THE SEASTEADING INSTITUTE

Floating City Project Architectural Design Competition

We do not inherit the earth from our ancestors; we borrow it from our children."

- Native American Proverb

Registration No: 1023

Design Concept

Floating City Project Architectural Design Competition

- Advocates Green Architecture
- Integrate New Technologies
- A Green and Sustainable Construction Alternative
- Application of Compressed Agricultural Fiber (CAF) Panel System
- A “PETAL” representing **P**rogress, **E**nvironment, **T**echnology, **A**daptability and **L**uxurious

Registration No: 1023

Statement of the Problem:

of Earth surface is Water

By **2020**, 65% will surely increase!

"SO **WHERE** ARE WE GOING TO **BUILD**?

Registration No: 1023

In order to return what had we borrowed to our succeeding generations we must able to conserve and preserve of what is remaining in our environment and in this earth. Everything on earth has been designed according to its purpose and to meet its goal.

- **Registration No: 1023**

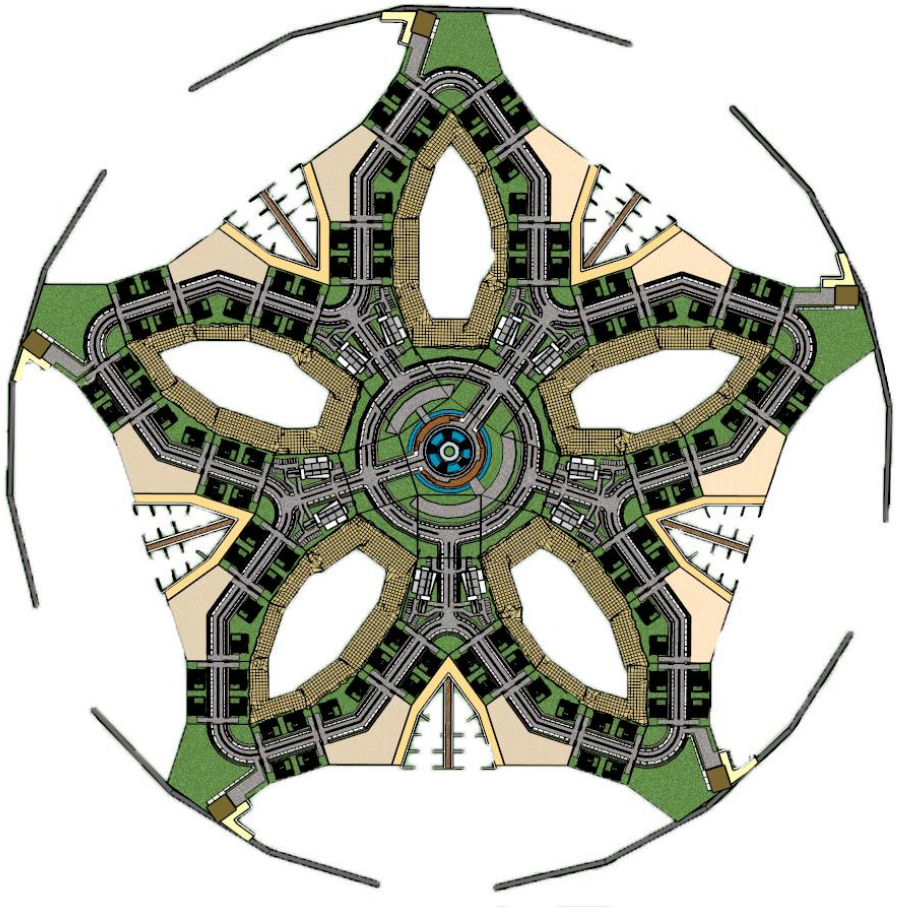
THE FIVE PETAL CONCEPT

Progress, Environment, Technology, Adaptability and Luxurious

Registration No: 1023

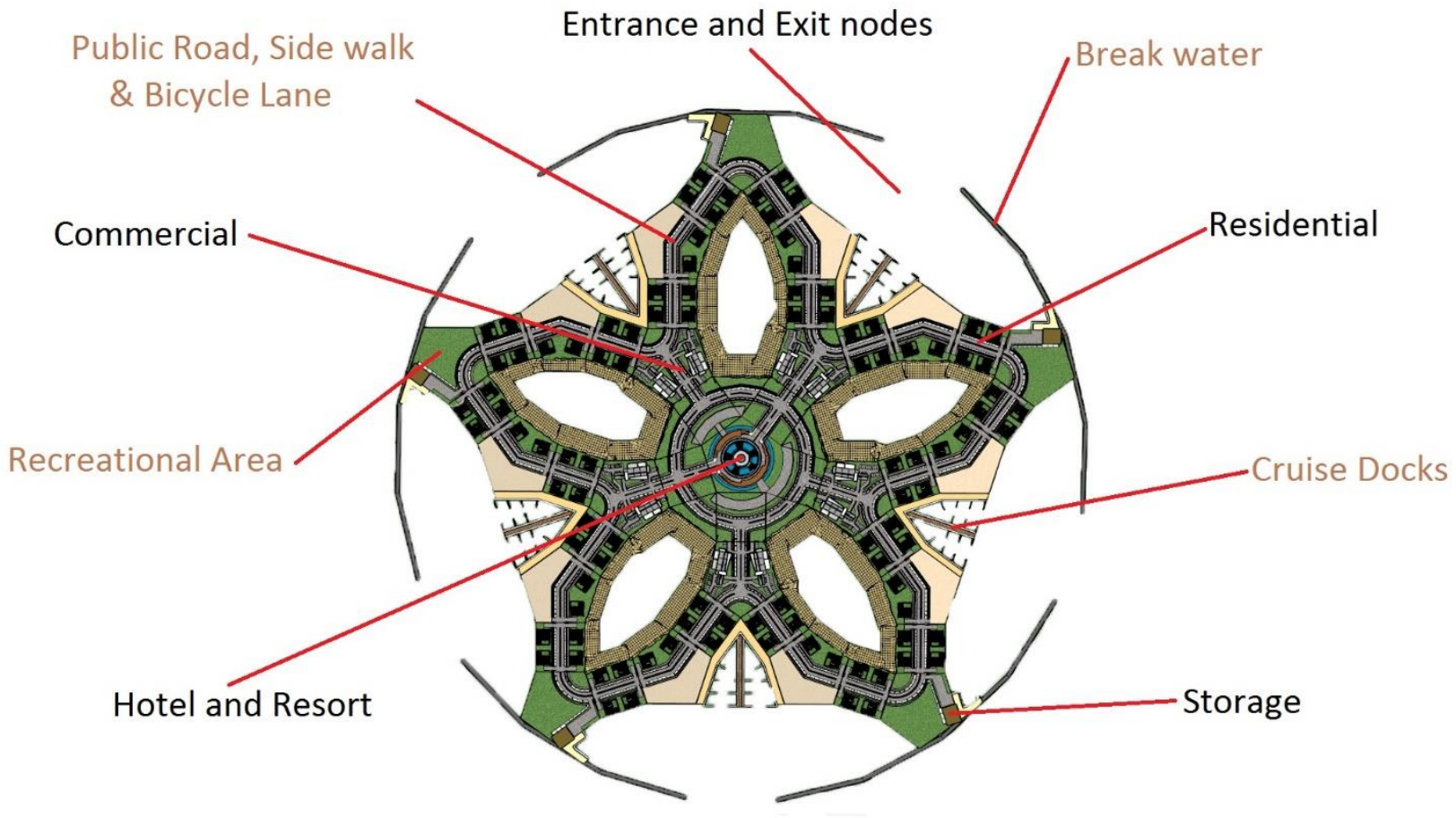
The concept emphasizes the creation of life in different form of living in the middle of the ocean and at the same time sustaining the need of the people. These concept offers an enticing form and be the strength for the furtherance of both the people and the community. It must tender a picture of unified urbanity and environment to magnetize the public to be concerned on their environment and to use the resources they have.

Registration No: 1023



- The five petals also serve as the five entries and exit points of the cities. The majority of the people should affluently gain access to the location of the development and easily discernible for them.

Registration No: 1023



Zoning

Registration No: 1023

INTEGRATED NEW TECHNOLOGIES AND SUSTAINABLE CONSTRUCTION ALTERNATIVE

Registration No: 1023

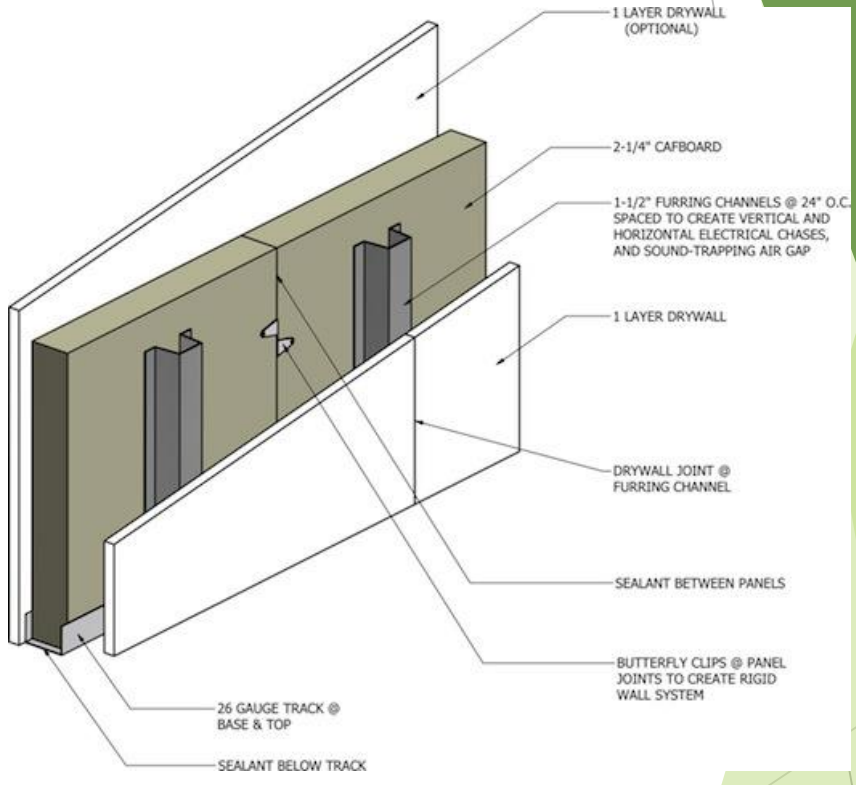
SYSTEMS

- **Compressed Agricultural Fiber (CAF) System**

  •Used for structural walls, curtain walls, floor and flat roof in a variety of residential and commercial buildings.

  Properties:

  Low weight, No added Formaldehyde, No volatile organic compounds, Negative Carbon Footprint, Sound Proof, 1-2 hours Fire Rating, No flaming Combustion, Termite Free.



Registration No: 1023

Rainwater Harvesting System

•Treat contaminated water coming from the mainline using various stages of coarse and fine filtration, carbon filtration and water softening process and distributes clean and safe water.

Registration No: 1023

- Solar Panel System

  •The conversion of sunlight to electricity using Photovoltaic Panels. Used as a source of renewable power for small and medium application.

Registration No: 1023

MATERIALS

Carbon-Negative Cement

•A new form of cement that absorbs carbon dioxide rather than being a primary source of its man-made emissions.A new class of cement that offers performance and cost parity with ordinary Portland Cement, but with a negative carbon footprint.

Registration No: 1023

Bricks Grown From Bacteria

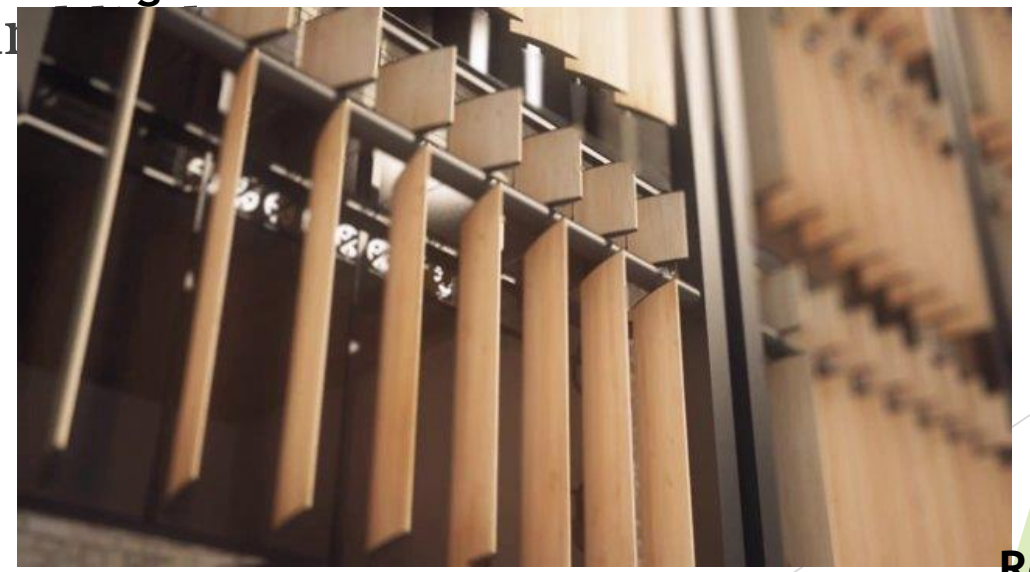
- BioMason has developed a method of growing materials by employing microorganisms.
- A sourced from waste byproducts. Rather than being cast in fuel intensive furnaces, the material is grown in ambient temperatures. The water component used to deliver the cementation reagents is recycled in a closed-loop system and reused in the manufacturing process. Furthermore, since biological cements are formed in a different crystalline process than Portland based cements, “recent tests have been successful with seawater.”

Solarmotion dynamic facades

•Are almost like a living part of the building and respond to the elements (wind, rain, sun, snow) providing optimal comfort.

The next generation of intelligent operable shading systems, ranging from exterior louver and fin systems to retractable external venetian

Registration No: 1023



Registration No: 1023

- Integrating living solar shading technologies

•A system of rectangular cells opens and closes to regulate sunlight and solar gain, as well as block sand and dust from entering the open-air traditional Souk

Registration No: 1023

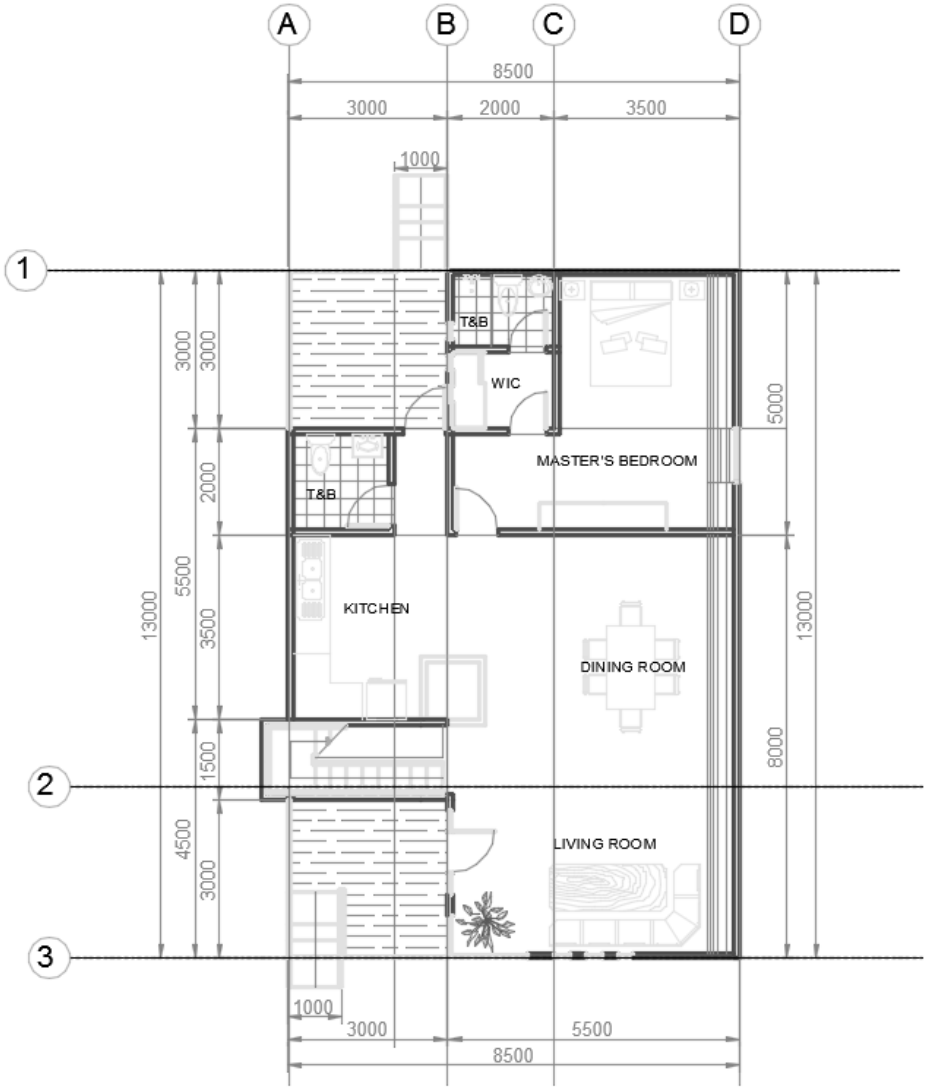
ADVOCATES OF GREEN ARCHITECTURE

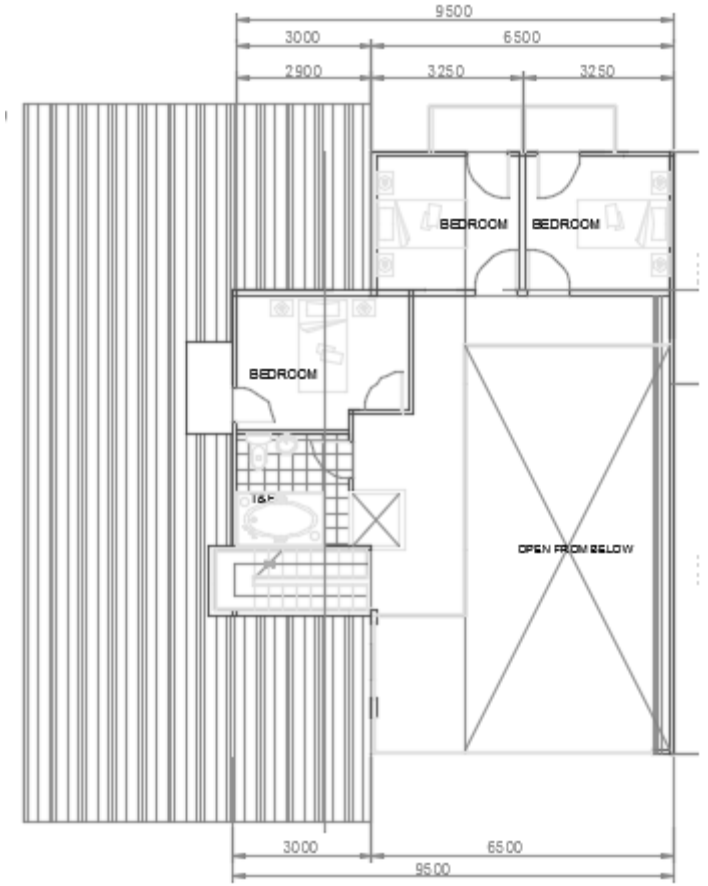
RESIDENTIAL HOUSE

Registration No: 1023

Urban green open spaces would be located above the water's surface that will create an image for the city; they become a meeting place, and a center for various activities that improve the physical and social environment.

Registration No: 1023

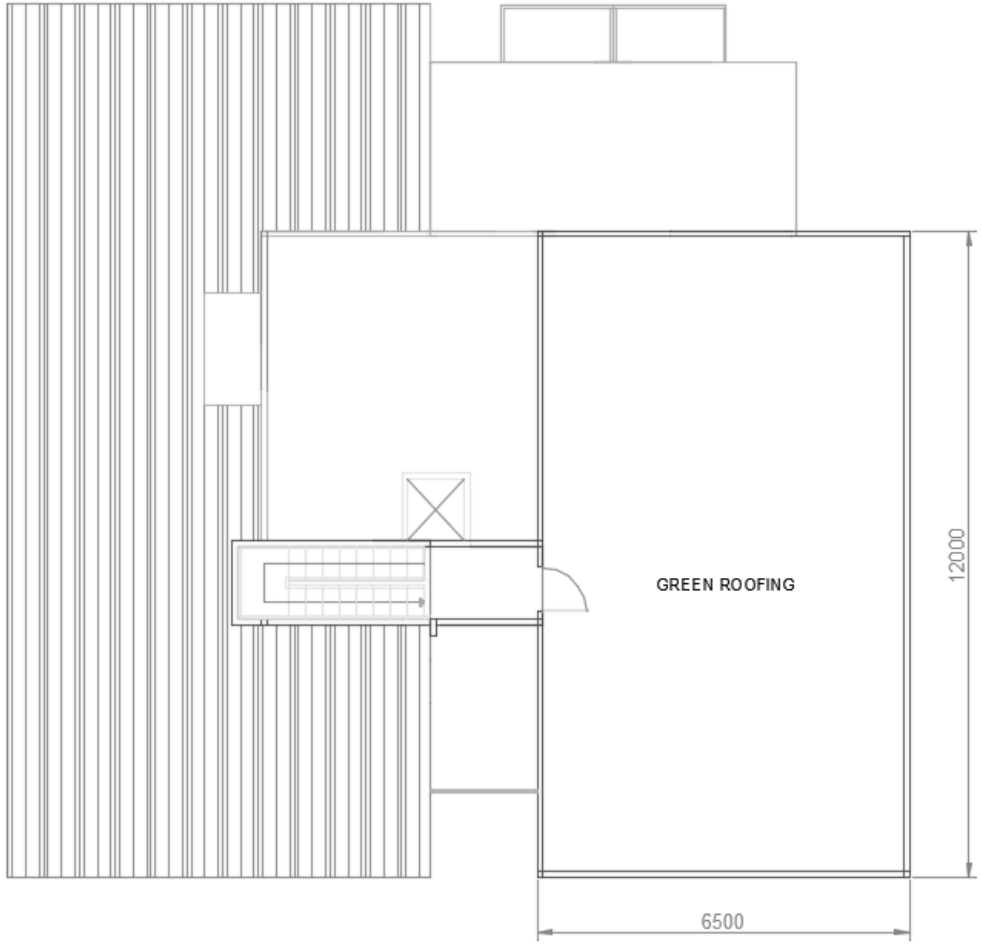




Plans

First and Second Floor Plan

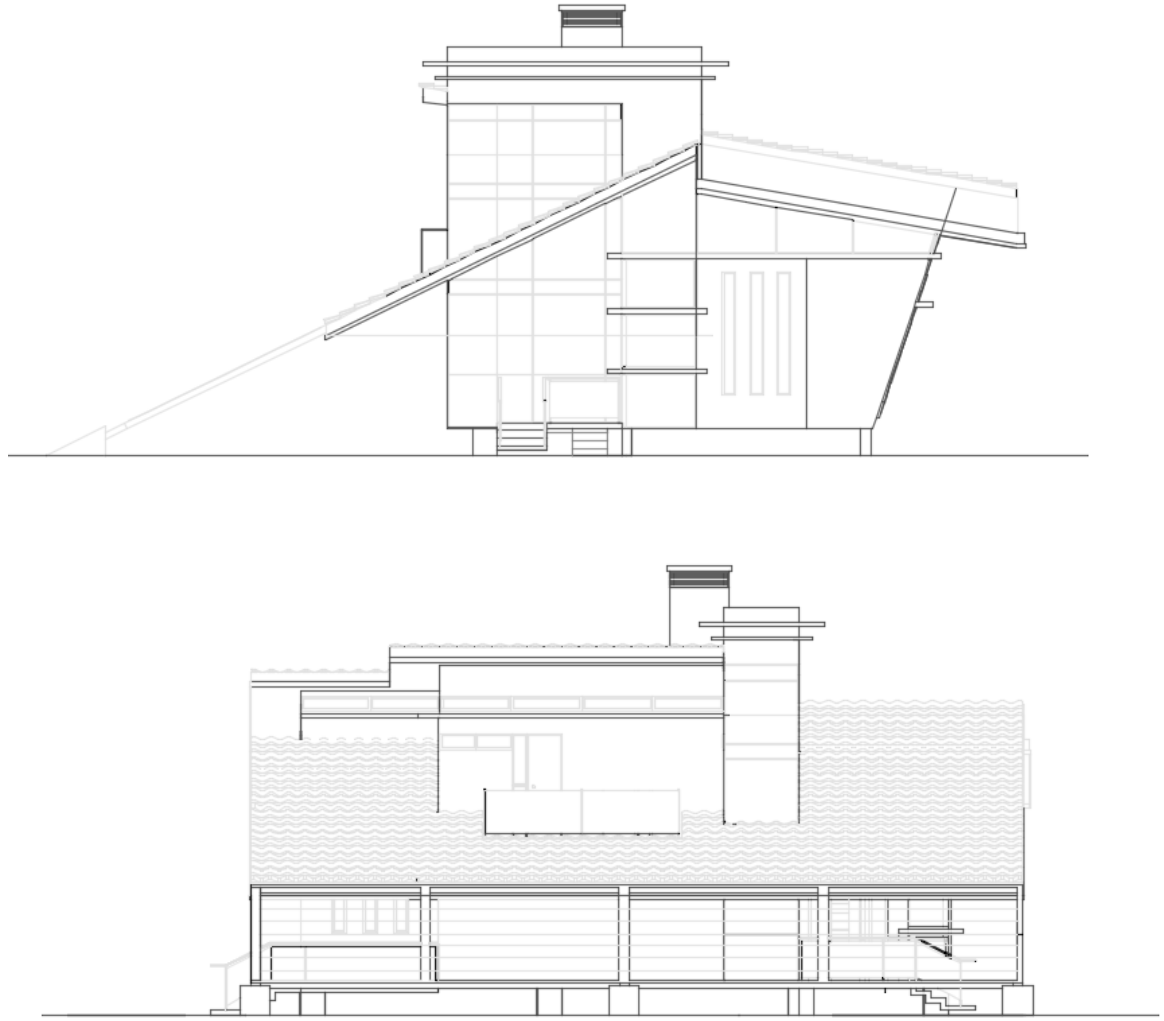
Registration No: 1023



Plans

Third Floor Plan

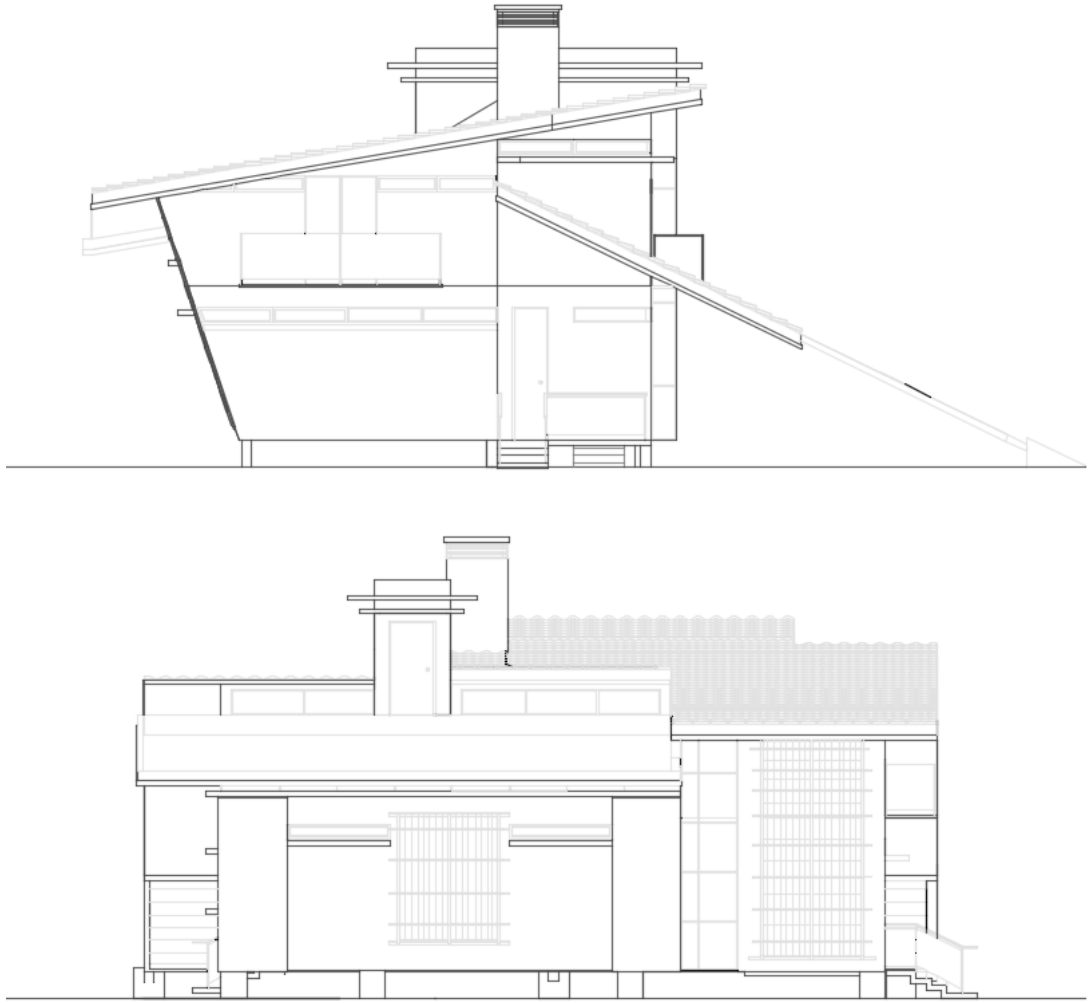
Registration No: 1023



Elevations

Front and Left Side View

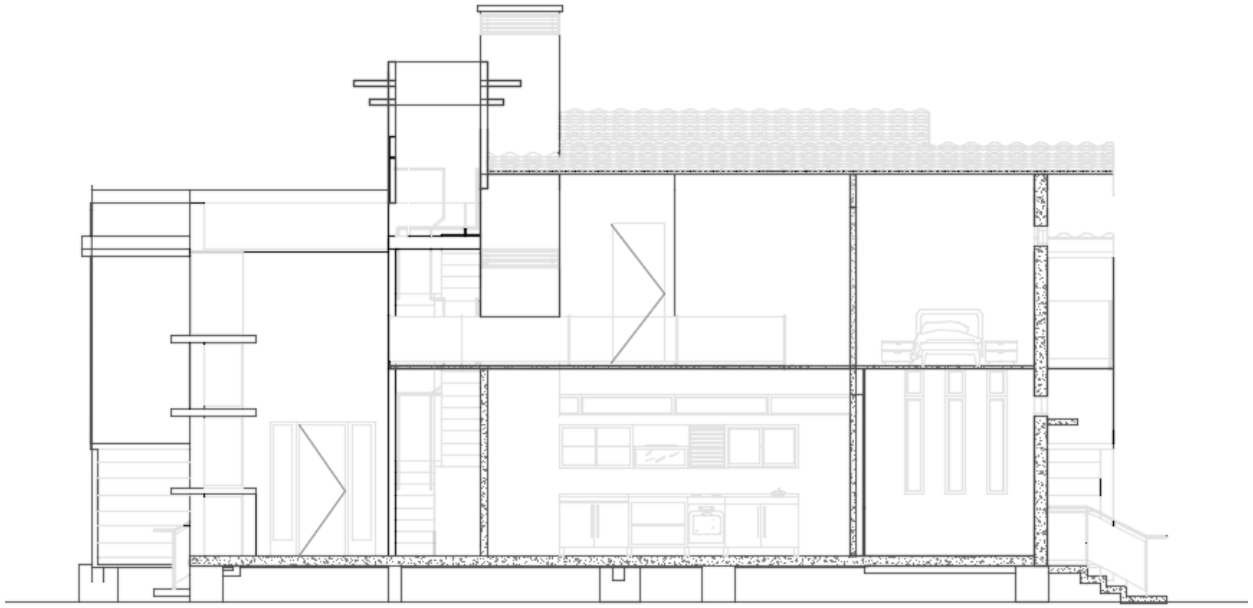
Registration No: 1023



Elevations

Rear and Right Side View

Registration No: 1023



Section

Longitudinal Section

Registration No: 1023

Explanation of Design

- On Stilt, to prevent from water contact.
- Air Catcher for better flow of air circulation inside the building.
- Wide window openings for an Enticing View of the ocean.
- UV Protected Glass to reduce direct sunlight.
- Extensive Roof Garden for recreational and relaxation.
- Living Walls where you can plant edible foods.
- 101% guarantee of LEED Design

Registration No: 1023

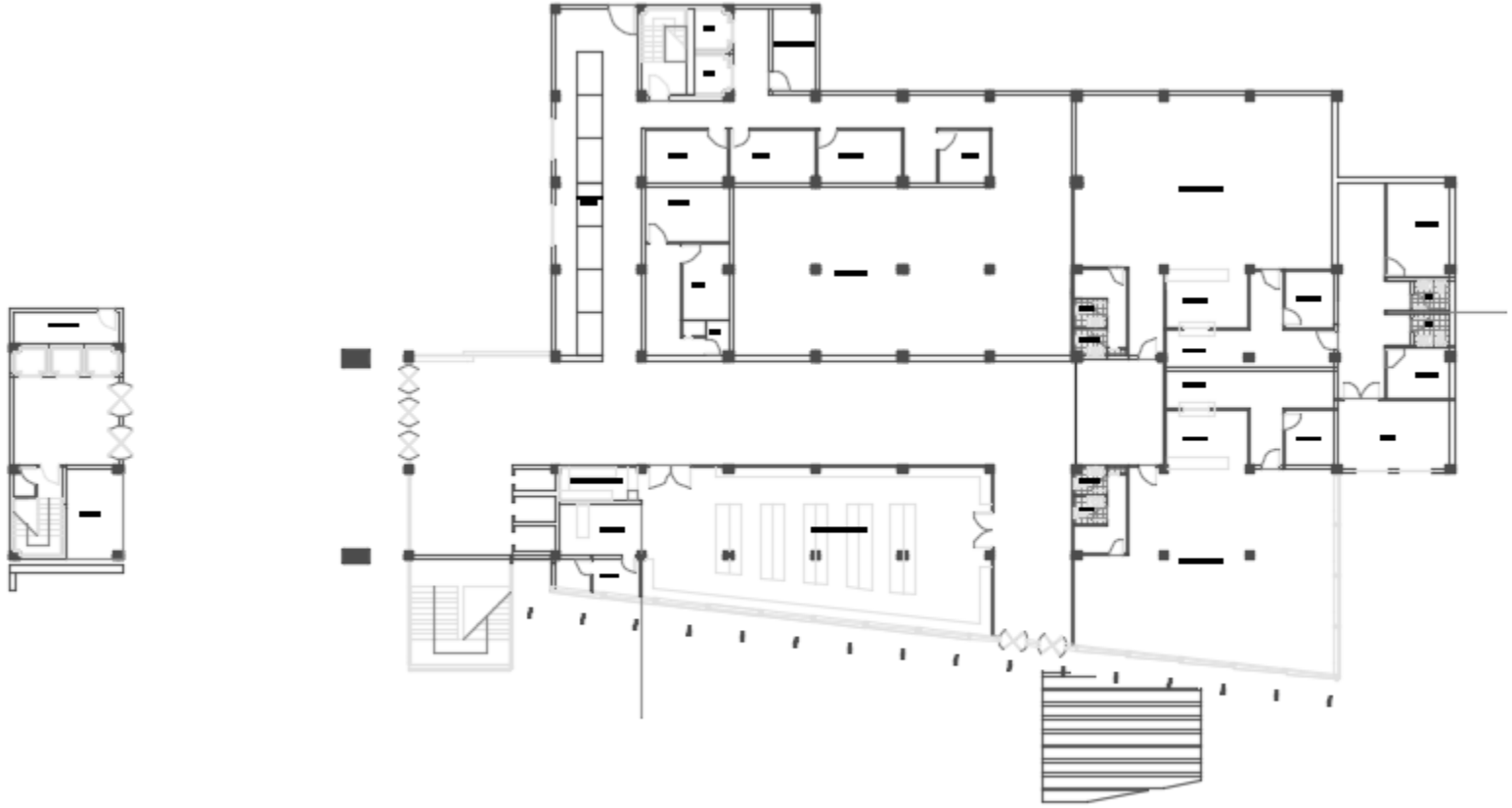
Perspective View

Registration No: 1023

ADVOCATES OF GREEN ARCHITECTURE

Office Building

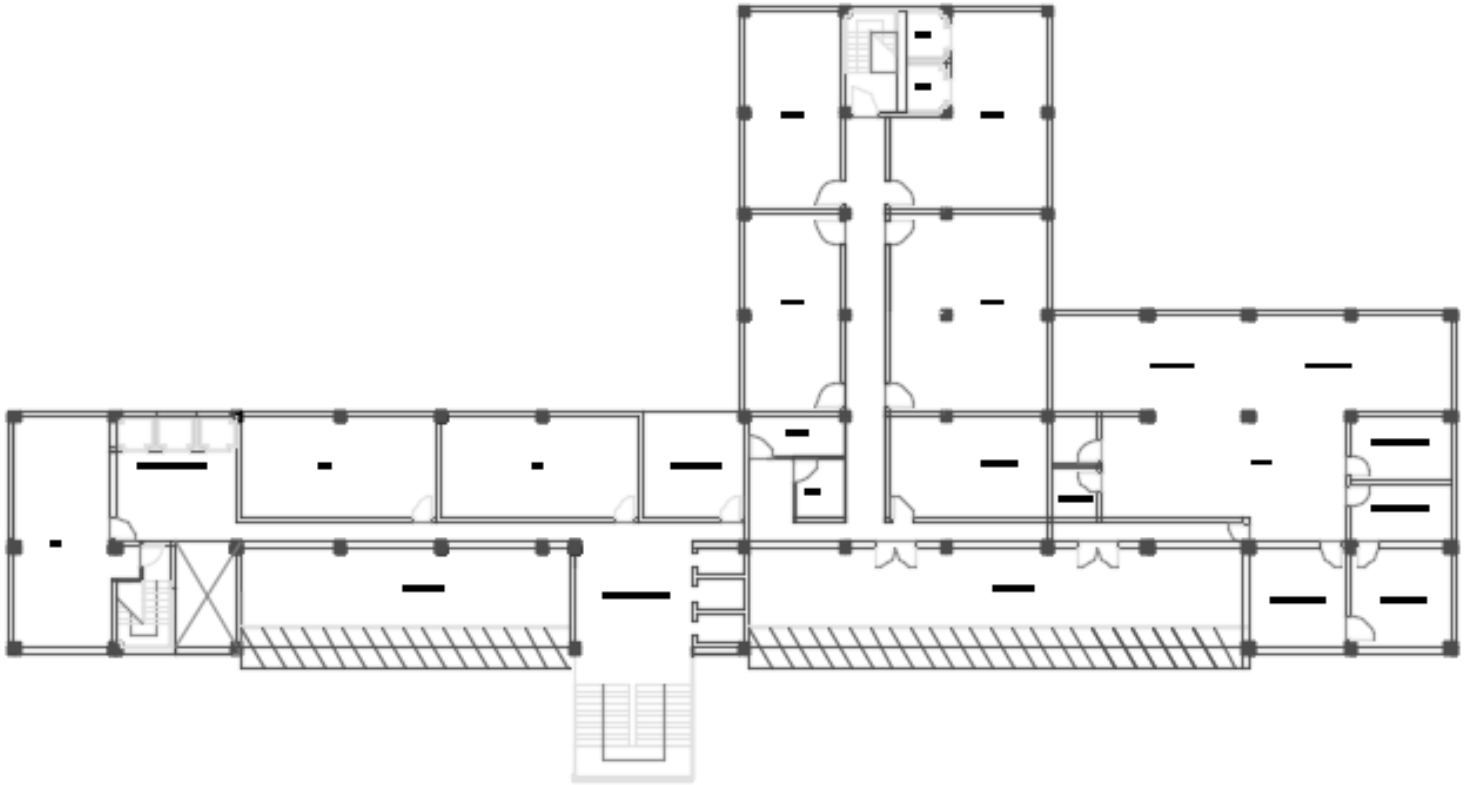
Registration No: 1023



Plans

Ground Floor Plan

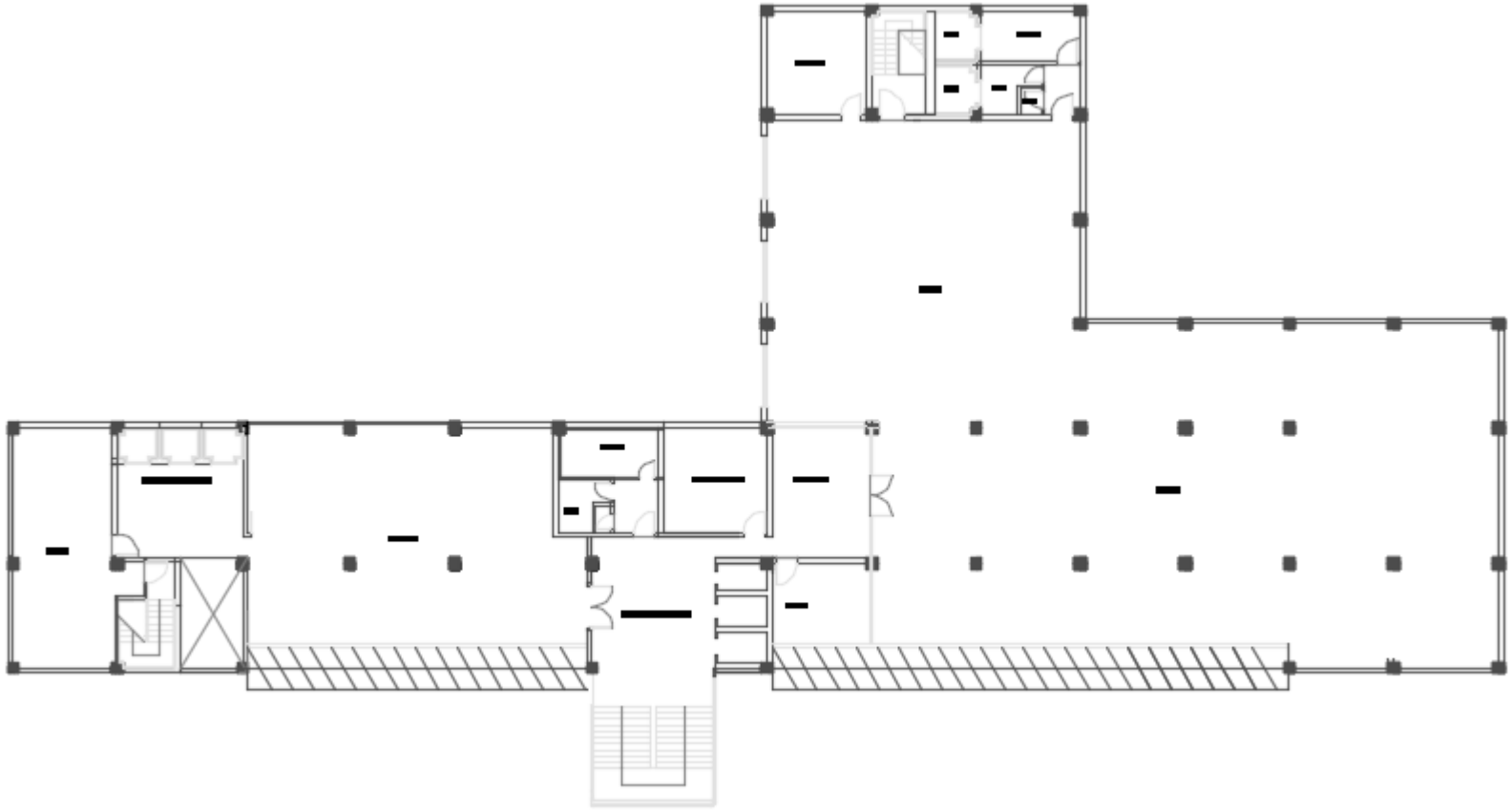
Registration No: 1023



Plans

Second Floor Plan

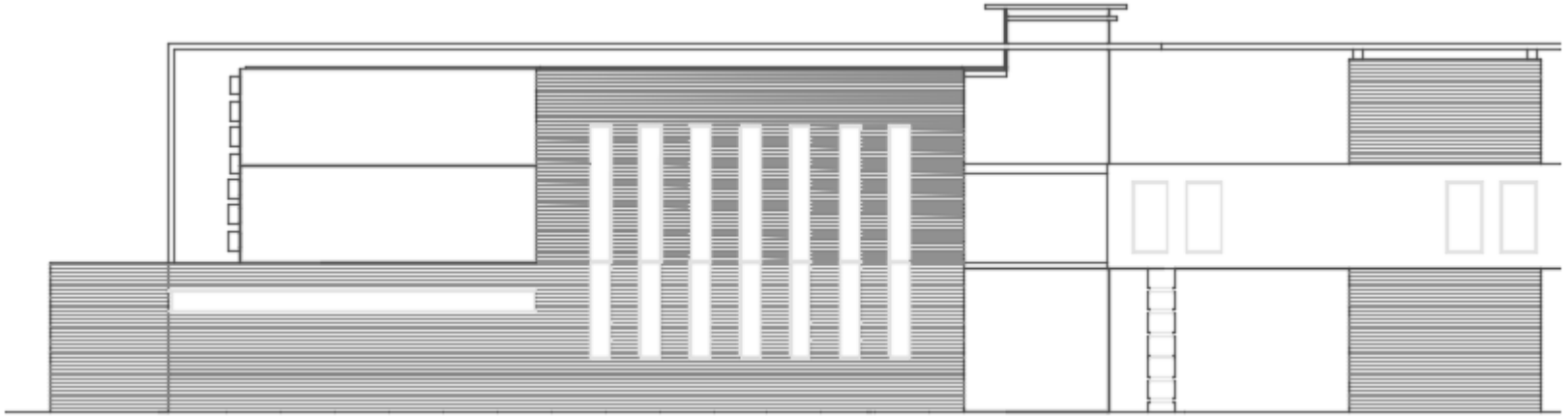
Registration No: 1023

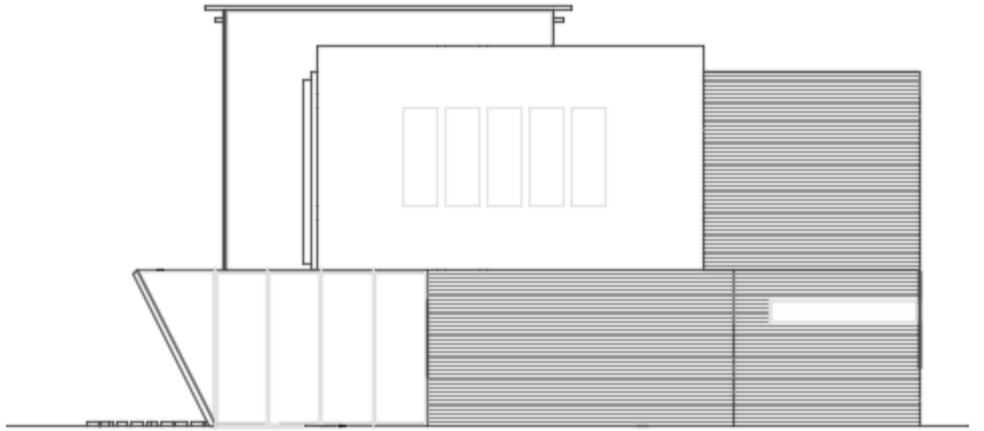


Plans

Third Floor Plan

Registration No: 1023

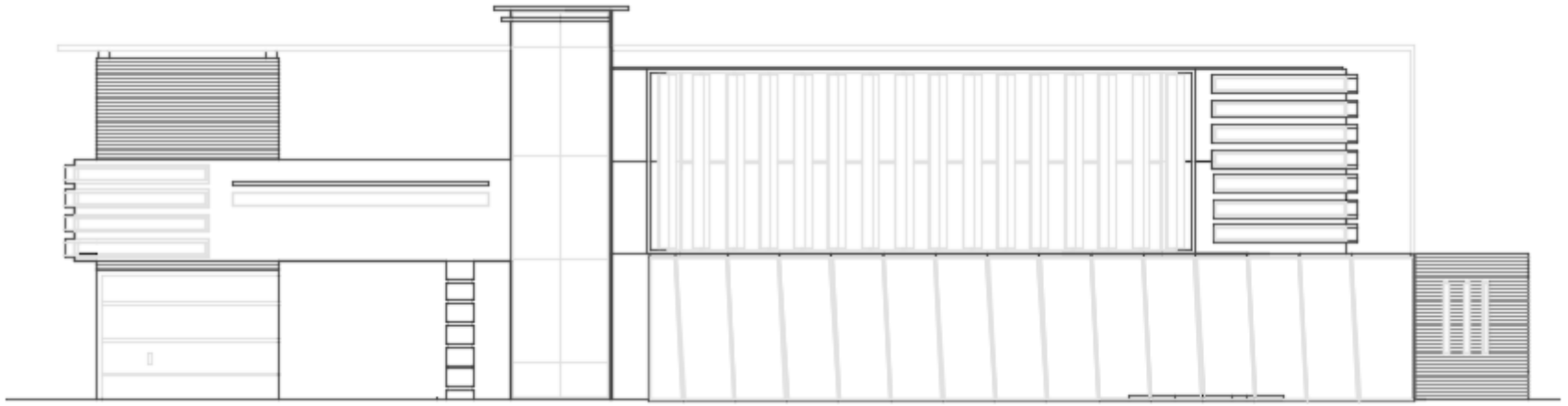


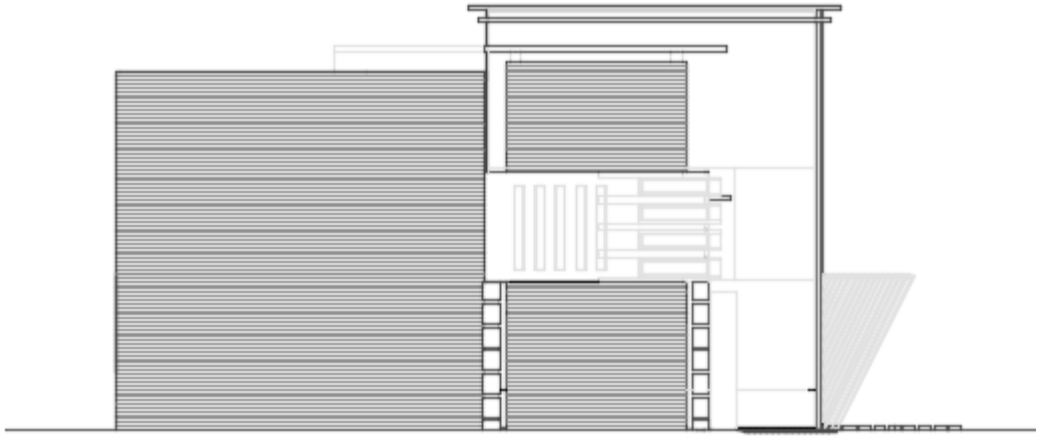


Elevations

Front and Left side view

Registration No: 1023

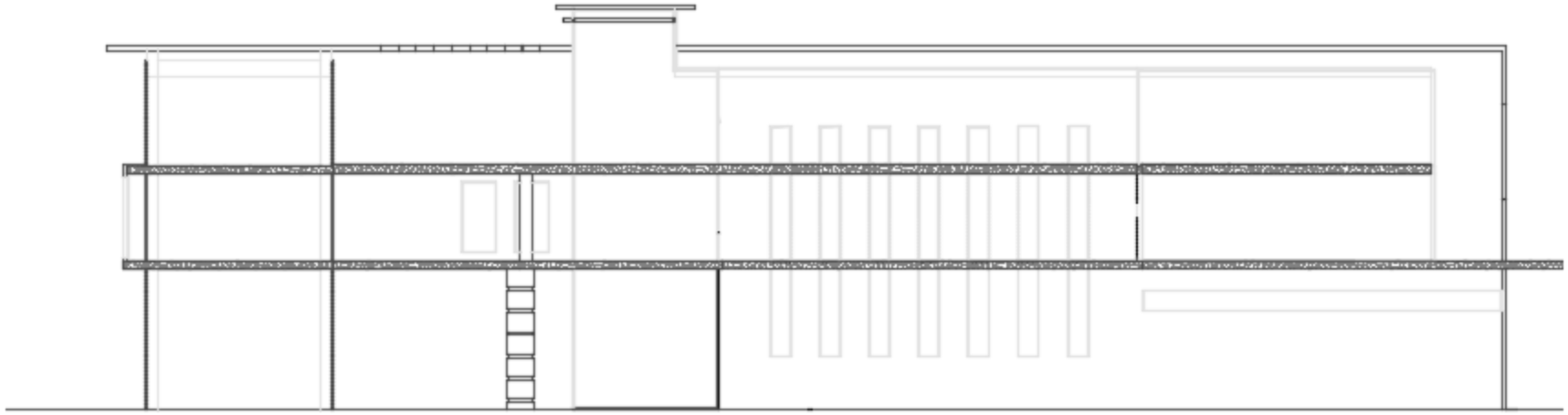




Elevations

Rear and Riight side view

Registration No: 1023



Section

Longitudinal Section

Registration No: 1023

EXPLANATION OF DESIGN

- Intelligent Building for a less cost operation and a worth working place for the occupants.
- Reduce energy conservation and operating expenses and at the same time gain extra profit.
- Creating a design that is Environmentally Friendly Design and energy efficient.
- Designed for long term use and lessen expenses for maintenance, construction and operation procedures.
- Another factor to acquire an LEED Certification.

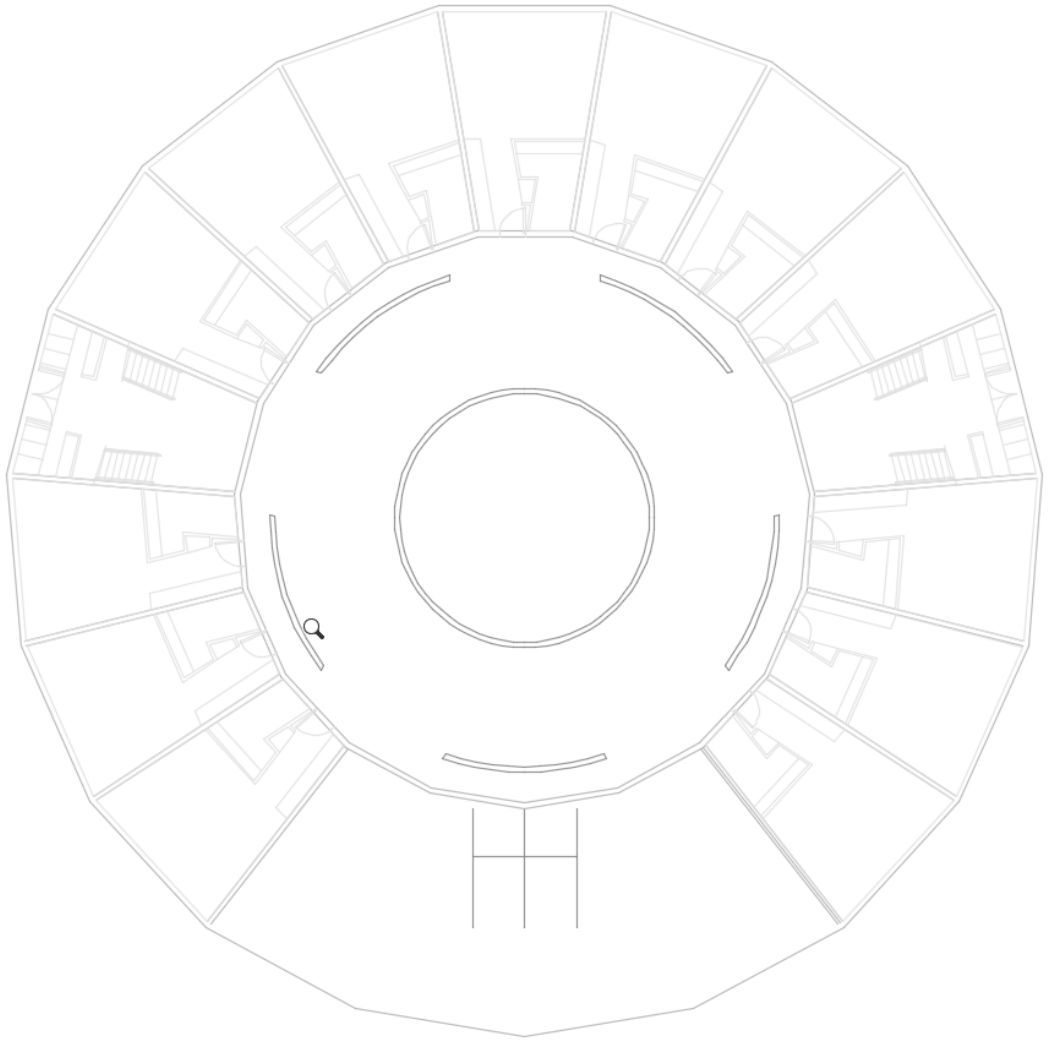
Perspective View

Registration No: 1023

ADVOCATES OF GREEN ARCHITECTURE

Hotel and Resort

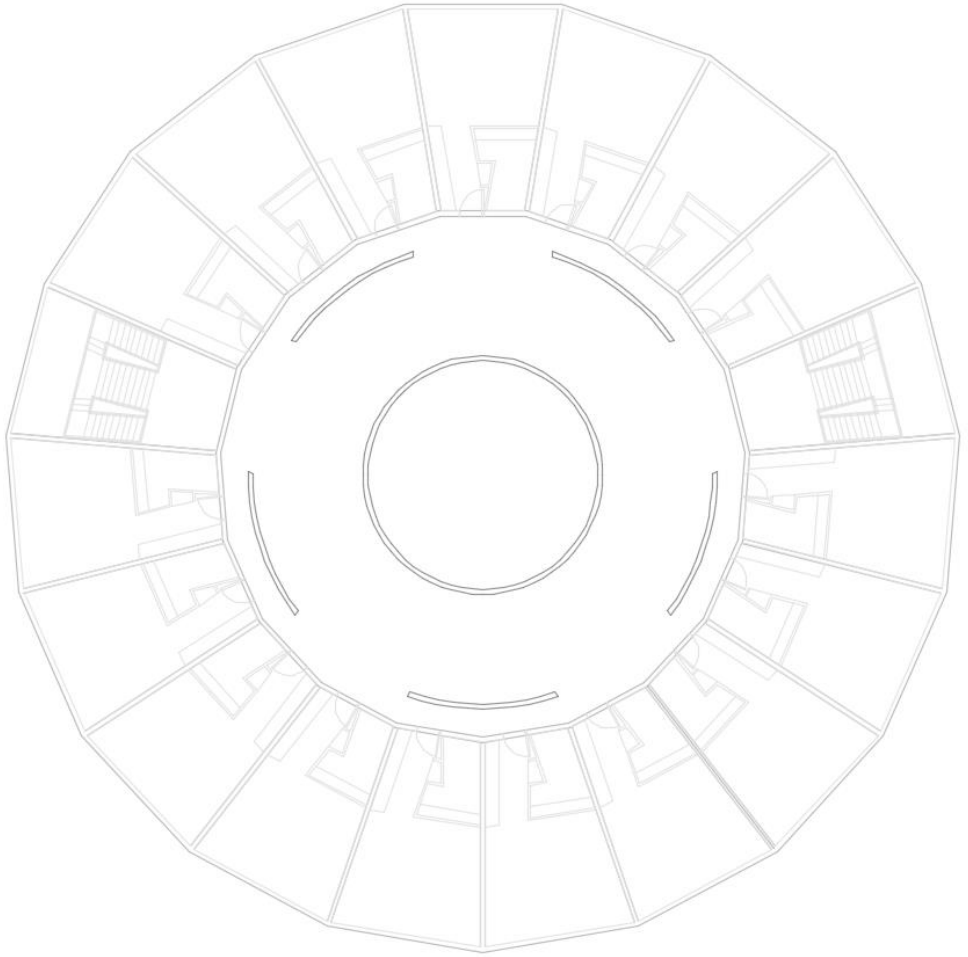
Registration No: 1023



Plans

First Floor Plan

Registration No: 1023



Plans

Typical Floor Plan

Registration No: 1023

Elevations

Front and Side View

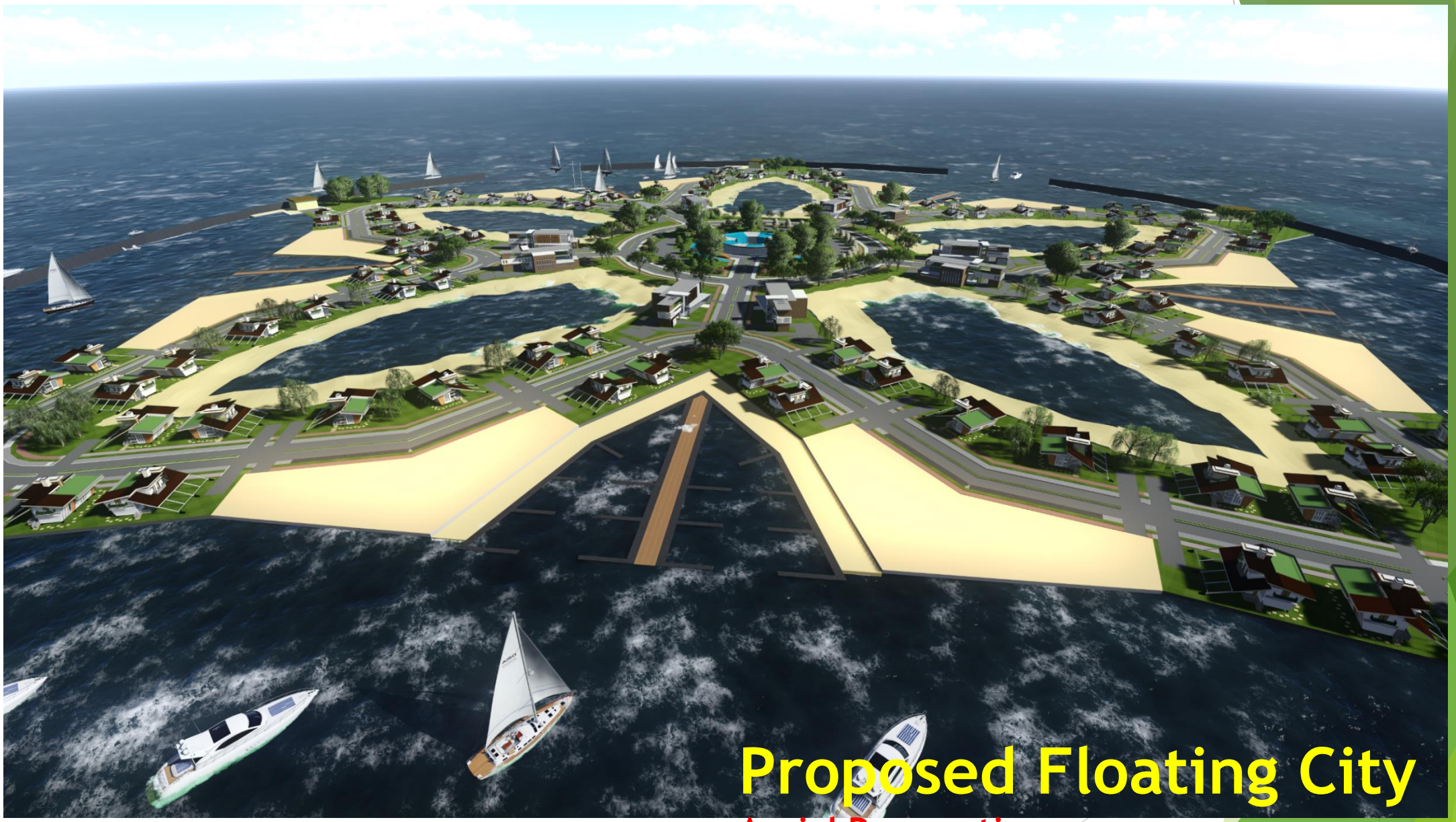
Registration No: 1023

EXPLANATION OF DESIGN

- Concept: Island within an Island.
- A new way of comfort and unforgettable experience especially design just for you!
- Breath taking scenery with the vicinity.
- Parking Spaces only for Electric Mobiles. (No Automobile cars regulation, which produce black smoke and possibly a cause of traffic congestion)
- Getting Greener!!!

Perspective View

Registration No: 1023



Proposed Floating City

Aerial Perspective

All living spaces in the floating city have ocean scenery in all directions, and with convenient traffic connections within its radius, enjoying proximity to local facilities, services, public transport and gardens as well as additional supplies of new areas to satisfy the long-term demand for human habitable land. Noise, waste and other environmental impacts will be managed via innovative strategies.

Registration No: 1023

Conclusion

The true essence of this proposal is not just to produce a city floating in water. The most important is the impact of the project to the improvement and advancement of the life of the people within the community and to be able to meet the long-term infrastructures and sustainable development need and bringing new opportunities' to education, employment, business and social activities that eventually will foster a chain positive reaction to the whole society and its economy

Registration No: 1023

May we all enjoy our nearly new way of living by this time. Have a blessed day and God bless to all the Contestants and Judges.

-Aspiring Designer of Floating city

Registration No: 1023