



Merriam Medical Office Building Shawnee Mission Medical Center Merriam, Kansas

Project Team

Owner: Shawnee Mission Medical Center
Geotechnical Engineer: Alpha Omega Geotech, Inc.
Structural Engineer: Bob D. Campbell and Company
General Contractor: Kraus-Anderson Construction Co.
GFC Installer: Foundation Service Corporation
GFC Designer: GFC-Midwest

Project Notes

Rammed Aggregate Pier® elements provided support for this three-story, slab-on-grade medical office building at the Shawnee Mission Medical Center. Maximum column loads were up to 300 kips and subsurface conditions were approximately 20 feet of medium stiff clay overlying shale and/or limestone bedrock.

To limit total and differential settlement of the variable structural loads supported over the compressible clay soils, the Geopier® System was selected in lieu of more costly drilled pier deep foundations socketed into bedrock. The foundations were designed as conventional spread footings utilizing an efficient allowable bearing pressure of 6,000 psf.

Community North Hospital Patient Wing Addition & Community North Medical Office Building Indianapolis, Indiana

Project Team

Owner: Community Hospital
Geotechnical Engineer: PSI
Structural Engineer: BSA Life Structures
General Contractor: Summit Construction
GFC Installer: Peterson Contractors, Inc.
GFC Designer: GFC-Great Lakes

Project Notes

This project involved the construction of a six story patient wing addition and six story medical office building with column loads up to 1,500 kips and uplift loads on the order of 250 kips. Soil conditions were medium stiff to stiff silty clay with sand lenses.

The Geopier® System was used in lieu of deep foundations to provide a bearing capacity up to 6,500 psf. Rammed Aggregate Pier® elements were also used to resist uplift loads.



Mercy Memorial Patient Tower Addition Ardmore, Oklahoma

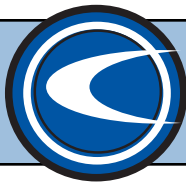
Project Team

Owner: Sister of Mercy
Geotechnical Engineer: Standard Testing & Engineering Co.
General Contractor: Nabholz Construction
Structural Engineer: SSE, Inc.
GFC Installer: Peterson Contractors, Inc.
GFC Designer: GFC-Midwest

Project Notes

The Intermediate Foundation® Technology was implemented to support the relatively heavy loads of this six-story patient tower building with a basement level over soft, compressible sandy clay and clayey sand soils. A canopy structure at the first floor level was also constructed. Column loads ranged from 80 to 1,000 kips.

The Geopier® System was selected to eliminate the need for use of drilled pier foundations. This resulted in cost savings to the project, it increased the bearing capacity and it controlled total settlements to less than one inch.



Dean Medical Center Madison, Wisconsin

Project Team

Owner: Dean Health Systems
Geotechnical Engineer: CGC, Inc.
General Contractor: Erdman
GFC Installer: Peterson Contractors, Inc.
GFC Designer: GFC-Midwest

Project Notes

This project involved the construction of a new three story, medical clinic to serve the southern Madison, Wisconsin area. Column loads ranged up to 570 kips and wall loads ranged up to seven klf. The subsurface conditions consisted of five to 16 feet of clay fill mixed with buried topsoil, followed by soft clay.

The geotechnical engineer recommended the Geopier® System as an alternative foundation support to overexcavation. Rammed Aggregate Pier® elements, 30 inches in diameter, were installed to depths that ranged from seven to 12 feet below the existing grade.



Mt. Clemens Regional Medical Macomb County, Michigan

Project Team

Owner: KIRCO
Geotechnical Engineer: Professional Engineering Associates, Inc.
Structural Engineer: Penhale and Yates, Inc.
General Contractor: KIRCO
GFC Installer: Foundation Service Corp.
GFC Designer: GFC-Midwest

Project Notes

Construction of a new three story, 24,300 square foot, steel frame medical office building with column loads that ranged from 75 to 318 kips. Soil conditions consisted of three feet of silty sand fill material underlain by soft to medium stiff silt and clay that extended to depths that ranged from 17 to 18 feet.

The structural engineer recommended installing Rammed Aggregate Pier® elements in lieu of other foundation support solutions such as drilled shafts and overexcavation and recompaction, due to cost savings the Geopier® System provided.



Contact Your Local Midwest Region Geopier Foundation Company Representative Today

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