IPRO 339 Shipping Container Housing
IPRO 339/Shipping Container Housing: Goals

- Minimize the carbon footprint of the Olympic and Paralympics housing
- Design the Olympic and Paralympics housing
- Transform the Olympic housing to permanent housing.
- Incorporate electrical and plumbing equipment into the affordable housing solutions.
• Chicago is the nation's capital for "high-cost" home loans

• Record high foreclosures and still increasing

• Quality is compromised with affordability

• High repair fee for older housing
IPRO 339/Shipping Container Housing: Benefits of Building with Shipping Containers

- Available quickly
- Low structural cost - High Strength
- Self supporting beams & plywood flooring already in place lower construction time & labor
- finished product is virtually indistinguishable from conventional housing
- Saving Energy
- Recycled
IPRO 339/Shipping Container Housing: How Does it Work

1 Shipping Yard

2 Construction Site

3 Permanent Housing
IPRO 339/Shipping Container Housing: Subgroup Organization

Instructors: Blake Davis & Michael Glynn

Construction Costs/Project Financing
- Veronika Bocanova
- Marc Coullais
- Daniel Fanelli
- Christopher Spedale
- Rosa Villalpando

Container Fabrication/Construction
- Haim Eliyahu
- Ludmila Georgieva
- Jennifer Iversen
- Michael Kerrigan
- Krzyszof Olszowy
- Mladen Prisic

Land Acquisition/Zoning Permits
- Dung Luu
- Justin Miller
- Steven Siwek
- David Snyder

Marketing/Aesthetics
- Joe Peroni
- Daniel Rankin
- Ana Untiveros
- Aneta Ustupska
Michael Reese Group 1

Rosa Villalpando
Aneta Ustupska
Christopher Spedale
David Snyder
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Krzysztof Olszowy
Justin Miller
Dung Luu
Michael Kerrigan
Jennifer Iversen
Ludmila Georgieva
Daniel Fanelli
Yu Cheung
Goals

• Itemize material costs
• Estimate construction labor costs
• Estimate permitting costs
• Develop a project financing plan
• Research sources of financing, both private and federal

Accomplishments

• Created a cost analysis worksheet for the building of the Olympic and Paralympics housing
• Developed a cost worksheet
• Determined what documentation is required to receive federal and state funding.
Goals

- Do research for the permit requirements
- Solve the zoning issues
- To reach LEED certification

Accomplishments

- DOB Green-Permit Program
- Managed to design the project to obtain LEED silver level (36 points)
Goals

- Look into energy efficient and affordable windows and garage doors
- Incorporate possible solutions from RV industry

Accomplishments

- Narrowing the search down to find most appropriate windows and garage doors for our project
- Meeting RV manufacturer from Middlebury, IN to defined limitations and possible implementations of their fabrication technology
Accomplishments:
• Improved the aesthetic design of the permanent housing
• Creating a contact data base of public, governmental, and non-for profit organizations.
• Researched and created a list of potential marketing targets

Goals:
• Research and finalize a building façade
• Create a course of action to promote the project to the community, government officials, and financial institutions
Olympic Solution
IPRO 339/Shipping Container Housing: Site Analysis

2929 S. Ellis Av

- Site
- Metra lines
- Parking site
IPRO 339/Shipping Container Housing: From Temporary to Permanent

4317 – 21 S. Wells St.

Unit Conversion
• Decentralize affordable housing in order to create a better social environment and higher standard of living

• To create a sustainable housing design

• Create a distinction between cheap and affordable housing, making the containers livable
• Creating relationships with professionals in the industry

• Problems designing up to IOC’s building code and regulation standards

• Communication between teams and individual members