

UPRR Child Development Facility Omaha, Nebraska

Geopier® Rammed Aggregate Piers™

Project Team

Geotechnical Engineer: Maxim Technologies, Inc.

Structural Engineer: Kirkham Michael Consult. Engineers

Owner: Union Pacific Railroad

General Contractor: Lund Ross Constructors

Geopier Installer: Peterson Contractors, Inc.

General Designer: GFC – Midwest

The use of Geopier Rammed Aggregate Piers to reinforce the soils and support up to seven feet of new fill, foundations and floor slabs saved both time and money compared to the surcharge and preload option.

Project Overview

Description:

Construction of a 165 foot by 130 foot single-story, slab-on-grade structure with steel framing and a masonry storm shelter. Maximum column loads of up to 100 kips and wall loads up to four k/ft.

Subsurface Conditions:

Up to five feet of miscellaneous fill underlain by soft to medium-stiff silty clay.

Geopier Solution:

To achieve the finish floor elevation, up to seven feet of new fill was required. As an alternate to the proposed surcharge and preload option, the Geopier Intermediate Foundation System was developed for the support of the new fill, foundations and floor slabs. A total of 108, 30-inch Geopier Rammed Aggregate Piers (RAPs) were installed at a



spacing of 12 feet on-center to support the new, engineered fill placed over the RAP reinforced soil. After a brief delay period, foundations and floor slabs were constructed. The Geopier System afforded considerable time and cost savings by eliminating the surcharge and delay program.

FOR MORE INFORMATION

Contact Geopier Foundation Company at **800-371-7470**

or at **www.geopier.com**



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The Intermediate Foundation System