



RAM JACK[®]

2014 CASE STUDY

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STABILITY RETURNED TO HOME BUILT ON A STEEP SLOPE

Restoring the Solid
Foundation of a
Brick Home

RAM JACK LOCATION:

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ALABAMA RAM JACK

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Foundation settlement is somewhat inevitable. Even with flawless construction and the best building materials, the ground beneath every home will shift and settle due to moisture, weather, and other factors. That's exactly what happened with this residence in Birmingham, Alabama. The beautiful brick home was solidly built; however, Father Time eventually got his way, and the foundation began to settle. The homeowners called Alabama Ram Jack for a solution.

Situation

The foundation in the rear of the home had experienced significant settlement, pulling laterally away from the home and creating gaps between the basement floor and walls. Built on a steep slope, the home's construction created unique problems. Not only had the footings pulled out, but they also pulled down due to the angle of construction. The

settling foundation created not only a cosmetic problem but also created safety concerns, as the structural stability of the home was in question.

Proposed Solution

Alabama Ram Jack proposed using a combination of 12 driven piles and 12 helical tie-back piles to provide vertical support to the foundation as well as to prevent any outward movement. Eight (8) new construction helical piles would also be replaced to support a to-be-built rear deck that would replace the deteriorated existing one.

Outcome

The professionals at Alabama Ram Jack completed the plan as proposed, lifting the foundation over 1 in. using 32 total piles installed to an average depth of 12 ft. Maximum practical recovery was achieved. Ram Jack's solution also provided an even base for the construction of a new deck and the structural strength the home needs to remain stable for years.



Driven piles and helical tie-back piles provide support



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