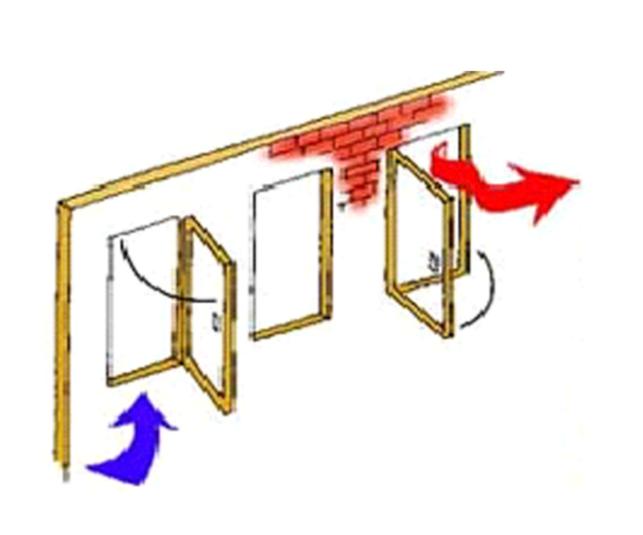
Goals

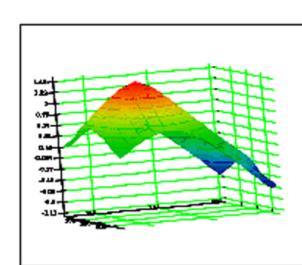
- To provide a safe and healthy community fot the workers in Cuidad Juarez, Mexico
- Provide a variety of unit types to meet the varying needs of the workers in Juarez.
- To encourage and promote a sense of community, so that the current living conditions are enhanced.
- To provide a housing solution that is affordable for the workers, while still increasing their standard of living
- Create prototypes that could be applied to other third world sites.

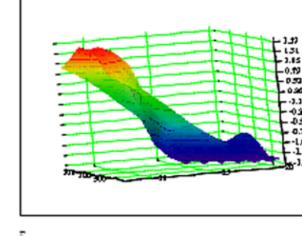
Obstacles

- One of the major obstacles was intergroup communications.
- We also had to fulfill our goals that we set forth with minimal change in the floor plans.
- We also tried to decrease the cost as much as we could.

Housing Design







Accomplishments

- Shade design specific to Juarez.
- Window design used to embrace natural ventilation.
- Void spaces researched.
- Costs analyzed and floor plans adjusted.

IPRO 339 - SHIPPING CONTAINER HOUSING JUAREZ, MEXICO





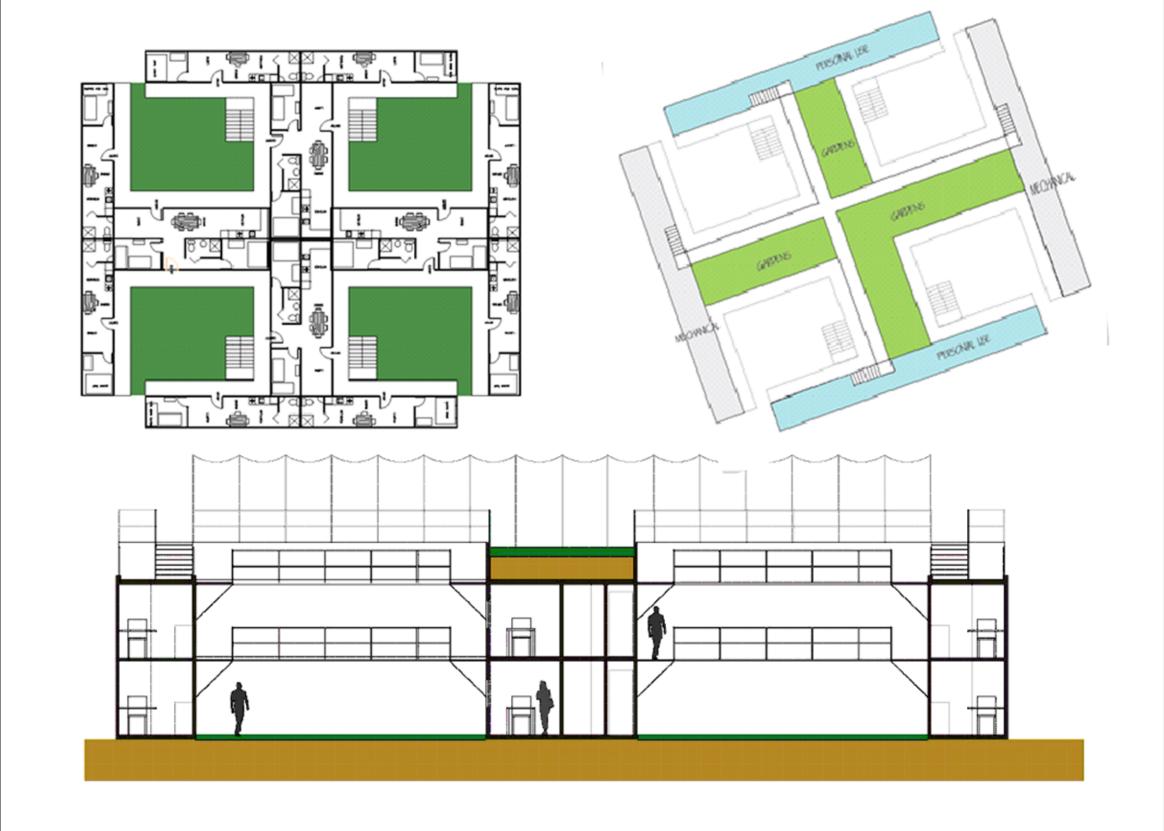




Statement of Problem:

- The demand for reasonably priced housing worldwide.
- Dealing with previous breakdowns in social housing.
- Using each housing strategy to resolve each situation.
- Adjusting the prototype to reach better solutions.

CROSS PLAN



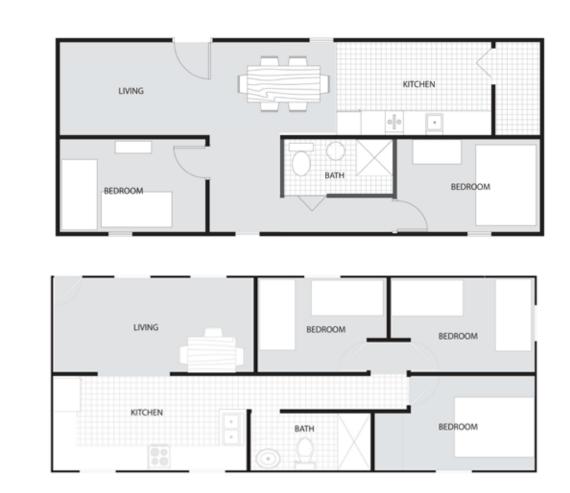
U - PLAN



SITE PLAN



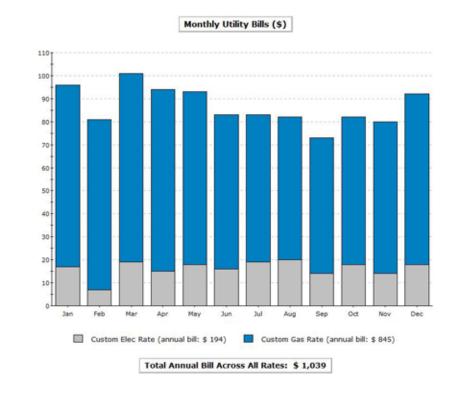
INDIVIDUAL UNITS



Energy

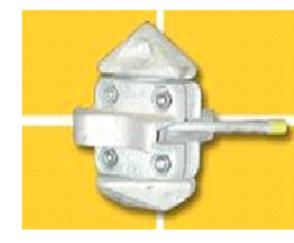
- Determined how to make an energy model using Equest software.
- Determined how to control the cost.
- Determined how to specify heating and cooling systems.
- Determined how to specify usage patterns.





Infrastructure

- RV manufacture to outfit the shipping containers with electrical and plumbing components.
- Research container / foundadtion and container / container connection requirements. Use pre-engineered "Tandem Loc" manufactured connections where applicable.



Exterior Envelope

- Match our floor plans to the required city requirements.
- Equiped each unit with smoke detectors, fire extinguishers and evacuation plans.
- Spray (foam) insulation in order to reduce heat transfer.
- Reducing expenses by comparing labor and appliances costs within the US to Mexico.





