



Grand Panama Beach Resort Parking Deck

Panama City Beach, Florida

Having utilized the Geopier Impact® system successfully on a previous project, the General Contractor was interested in the system again due to the fast-track job schedule

Description: Construction of a seven-story parking deck at approximately 31,000 square foot. Column loads up to 960 kips and wall loads are up to 39 kips per foot. The first phase of this project consisted of the ground, second and third levels. The remaining levels are planned to be built in a future phase.

Subsurface Conditions: Soil conditions consist of loose to medium dense sand and silty sand to the maximum explored depth of 30 feet. Due to a concern for potential sandy silt with organics in one area of the site, the Geotechnical Engineer performed supplemental borings to delineate that area. For the remainder of the building footprint, borings showed loose sand conditions, with the underlying medium dense sand encountered at a depth of 15 feet or less. Groundwater was encountered at depths of approximately 5 to 6 feet below grade.

Geopier Solution: Although vibro-replacement stone columns were originally suggested, the general contractor was interested in the Geopier Impact® system, because of the fast-track job schedule and foundation support success of a previous project.



Unlike the augercast pile alternative, the RAP work could proceed while the building permit was being obtained. Installation progressed quickly even while grading and staking operations were still underway for some areas of the parking deck. The dry displacement Impact System proved very effective as the working pad had been cut 3.5 feet below finished floor elevation and was flooded by stormwater twice during the timeframe.

PROJECT TEAM

Owner:

BNP Investment Properties

Geotechnical Engineer:

Nova Engineering Environmental, Inc.

Structural Engineer:

Hatch Mott MacDonald

General Contractor:

Jim Parker Building Company, Inc.

Geopier Installer:

Peterson Contractors, Inc.

Geopier Designer:

GFC-Southeast Coast