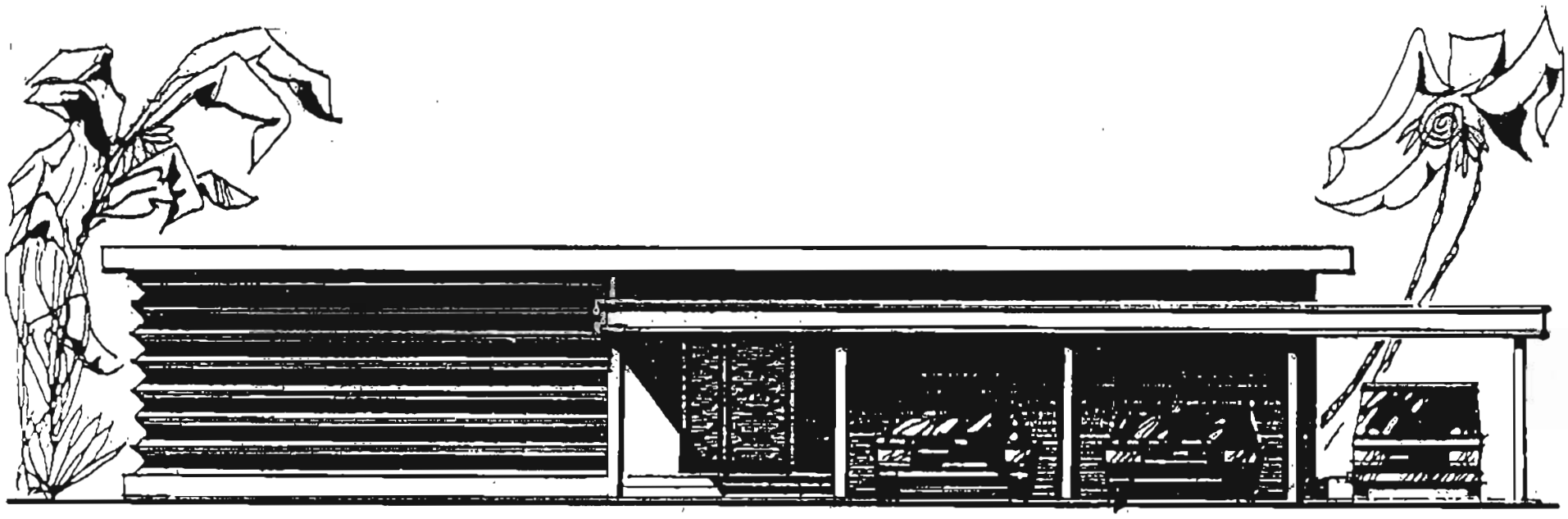
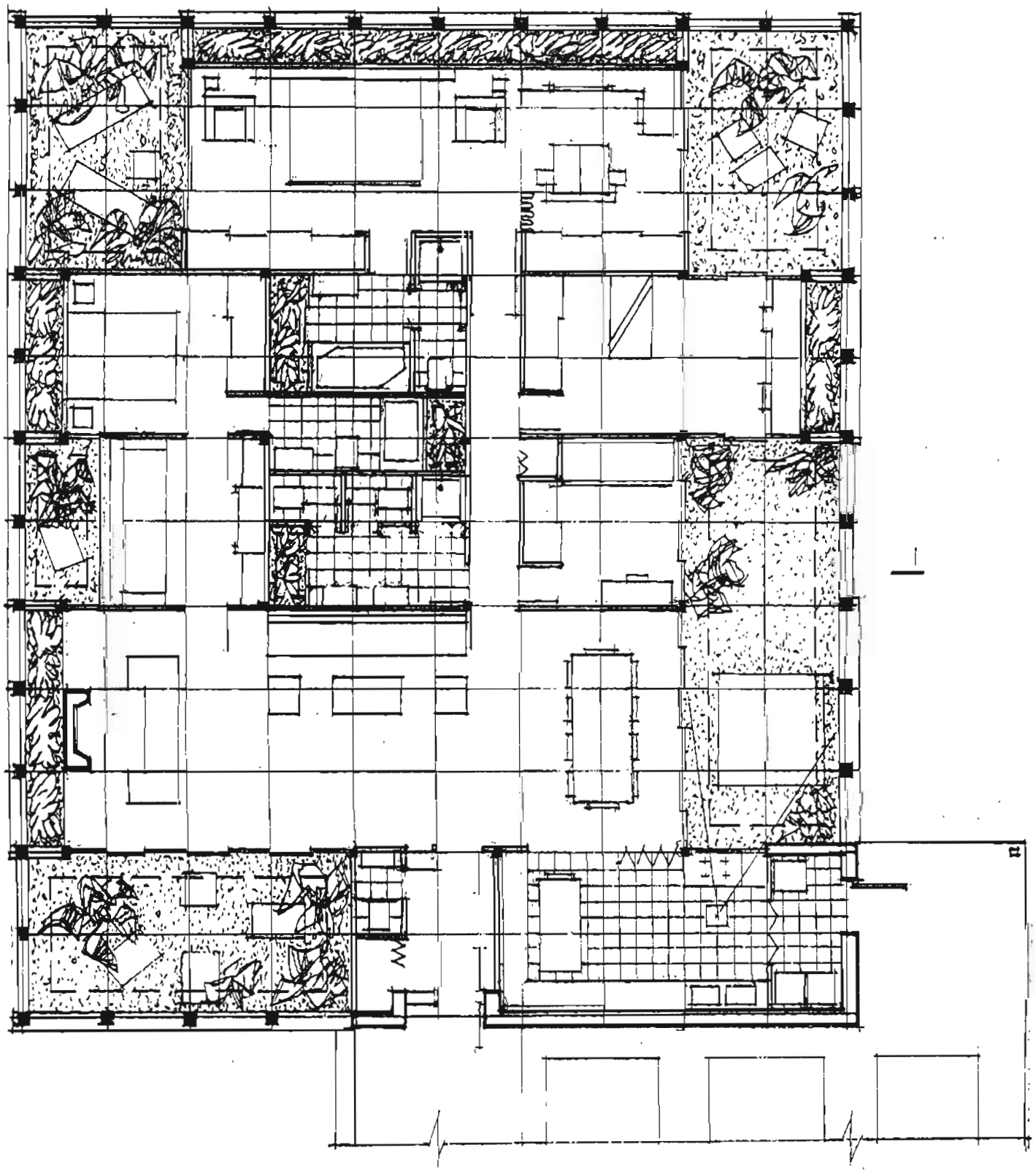
ECOLOGICAL ANTI-HURRICANE HOUSE - "MOLLUSC"

FOR HOT, HUMID SOUTH-EASTERN REGION OF THE USA





This project was designed by the author in 2007 based on his own program, as an independent project (with no affiliation with any project design firm, without co-authors or assistants).

The outside bearing walls are assembled from standard, reinforced-concrete louvers. (Some of these are fixed, while others are turnable and form "windows") Bearing posts are made of metal. Covering is metal grating of standard cells. The grating is stiff disk.

The dwelling rooms are formed by nonbearing partitions and sliding glass walls. Outward partitions and glass walls are concluded with turnable transoms.

When sliding glass doors are opened, all rooms (including bathrooms) unite with adjacent patios and become a unified living space.

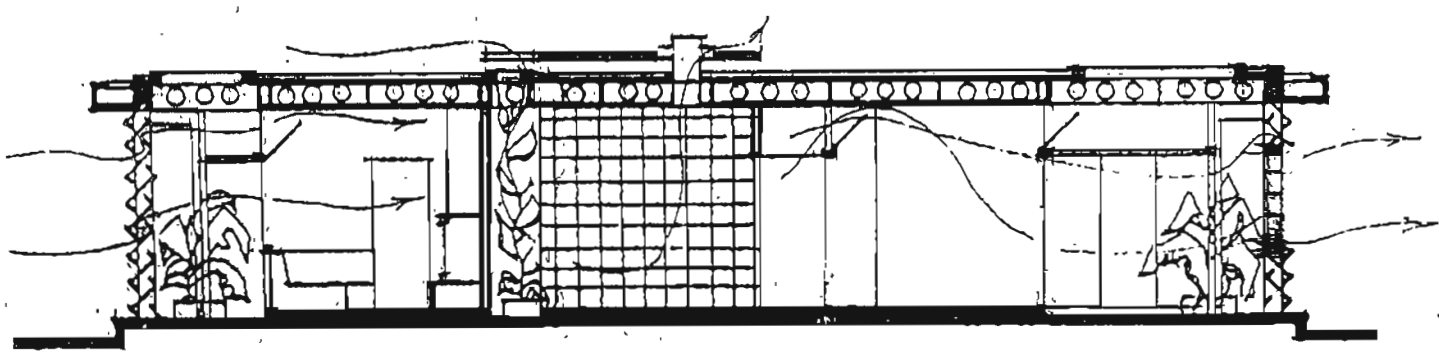
The structure of the house allows for many planning versions inside of the same "shell" of reinforced concrete louvers.

This "shell" ensures visual isolation of the living space, protection from hurricanes, and at the same time, ensures thorough ventilation of this space, all of which is highly important in humid climate.

Heating is realized by tubes with warm water inside of the concrete floor; hot water for heating, as well as for kitchen and bathrooms, is prepared by a solar water heater, which is placed on the roof above the bathrooms. The gas heater is auxiliary equipment. Cooling occurs by evaporating of a thin layer of water, which covers the flat roof.

The describe system considerably reduces the expense of energy for maintenance of this house.

In the depicted version of the house, the living area of all rooms is 1,950 sq. ft, the living area with patios is 2750 sq. ft.



SCALE 0 5 FT 0 1 M

Viktor Mashinsky

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