

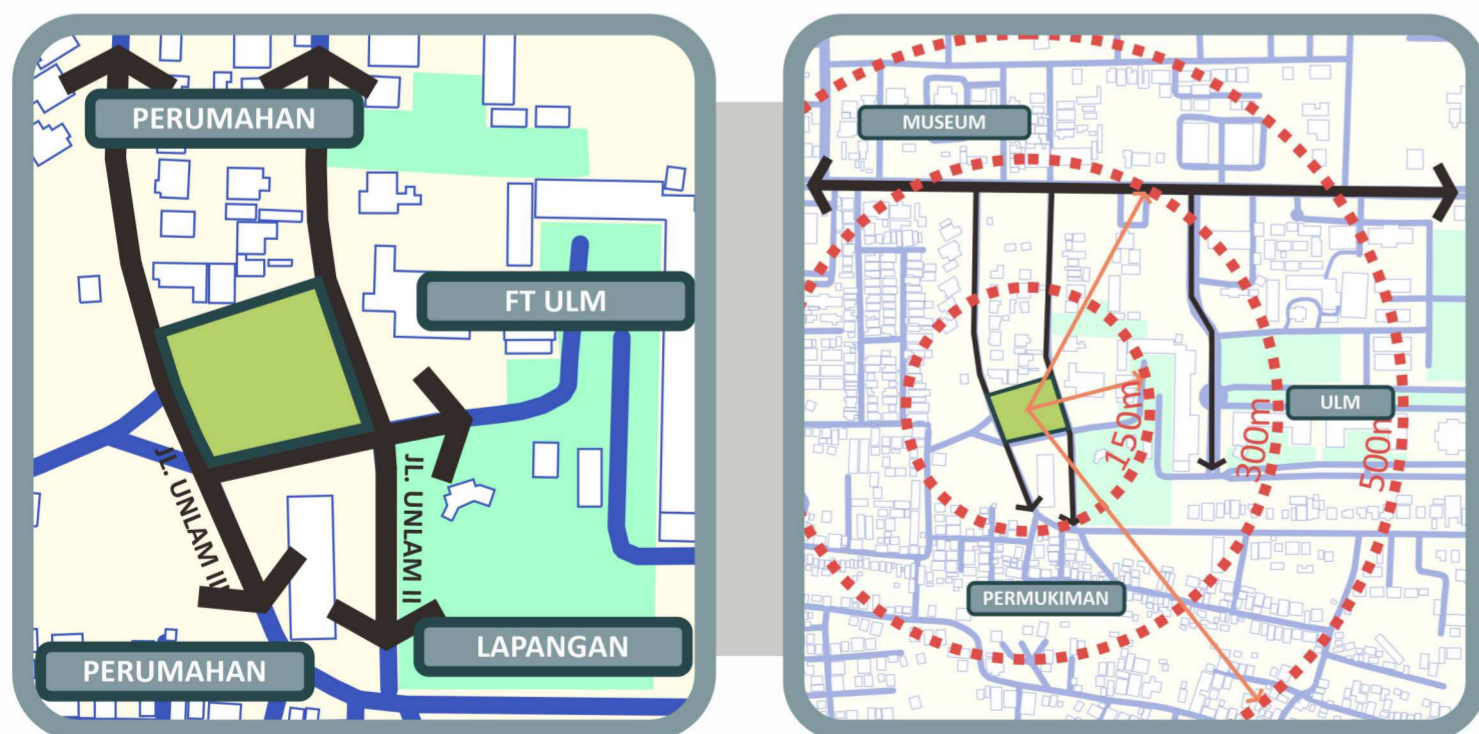
# ENVIRONEST

## eco-friendly student dormitory

ENVIRONEST is a student dormitory concept that elaborate a natural environmental element with college students surroundings in order to be a balanced life between human and nature.

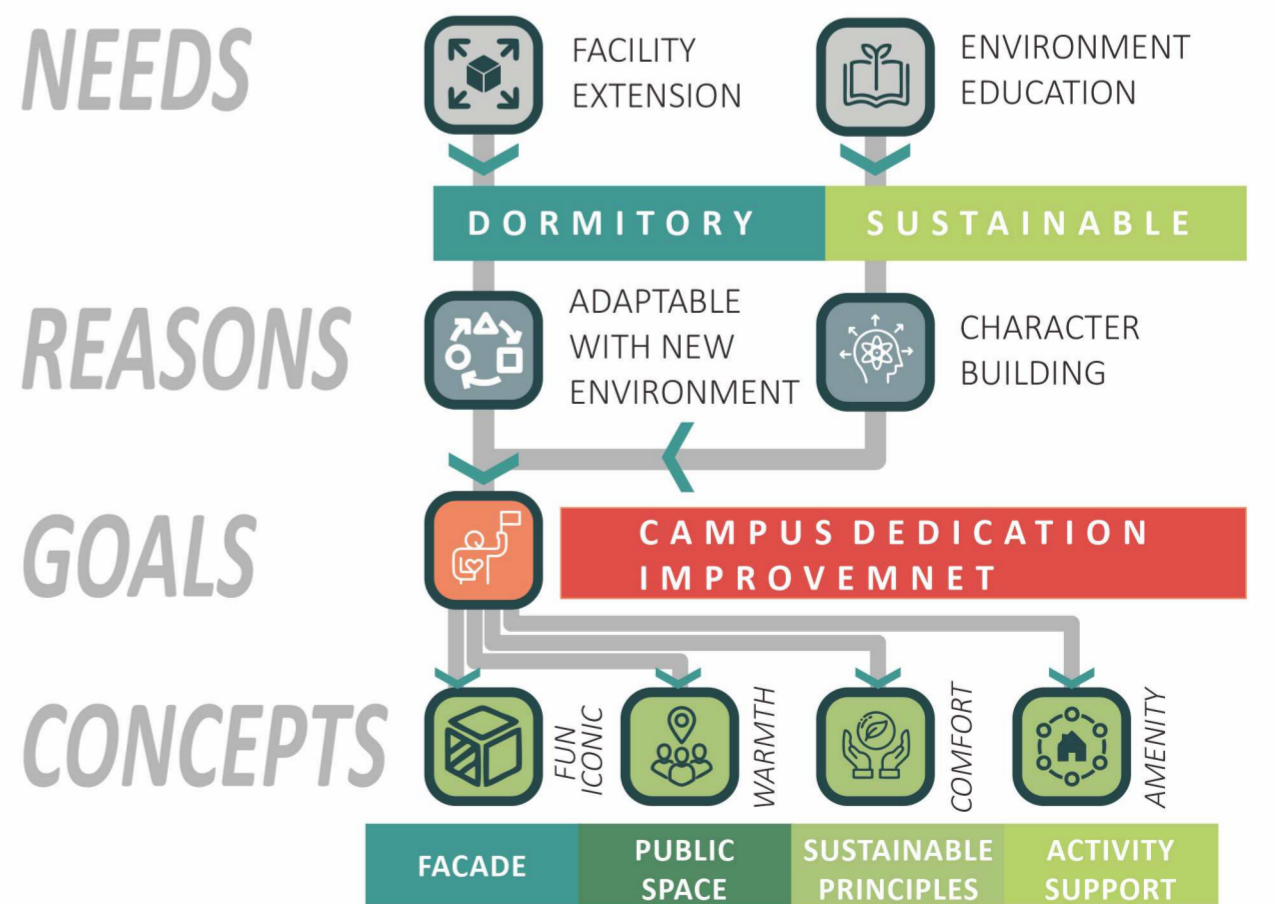


### SITE CONTEXT



The site is located in the Lambung Mangkurat University area dan near other public facilities. Based on this context, the student dormitory can accomodate the needs of the new students.

### DESIGN CONCEPT



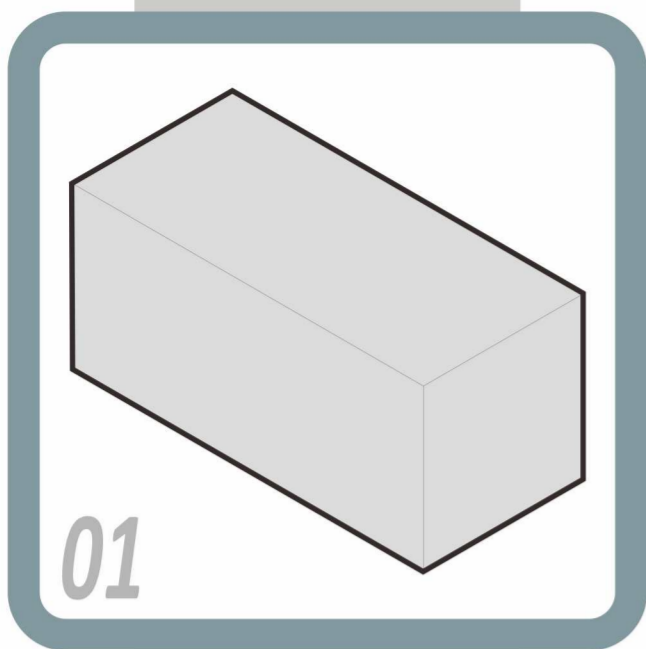
Indonesia  
DfGE Design  
Competition 2023

**ENVIRONEST**  
eco-friendly student dormitory

DFGE-23-0061

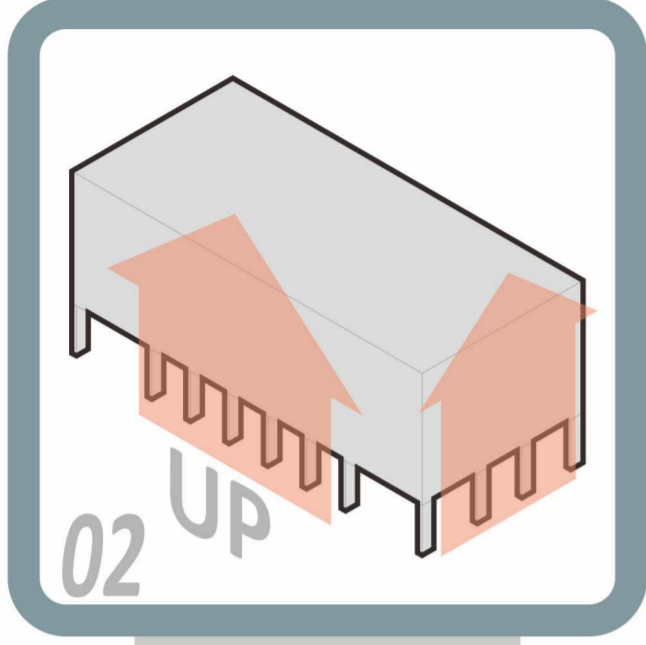
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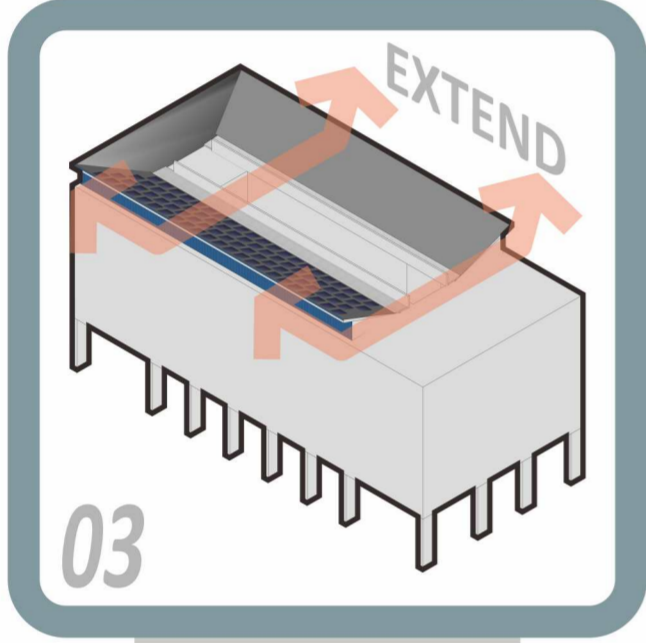
01

The mass of this design begins with a solid box shape as a response to the site geometry.



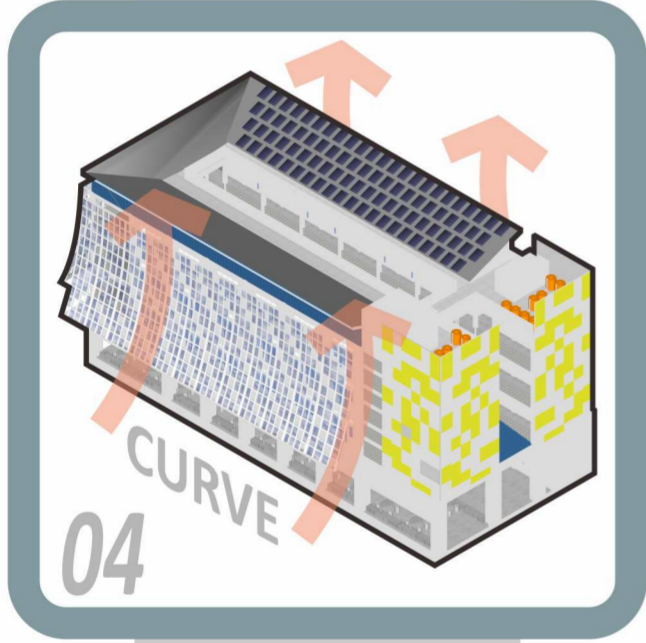
02 UP

The mass is raised in order to give the building interior a better air circulation.



03

Extensions on the roof to maximize rain water harvesting and subtracting the core of the mass.



04

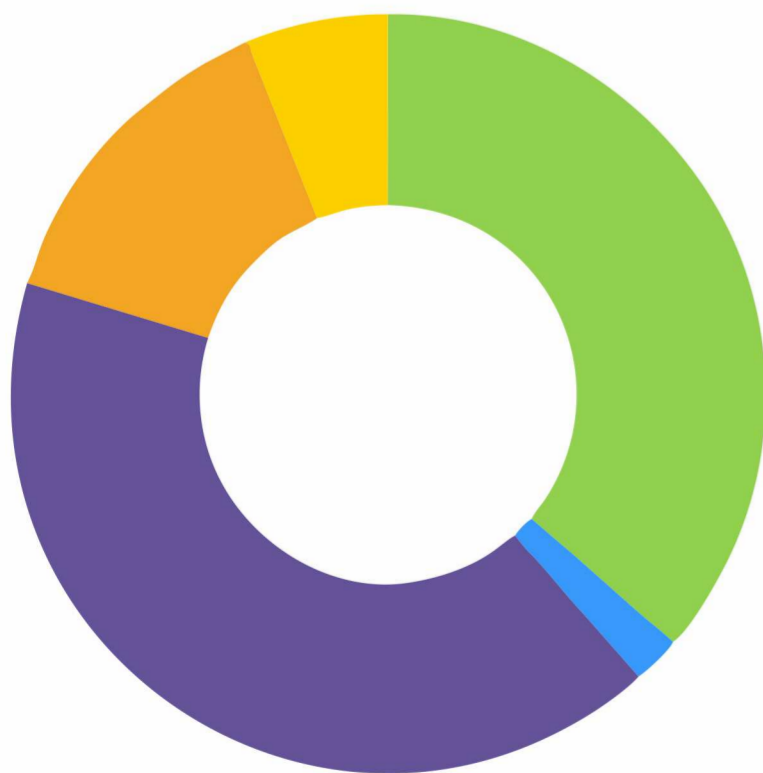
Addition of sun shading with curve shape to give it a character.



KETERANGAN

- 1 PLAZA AREA
- 2 DORMITORY A
- 3 DORMITORY B
- 4 PARKING AREA
- 5 OPEN SPACE
- 6 PUBLIC SPACE

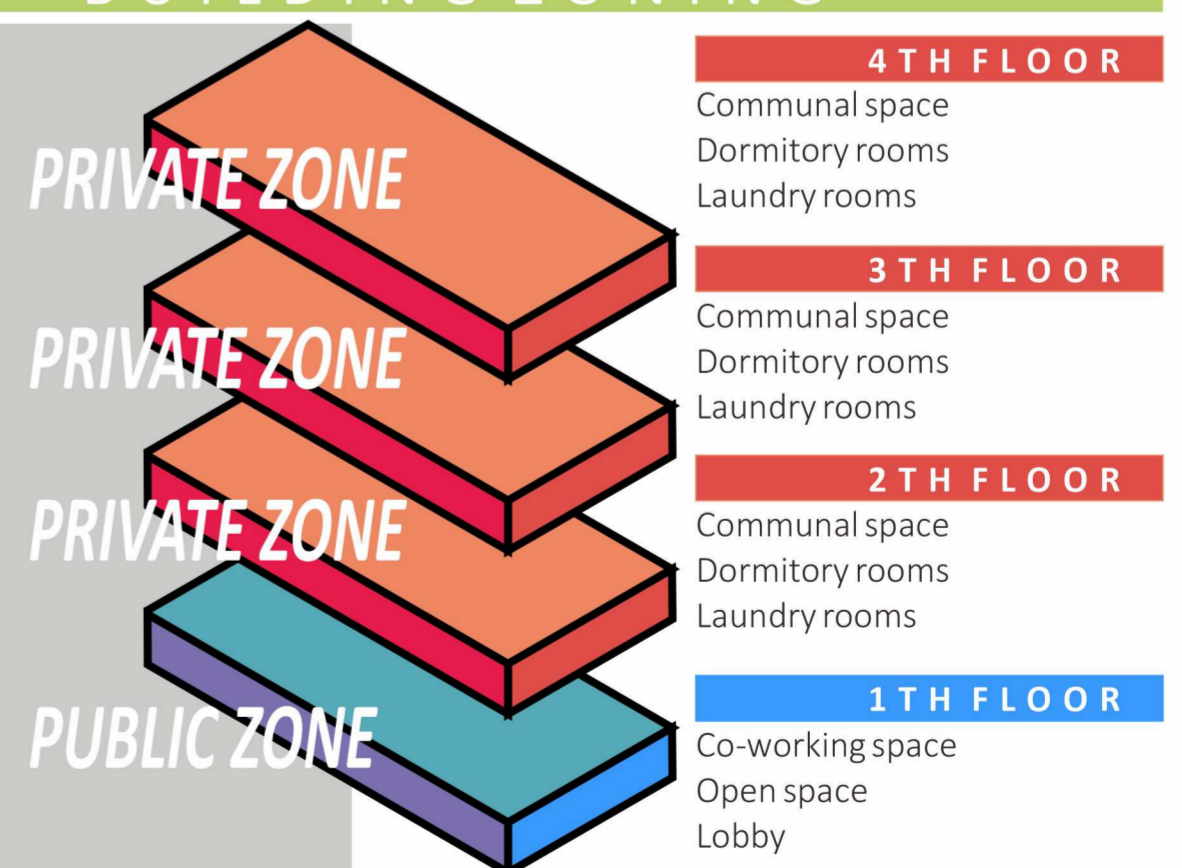
BUILDING DATA  
ROOMS PERCENTAGE



This student dormitory consists of 4 floors with a total of 36 rooms. The system of this building does not use air conditioning nor room heating.

- 41% CORRIDORS
- 36% DORMITORY AREA
- 14% RECREATIONAL AREA
- 6% BACK OF HOUSE
- 2% LOBBY

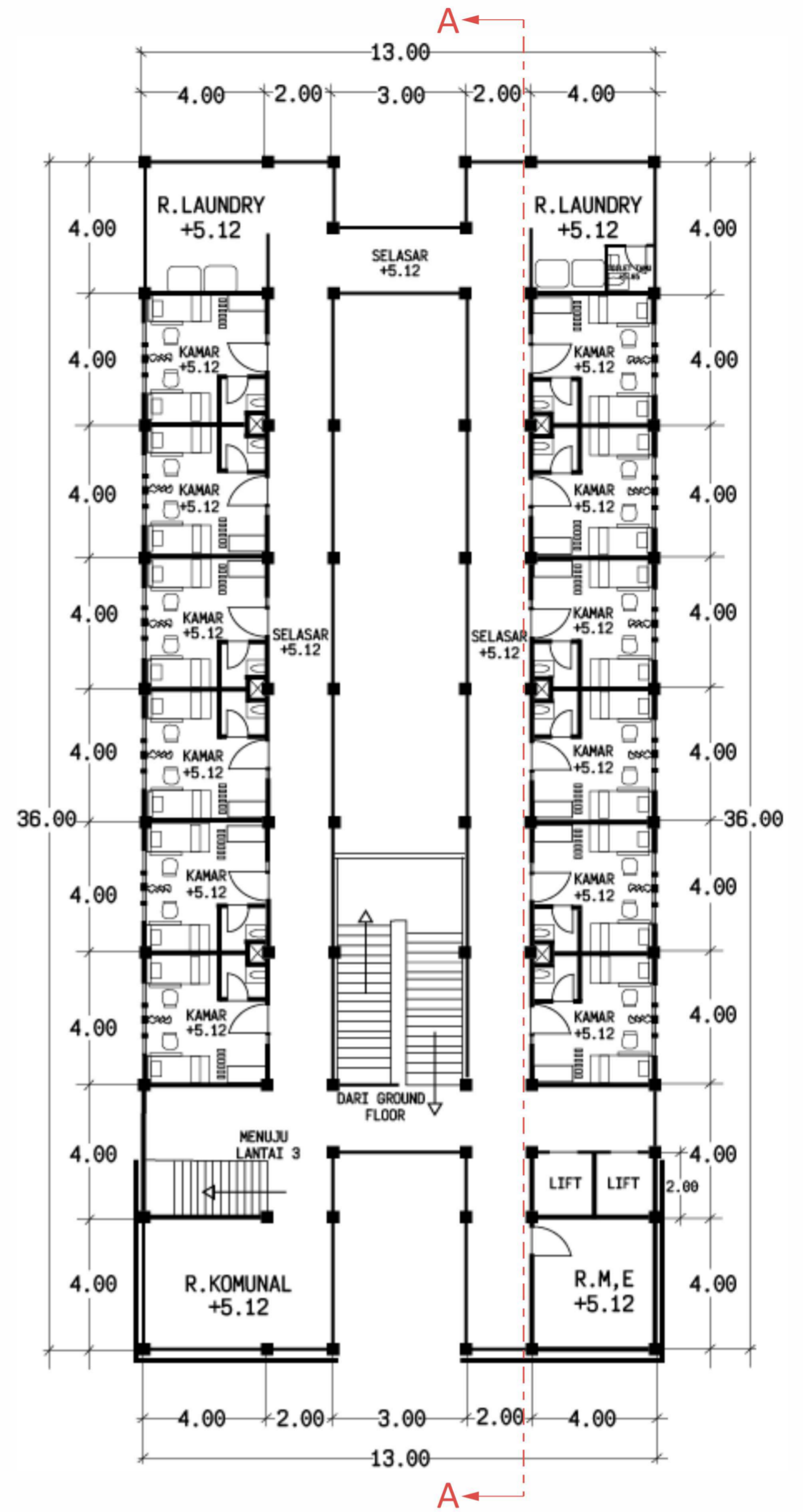
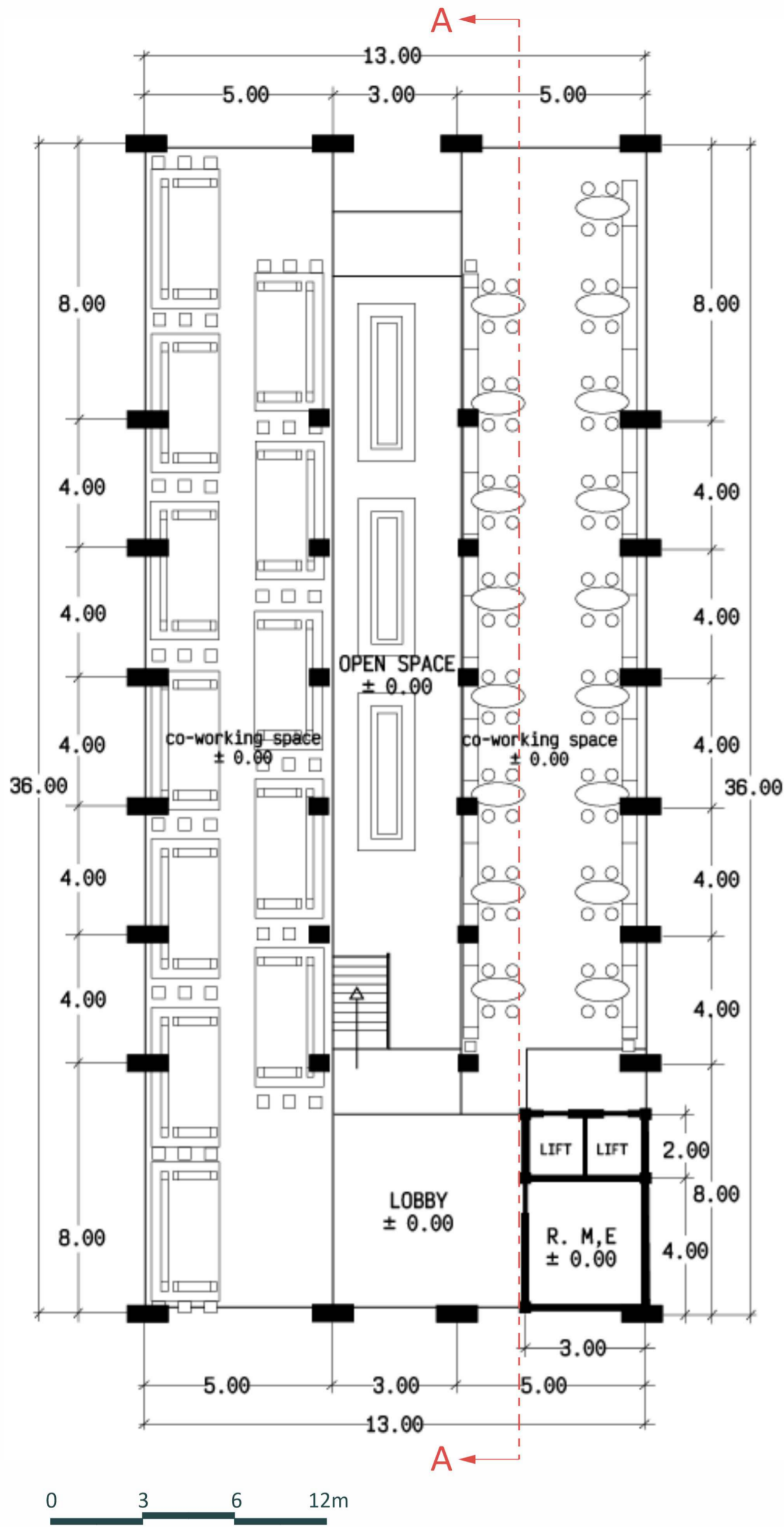
BUILDING ZONING



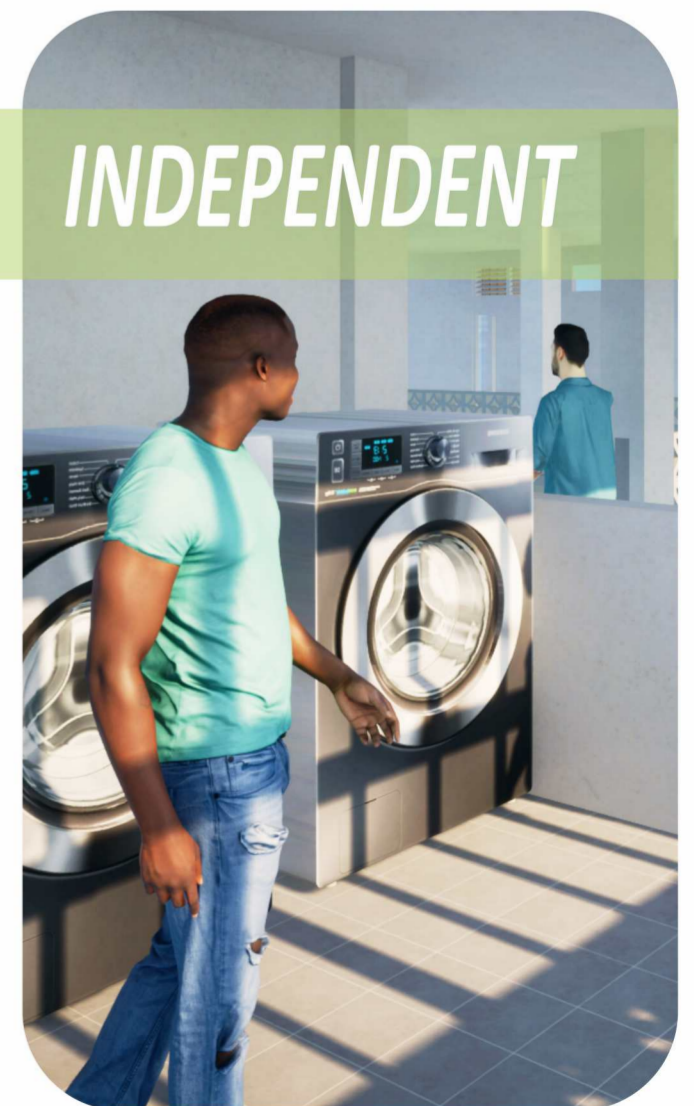


1ST FLOOR PLAN

TYPICAL FLOOR PLAN (2ND-4TH)



INTERIOR CONCEPT





SOUTH ELEVATION



WEST ELEVATION



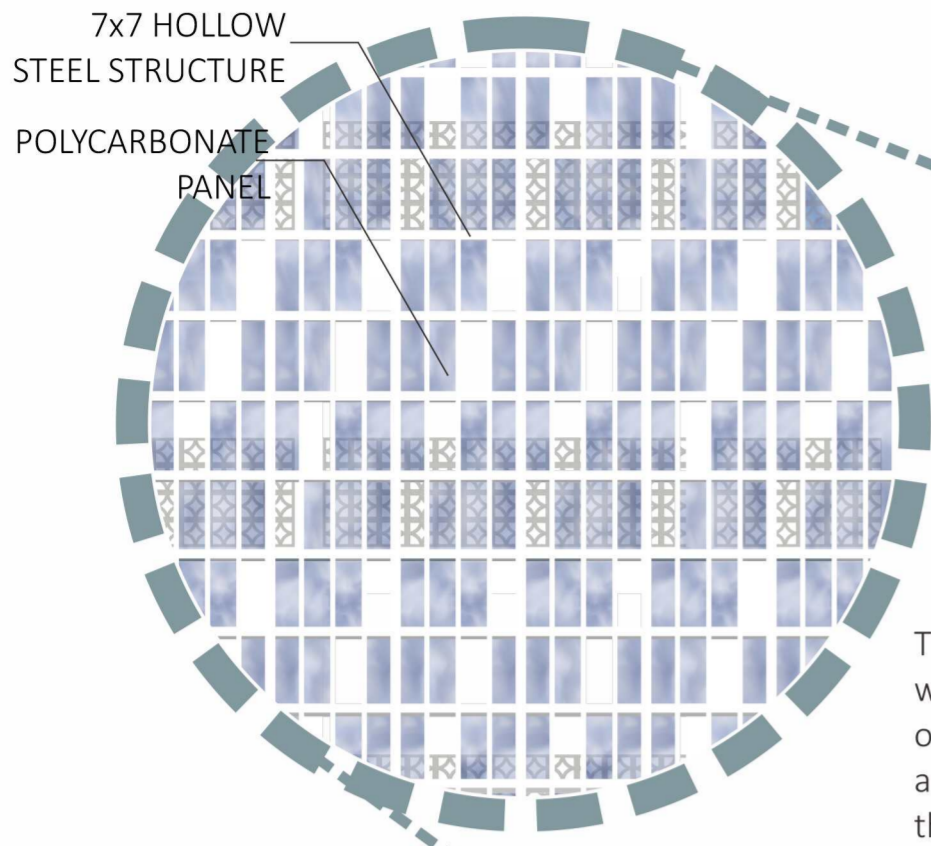
EAST ELEVATION



LONGITUDINAL SECTION (A-A)



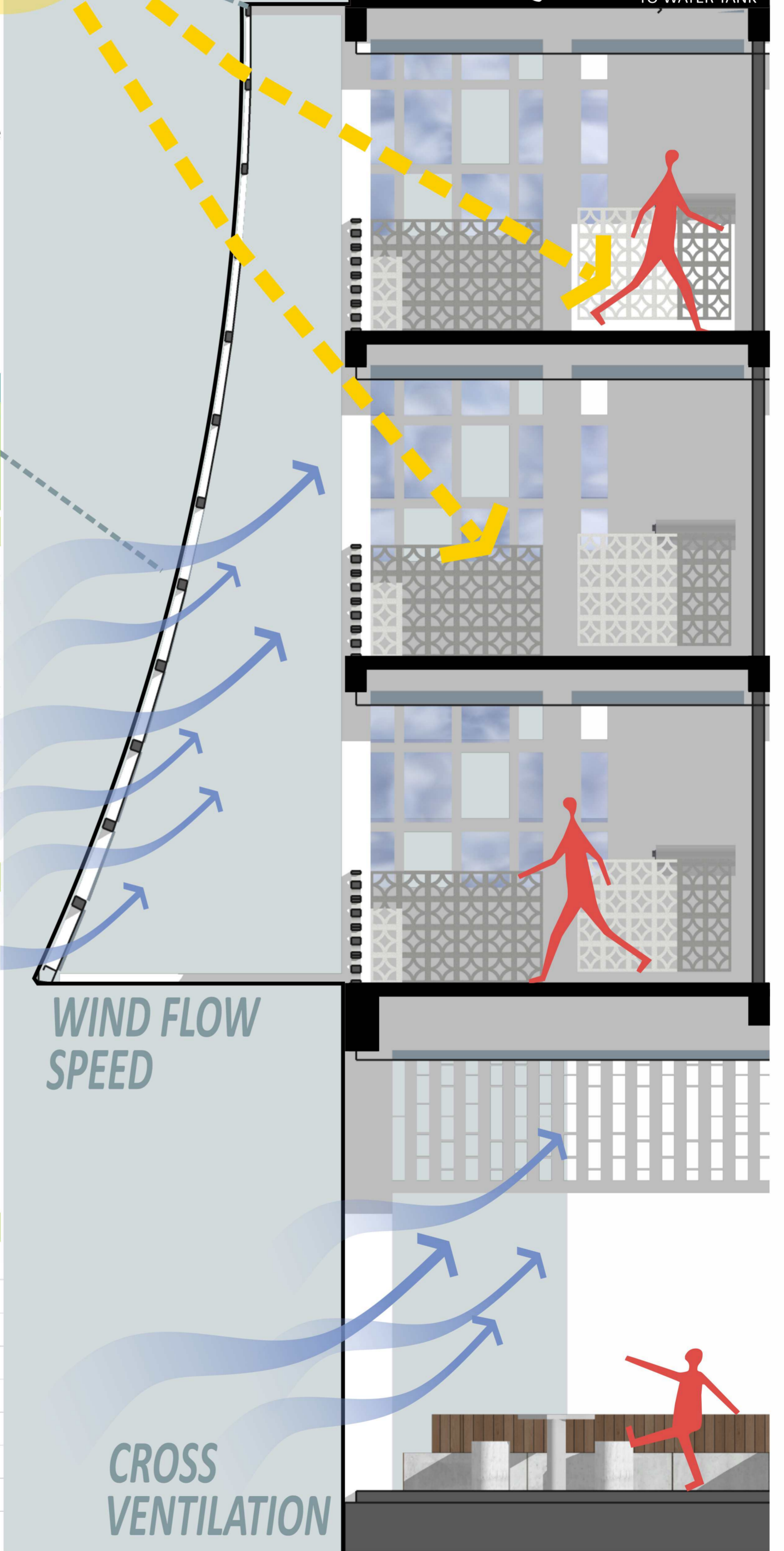
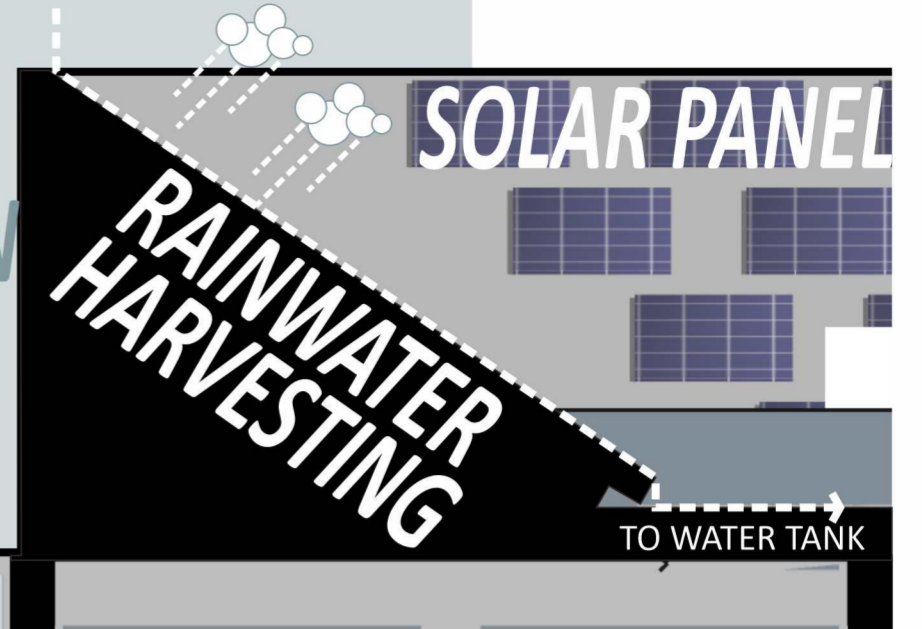




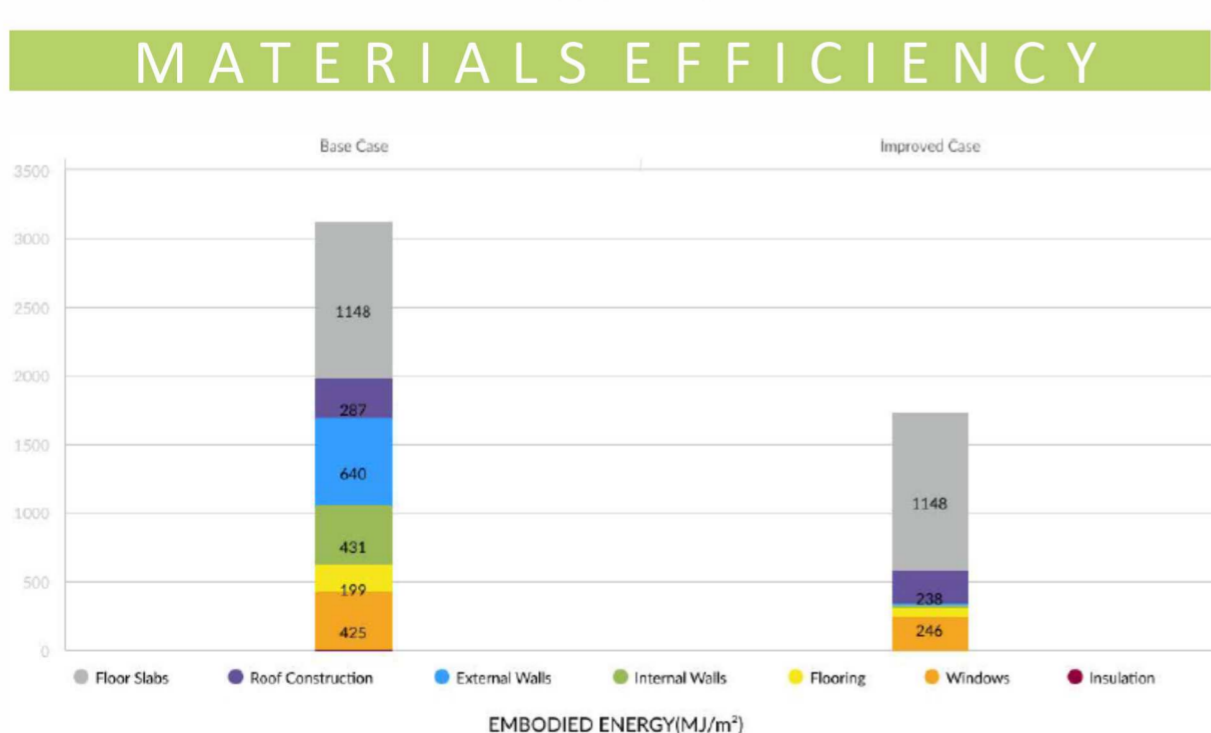
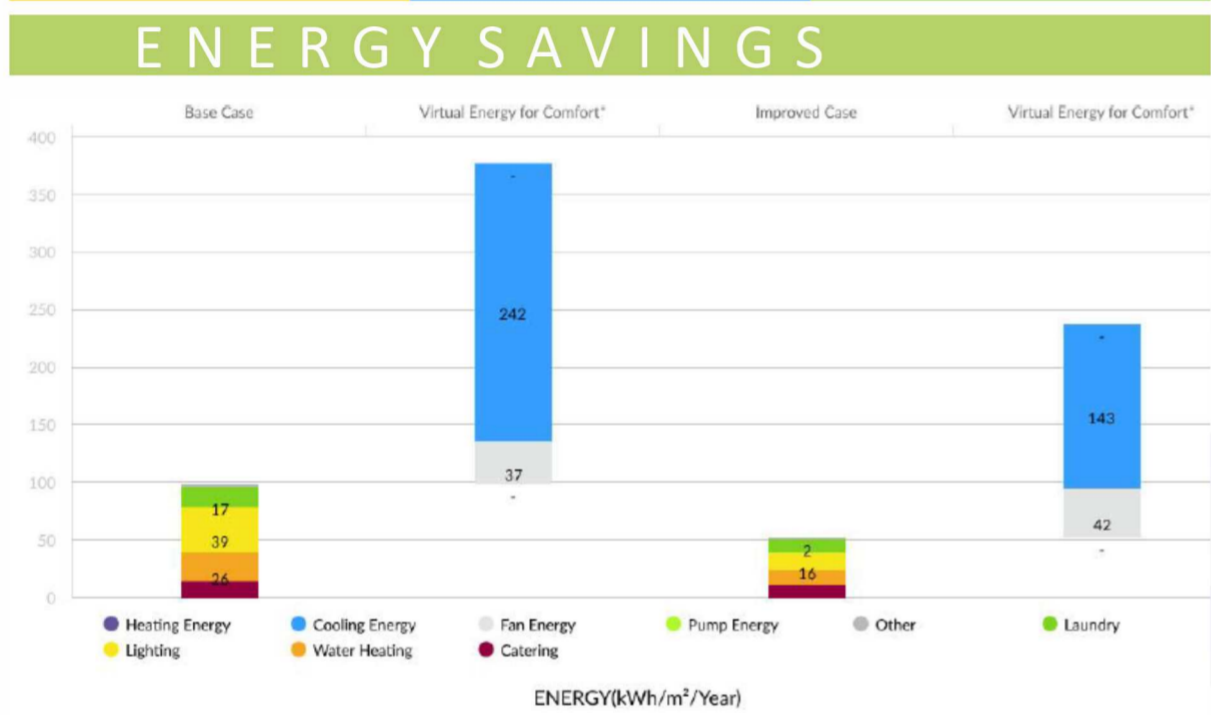
The facade design with small holes in order to accelerate airflow speed with the principle of venturi effect so the interior gets constant air circulation

# VENTURI FACADE

LIGHT REFRACTION



| EDGE ASSESSMENT |               |                     |
|-----------------|---------------|---------------------|
| ENERGY SAVINGS  | WATER SAVINGS | MATERIAL EFFICIENCY |
| 46.70 %         | 30.20 %       | 44.54 %             |





AERIAL VIEW PERSPECTIVE



PLAZA AREA



OPEN SPACE



FRONT PERSPECTIVE



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