



Classic Competition



Chapman Residence

Chapman Residence



Participant information

Enercept, Inc.

Charlie Ewalt-Roberta Bartel-Neal Mack

3100 9th Avenue SE

Watertown, SD 57201

Phone: 605-882-2222

Email Address: enercept@enercept.com

Website: www.enercept.com

Category: Single Family Homes (under 3,000 sq ft.)

High Performance: No

Project information

Chapman Residence, In-build

Edmond, OK 73003

Date Completed: 2017

Dimensions of building (all floors of multi-story building):

23' x 46' main level and 2nd level

18' x 18' 3rd level

25' x 31' Garage apartment

Total sq. ft. of conditioned space:

2,400 sqft

Plus 25' x 31' garage apartment

Built By (if different than applicant)

TL Construction of Oklahoma LLC

Dan or Tony Leddy

P,O, Box 1537

Edmond, OK 73034

Panels Manufactured By: Enercept, Inc.



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Designed By (if different than applicant - SIPA will only recognize members)

Matthew K. McLarty, CNU-A

matthewkmclarty@gmail.com

Total sq. ft. of conditioned space:

2,400 sqft

Plus 25' x 31' garage apartment

Describe the end use of the building:

The Chapman In-Build is a primary residence for Dr. David Chapman and his wife Julie. They also rent the apartment above the garage, short term, to people visiting Edmond through AirBnB.

How did SIP construction help you get this job?

The property is located approximately 500' from a train track, so they were looking for an insulating system that would also act as a noise damper. Mr. Chapman is also very interested in sustainable city planning and building homes that are environmentally friendly. He liked the fact that there would be less waste building with the SIPs and that his home would be more energy efficient.

SIP wall thickness and core material: 6" and 8" EPS foam walls

SIP roof thickness and core material: 8" EPS foam roof

Describe the benefits of using SIPs on this project. Did SIPs help save time, labor, construction costs, or energy?

The physical design of this structure lends itself well to SIP construction. The roof/3rd story deck worked perfectly with SIPs because of the superior strength of the panels.

Describe any innovative design elements or structural engineering involved:

The home's tall narrow design and red brick exterior helps the modern appearance of the home to blend in well with Edmond's historic downtown.

Describe the HVAC system used on the project:

The home is heated and cooled with a 4-ton electric conventional forced air furnace/air conditioner. A fresh air return was also installed. Ceiling fans were installed in every room.

Any additional comments on the project:

The walkways were made with locally harvested crushed granite that allows rain water to drain naturally into the ground rather than running off through city drainage system. Rain containers have been purchased and will be installed to capture and reuse rain water. The home was featured in an article published in September 2017 in the Edmond Outlook. The article titled "Urban Aspiration" is about downtown revitalization and urban sustainability. Dr. Chapman has been lecturing and studying New Urban-ism for several years and said it was "time to close the gap between his walk and talk" and move from their suburban home into the urban area. (<http://www.outlookoklahoma.com/archives/m.blog/27/urban-aspiration>)

Photo view description

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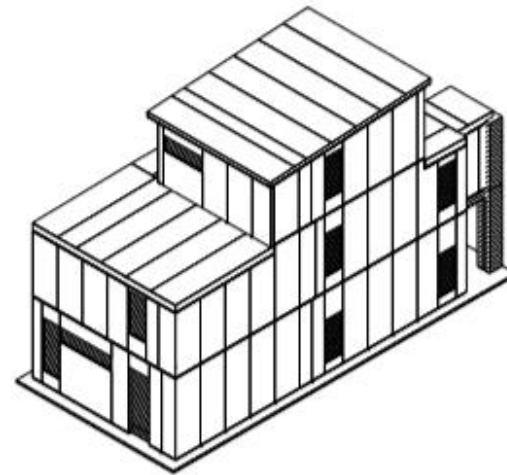
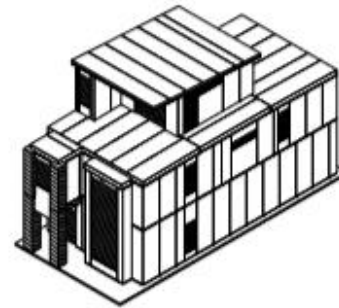
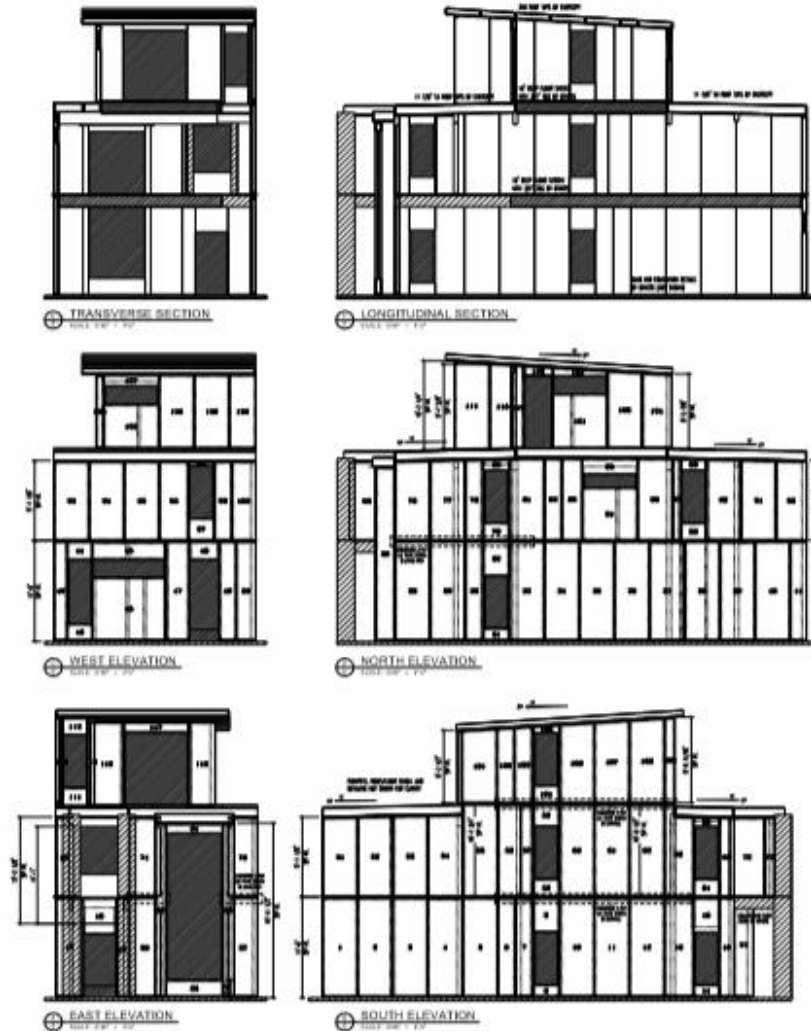
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CHAPMAN RESIDENCE
 ARCHITECTURAL ELEVATIONS & 3-D VIEWS

DATE: 01-11-2010
 PROJECT NUMBER: 1001
 SHEET: 3 OF 3