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SUSTAINABLE APPROACHES IN THE TRADITIONAL ARCHITECTURE OF THE AEGEAN REGION

"Rehabilitation of an Ottoman residence in the medieval city of Rhodes"

Postgraduate Thesis Project (MSc "Protection of Monuments" - National Technical University of Athens)



RHODES



LOCATION

The examined monument is situated of the medieval city of Rhodes. On the north side it is adjacent with the yard of Archangel Michael (or Demiri mosque) and its cells.

THE MONUMENT

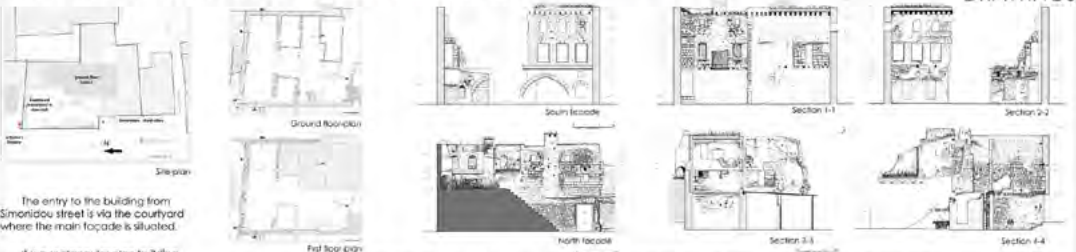
In terms of typology, it is a two storey residence with roofed verandah and yard.



ACTUAL STATUS

A great part of the original building's volume has not been maintained and the monument is now a downhill.

FOTOS DRAWINGS



The entry to the building from Simonidou street is via the courtyard where the main facade is situated.

It is a rectangular plan building (13.1 x 6.7m.) of a 96 square meters floor area.

All the ground level a loggia with two arches was used for the transition from the yard to the interior spaces of the ground floor. These spaces were organized similarly. The south space (space of the kitchen) and the north space (space of the living room) were separated with stone walls. An entrance staircase was used for the access to the first floor. Oriented towards the east and covered the two main rooms (the hallways and the parlor). In the gable floor there is also a bathroom, and a closed loggia was built. The floor of the first floor has not been maintained, whereas the wooden floor is poorly maintained and it is covered with asphalt.

PHASES

Being the result of a multi-phased construction, it represents mainly the urban architecture of the Ottoman Era



REHABILITATION



The rehabilitation of the monument is considered a necessity.

The targets of the interventions are mainly not only to solve the structural problem, but also to maintain the morphological elements, to show off the dominating structural techniques of the Ottoman Era and finally to turn to advantage in terms of function the building through its new use.

Based on topographical research and through comparison, the typological information of the building and the visual factors proposed create the structure of the old spaces and volumes, while avoiding a complete renewal of the original design. The proposed new use is a residential structure. The ground floor will have three separate spaces and an internal staircase. To the second floor with the roof floor, a living room and a bedroom will be located at the end of the building. There will also be a room (garage), a bathroom and a bathroom.