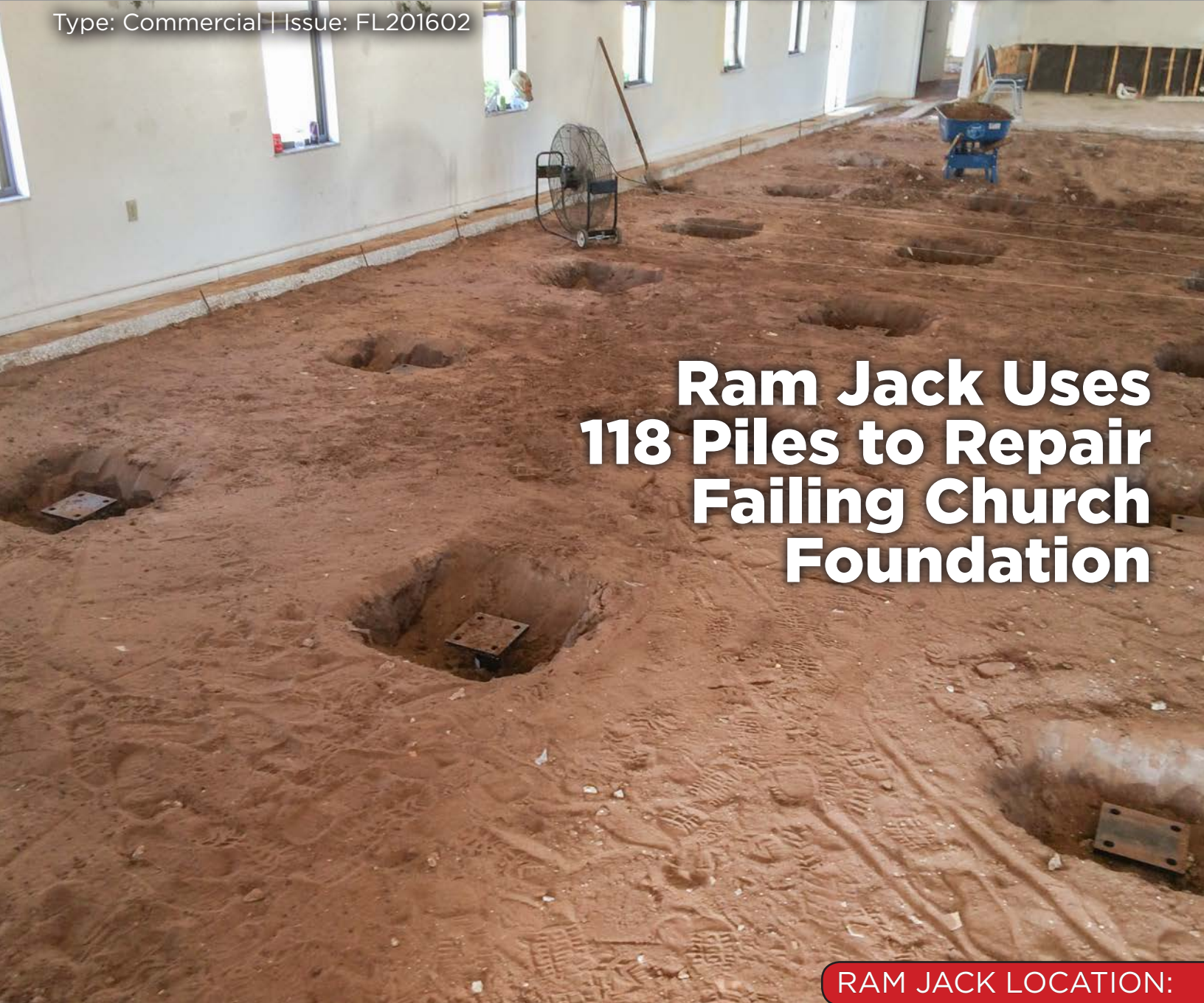




# 2016

## CASE STUDY

Type: Commercial | Issue: FL201602



**Ram Jack Uses  
118 Piles to Repair  
Failing Church  
Foundation**

RAM JACK LOCATION:

**All Florida Ram Jack**

[www.allfloridaramjack.com](http://www.allfloridaramjack.com) | 888-934-9669

Hudson, FL

### CASE STUDY 2016



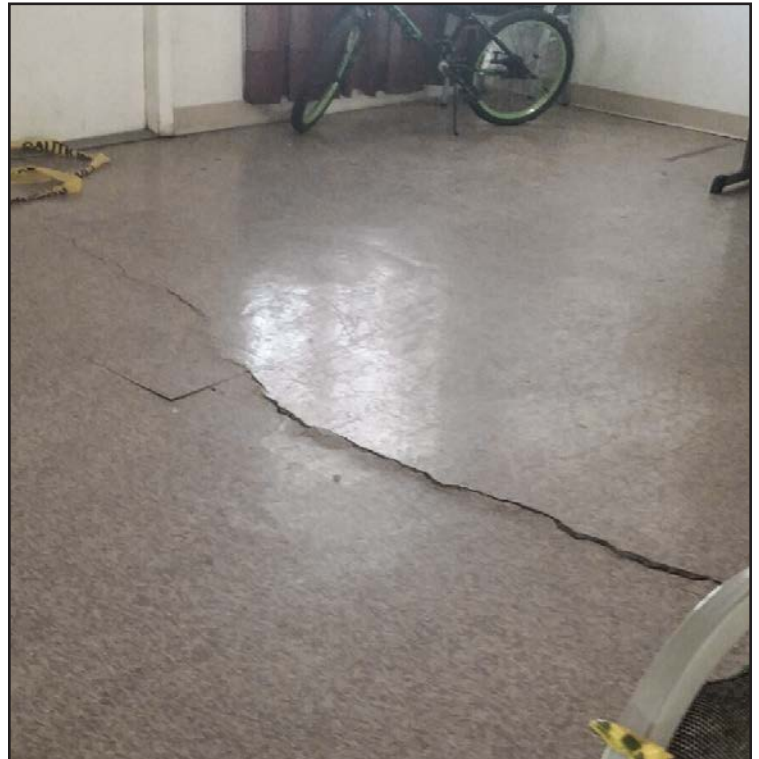
A church is so much more than a roof, floor, and four walls. It is a public servant, aid to the community, and spiritual center for growth. A proper church building needs a sound, safe structure in which to perform its various functions. When the soundness of the Mount Moriah AME Church came into question, its leaders called on All Florida Ram Jack for some help.

### SITUATION

After members and staff noticed growing cracks and areas of obvious sloping in the main church floor, Mount Moriah AME Church hired a local engineering firm to perform a formal inspection. The engineer found significant soil settlement and corresponding structural damage throughout the property, including as much as 8-12 in. of deflection of the interior floor slabs in certain areas of the building. The investigation also revealed that a Ram Jack competitor had already installed piles in an attempt to underpin the settling structure; however, they had not installed any interior piles, and their repair was failing.

### PROPOSED SOLUTION

The engineer proposed the installation of 118 interior helical piles spaced between 6-8 ft. on center to lift and support the floor slab. In addition, deep compaction grouting would be injected at 59 different points to a depth of 32 ft. below the surface, requiring 310 yd<sup>3</sup> of grout.



**Competitor Piles Fail,  
Resulting in Severe  
Structural Damage**

## INSTALLATION OVERVIEW

**Total # of Piles** • 118

**Products Used** • #4371 2 7/8" dia. Helical Pile

**Product Type** • New Construction - Helical

**Typical Applications** • Ram Jack's new construction pile (instant pile) can be used with new grade beams, footings, and pile caps. They are suitable for both residential and commercial projects.

Proven Engineered Solutions.



## OUTCOME

After removal and relocation of church pews, a sound stage, carpet, and other obstructions, All Florida Ram Jack got to work. The process began outside the structure by drilling injection points using 2.78 in. schedule 80 flush joint casing and a mud rotary wash drill rig. This took one week, and over 1,600 linear feet of casing was installed. The work then moved inside. While coring the slab for pile installation, it became evident that the concrete slab contained drastic variances in thickness. After some discussion, All Florida Ram Jack removed the slab, installed the helical piles, and placed a new 4 in. thick slab.

In the end, 118 piles were installed to an average depth of 25 ft. Meanwhile, the outside crew installed almost 350 yd<sup>3</sup> of grouting. When finished, the church was restored, and it could get back to safely doing its work of serving its members.



INTRODUCING THE ALL-NEW

# TECHNICAL MANUAL



## 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).

### Franchise Highlight

## All Florida Ram Jack

Engineers rely on Ram Jack for our proven, code compliant, engineered products and solutions. Our piles and brackets have the highest rating among competitors' products recognized by ESR-1854. Ram Jack has the most products recognized by the ICC—with products in all four applications listed in the ICC Acceptance Criteria AC358. Our ISO 9001:2008 certified manufacturing facility ensures reliable and quality products.

### LOCATIONS

HUDSON, FLORIDA

### CONTACT US

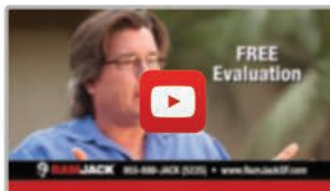
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[AllFloridaRamJack.com](http://AllFloridaRamJack.com)

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### SPECIALIZED SERVICES

- FOUNDATION REPAIR
- SINK HOLE REMEDIATION
- CONCRETE PUMPING
- SEAWALL/BULKHEAD REPAIR
- PIN PILE/HELICAL INSTALLATION
- CRAWL SPACE REPAIRS/WOOD FLOOR LEVELING

