

# Boeing Building Addition St Louis, Missouri

Geopier® Rammed Aggregate Piers™

## Project Team

**Geotechnical Engineer:** Professional Service Industries

**Structural Engineer:** Lockwood-Greene

**Owner:** The Boeing Company

**General Contractor:** J. S. Alberici Construction Company

**Geopier Installer:** Foundation Service Corp.

**Geopier Designer:** GFC – Midsouth

**The Geopier Intermediate Foundation System provided a cost savings of nearly 50% compared to the traditional overexcavation and replacement alternative.**

## Project Overview

### Description:

Construction of a 2 to 3 story high bay warehouse measuring 140,000 square feet. Column loads of up to 600 kips and floor slab pressures of 500 psf.

### Subsurface Conditions:

Non-engineered fill extending between 10 to 15 feet below the ground surface was located beneath the building footprint underlain by competent native soils.

### Geopier Solution:

Geopier Rammed Aggregate Piers (RAPs) were installed on a 10 foot by 11 foot grid pattern beneath the building footprint. RAPs penetrated the existing fill soils and terminated in the native soils. Two modulus tests performed on the site confirmed design calculations indicating total settlements of less than 1/2 inch. A total of 814 RAPs were



installed in only 18 days. The Geopier Intermediate Foundation System provided a cost savings of nearly 50% compared to the traditional overexcavation and replacement alternative. Additionally, significant reductions in construction schedule were afforded by the use of RAPs.

### FOR MORE INFORMATION

Contact Geopier Foundation Company at **800-371-7470**  
or at **[www.geopier.com](http://www.geopier.com)**



**GEOPIER**  
FOUNDATION COMPANY

*The Intermediate Foundation System*