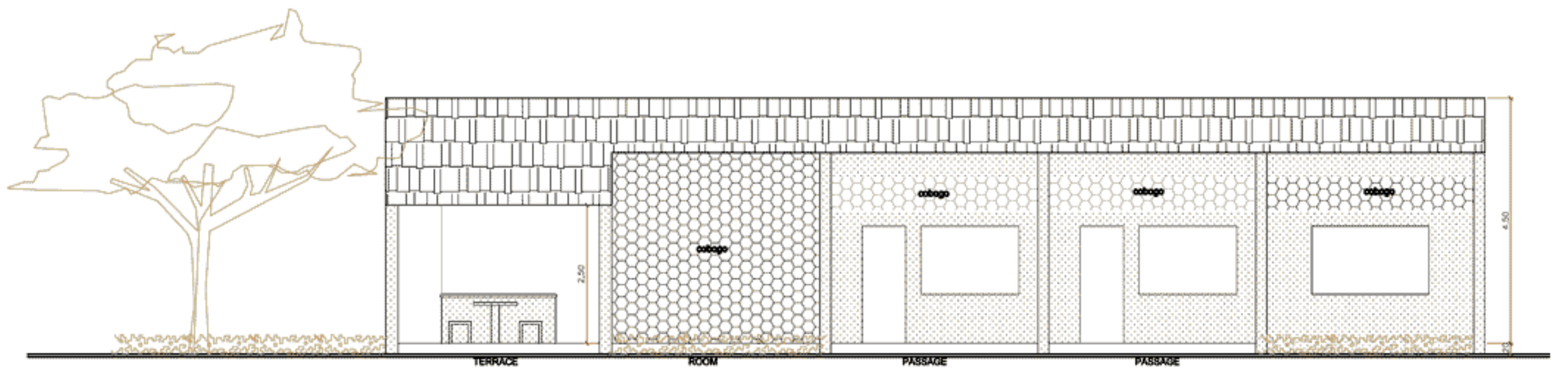
FLOOR PLAN - 1:50
100,00m² building area



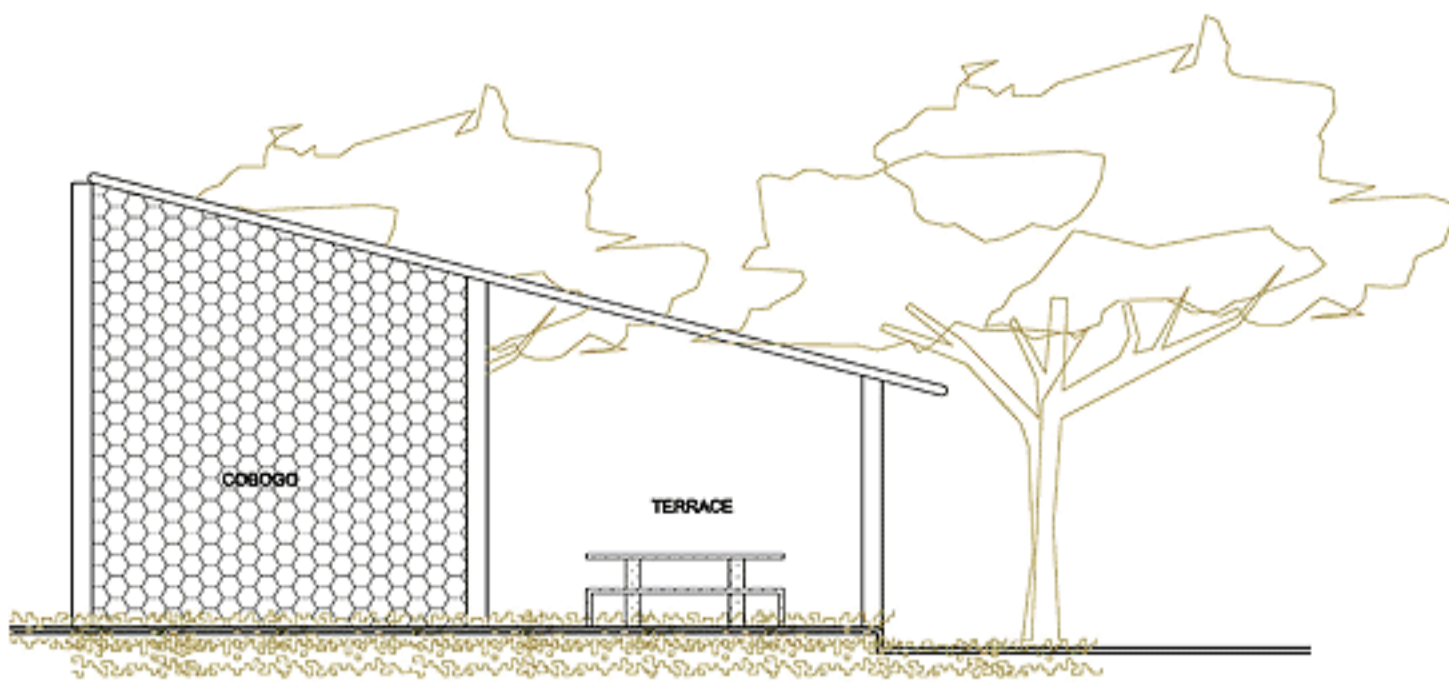
ROOF PLAN - 1:50



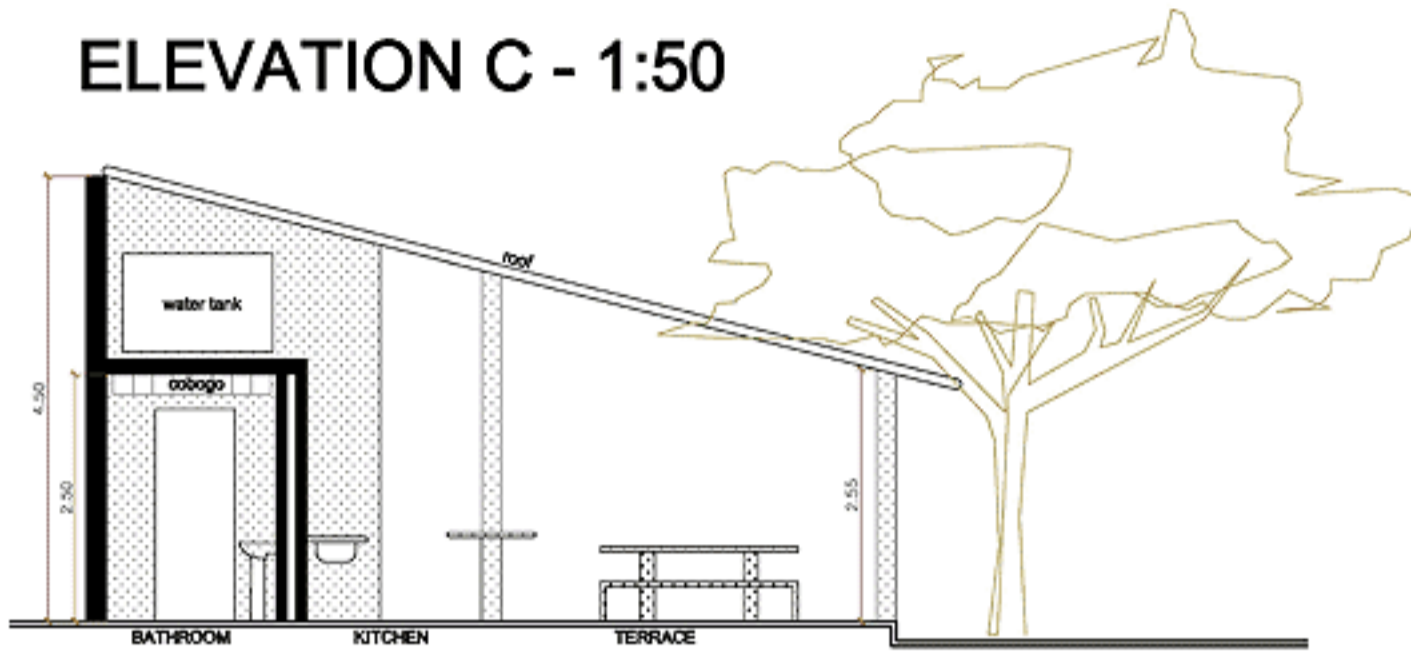
SECTION AA - 1:50



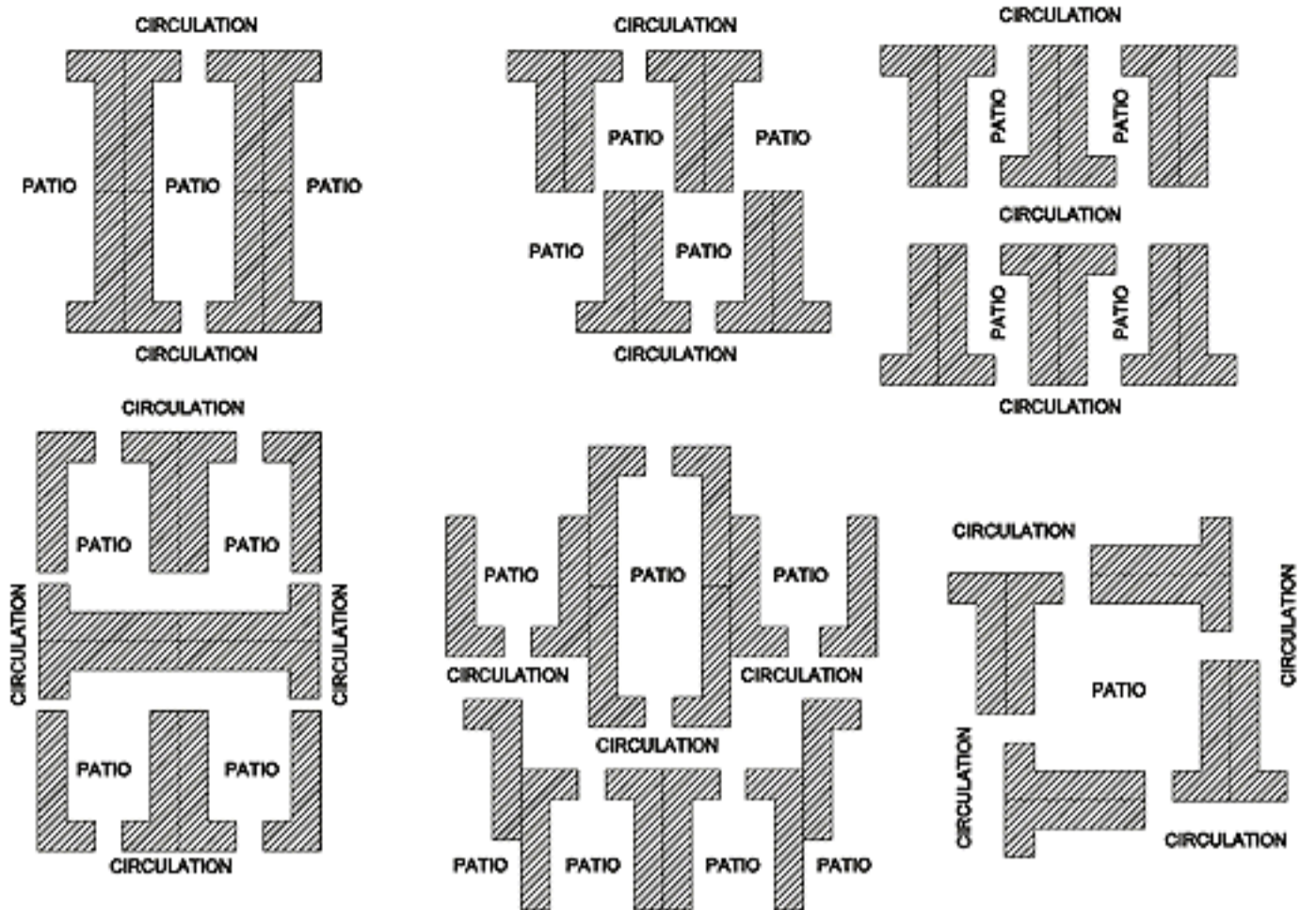
ELEVATION D - 1:50



ELEVATION C - 1:50



SECTION BB - 1:50



DIAGRAMS OF POSSIBLE COMBINATIONS
NOT SCALE

Descriptive Memorandum and Justification

THE PROJECT entails 06 4.00m x 4.00m interchangeable modules, and it is intended for families made up of a couple and up to 3 children, and an elderly couple. One of them was named hydraulic module, since it contains the kitchen, bathroom, laundry and an elevated water reservoir, whereas the water distribution is made through a double wall. The other 05 modules will be used as bedrooms and common areas. The build-up area is 100.00 m² in a 10.00mx25.00m piece of land.

THE FOUNDATIONS are made up of pre-fabricated construction blocks filled with iron and concrete. **THE WALLS** are made up of prefabricated insulated concrete blocks and locking pipes. Being hollow, such blocks may be filled with shredded recycled paper, allowing for better thermal-acoustic insulation.

THE ROOF is made with ecologic tiles of natural fiber or recycled materials, and worked with bitumen and resin. Such tiles are environment-friendly and easy to manufacture and use. Moreover, they are light and allow for better thermal-acoustic insulation in comparison to the zinc metal tiles used in popular constructions in Luanda. The tiles are supported by a metal structure that is placed directly on the walls.

THE FLOORS will be coated with burned concrete, except for the hydraulic module, whose floor will be lined with non slip ceramic tiles. The common area and bedroom walls will be painted with environment and user-friendly water based paint with natural pigments, and the color will be chosen by the owner. The hydraulic module's internal walls will be lined with tiles up to a height of 1.80 m.

All **THE EXTERNAL AREAS** will have permeable dirt ground covered with grass, so that the owner may be able to plant a vegetable garden and local fruit trees, as well as raise small domestic animals. They will also be able to build stone paths, so that they can move more easily in this external area.

A front setback of 5.00m is foreseen in case there is no public sewer treatment, so that it will be possible to install a mini sewer treatment plant or a septic tank. This setback can also work as a driveway.

It will also be possible to install solar panels anywhere one the roof. The roof is single-sloped, in order to enable easy and economical collection and use of all rain water from the impermeable areas.

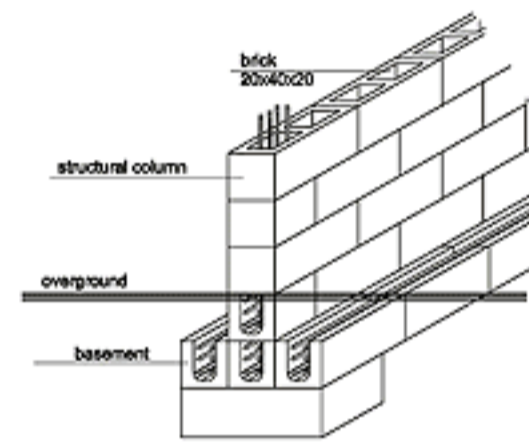
To foster ventilation, hollow bricks (the so-called *cobogós*) may be used as an alternative to insulated concrete blocks (see project). Due to the excessively hot and dry climate, it is suggested in the proposal that the common areas be opened to the patio or separated by *cobogó* bricks. However, because they can also be walled if the owner so wishes, the terrace and the gallery were considered as built areas.

THE FURNITURE can also be made of pre-cast concrete blocks (living room seats, kitchen counter, table and cabinet sides).

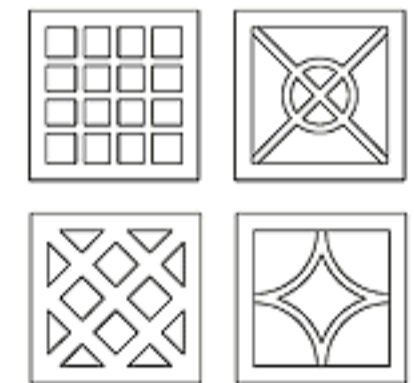
Because the proposed **BUILDING SYSTEM** does not require any special equipment and tools, it allows for the building of the homes by the local population themselves. Pre-cast concrete blocks can be locally manufactured from soil-cement, and, due to the fact that the project was conceived in modules, iron profiles, tiles and window frames may follow a single pattern. This system allows for economical construction, and its estimated cost is around € 25,000.00.

A similar idea was developed in relation to the **PATIO AND THE PAVILION**. In the proposal, the patio is incorporated into the pavilion, and, in turn, the pavilion opens to the patio. They are interdependent and complete each other; one cannot exist without the other. **IN SERIAL COMBINATIONS**, this concept is amplified and gains momentum. The patio is made part not only of a family, but also of a clan, a tribe, a community.

THE PROJECT viewed the dwelling space with regard to individual and collective behavior, and took into consideration the intertwining of man, neighborhood, town and cosmos. It sought a human dwelling of primeval living conditions, inserted into people's daily lives, habits, coexistence, integration, and collectivity, whereas, at the same time, its internal space aims at consolidating habits that may result in harmonious cohabitation.



CONSTRUCTION
DRAWING - 1:20



AIR BRICK-COBOGO
NOT SCALE

