

Housing Kentucky Families:

new vision
new strategies

2015 Kentucky Affordable Housing Conference



Construction Innovations Part 2: Shipping Container Homes

2015 Kentucky Affordable Housing Conference

Panelists

Mary Shearer	KY Habitat for Humanity
Holly Todd	KY Habitat for Humanity
Tom Cheek	Tom Cheek Design Build
<i>Kip Lewis</i>	<i>Ohio Capital Corporation moderator</i>

Construction Innovations

Part 2: Shipping Container Homes

April 8, 2015
3:15-4:15

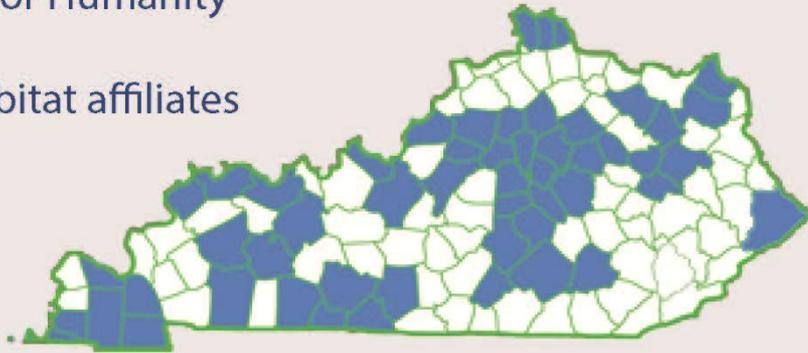
Presenters: Mary Shearer and Holly
Todd



Kentucky Habitat for Humanity

supports **51** Habitat affiliates

in **59** counties



BUILDING

simple
decent
affordable
homes

We leverage shelter as a catalyst for community transformation.

We promote policies and systems that advance access to adequate, affordable housing.

We mobilize volunteers as hearts, hands and voices for the cause of adequate, affordable housing.

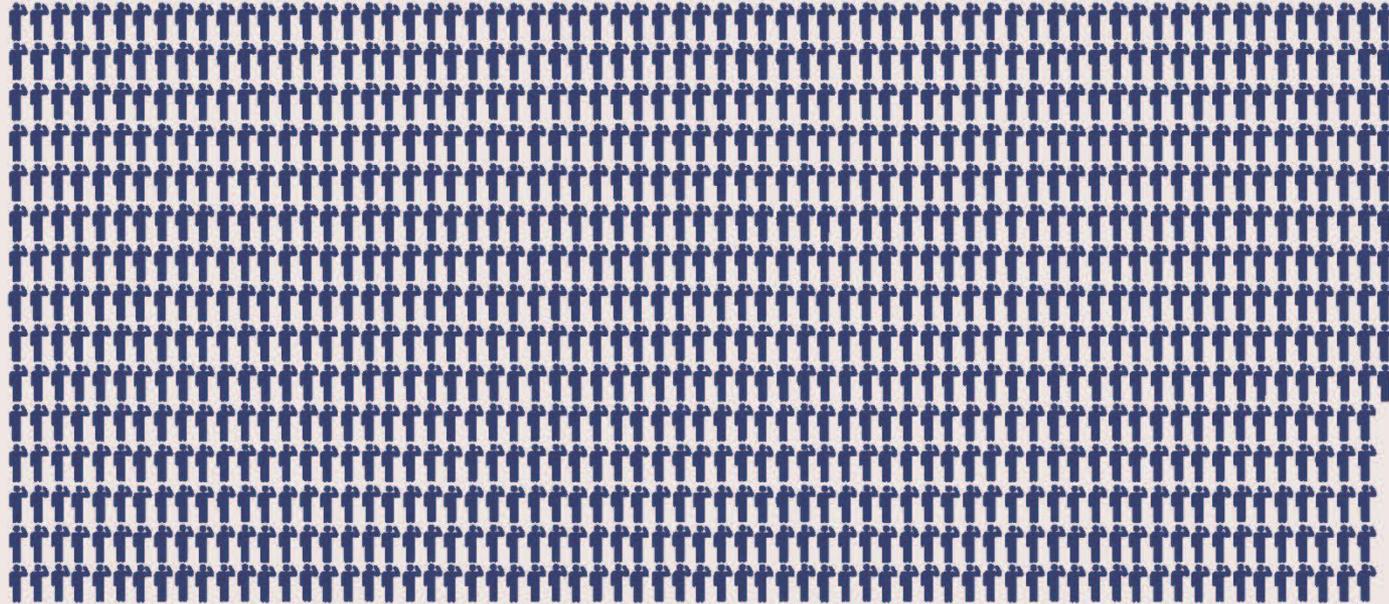
2,938 homes | 5.8 million volunteer hours | 12,000 served

**BUILD
COMMUNITY
IMPACT**

**BUILD
SECTOR
IMPACT**

**BUILD
SOCIETAL
IMPACT**

There are 1,000 homeless veterans in Kentucky



Per Heather French Henry, Commissioner of KY Dept. VA

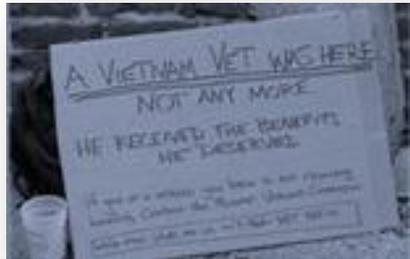
Hammers for Heroes



Our Goals



Pride of home ownership



Enabling veterans to receive their benefits



Serving those who are currently unable to be reached including special needs, seniors, fixed income and extremely low income.

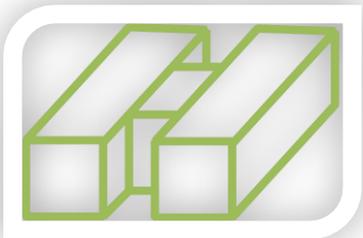
Three Paths



vet cabins



single family container homes



transitional container homes

Why 3?



Why Cabins?



Sometimes homes are **beyond repair.**



Cabins can be **quickly built on any site** with standard construction practices.



They are **cost effective and energy efficient** solutions for affordable housing.

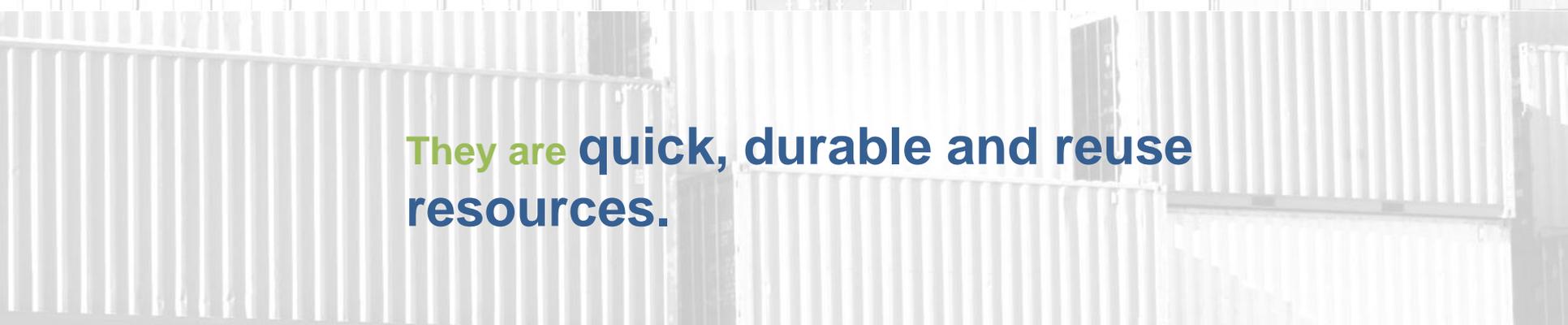
Why Containers?



Each year **700,000** cargo containers are abandoned in the U.S.



They cost significantly less than conventional homes.



They are quick, durable and reuse resources.

Why Transitional?



Sometimes a **transition period** is necessary for homeownership.



Transitional homes provide a support system of people and services.



And they are still **sustainable and durable** solutions for affordable housing.

Our Partnerships

2,938 homes built.

9.5 mil dollars invested.

10+ strategic partnerships.

- Kentucky Housing Corporation
- Federal Home Loan Bank of Cincinnati
- 51 KY HFH Affiliates
- Oak Hill Fund
- HFHI
- Home Depot Foundation
- Dept. of Housing and Urban Development (Capacity Building Section 4) HOME funds
- KY USDA
- Porter Bank, Inc.
- PNC Bank
- Fifth-Third Bank
- Stites & Harbison PLLC

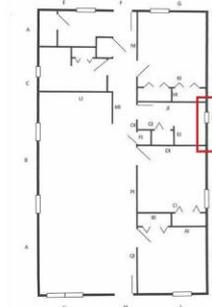


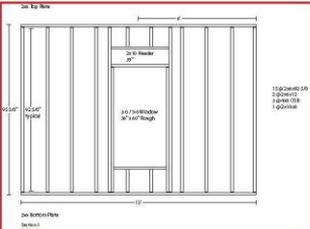

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Prison Partnership Program

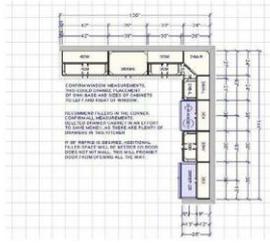
Wall Panel Systems





Price Varies: Cost of Lumber +
20% Prison Labor and Admin Fee

Cabinets



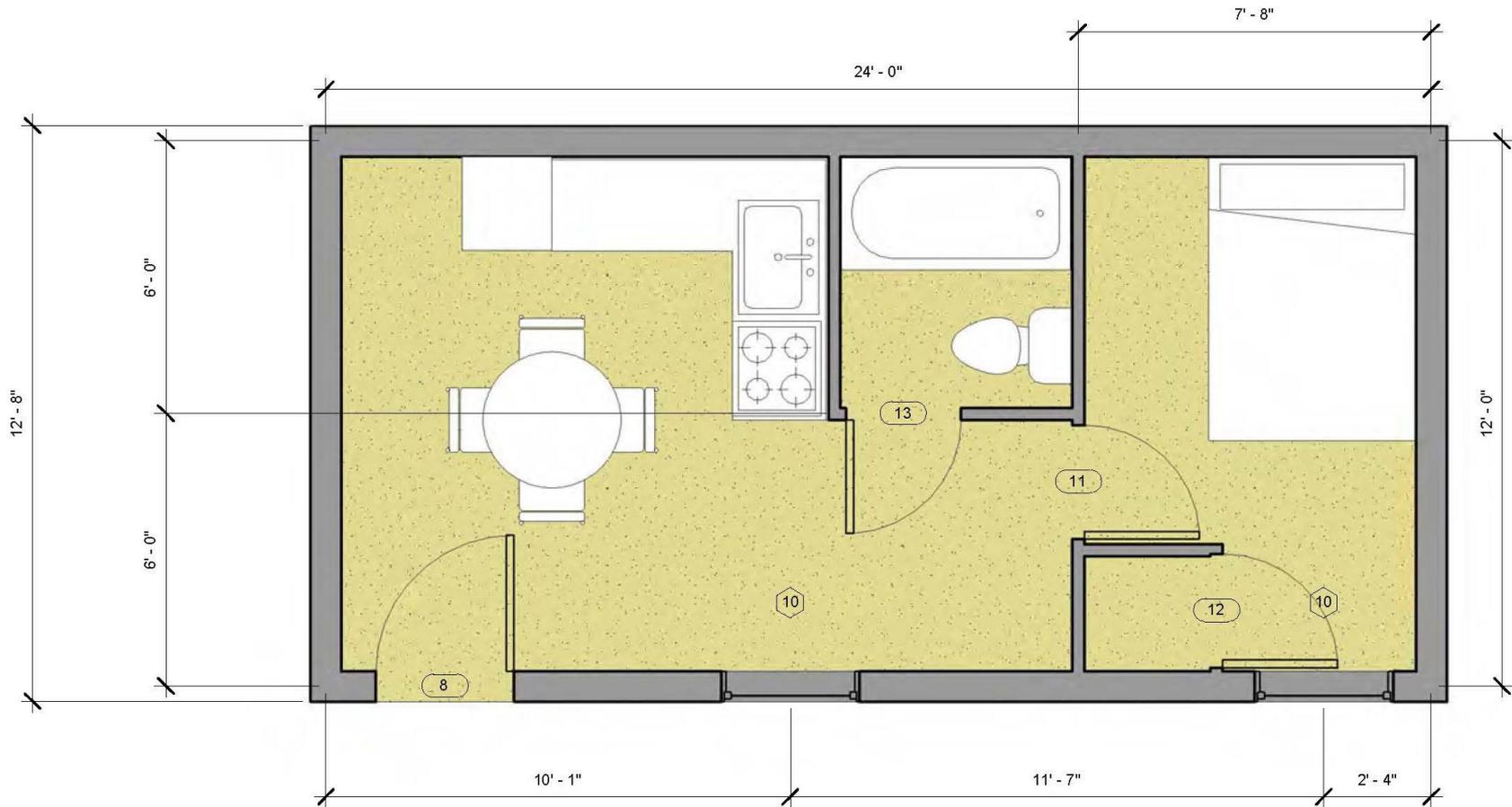


Price Varies: Cost of Lumber +
20% Prison Labor and Admin Fee
Average cost for a standard 10ft kitchen is \$900,
 compared to \$1600 - \$2000
 *Note: Oak is most expensive. Aspen is paintable/
 stainable. Pine is paintable.

Please send plans to holly@kyhfh.org.
 Typical turn around time is 2-3 weeks.

Vet Cabin

2x6 walls



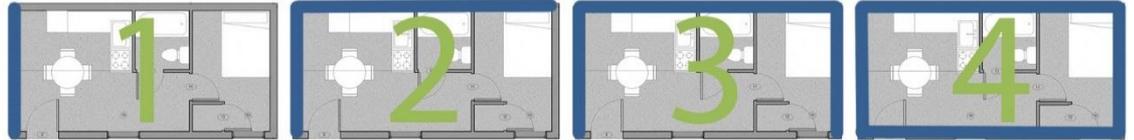
Vet Cabin



Vet Cabin



Vet Cabin

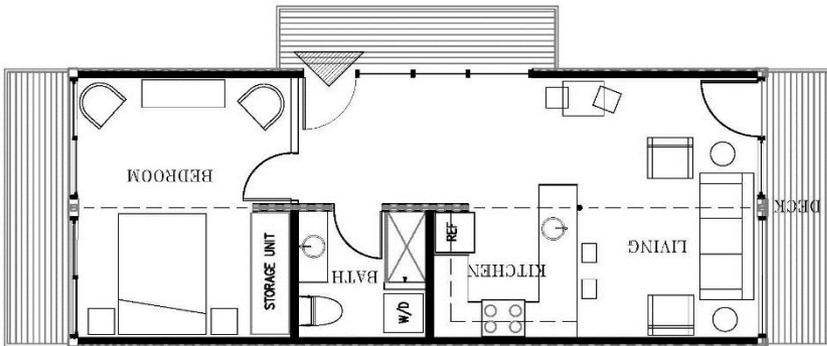
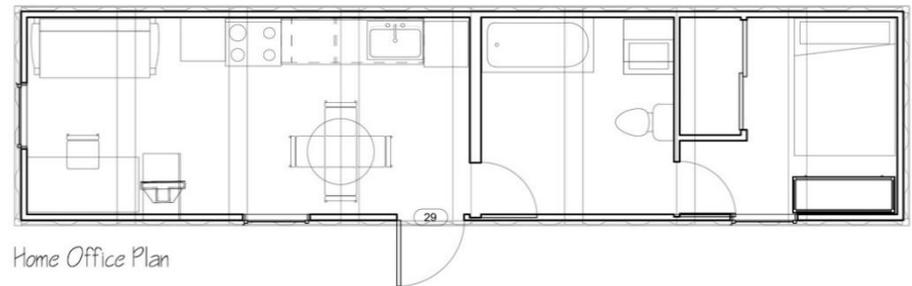
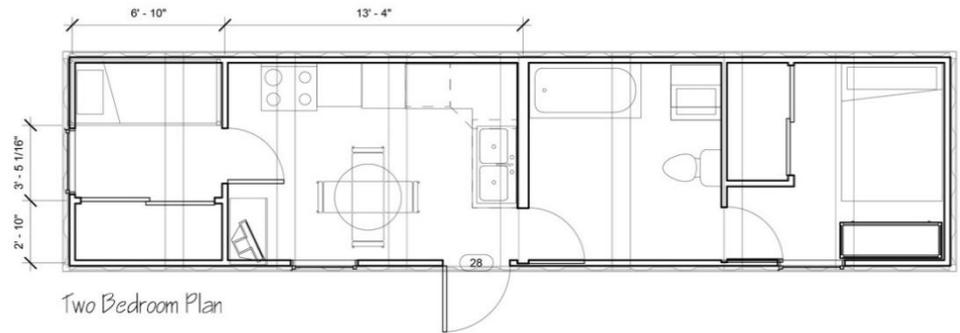
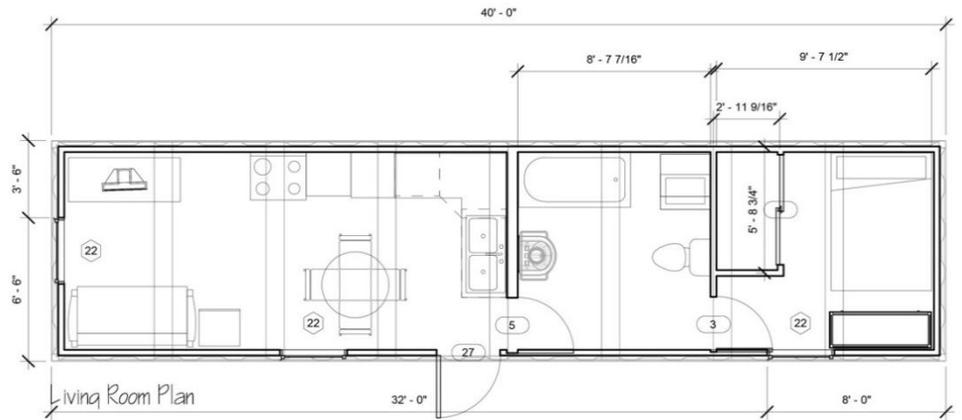


Container Home

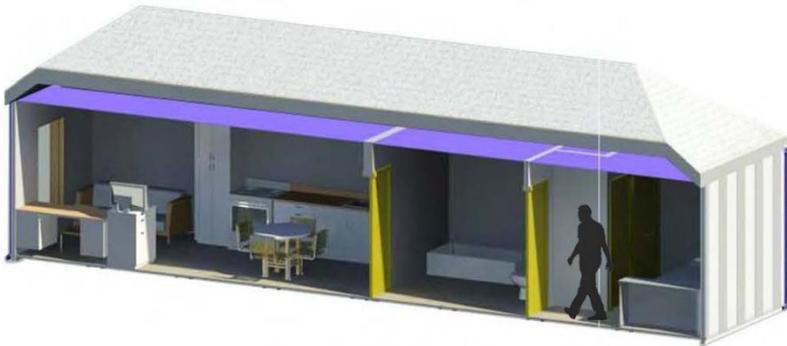
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1

single container plans

double container plan



Container Home



Container Home





Container Home



Container Home



Container Code

MODULAR HOME. An industrialized *building* system which is designed to be used as a residence which is not a manufactured or mobile home.

BUILDING. Any combination of materials, whether portable or fixed, which comprises a *structure* or non-mine underground *area* affording facilities or shelter for any human occupancy, whether infrequent or regular. The word "*building*" shall be construed wherever used herein as if followed by the words "or part or parts thereof, and all equipment therein," unless the context clearly requires a different meaning. "*Building*" shall also mean *swimming pool*s constructed below *grade on site*, but not *swimming pool*s assembled above *grade on site*. In accordance with KRS 198B.010, "*Building*" shall not mean a mobile home, *manufactured home*, farm *dwelling* or other farm *building*s and *structure*s incident to the operation and maintenance of the farm, if such farm *structure*s are located outside the boundary of a municipality and are not used in the business of retail trade or used as a place of regular employment for ten (10) or more people or *structure*s used in the storage or processing of timber products. Each portion of a *building* which is completely separated from other portions by Section 705 compliant *fire wall*s shall be considered as a separate *building* for purposes of applying this code.

PERMANENT. As applied to *building*s or *structure*s: a *building* or *structure* affixed to a foundation on a *site* and having fixed utility connections, that is intended to remain on the *site* for more than 180 consecutive calendar days as per Section 3.3.51 of NFPA 1124. *Permanent building*s or *structure*s intended to be utilized primarily for the retail sales of consumer *fireworks* shall be registered through the Division of Fire Prevention for primary *permanent* sales

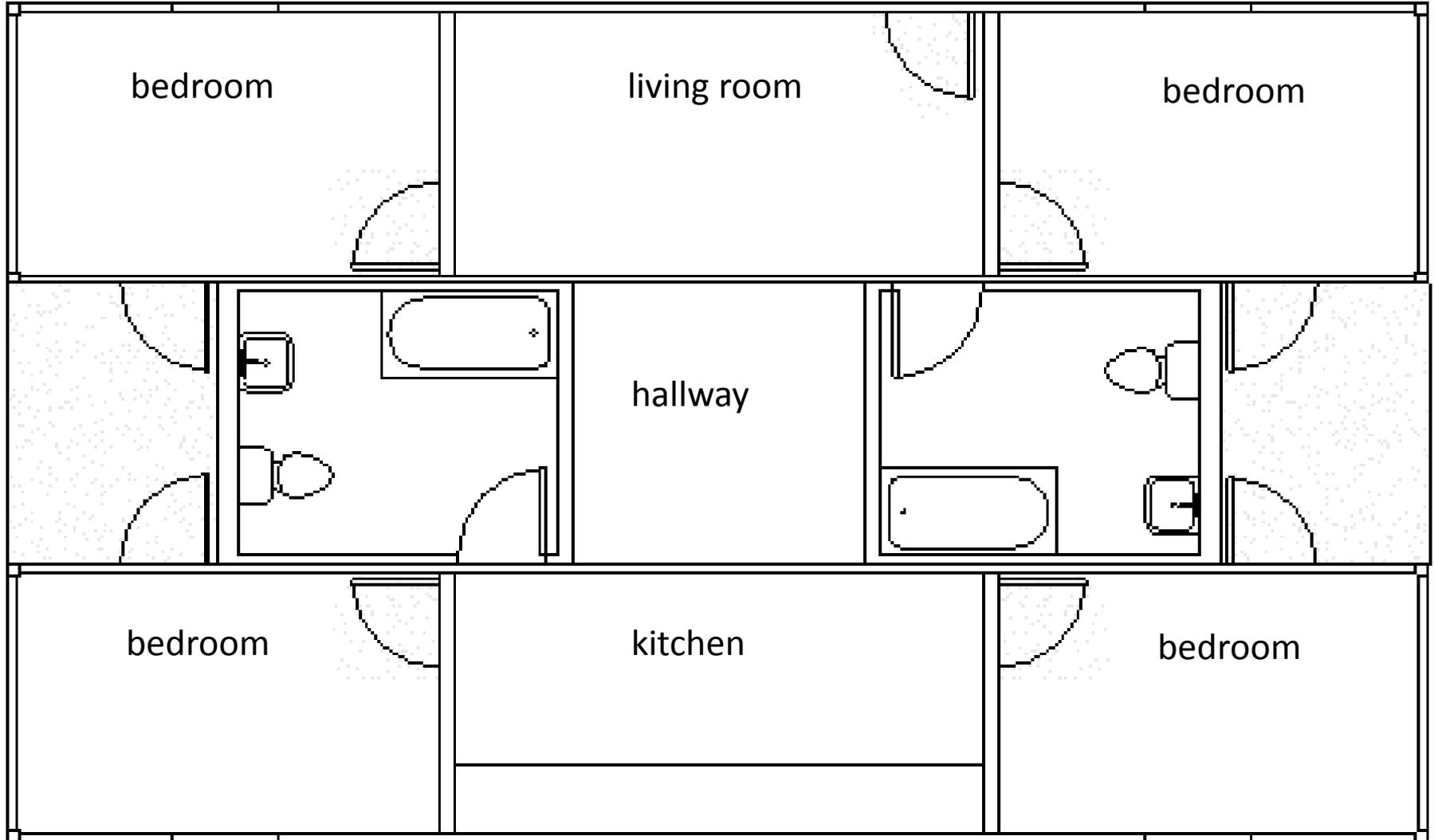
1705.2 Steel construction. The *special inspection*s for steel elements of *building*s and *structure*s shall be as required in this section. Structural steel shall be as defined in AISC 360.

Exception: *Special inspection* of the steel fabrication process shall not be required where the fabricator does not perform any welding, thermal cutting or heating operation of any kind as part of the fabrication process. In such cases, the fabricator shall be required to submit a detailed procedure for material control that demonstrates the fabricator's ability to maintain suitable records and procedures such that, at any time during the fabrication process, the material specification, and *grade* for the main stress-carrying elements are capable of being determined. Mill test reports shall be identifiable to the main stress-carrying elements when required by the *approved construction documents*.

SECTION 2901 GENERAL

2901.1 Kentucky State Plumbing Code. The provisions of this chapter and the Kentucky State Plumbing Code shall govern the erection, installation, *alteration*, *repairs*, relocation, replacement, *addition* to, use or maintenance of plumbing equipment and systems. Plumbing systems and equipment shall be constructed, installed and maintained in accordance with the Kentucky State Plumbing code, including all fees and licensing requirements. Private Sewage disposal systems shall conform to 902 KAR 10:081 and 10:085.

Transitional Containers



Transitional Containers



Our Mission



GLOBAL GOALS AND OBJECTIVES FOR 2014-18

Seeking to put God's love into action by addressing urgent housing needs in our communities, nations and world, Habitat for Humanity will be a partner and catalyst to:

Help 1 million people improve their shelter situation.

Build Community Impact

IMPROVE HOUSING CONDITIONS.

- Serve families through sustainable construction and housing support services.
- Leverage shelter as a catalyst for community transformation.
- Grow capacity to serve the most vulnerable, the disaster-affected and the urbanizing world.

Create housing opportunities for 1 million people through market development and 2 million people through advocacy efforts.

Build Sector Impact

PARTNER TO INCREASE SHELTER ACCESS.

- Support market approaches that increase products, services and financing for affordable housing.
- Promote policies and systems that advance access to adequate, affordable housing.

Build Societal Impact

INSPIRE ACTION TO END POVERTY HOUSING.

- Serve as a leading voice in growing awareness of housing as a critical foundation for breaking the cycle of poverty.
- Mobilize volunteers as hearts, hands and voices for the cause of adequate, affordable housing.

Mobilize 2 million people to join the cause of affordable shelter.

Build a Sustainable Organization

MOBILIZE RESOURCES AND STEWARD THEM FAITHFULLY.

• Fund the mission.

• Grow skills and leadership capabilities.

• Operate with excellence.

Questions?



Contact Information

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