

## CASE HISTORY

SITE PREPARATION

»» NEW CONSTRUCTION

REMEDIAL REPAIR

HELICAL PULLDOWN® MICROPILE

ATLAS RESISTANCE® PIERS

»» HELICAL UNDERPINNING

EARTH RETENTION

RETAINING WALLS

HELICAL TIEBACK

SOIL SCREW®

PIPELINE STABILIZATION

TELECOM/SUBSTATION

UTILITY/SOLAR



CERTIFIED INSTALLER  
MASON GRADY FOUNDATIONS

GENERAL CONTRACTOR  
HALEY CONSTRUCTION

STRUCTURAL ENGINEER  
POINT DESIGN

GEOTECHNICAL ENGINEER  
GILES ENGINEERING

### PROJECT:

A new BJ's Restaurant and Brewhouse was being constructed in Pensacola, FL in an existing mall parking lot. Settlement of the asphalt was observed in the area where the restaurant was to be constructed. Upon investigation of the soils inside the building footprint, it was determined that this area of the parking lot was at one time a construction debris pit. The debris pit, which extended almost the entire length and width of the building footprint, was found to reach depths of approximately 18 feet below grade. To prevent extensive settlement of the structure's foundation, a deep foundation system was required to transfer the building loads through the debris and into more competent load bearing strata.

### SOLUTION

Helical Piles were chosen over other deep foundation systems for several reasons. No spoils would need to be removed from the site, as helical piles are drilled directly into the soil without augering or bringing spoils, contaminated with debris, to the surface. Vibration free installation was another factor in choosing helical piles, due to the close proximity of adjacent buildings to the work site. Low mobilization cost, no down time to wait for concrete to cure, and the ability to monitor torque applied to each pile during installation to accurately determine pile capacity, were other factors that led the design team to choose helical piles as the deep foundation solution for this project.

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Hubbell Power Systems, Inc. is the world's leading helical pile/anchor manufacturer. The CHANCE® brand offers a technically advanced, cost effective solution for the Civil Construction and Electric Utility and Telecommunications markets.

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## THE WORK

There were three types of piles installed for this project and each type was individually load tested prior to production pile installation. The perimeter footing was supported by a total of (65) CHANCE Model SS200/RS3500 Combination Piles. Each of these piles supported a working load of 50 kips in compression. The interior floor slab was supported by (60) CHANCE Model RS2875.276 Pipe Piles, and the interior column footings were supported by (33) CHANCE Model RS2875.203 Pipe Piles. Working load for the slab piles was 30 kips in compression, and working loads for the column piles was 20 kips in compression and 10 kips in tension. Pile depths ranged from 25 to 35 feet below existing grade. The load tests and pile installation took approximately two weeks to complete.



Load test being conducted on a RS2875.203 Pipe Pile.



RS3500 Pipe Extension being installed.



SS200/RS3500 Combination Pile

Mason Grady Foundations specializes in CHANCE Helical Pile Systems primarily for foundations and retaining walls. The company is the only certified CHANCE installer in the Tallahassee, FL area, we are family owned and operated, and we are a member of the CHANCE Alliance Network.



New Construction Plates installed to allow for pile and footing connection.

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CHANCE CERTIFICATION #1912-0009-3630



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