

IPRO 339

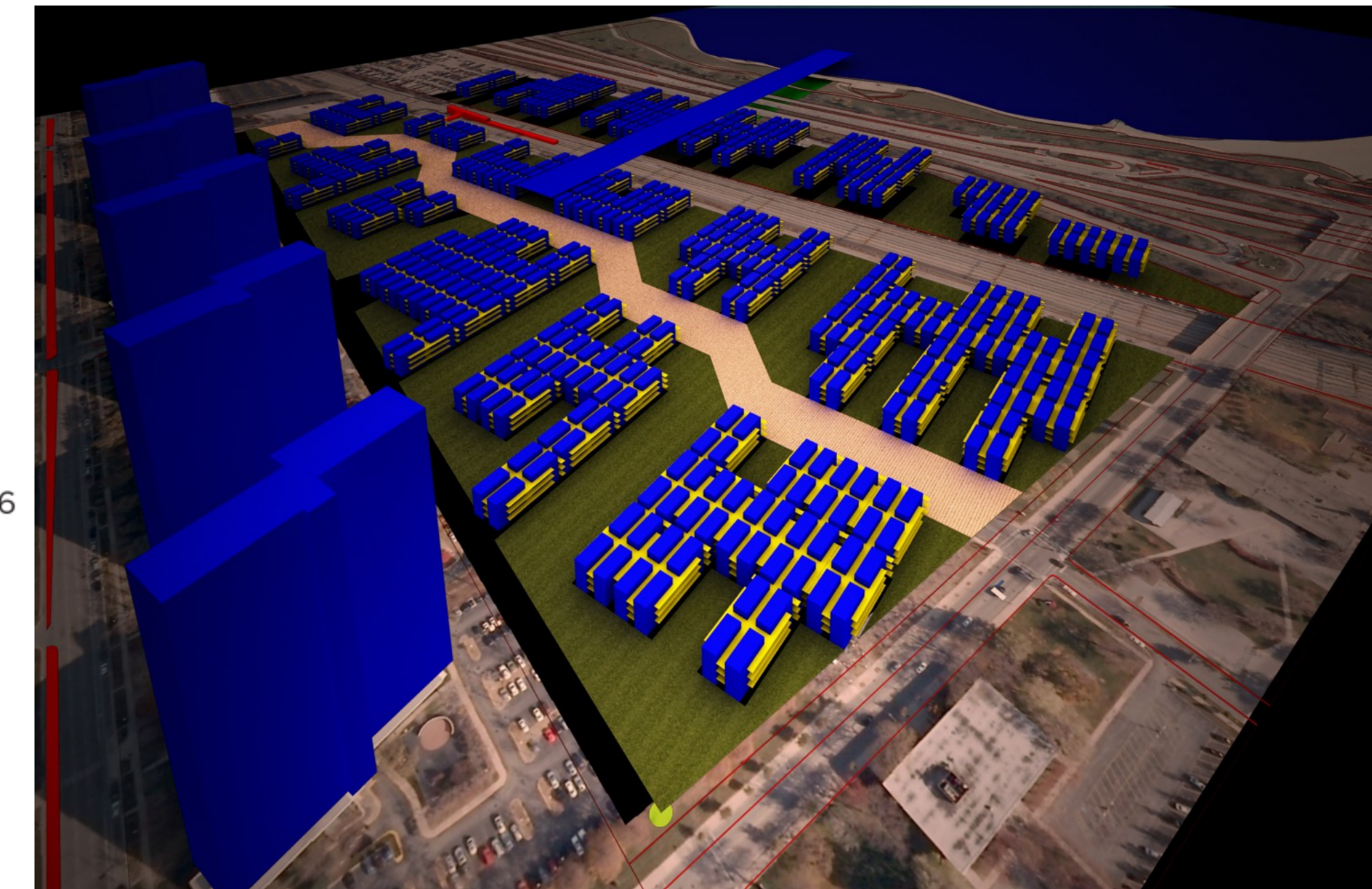
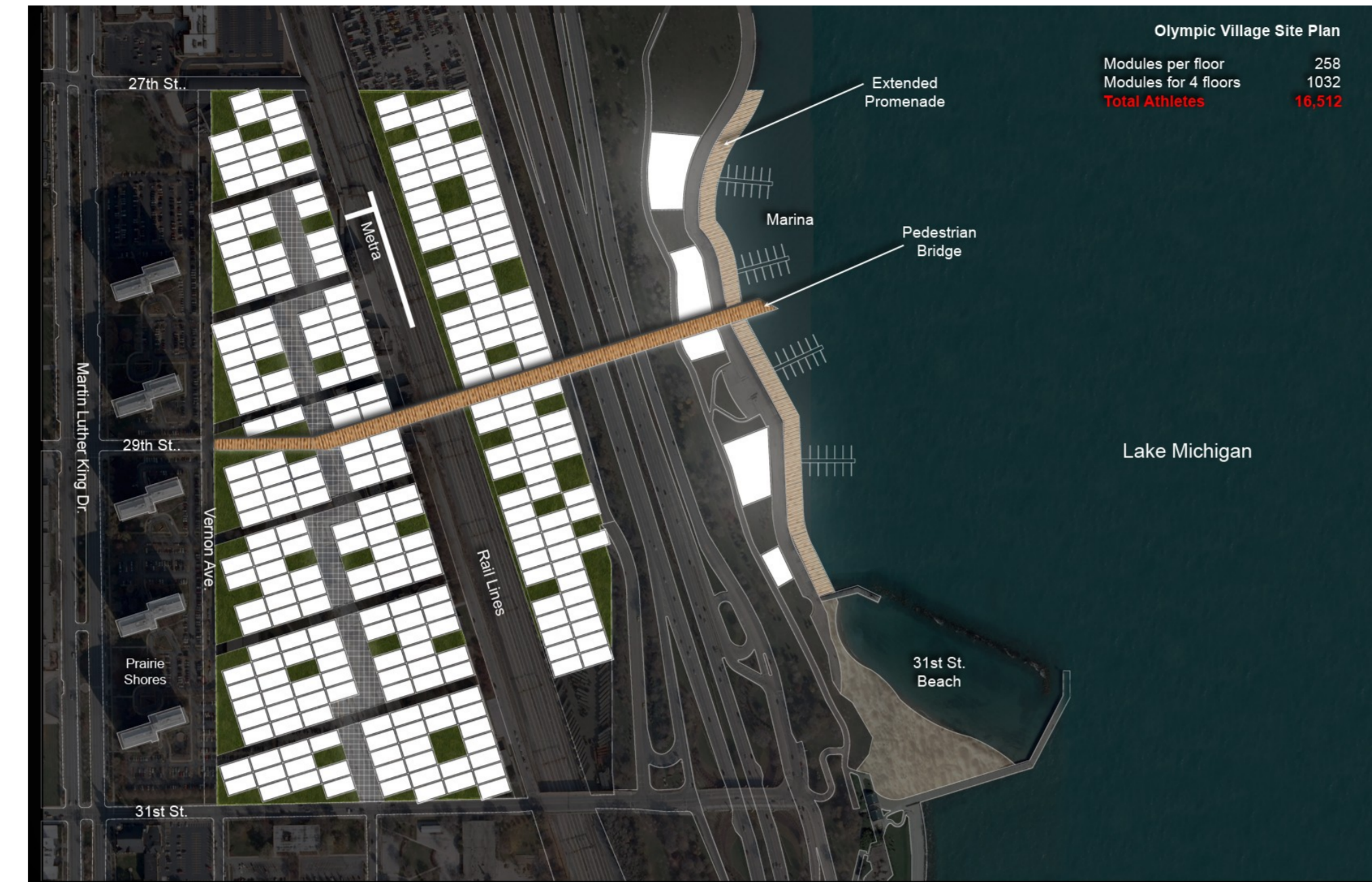
Adapting Shipping Containers to Create Affordable Housing



From shipping containers...

GOAL: convert used steel shipping containers into affordable housing.

SEMESTER OBJECTIVE: propose a design for the 2016 Olympic Village which needs to house 17,000 athletes and successfully converting the housing into affordable single family housing after the Olympics.



...to an Olympic Village...

OBSTACLES:

- The need to house 17,000 athletes in a limited space
- Transition between Olympic housing to single family housing
 - Plumbing
 - Room layout
 - Accessibility
 - Façade
- Avoid past problems of social housing (e.g. blight on the neighborhood)

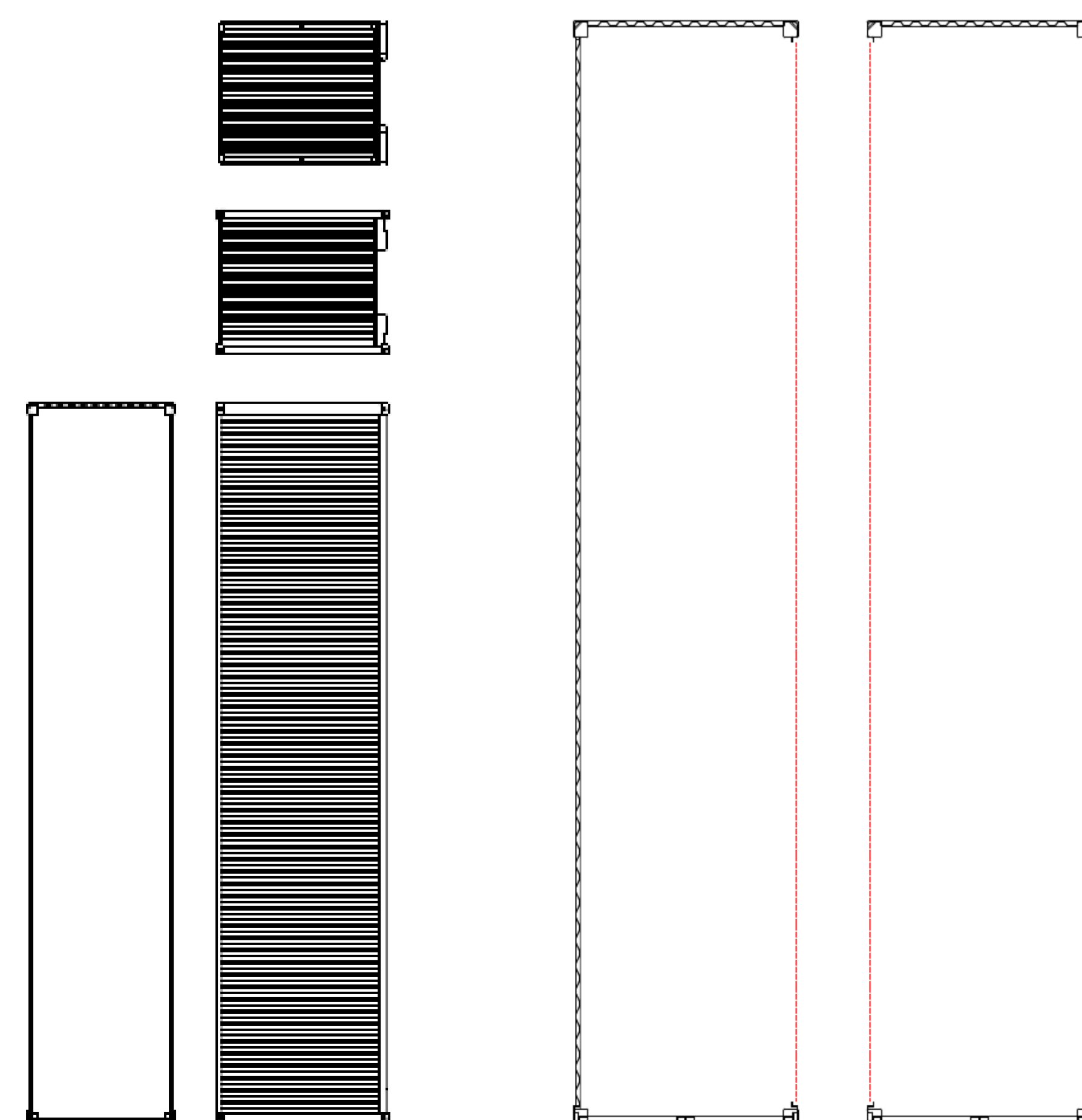
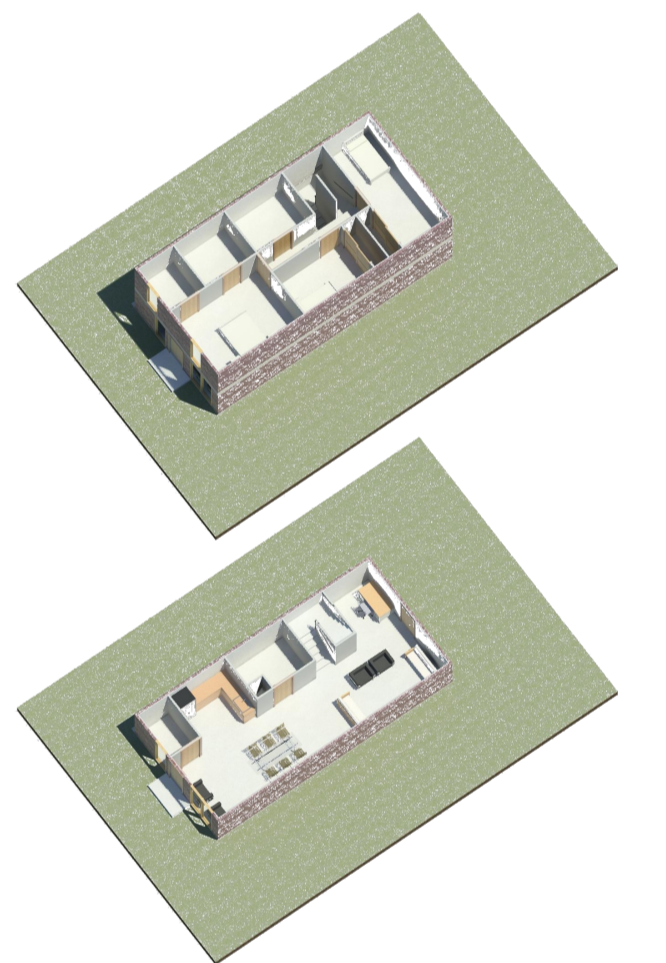
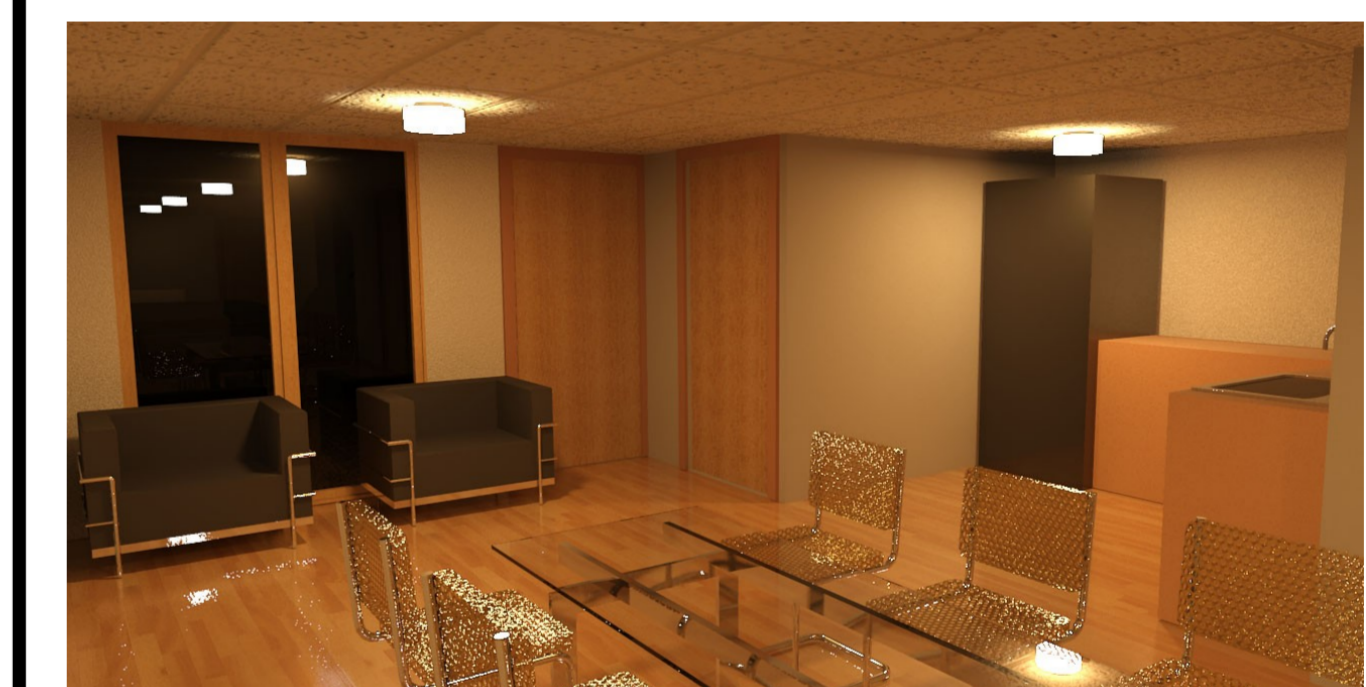


ACCOMPLISHMENTS:

- Designed a master plan of Olympic Village, using low-rise buildings, with access to the lake front.
- Improved the transition between Olympic housing and permanent affordable housing.
 - Solved plumbing issues
 - Ability to blend in on a Chicago lot

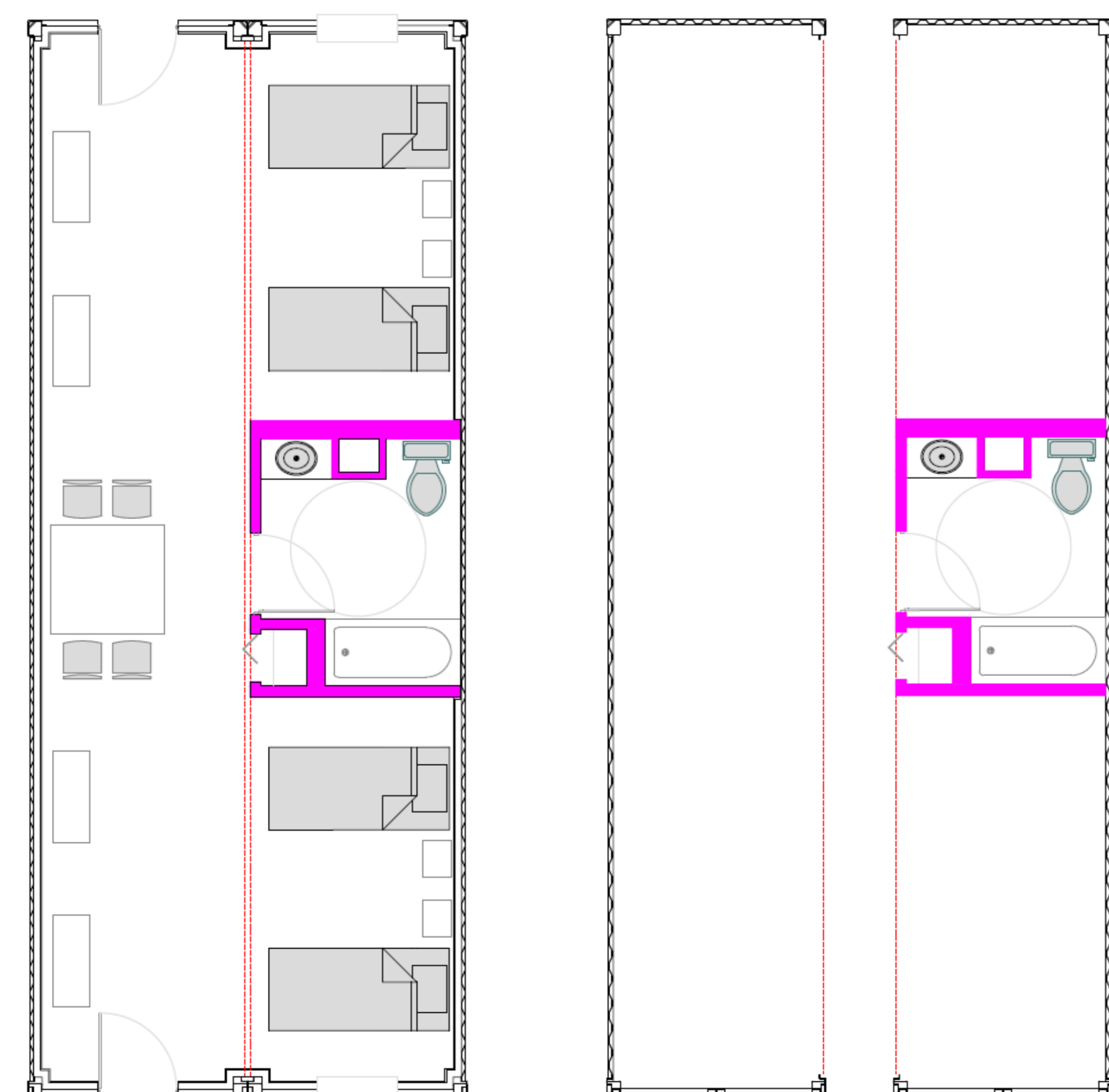


...to affordable housing.



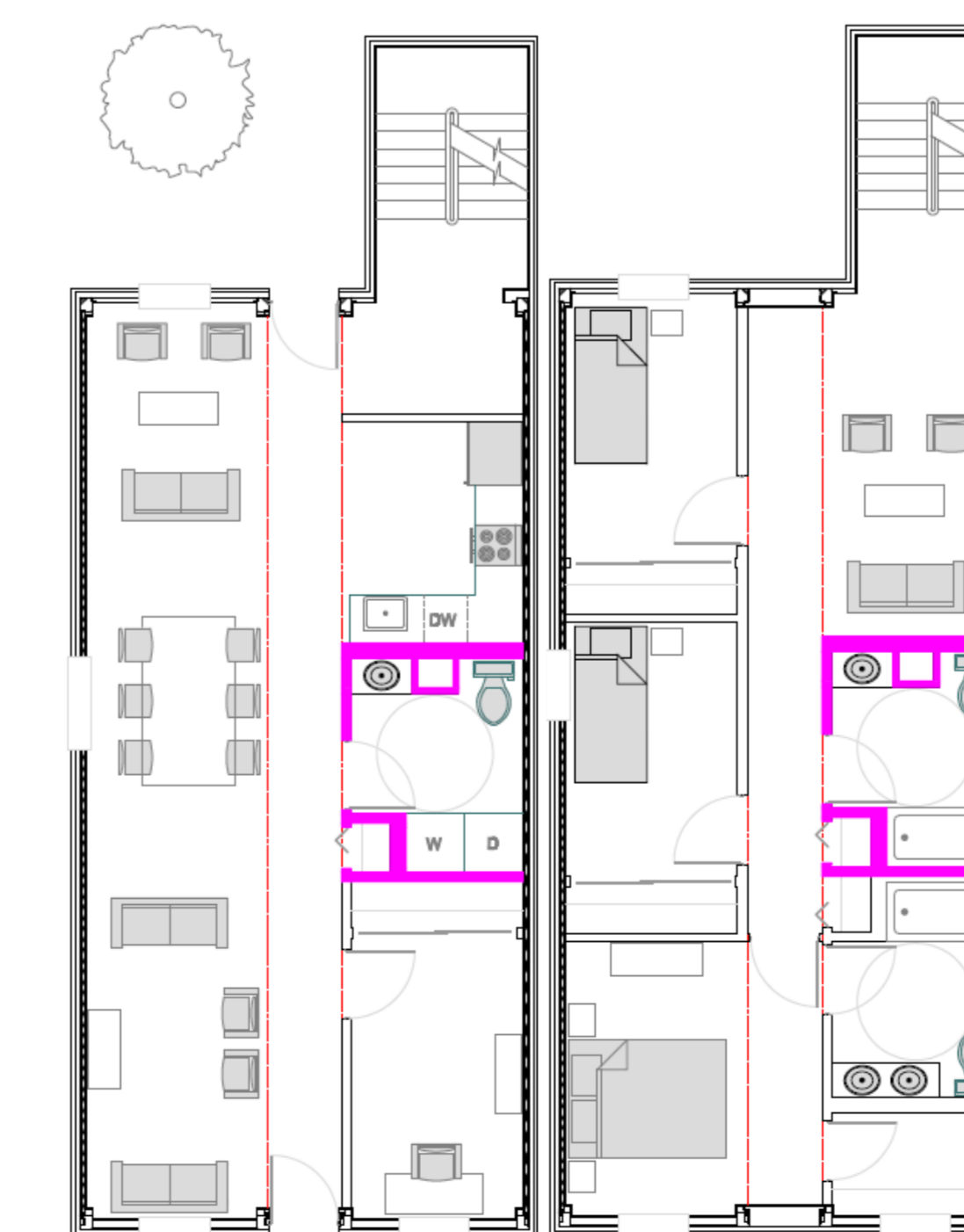
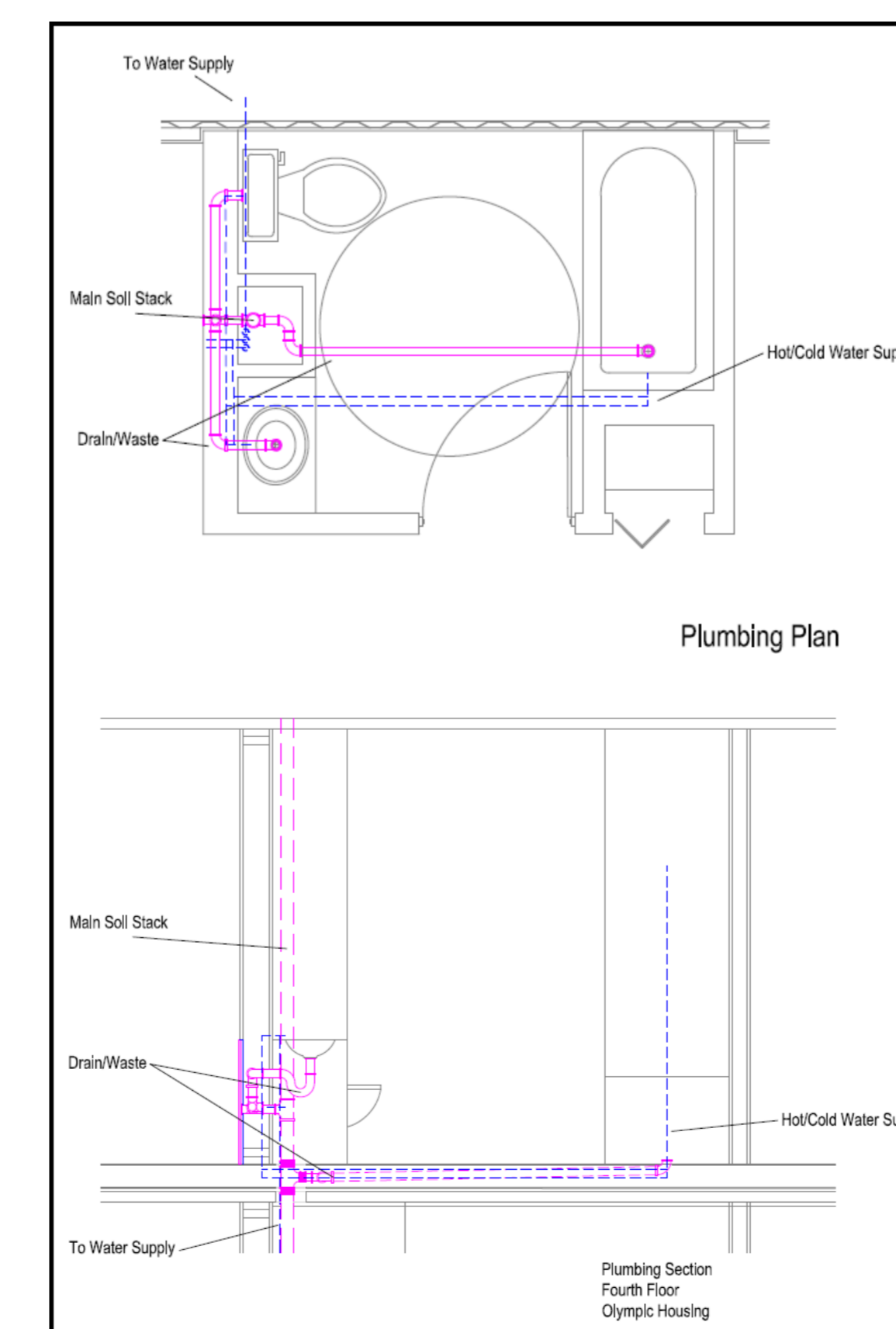
Step 1: Shipping container

Step 2: Two containers, with one wall cut out



Step 3: Olympic Unit, houses four athletes

Step 4: Disassembled for transport; bathroom remains



Step 5a: Two-story, single family home; 3 bed, 2.5 bath



Step 5b: Three-story, multi family home; 2 bed, 1 bath each