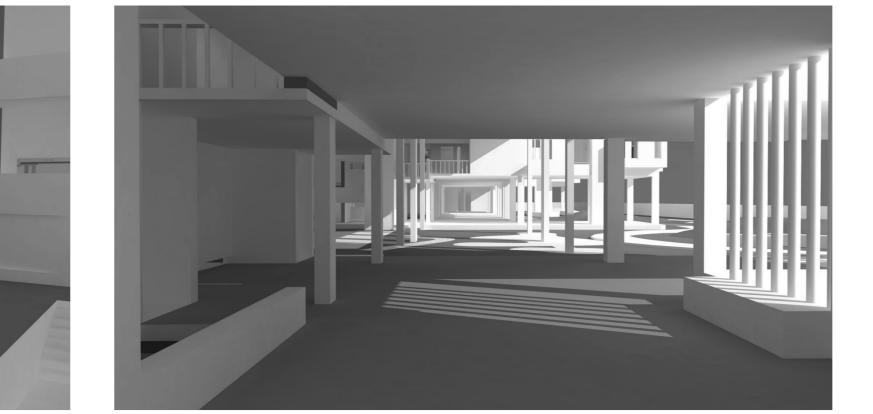
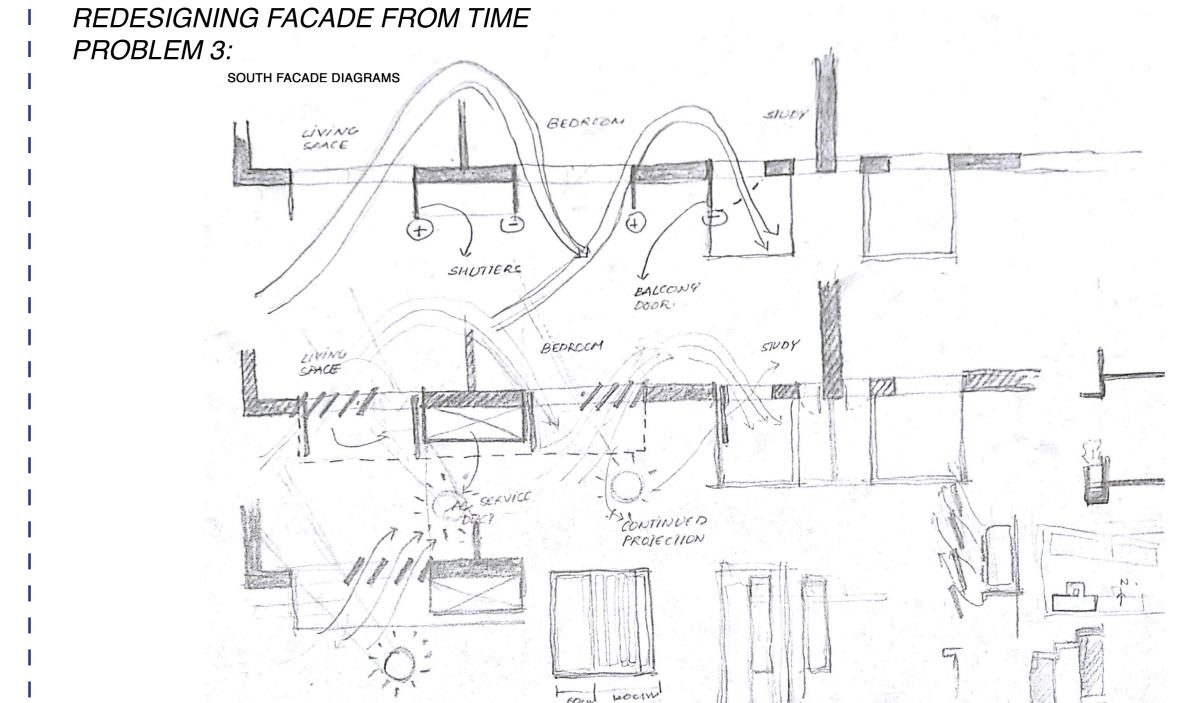


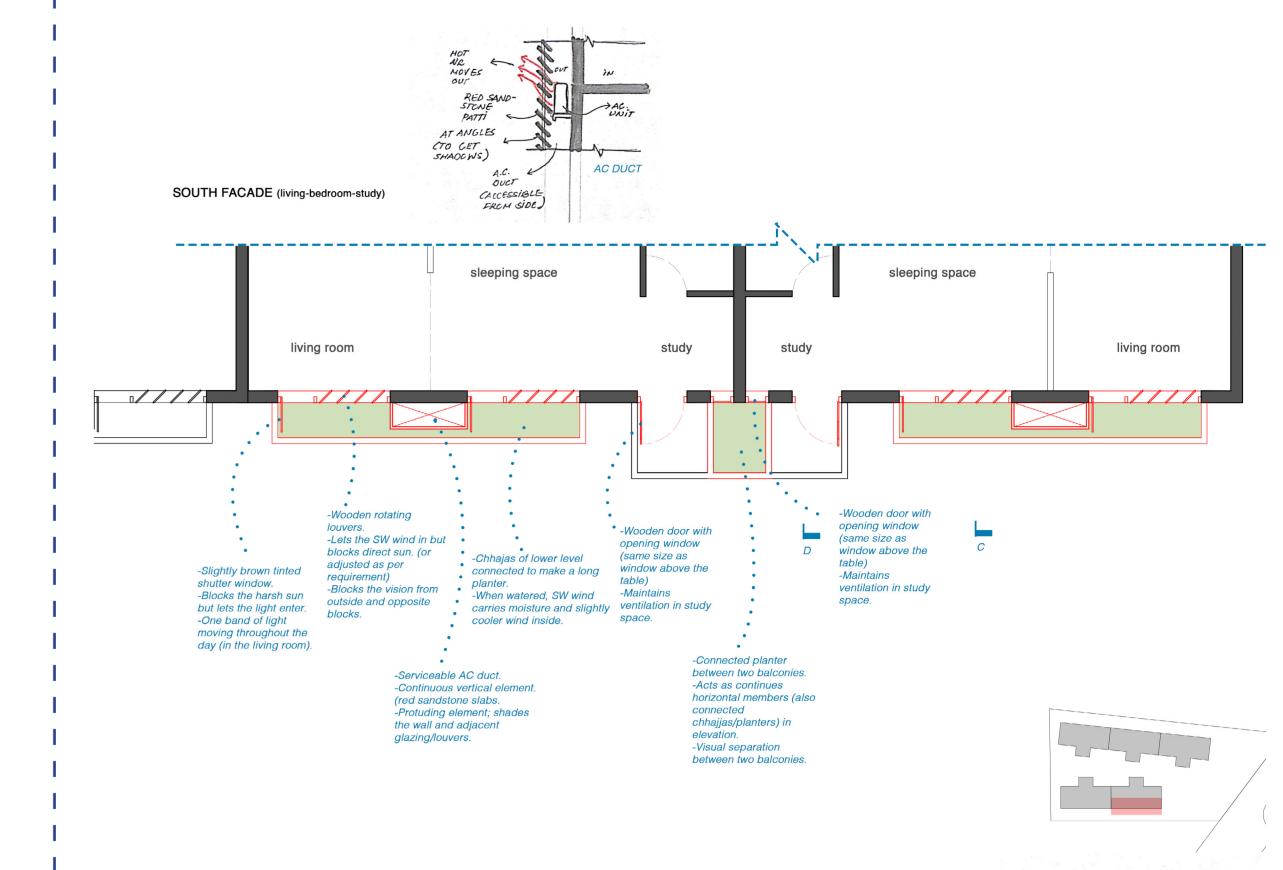
OIKOPOLIS 2.0 : Attack of the clones Chirag UA2514

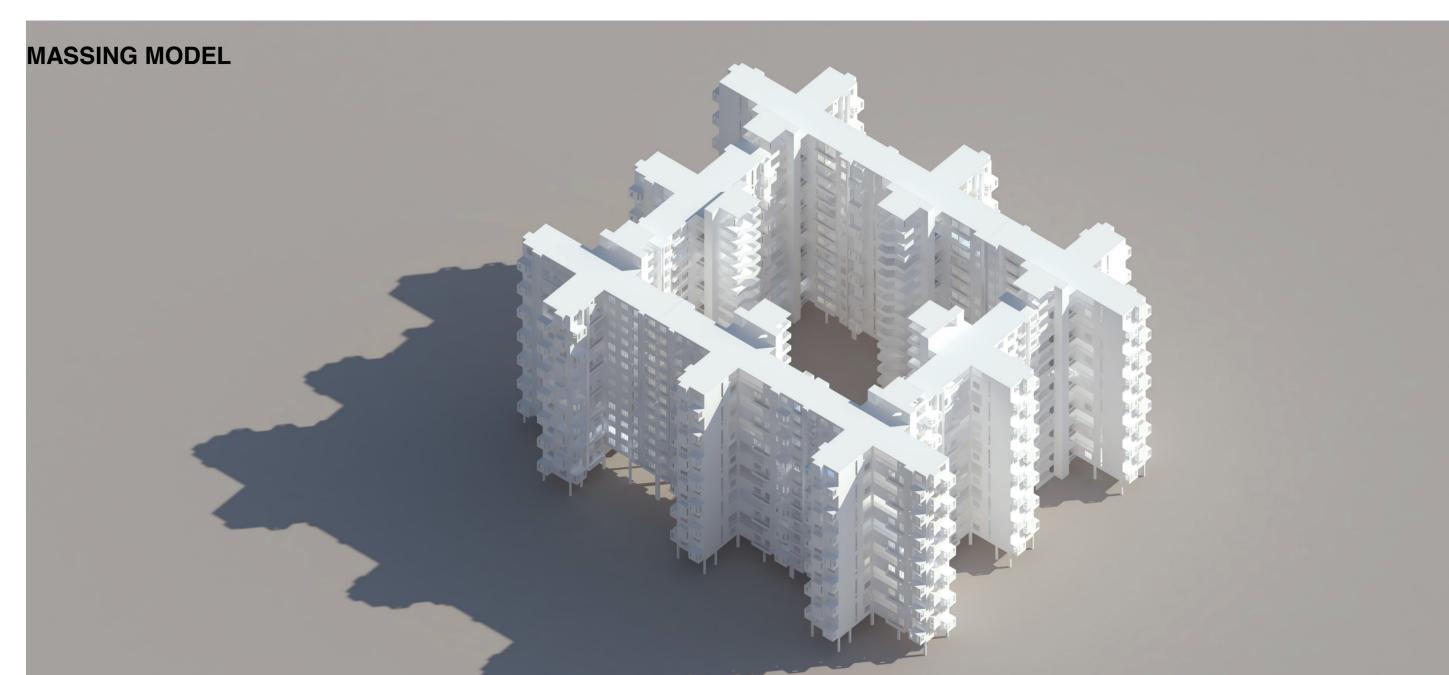
MODULAR



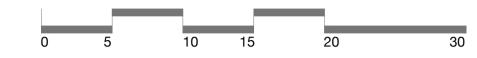


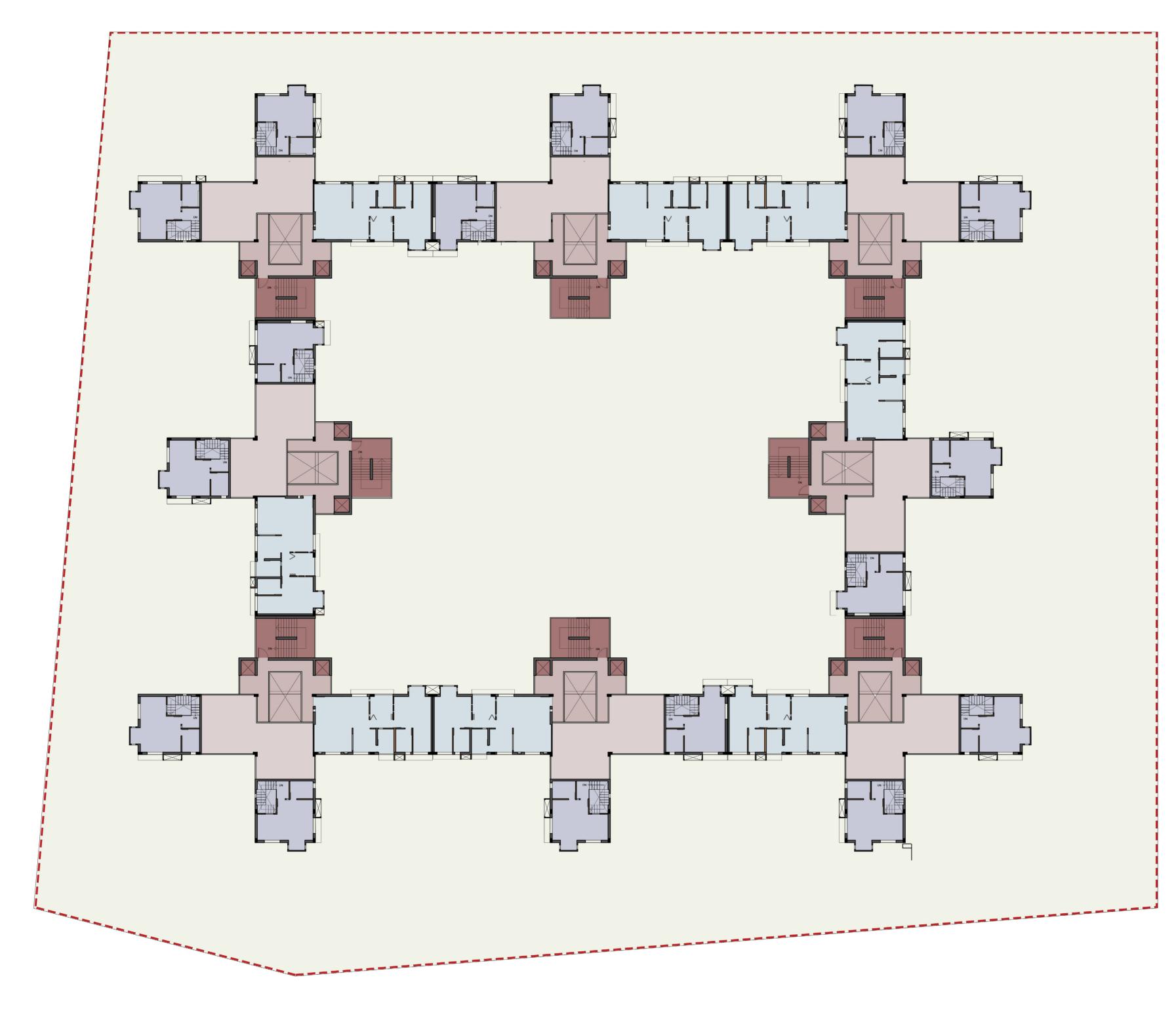


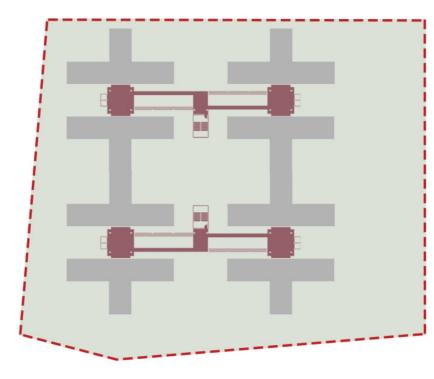


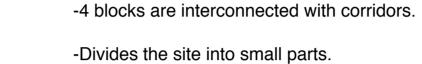










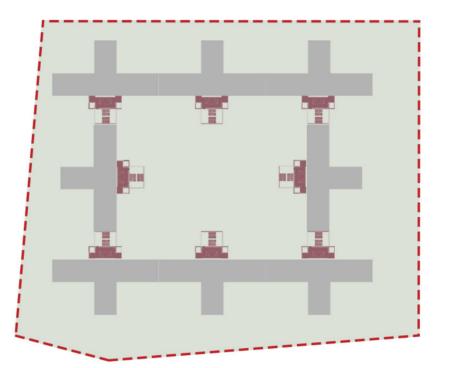


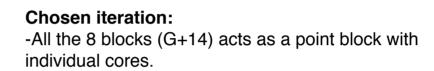
Initial iteration:

share 1 fire staircase.

-Corridor area per dwelling is increased which proves to be a loss situation for a developer.

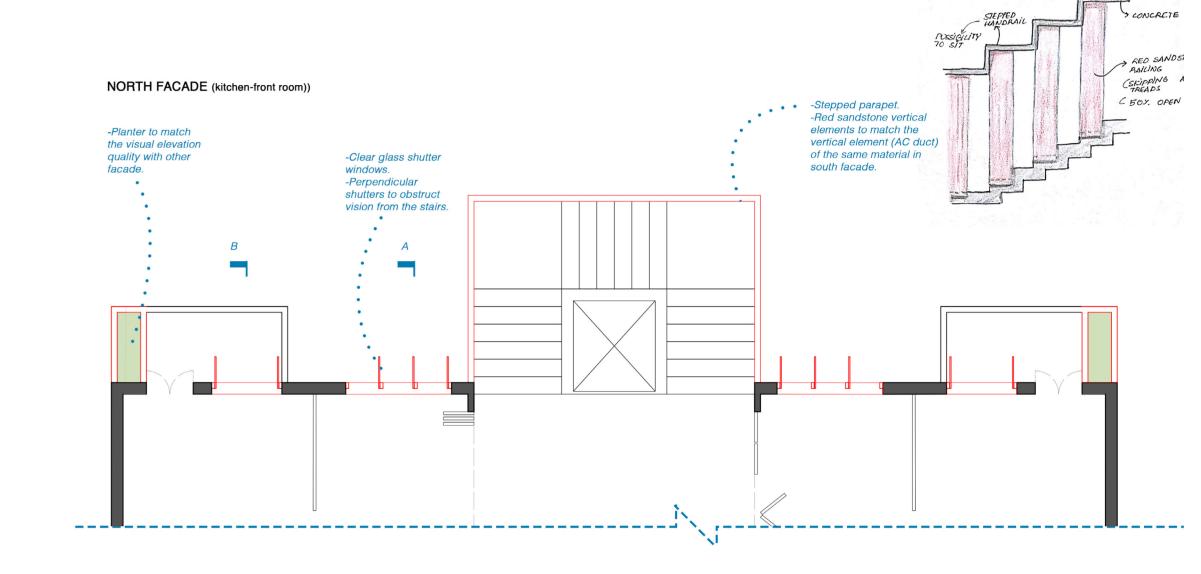
-2 blocks (G+14) share 1 lift core and 4 blocks

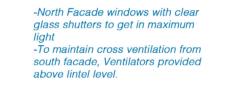


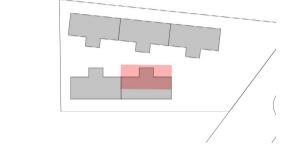


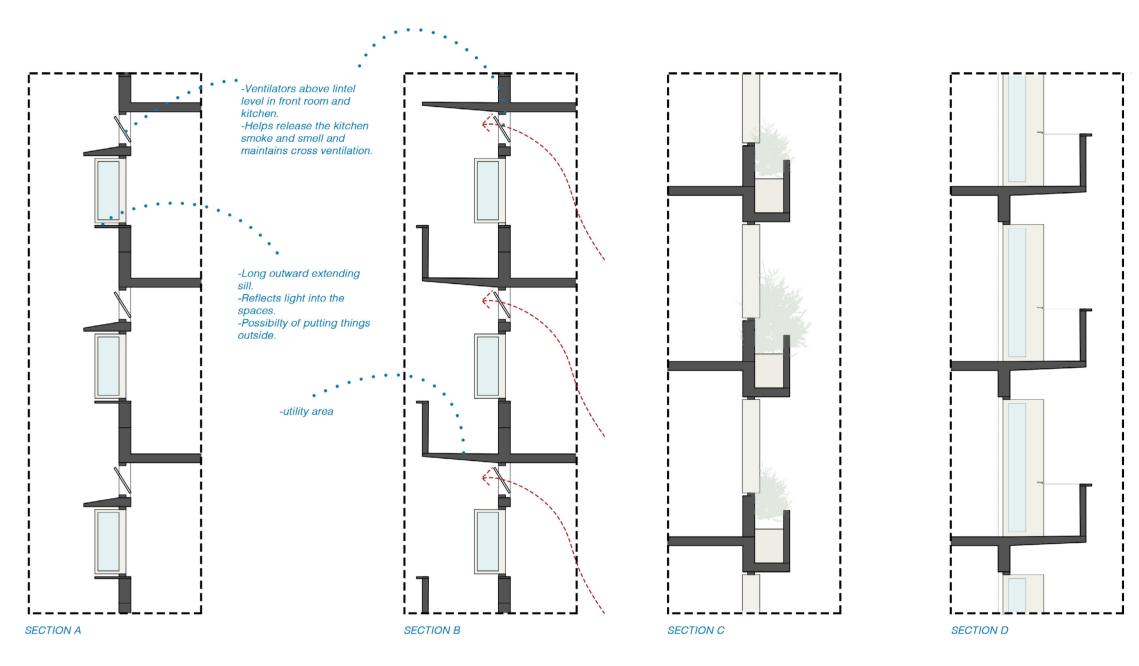
-No loss of FSI in corridors. Hence, building more cores prove to be cheaper than corridors.

-Creates a central court for large scale gatherings.

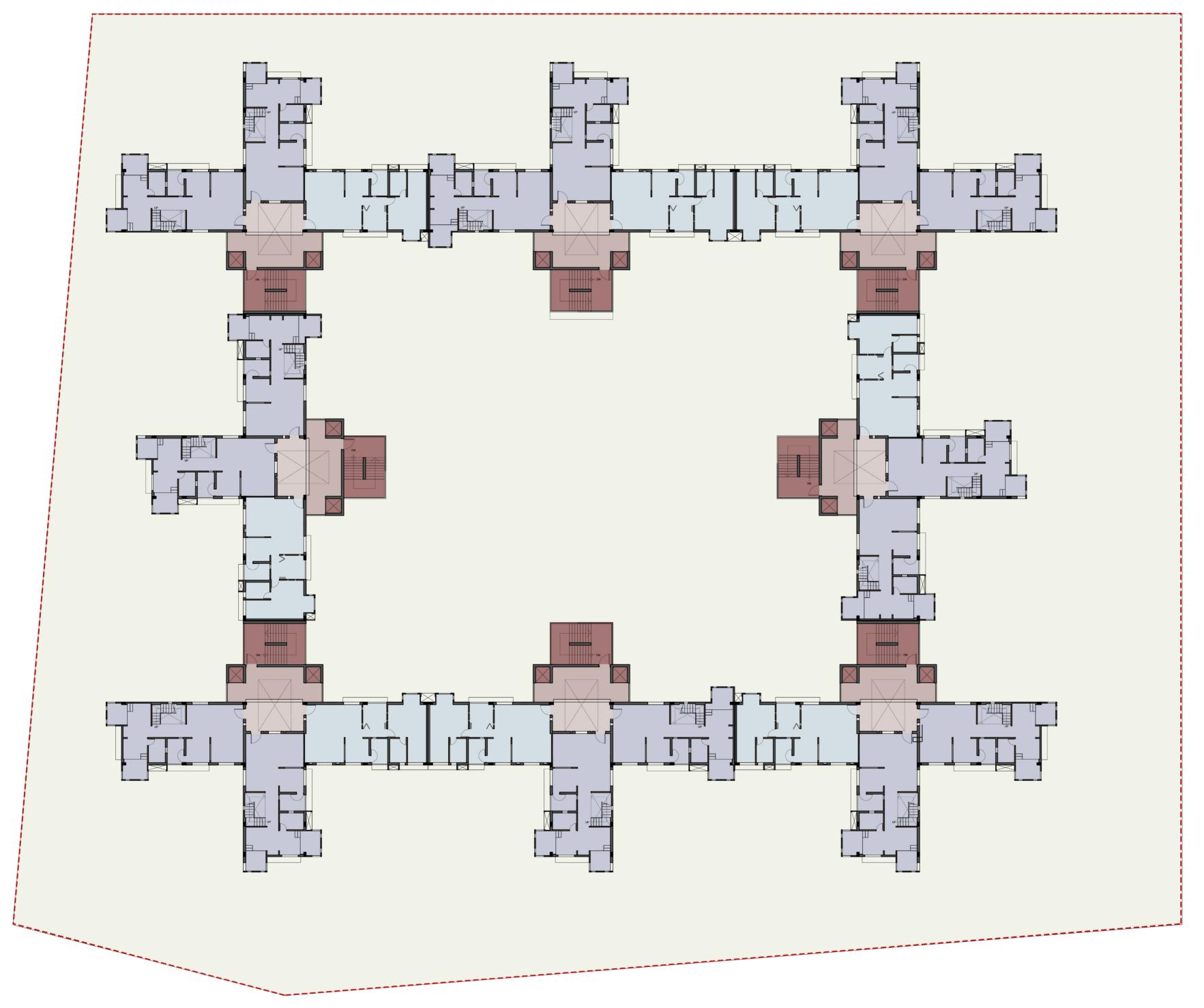






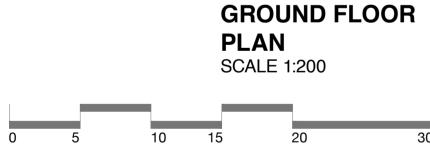






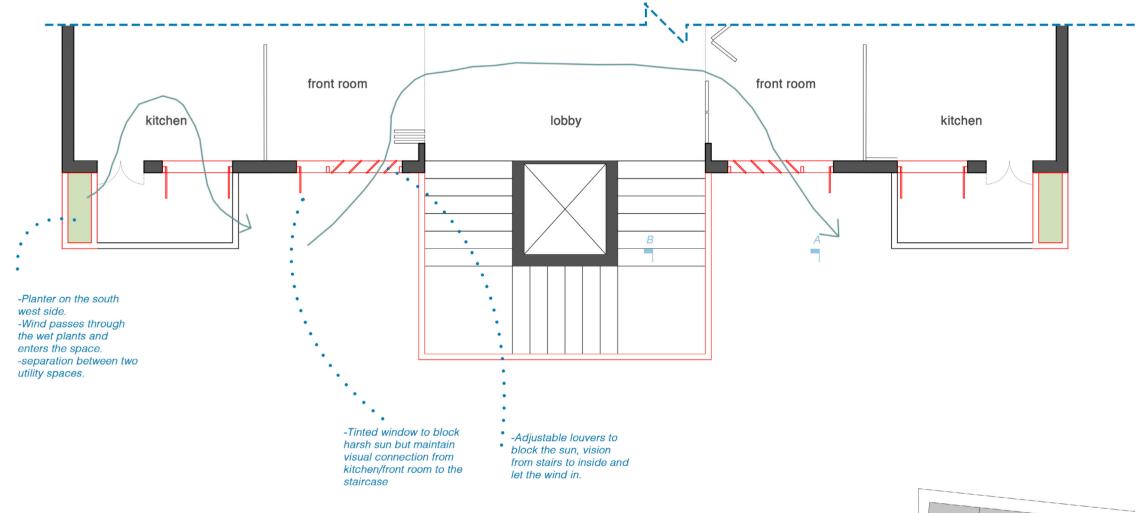


Vertical circulation

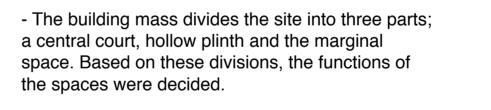




SOUTH FACADE (kitchen-front room)



SHADOWS ON THE HOTTEST DAY. (south facade)



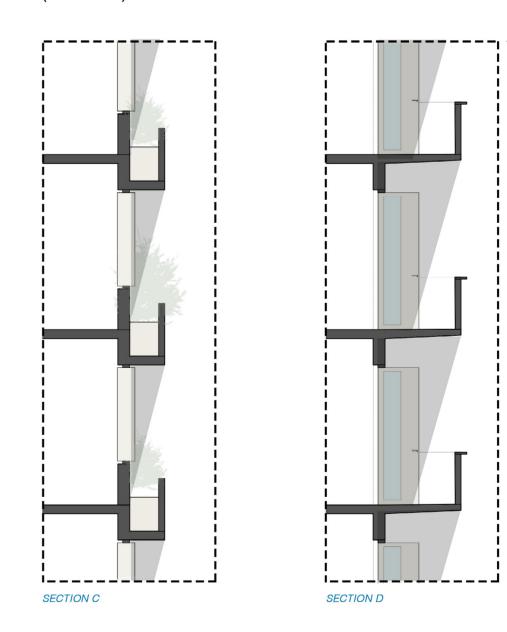
1) central court: the court acts as a large common gathering space for activities such as garba, football ground, etc.

2) hollow plinth: space under the hollow plinth is used as amenities such as gym, conference room, marriage/function space, festival/pooja space, common toilets, etc.

Marginal space: margins are further divided into a car circulation / parking space, jogging tracks and smaller gardens.

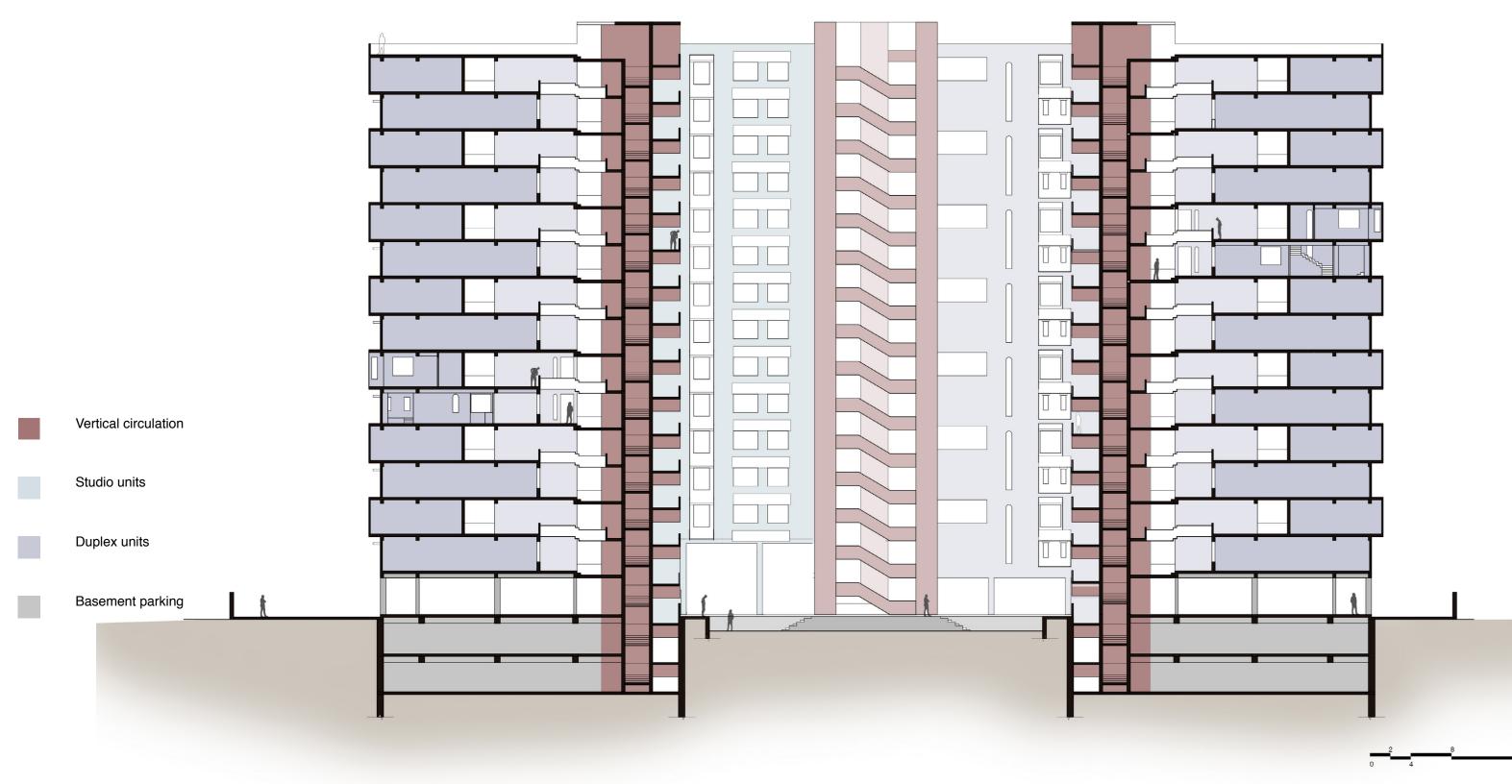
- The vehicular road (grey) and car parking on the ground is blocked off by walls, jali or amenities to reduce the noise and vision from the public spaces.

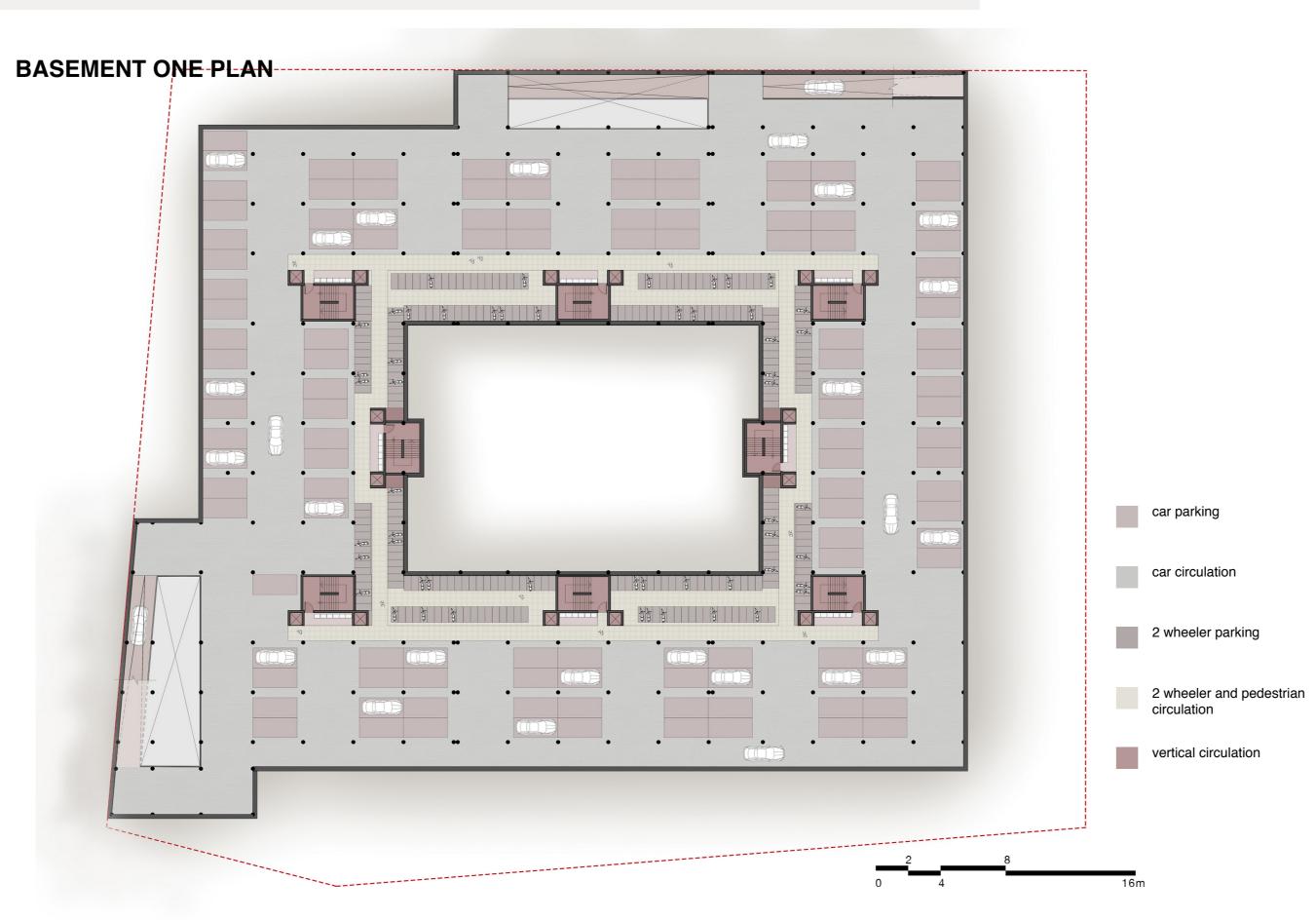
-The mass on the ground floor is tucked into the hollow plinth. This, combined with the plinth going in and out of the hollow plinth at various points decrease the nature of a conventional hollow plinth.



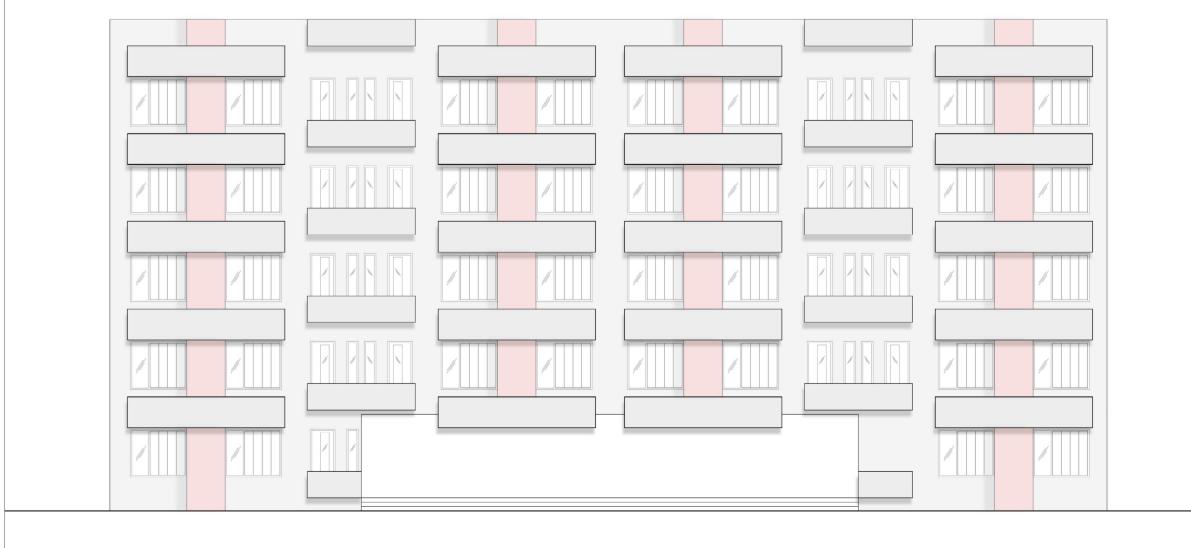
SOUTH FACADE

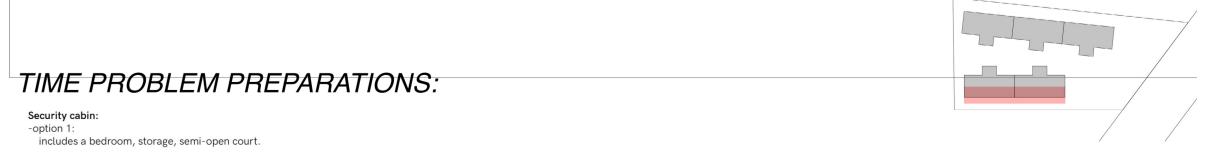
BLOCK SECTION





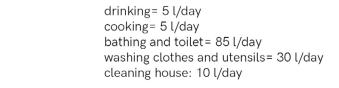
day-time guard cabin







Water requirements *per person per day*: Average= **135 l/day**;



includes a bedroom, storage, semi-open court, wash area

-option 3: Just a watch cabin with a desk and Semi open pavilion.

Security cabin: -option 1:

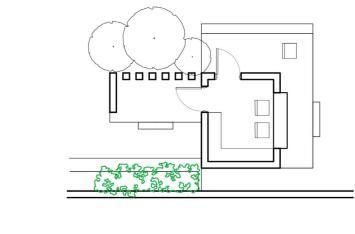
-option 2:

per house per day: 135 x 4= **540 l/day/unit**

For 100 units: 540 x 100 **= 54000 l/day** For common facilties: **50%** of residential requirements = **27,000 l/day** Under ground tank <u>Over head tank</u>

capacity: 1 days requirement (residential only)
Requirement: 54,000 l
water density: 1m³ = 1000 l
Dimensions:
volume: 54,000/ 1000 = 54 m ³
l x b x h = 4.5m x 4.5m x 2.8m

Calculations based on a housing scheme with **100 units** and a **common** garden, hall, etc :



CHIRAG MEGHANI UA2514

