



**RAM JACK**

# CASE STUDY

PA201701

## Nine-story Condo Secured

Ram Jack Provides Stabilization to  
Walnut Street Condo Building.

**276**

HELICAL  
PILES  
INSTALLED!

### INSTALLATION OVERVIEW

Get more info on the ins-and-outs of Ram Jack products used.

### ENGINEER RESOURCES

Find the back page of this case study for more information on engineer resources.

**RAM JACK TRI STATES**

[www.ramjacktri.com](http://www.ramjacktri.com) | 800-852-1588  
Newtown Square, Pennsylvania

Rendering by  
**Cecil Baker+Partners**



## Nine-story Condo Foundation Supported

Philadelphia, Pennsylvania

Larsen Landis, a structural engineering firm in Philadelphia, Pennsylvania, ran into problems with the nine-story condo building, housing nine condos, on Walnut Street. Soil boring determined the presence of fill material. Ram Jack Tri-States was contacted to provide helical piles.

### PROBLEM

The Walnut Street project is a nine-story condo building originally designed with concrete footings and steel columns. Fill material was determined in the soil boring to a depth of 14 ft. There were column loads as high as 1.8 million pounds.

### PROPOSED SOLUTION

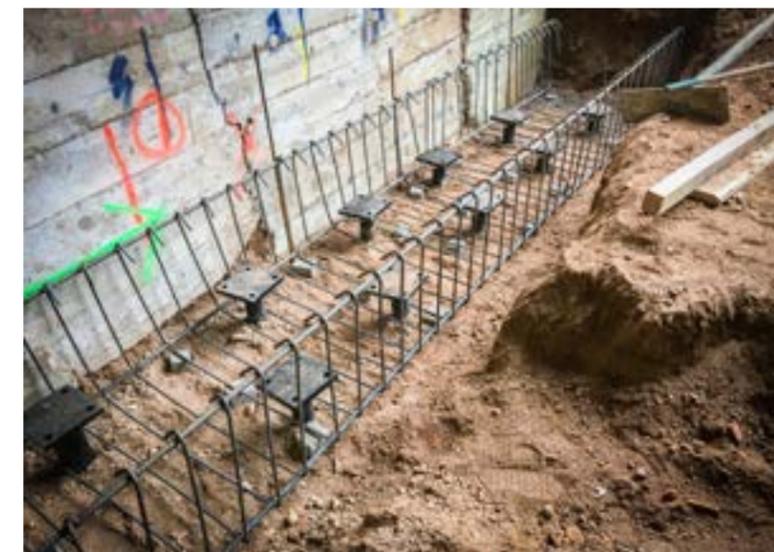
Working with the engineers, Ram Jack suggested using 276 helical piles to support

the concrete structure. Working on the building in rotation with other trades, the plan was for Ram Jack to drive 5 1/2 in. and 3 1/2 in. helicals beneath the existing structure.



### OUTCOME

Over the course of four months, during seven mobilizations, Ram Jack worked with other site contractors to install pile caps and grade beams to the all-concrete structure. After site contractors removed the rear wall of the existing structure and underpinned the existing stone walls, Ram Jack was able to drive helical piles beneath the existing building. Engineers relied on Ram Jack's ability to custom-design installation plans as well as custom-manufacture steel piles.



### INSTALLATION OVERVIEW

#### Commercial Installation

Ram Jack Tri States

#### Products Used

5 1/2" Helical Piles

3 1/2" Helical Piles

#### Product Type

New Construction - Helical

#### Typical Applications

Ram Jack's helical lead sections can be used in either tension or compression



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# Custom Engineered Solutions Rooted in Quality.



CCMC RECOGNIZED

ISO  
9001:2015  
CERTIFIED



ICC-ES RECOGNIZED

At Ram Jack®, we are focused on providing custom-engineered solutions that meet the unique needs of our commercial clients. You can move forward with confidence knowing we maintain code compliance, providing piles and brackets that reach the highest rating among competitors' products recognized by ESR-1854. Our company has the most products recognized by the ICC and boast an ISO 9001:2015 certified manufacturing facility.

We have the facility to design and fabricate custom products—we are the one-stop solution for engineers and even offer our own in-house engineers for assistance with your project. If you need assistance with foundation designs, we also provide engineer tools and resources and our engineers can work with the project's EOR to develop a custom-designed solution.

## Everything an Engineer Needs

The Ram Jack Technical Manual provides engineers with the information that you will need to understand, design, and specify Ram Jack's helical and driven piles. It also provides information verifying compliance with current building codes and ICC-approved acceptance criteria.

Everything an engineer could ever want and need to know about Ram Jack Helicals and Driven Piles in one book. If you or your firm would be interested in a Ram Jack Technical Manual, please contact your local Ram Jack dealer by emailing [info@ramjack.com](mailto:info@ramjack.com).

**DON'T DO IT TWICE.  
DO IT RIGHT.**

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