

Reardon Civic Center Kansas City, Kansas

Geopier® Rammed Aggregate Piers™

Project Team

Geotechnical Engineer: Maxim Technologies

Structural Engineer: Structural Engineering Associates

General Contractor: J. E. Dunn

Geopier Installer: Peterson Contractors, Inc.

Geopier Designer: GFC – Midwest

Spread footings supported on Geopier Rammed Aggregate Piers were selected over auger-cast piles, drilled shafts, or mat foundations to support the heavily loaded structures.

Project Overview

Description:

Construction of a four story office building, four level parking structure, and five story Hilton Inn hotel. Maximum column and wall loads were 675 kips and 53 kips per foot, respectively.

Subsurface Conditions:

Up to 14 feet of soft clay fill underlain by lean clay.

Geopier Solution:

Spread footings supported on Geopier Rammed Aggregate Piers (RAPs) were selected over auger-cast piles, drilled shafts or mat foundations to support the heavily loaded structures. Footings were designed for an allowable bearing pressure of 5,000 psf. Over 825 RAPs were installed to depths ranging from 9 to 22 feet below the footing bottoms to control settlement to one-inch or less. The Geopier Intermediate Foundation System provided significant cost savings and schedule advantage as compared to conventional overexcavation and 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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The Intermediate Foundation System