

Chamberlain Lofts Ames, Iowa

Geopier® Rammed Aggregate Piers™

Project Team

Geotechnical Engineer: Terracon DSM

Structural Engineer: Martin Harper & Associates

General Contractor: J. Corp., Inc.

Geopier Installer : Peterson Contractors, Inc.

Geopier Designer: GFC – Midwest

The Geopier Intermediate Foundation System provided significant time and cost savings as compared to conventional overexcavation and replacement that would otherwise have been required.

Project Overview

Description:

Construction of a new 150 foot by 120 foot multi-use building with basement level parking, first floor retail and residential apartments in the five levels above. Column loads ranged from 370 to 700 kips with continuous retaining wall footing loads from 25 to 32.5 k/ft.

Subsurface Conditions:

Sandy lean clay fill ranging from 7 to 18 feet below existing grade was underlain by areas of soft alluvial clay and sandy lean clay glacial till. Groundwater ranged from 10 to 20 feet below grade.

Geopier Solution:

After cutting the site grade by 3 to 12 feet to achieve the basement level, the Geopier Intermediate Foundation System was developed to reinforce the existing fill and support footings sized for a bearing pressure of 5,000 psf. A total of 292, 30-inch diameter Geopier Rammed Aggregate Piers (RAPs) were installed at depths of 10 to 12 feet.



FOR MORE INFORMATION

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

or at **www.geopier.com**



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The Intermediate Foundation System