



SERVICES PROVIDED BY GCI

- Foundation Recommendations
- Pile Driving Analyses (PDA)
- Pile Integrity Testing (PIT)
- Production Pile Monitoring & Inspection

MAIN PROJECT ELEMENTS

- Design/Build Project
- Design by PDM
- Construction by PDM & HyCon

ELEVATED WATER STORAGE TANK UNIVERSITY OF SOUTH FLORIDA CAMPUS, TAMPA, FLORIDA

GCI worked as a subconsultant to Pitt-Des Moines (PDM) for the pile foundation system and production pile monitoring for this Design/Build project constructed at the University of South Florida Campus in Tampa, Florida.

A total of 198 (12-inch square) precast/prestressed concrete piles, including 19 test piles, were installed. The pile lengths vary from 60 to 95 feet. The pile cap (ring foundation) has a width of 11.5 feet and thickness of 2.8 feet. The inner and outside diameters of the ring foundation are 23.9 feet and 35.4 feet, respectively.

GCI determined the criteria for installation of the test piles using the WAVE equation analysis based on the data for the hammer and driving accessories and performed PDA analyses for installation of the test piles. Based on the PDA results for the test piles, GCI determined the driving criteria and monitored the installation of the remaining 178 production piles.

At the Annual Meeting of the Steel Plate Fabricators Association, the PDM Team received the 1998 Elevated Tank of the Year Award for the 1,200,000-gallon Hydropillar. The project team consisted of PDM and GCI staff as well as HyCon employees.

CONSTRUCTION COST: \$1,584,275
COMPLETION DATE: 1997

