

Escorial Altos Apartments

Carolina, Puerto Rico

Geopier® System

Project Team

Owner: Balke Brown

Geotechnical Engineer: Suelos, Inc.

Structural Engineer: Darío del Nero

General Contractor: Bayside Contractors

Geopier Installer: M-R Drilling Corporation

Geopier Designer: GFC-Puerto Rico

This project in the metropolitan area of San Juan represents the first use of Geopier® Rammed Aggregate Pier® System in Puerto Rico

Project Overview

Description:

Construction of a four-story residential apartment building in the metropolitan area of San Juan, Puerto Rico.

Subsurface Conditions:

The soil profile consists of soft to stiff silt and clay to sandy silt or loose silty sand fill to depths of approximately 13 to 15 feet, underlain by medium dense sand and silty gravel and saprolite. Groundwater was encountered at depths of 10 to 13 feet.

Geopier® Solution:

The Geopier® Intermediate Foundation® System was chosen to reinforce the existing fill and support shallow foundations and up to 6 to 5 feet of new engineered fill. This project represents the first use of Geopier Rammed Aggregate Piers (RAPs) in Puerto Rico. RAPs were installed to depths of approximately 13 feet to completely penetrate the existing undocumented fill, soft clay and silt to tag the underlying gravel or silty gravel. While settlement on the order of two inches was measured in unreinforced zones under the new fill, less than ¾ inch was measured within the RAP reinforced zone. The Geopier approach provided significant cost savings and schedule advantage as compared to conventional overexcavation/replacement that would otherwise have been required.



FOR MORE INFORMATION

Contact Geopier Foundation Company at

800-371-7470 or at www.geopier.com

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