

SITE PREPARATION

» NEW CONSTRUCTION

REMEDIAL REPAIR

» HELICAL PULLDOWN® MICROPILE

ATLAS RESISTANCE® PIERS

HELICAL UNDERPINNING

EARTH RETENTION

RETAINING WALLS

HELICAL TIEBACK

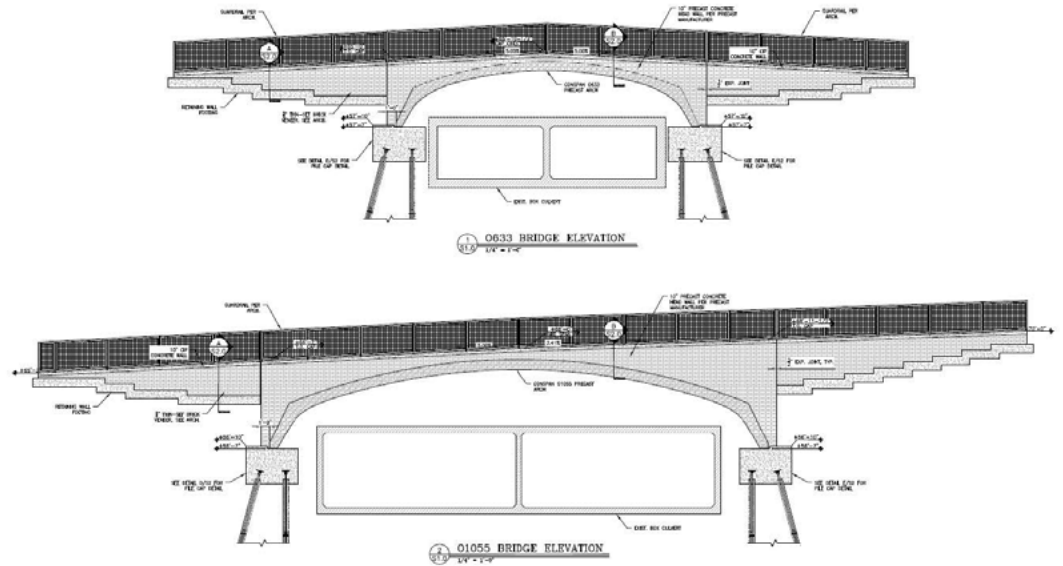
SOIL SCREW®

PIPELINE STABILIZATION

TELECOM/SUBSTATION

UTILITY/SOLAR

# Florida State University Pedestrian Bridges Tallahassee, FL



CHANCE® DISTRIBUTOR  
**FOUNDATION TECHNOLOGIES, INC.**  
LAWRENCEVILLE, GA

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

GENERAL CONTRACTOR  
**MAD DOG CONSTRUCTION**  
TALLAHASSEE, FL

PROJECT ENGINEER  
**DAVID H. MELVIN**  
TALLAHASSEE, FL

**PROJECT:**

Installing CHANCE® Helical Pulldown® Micropiles for four (4) Pedestrian Bridge Foundations at the Haskins Circus Complex on the campus of Florida State University.

**BACKGROUND:**

The bridge foundations needed to be designed on deep foundations due to the presence of underground concrete box culverts adjacent to the foundations.

**PROBLEM:**

Two (2) new pedestrian bridges were being constructed over a low area of campus with high foot traffic. The bridge foundations were to be constructed within inches of two (2) existing concrete box culverts. CHANCE® Helical Pulldown® Micropiles (HPM) were selected to support the foundations and transfer this load below the culverts, to ensure too great a load was not placed upon the sides of the culverts.

**SOLUTION:**

CHANCE Helical Pulldown Micropiles were selected for this project because of the limited access that was available at the site, as well as the need for a deep foundation that could be installed without hammering, augering, or using large construction equipment, as noise and vibration needed to be held to a minimum.

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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.

# CASE HISTORY

Two pre-production load tests were conducted, one on a vertical pile and one on a pile installed on a 15 degree batter. Even at 120 kips, which was 3 times the design load, pile movement was less than 1/2 inch. During the project, the piles were installed with a 10,000 lb. excavator and 12,000 ft-lb Eskridge drive head. (48) SS200 piles with a 10/12/14 helix and a 7 in. grout column were installed to depths of 35 - 40 feet and torque values from 5,000 ft-lbs. to 8,000 ft-lbs. Pile installation took five days to complete.



Vertical Load Test

### 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



View of completed pile system



Installation of the helical lead section



Battered Load Test



Mason Grady Foundations LLC  
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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.*



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