



RAM JACK

2015 CASE STUDY

Type: Residential | Issue: TN201502

**Driven Piles Restore
Structural Integrity
to New Home Being
Constructed**



RAM JACK LOCATION:

Ram Jack Eastern Tennessee

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Knoxville, TN



SETTLEMENT DURING CONSTRUCTION

RAM JACK EASTERN TENNESSEE

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You might think that foundation settlement is only a problem with older homes. After all, it takes time for the soil under a home to move, which seemingly makes it less probable with newly constructed structures. And while shifting ground may be the most obvious culprit when it comes to foundation settlement, this doesn't mean that new buildings are unsusceptible to foundation issues, as was the case with a beautiful home in Mountain City, Tennessee. The residence had foundation settlement problems while still under construction.

Situation

During construction, this two-story mountain home began to show signs of foundation distress. Two large cracks quickly grew from the base of the footing in the basement all the way up through the

concrete masonry unit (CMU) block wall to the sill plate on the first floor. The home, which was being built into the hillside, was already settling, compromising its structural integrity. The homeowner contacted Ram Jack Eastern Tennessee to stabilize the home.

Proposed Solution

Ram Jack proposed using 10 driven piles driven along with support brackets to stabilize the cracked, rear wall. This would provide the structure with much needed support while preventing further foundation damage.

Outcome

In only one day, Ram Jack Eastern Tennessee installed (10) 2 7/8" driven piles to an average depth of 28 ft. This solution not only provided the structure with the support it needed and ensured its structural integrity, but it also allowed for continued construction with minimal delay.



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