

Residential Foundation Repair



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Childress Residence: Sylacuga, AL



Helical Piles Driven and Terminated at 5,500 ft/lbs. of Torque

Scope of Work:

Footing Foundation Repair Due to Sinkhole

Design Engineer:

*Criterion Carlisle Engineers &
ATC Associates*

Foundation Contractor:

Alabama Foundation Specialists of Birmingham

In July of 2005 Geotechnical exploration and evaluation was performed by ATC Associates, Inc. to determine conditions related to foundation and soil failure experienced by the Childress residence.

ATC conducted four soil test borings. During test borings a large cavity beneath the ground surface was determined to be in the vicinity which is located at the right rear corner of the residential structure. From evaluation, ATC's opinion was that the damage to the Childress residence was due to the formation of dissolution cavities in the carbonate rocks (sinkhole activity).

Alabama Foundation Specialists of Birmingham was contacted by the homeowner and by a representative of Traveler's Indemnity Co. (insurance carrier) to design and estimate foun-

ation stabilization and repair. AFSB retained services of Criterion Carlisle Engineers on November 3, 2005 to evaluate and design a repair plan.

Based on the geotechnical report and construction conditions of residence, the recommendation was to install a combination of 3 1/2" 36000 series pipe helical piles with an 8" and 10" helical configuration, installed to 5,500 foot-pounds of torque in conjunction with grout and pipe injection to stabilize the sinkhole area of the house at its rear corner.

AFSB installed seven Drive Rite Piering System™ 36000 series 3 1/2" helical piles with footing brackets (#98010G) and three 3 1/2" helical piles with new construction pile caps as recommended by engineering report to repair and replace the damaged foot-



Drive Rite 98010G Footing Brackets

ing, block foundation wall, and brick veneer. Installation of helical piles ranged from 11 to 40 ft. of depth.

Recommended torque was achieved and adequate pressure was applied to the lifting brackets to stabilize the footing and to reconstruct the failed footing area for reinstallation of foundation block and brick veneer.

Headquarters

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