

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

Florida A&M University Student Services Building Addition



CHANCE® DISTRIBUTOR
FOUNDATION TECHNOLOGIES, INC.
 LAWRENCEVILLE, GA

CHANCE CERTIFIED
INSTALLER
MASON GRADY FOUNDATIONS, LLC
 PENSACOLA, FL / CAIRO, GA

GENERAL CONTRACTOR
ADVON CORPORATION
 TALLAHASSEE, FL

PROJECT ENGINEER
JGP STRUCTURAL GROUP
 TALLAHASSEE, FL

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.

PROJECT:

Installing CHANCE® Helical Pulldown® Micropiles for a two-story, 4,000 square foot addition on the campus of Florida A&M University.

BACKGROUND:

The foundations were initially designed on Auger Cast Pilings, due to a layer of highly plastic clay, and the presence of a construction debris pit within the addition footprint.

PROBLEM:

Utility lines, which included fiber optics, steam lines, and natural gas, criss-crossed the work area. The deep foundations would need to be installed within six inches of some of these lines, and within three inches of the existing foundation. CHANCE® Helical Pulldown® Micropiles (HPM) were selected to replace the Auger Cast Pilings. The HPM prevented the need for shoring of the existing foundation, and the need for re-locating the existing utilities, thus saving the University an estimated \$200,000.00, and cut approximately six weeks off the project schedule.

continued

CASE HISTORY



SOLUTION:

CHANCE Helical Pulldown Micropiles provided the best solution for this project, as they can be installed with small construction equipment, generate no spoils, and can easily penetrate debris. During the project, the piles were installed with a 28,000 lb. excavator and 12,000 ft-lb Eskridge drive head. The working load per pile was 70 kips in compression. (54) SS175 piles with an 8/10/12/14/16 helix and a 5 in. grout column were installed to a depth of approximately 40 ft. and torque values from 9,000 ft-lbs. to 10,500 ft-lbs. Pile installation took four days to complete.



KEY BENEFITS:

- Limited Access
- Quick installation
- Low to no vibration/noise
- Standard equipment for installation
- Lower mobilization costs - smaller equipment
- Time to install faster than concrete
- Labor savings - smaller crews



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CHANCE® Certification #1912-0009-3630

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

