# USGBC GREEN CENTER PineyWoods Branch

It's Not A Box, It's an Office, It's a Library...It's So Much More

### A Project With A View

A demonstration home from used shipping containers



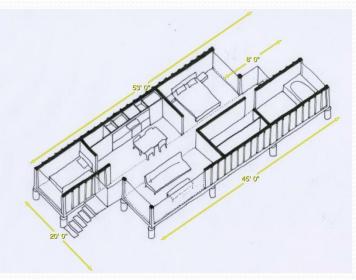




#### Used As

- USGBC office
- Demo home
- Ref library
- Education lab
- Meeting space
- Green Resource Center

# The design is simple enough

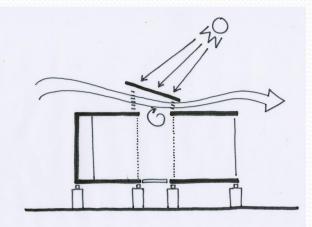


Container Type	Interior Dimensions			Average Houshold	
	L	w	н	Goods Weight Capacity	¥olume
E Container	42"	29"	25 1/2"	130 LBS	18 CFT
D Container	58"	42"	45"	450 LBS	63 CFT
LDN Container	56"	55"	57"	750 LBS	105 CFT
Lift Van	87"	45"	87"	1300 LBS	197 CFT
20' Container	19'5"	7'8"	7'6"	7,500 LBS	1165 CFT
24' Container	23'6"	7'8"	7'6"	9,000 LBS	1399 CFT
40' Container	39'6"	7'8"	7'9"	15,000 LBS	2377 CFT
40' HC Container	39'6"	7'8	8'9"	17,000 LBS	2684 CFT
45' HC Container	44'6"	7'8"	8'9"	20,000 LBS	3040 CFT

Site footprint required is 20 ft x 50 ft

796 interior square feet

The home can be permanent or moved at a later date



### It starts with a metal box.....





Alexander Mitchell, began applications in1832. Now this method is used in far reaches of the world, including undersea.

Helical piers to be used instead for minimal impact on land

Lead Section

Extension

# ....that then starts to change



Built using conventional labor and materials





# into something liveable.....



Sized for single or multifamily



# ....Utilizing Natures Resources



Solar powered Airconditioning & heat



#### Water from humidity



#### Solar heated water



Solar/electric composting toilet

### with wide open views...





Use of environmentally friendly materials

- Low VOC paints
- Marmolium laminate plank floors
- LED lighting
- Low-E double insulated glass windows
- Graywater recapture from sinks & shower

# ...that transforms into a home



- Hopper windows for fresh air ventilation
- Mini-split solar powered airconditioning/heat unit



## And becomes one with Nature



### Features

- Built from used shipping containers which then become the home itself
- Minimal footprint as the containers sit on helical piers
- Built with local labor and materials
- Adaptable to accommodate larger families
- Can be built as Net-Zero homes using solar energy
- Sturdy and weather resistant
- Affordable at a cost of \$50k+

Presented by: 3 Leaf Group – Construction Consultants for the Sustainable Environment

# Timeline

- Project Presentations
  Sept 26 30, 2011
- 2. Apply for funding grant from H-GAC- Sept 28, 2011 grant requests go out for proposal
- 3. LEED Workshop October 1, 2011
  - Design chairette to take place to determine LEED for Homes rating
- 4. Legal review of project with Texas Gulf Coast Chapter
  - October 11, 2011 review with head legal council and branch members