ILLEGAL SETTLEMENT in CHIANG MAI

Ban Fah Mai Community

Located not to far too the south of the city centre is Ban Fah Mai community. Situated along the Mae Kha canal. The community had been settled for over 50 years but had not been recognized by the city municipal as a legal settlement. thus the inhabitats had been denied the basic nessicities such as electricity, running water and sanitation. This had cost great discontent within the community. On the other hand the city municipal argues that the community is settled on illegal land(it is not possible to own private houses along the body of water) and the inhabitants also cause severe water polution due to the lack of sewer system. The issue seems to be caused by both sides, thus the intervention proposed is to become the mediator between the two faction, creating compromise, and hopefully allows the two faction to come to an agreement.



SITE: BAN FAH MAI

Situated along Mae Kah Canal and in between See Ping Muang Road and Mahidol road. Although the community is very densely built, there are still plently of open space adjacent to the settlement. The project proposes the use of the open space situated next to the community the build housing units for the inhabitants which is facing legal issues and public commodities, such as, water electricity and sewer system.



ISSUES FROM CHIANG MAI MUNICIPAL



ILLEGAL SETTLEMENT

The community was built by the canal bank which is public property.



WATER POLLUTION

The community release sewage and waster water into the canal.



NO DEEDS

given to the over 50 years.

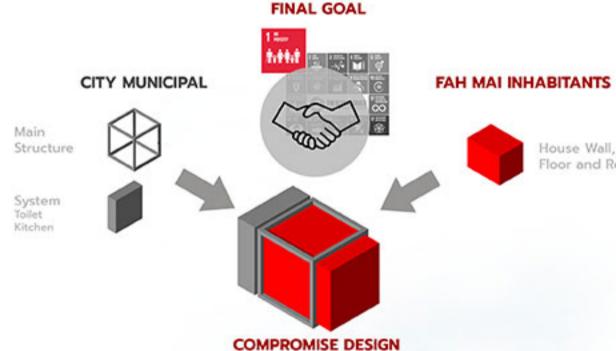


No deeds were COMMODITIES No electricity, community dispite Address, water or settleing here for sewer system.

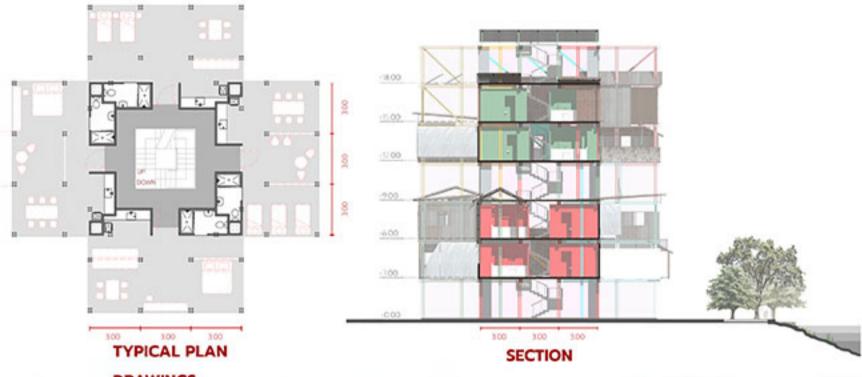


POLLUTION

Water in the canal is no longer useable.



LAYOUT The Layout aims to minimize vehicle circulation and emphasize on walkable way. In between units is the green space with pedestrian walkway conncting the pocket green in between the residential units.



The plan show the possiblilties that the inhabitants could modify and built their home with only toilet and kitchen that are fixed. The corridor in the stair case provied addiquet access to the housing units.

CONCEPT:

"THE MIDDLE MAN"

This would be the middle ground for both party in which the city municipal would provide the main structure toilet and kitchen. Then the rest of the house would be finish by the inhabitant. The compromise would be the municipal is not building the whole house but some part of it and the inhabitants would move to a near by place and only invest in some part of the house but with proper public commodities provided. And with no sewer dumbed into Mae Kah canal the water would be cleaner which is good news for both the city municipal and the inhabitants.

TYPICAL HOME DEVELOPMENT 54 Units of Typical Housing



PROPOSED HOME DEVELOPMENT 54 Units of Proposed Housing

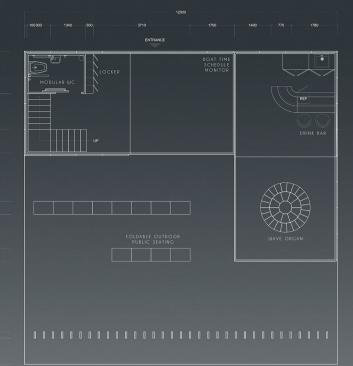


DEVELOPMENT **TYPOLOGY**

grow.

As seen in the diagram. The design adopted the vertical development instead of the typical horizontal one. Because it would less disturbe the wet land and green space in the site allowing the ecosystem in the site to continue to exist and





EZ .

STRUCTURE ASSEMBLE

As all of the structure are parts assembling together, the plan could differ in varieties, providing maximum flexibility and making both the space and function adaptable to all regions



since at least the start of the 20th century, the average global sea level has been rising, Between 1900 and 2016, the sea level rose by 16-21 cm. More precise data gathered from satellite radar measurements

SEA LEVEL RISE



It is forbidden to place a raft along the Bangkok port area that is wider or longer than **16 meters**, including those territories and the small raft that is connected to the interfaces.

It is forbidden to place a raft more than 12 meters wide along the canal











FURNITURE LAYOUT PLAN



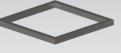


MATERIAL

SECTION







RECYCLED STEEL FRAME Roof and Wall Support; Recycled and Recyclable



SCALE 1 : 75

POLYSTYRENE Buoyancy Support Structure



RECYCLED
WATER RESISTANT
ENGINEERED
WOOD POLYMER





RECYCLED
GRADIENT GLASS

Transparent Wall



Wall; Recycled and Recyclable



N 1884 D_Old Boots



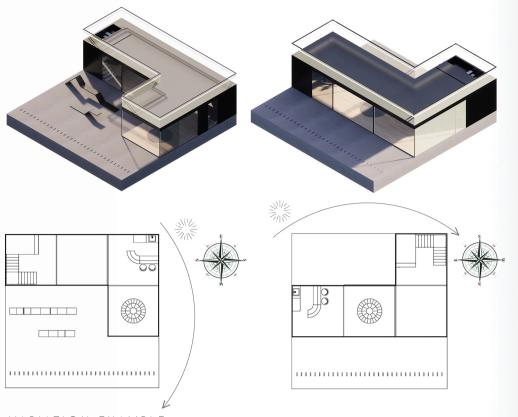






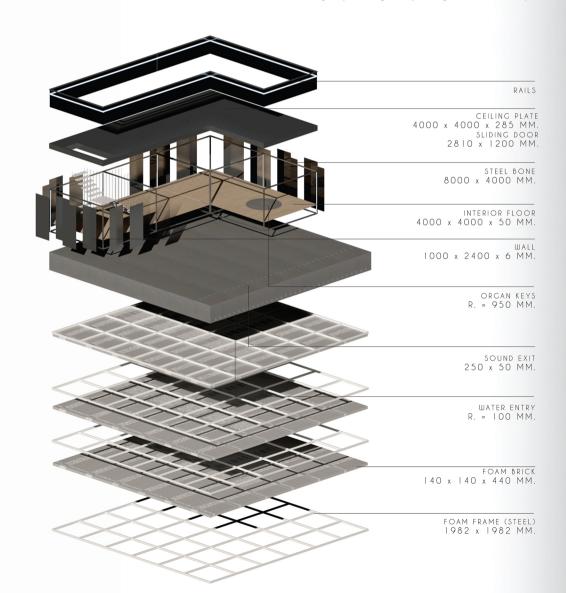


BGG 1807 D_Slate Crest



VARIATION EXAMPLE

Examples of plans and structural parts being assembled differently according to location, which means different wind and sun direction and also different function in the area during day and night, depending on the community





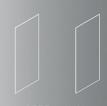
STAIRS PLATE AND STEEL SLING



CEILING PLATE WITH SLIDING DOOR FOR



CEILING PLATE



GLASS WALL



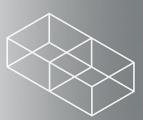
WAVE ORGAN



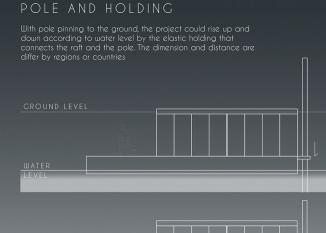
POLYSTYREN

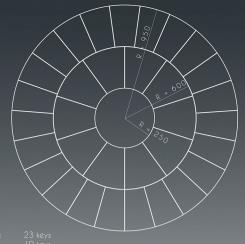


WOOD FLOOR



STEEL BONE





NEGATIVE IONS FROM DROPLETS OF WATER

Electron (-)

As we are surrounded by positive ions from electromagnetic fields generated by computers, cell phones, and other electronic devices, these could impair our brain function and suppress immune system. Negative ions are needed to balance our health.

The force or energy of water splitting into droplets causes the neutral particles in air to split which frees electrons to attach to other air molecules resulting negative ions, which would statically attract to airborne particles like dust, mold spores, and other floating pollutants and potential allergens and make them grounded and fall to the floor or nearest surface.





