

UNITED DREAMSCAPES

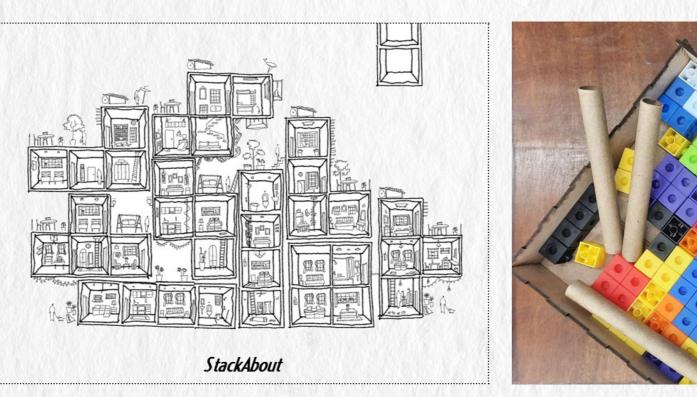
chandkheda, ahmedabad 2/3 bhk premium living

Monsoon Semester 2023 Oikopolis V: The Architect Strikes Back

PORTFOLIO

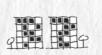
Isha Mahajani |UG190589



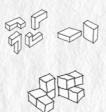


Game Experiment | Objectives behind designing and playing the game

- To explore variations in stacking within a simple structure
- To use different types of dwellings in one stack unlike the usual vertical repetition of a house
- To compare and understand the potential and limitations of different types of dwellings
- To explore the variations possible in a stack using only one type of dwelling
- To use the game as a tool to come up with strategies and concepts that can be used at mass housing scale











StackAbout 3.0

Given: Maximum 12 pieces (of one type of tetromino) and a cylinder

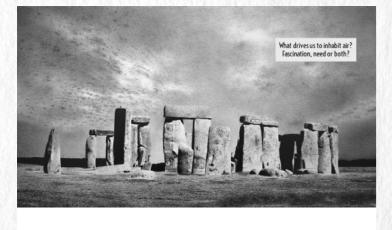
- Rules: 1
 - Cannot change the pieces
- 2. Every piece needs to have at least one square face directly attached to the cylinder
- No pieces stacked directly on top of each other can be in the same plane 3.
- 4. No two pieces can have the same orientation

Cylinder MANDATORY to use. Different winning criteria were given.

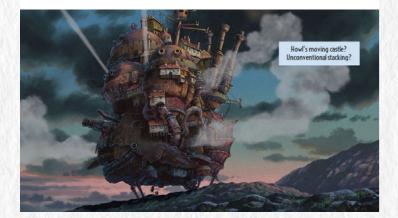
Time: 3-5 minutes

Result:

- . when compared to the other pieces.







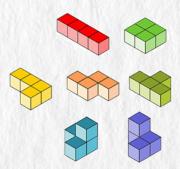




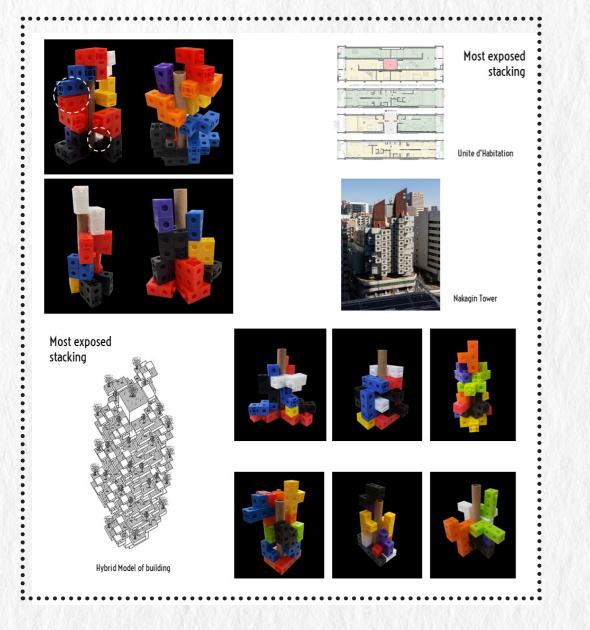
SEMINAR

HOW DO YOU STACK? POTENTIAL AND PERSPECTIVES IN MASS HOUSING





Majority of the people who played the game thought that the L, Z and T pieces were easy to stack according to the rules Equal number of people thought that the easiest piece to stack between these 3, was the L or the T piece.



Prospects of StackAbout

- 1. Instead of a 3D tetromino, different 3D polyomino are used to play the game (thereby allowing different sized dwellings as variety).
- Same rules as StackAbout 3.0.
- Not allowing angle rotation of pieces .
- Only 50% of the down facing surface area of a piece can be exposed (To limit extreme cantilevering) .
- Not more than one piece stacked on top of the other .
- To maximize voids .
- The pieces can be stacked without the cylinder; the stack that requires least number of cylinders to connect all the pieces 1. wins

(understanding and exploring unit-circulation relationship).

Game of 3D Tetris of stacking different pieces in one plane (imagine like a section of a building), stack with minimum Ι. surfaces closed off wins.



Food for Thought

- . expression of individual identity?
- . strategize to provide a sense of groundedness?
- What is the future of stacking? •
- . chaos and confusion?





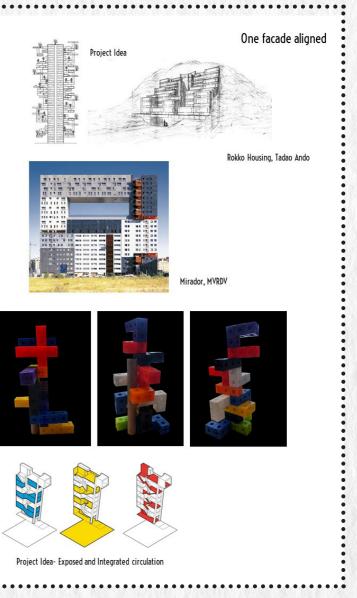


Least surface area of the cylinder used

In a high-rise apartment, does the repetition of a house discourage

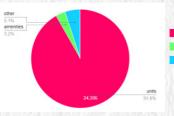
Do you feel isolated from the ground in mass housing? How can stacking

Is irregular stacking (intending to break monotony) doing the exact opposite ie. creating a new style/ sense of monotony-



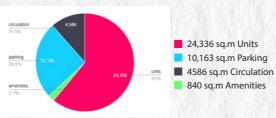


Pie Chart showing split up of FSI



24336 sq.m Units 840 sq.m Amenities 1342.8 sq.m Other (refuge area, skywalk area and circulation)

Pie Chart showing split up of Built up





PLOT SIZE- 10074 SQ.M R1 ZONE, 2.7 FSI PERMISSIBLE FSI- 27200 SQ.M MAX. HEIGHT- 45M ROAD WIDTHS- 30M, 24M SITE MARGINS- 6M ON ALL SIDES MARGIN BETWEEN BUILDINGS- 9M

NEIGHBOURHOOD SCHEMES MAJORLY 2-3 BHKS APTS. FOR MIDDLE CLASS FAMILIES (OUTSTATE AND SERVICE ORIENTED)

ABOUT THE PROJECT 2/3 BHK PREMIUM LIVING



FSI USED- 26534 SQ.M BUILT UP AREA- 39925SQ.M NO. OF FLOORS- G+13 **NO. OF CLUSTERS-** 4



NO. OF UNITS PER FLOOR- 16 NO. OF UNITS- 208 **TYPES OF UNITS-** 4 (SAME AREA, DIFFERENT LAYOUT) RERA CARPET AREA- 94.5 SQ.M BUILT UP AREA- 117 SQ.M COST OF ONE UNIT- 97,50,000SQ.M



CAR PARKING- 215 CARS



TWO-WHEELER PARKING- 546 SPOTS

FINAL PROJECT

Zundal - Tragad Rd, Chandkheda, Ahmedabad

THE INTENT:

TO DIGNIFY THE SERVICES AT BOTH INDIVIDUAL AND COLLECTIVE LEVEL

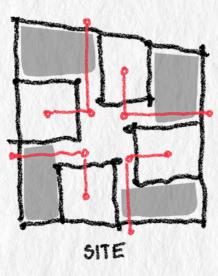
THE CONCEPT:

INVERSION OF SERVED AND SERVANT SPACES TO DEFINE GEOMETRY

WHAT IS A HOME?

A REFUGE

WHAT IS SERVED?	WHAT IS SERVANT?	WHAT IS SERV
EATING GATHERING SLEEPING STUDYING	COOKING BATHROOMS KITCHEN CHOWKDI STORAGE	GREEN SPACE RECREATION RESIDENCES
	•	



AT SITE LEVEL.

THE RESIDENTIAL MASS IS PUSHED INSIDE, FREEING THE CORNERS.

SERVICES IN GREY ARE DESIGNED TO DEFINE THESE CORNERS.

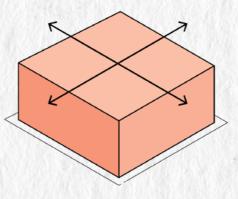
CIRCULATION PATH IN RED GOES THROUGH THE DENSE WILDSCAPE.

AT UNIT LEVEL,

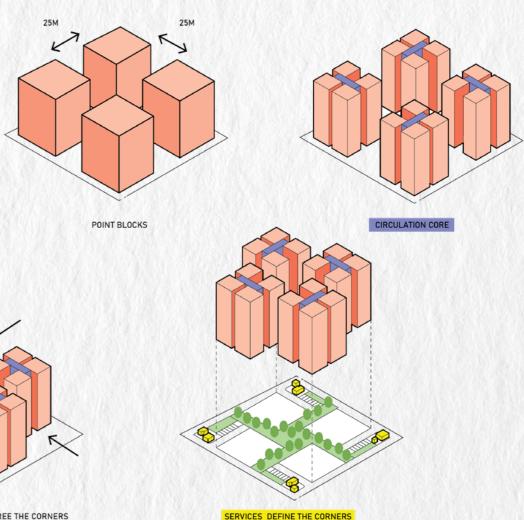
THE CENTRAL GREY CROSS IS THE SERVANT SPACE DEFINED BY LIGHT STEEL INFRASTRUCTURE.

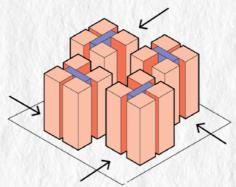
UNIT

THE CORNERS ARE THE SERVED SPACES DEFINED BY A THICKER RCC STRUCTURE.



ONE MASS





RESIDENTIAL MASS PUSHED IN TO FREE THE CORNERS

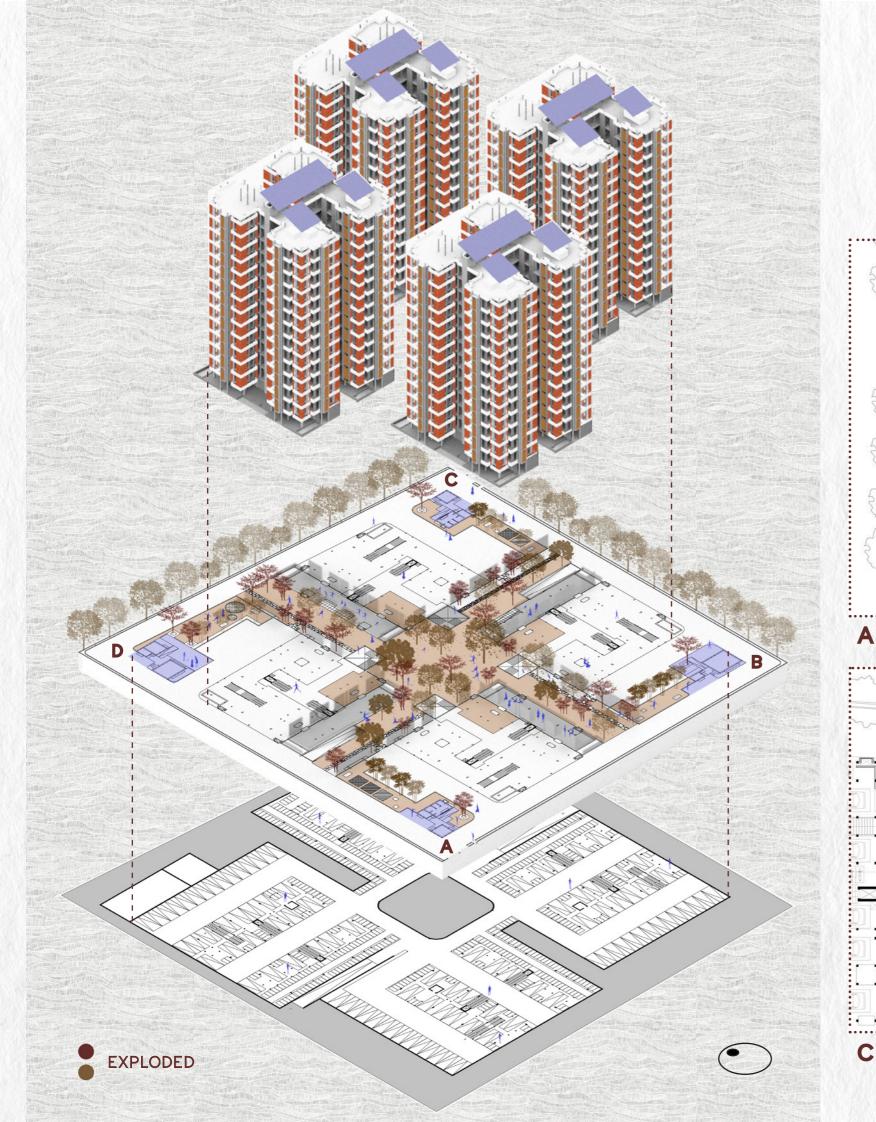
WHAT IS A **NEIGHBOURHOOD?**

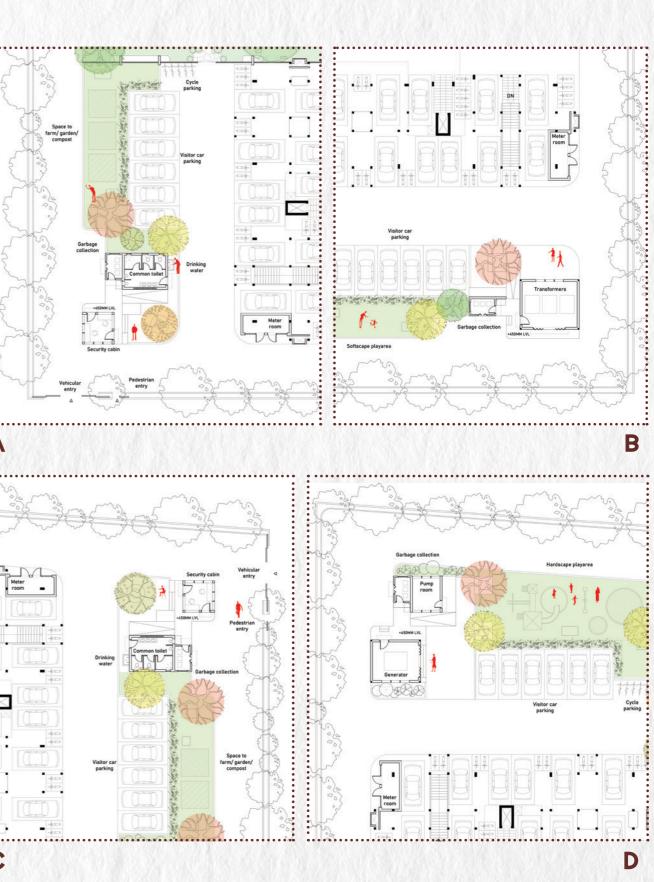
AT IS SERVED?

A UTOPIA

EN SPACES REATION SPACES WHAT IS SERVANT?

PARKING CIRCULATION **METER ROOMS** TRANSFORMER GENERATOR PUMP ROOM SECURITY CABINS GARBAGE DISPOSAL



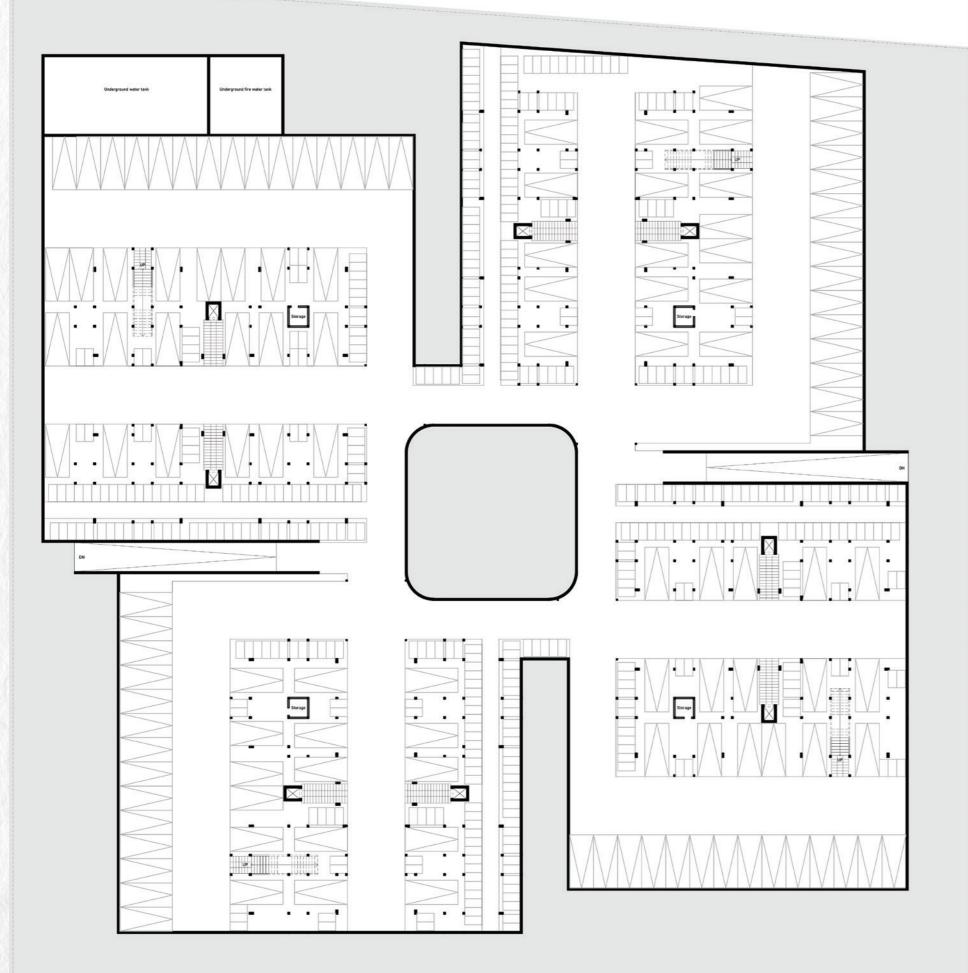


SERVANT SPACES AT SITE LEVEL

SECURITY CABIN GARBAGE DISPOSAL TRANSFORMER GENERATOR

METER ROOM COMMON TOILETS DRINKING WATER PARKING

BASEMENT PARKING PLAN



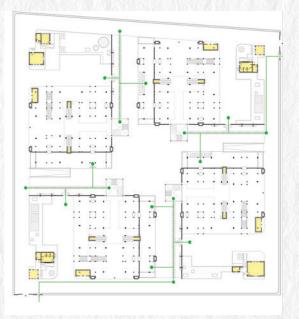
1250CM

0 250

750



GARBAGE TRUCK





RAMPS UNDERGROUND WATER TANK UNDERGROUND FIRE TANK LIFT AND STAIRCASES STORAGE CAR PARKING 2-WHEELER PARKING



100 300 700CM

12745 S. N.A.

PRANT STATES

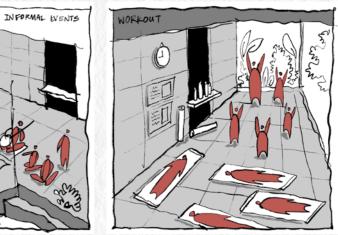
GROUND FLOOR PLAN



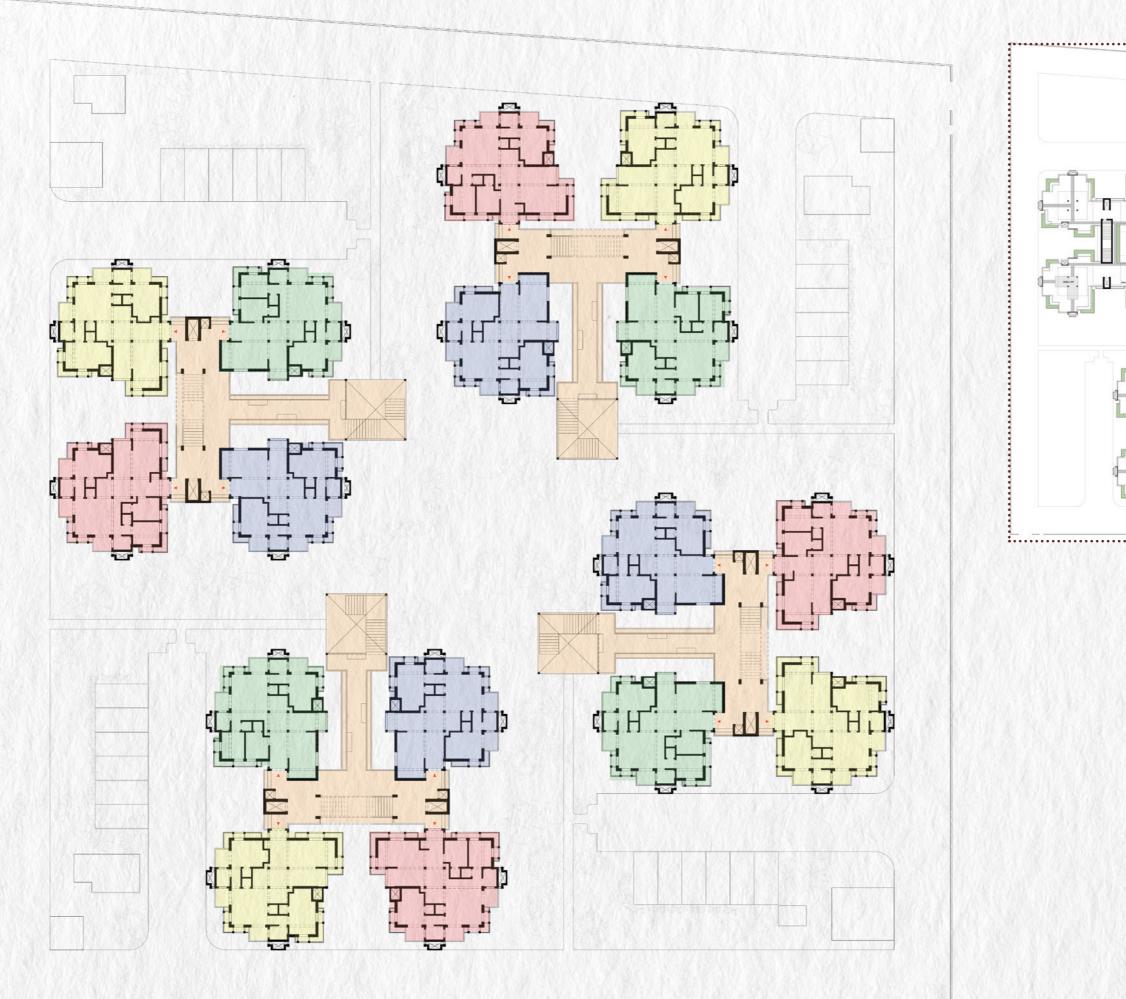




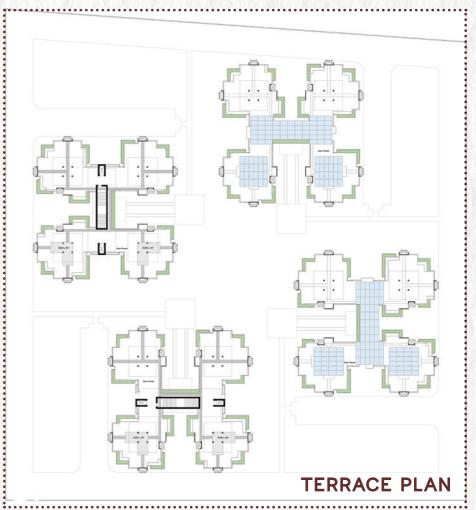
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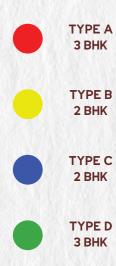




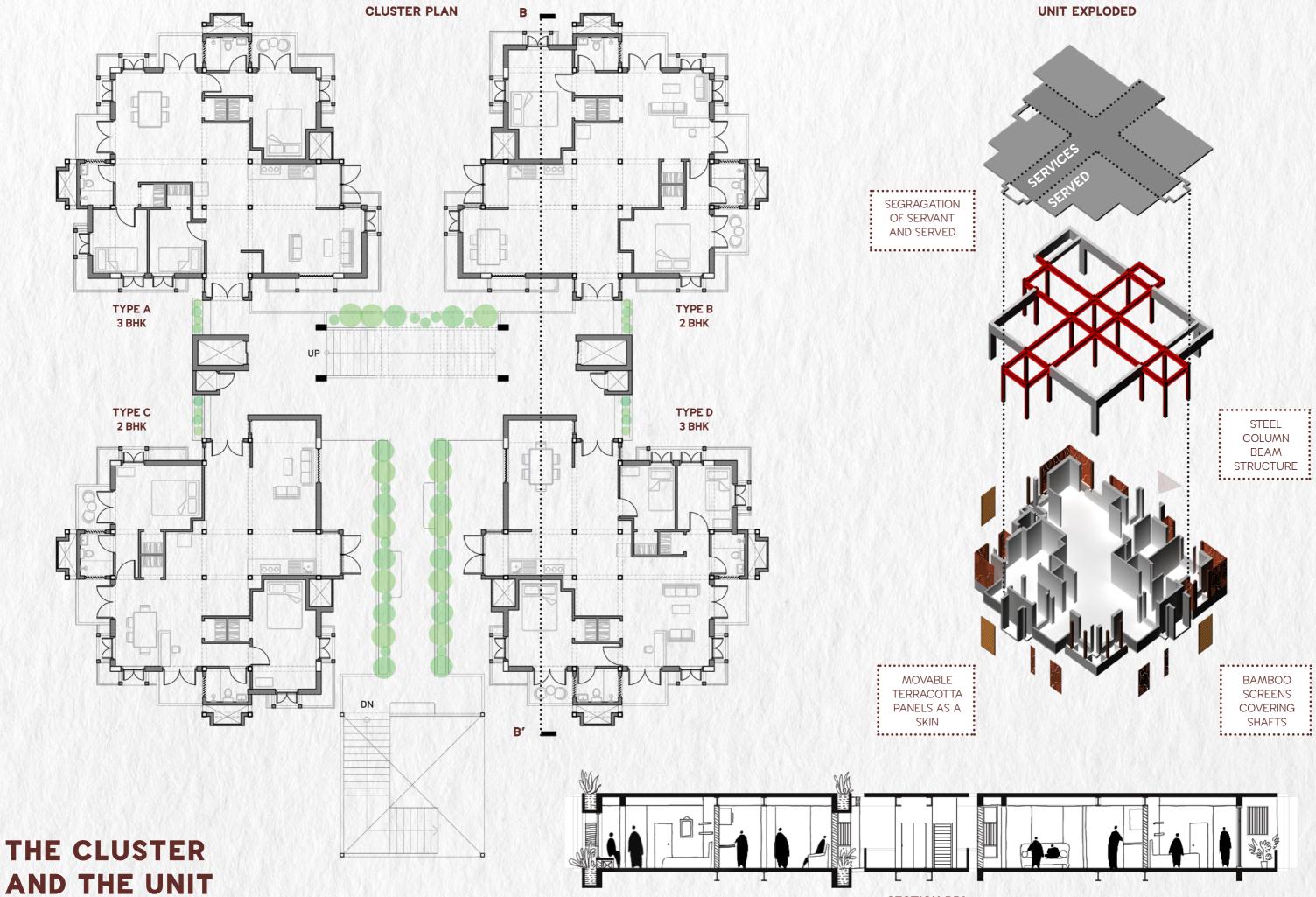
FIRST FLOOR PLAN



LIFT AND STAIRCASES WATER PIPES SOLAR PANELS OVERHEAD WATER TANK







SECTION BB'



SECTION AA'

