

## PROJECT DESCRIPTION

**PROJECT:** Beaverton Assisted Living Facility  
**LOCATION:** Beaverton, Oregon  
**DESIGN TEAM:** *Architect:* Jivanjee Architects  
*Structural Engineer:* VLMK Consulting Engineers  
*Geotechnical Engineer:* Carlson Testing, Inc.  
*Owner:* Blazer Industries, Inc.



**CONTRACTOR:** The Grant Company

### DESCRIPTION:

- 3-story, 60 unit assisted living facility featuring modular construction
- Up to 10' of undocumented fill
- Grade beam foundation system carrying 2½-3 kips per lineal foot
- 24" diameter Geopier® Rammed Aggregate Pier® elements spaced up to 15' on-center beneath grade beams

The geotechnical investigation revealed up to 10' of old, undocumented fill underlain by 1-2' of soft organic soil. Initial geotechnical recommendations were to remove the undocumented fill and replace it with imported structural fill. The Geopier System was selected during the design phase of the project as a cost-effective alternative.

A total of 260, 24" diameter Rammed Aggregate Pier (RAP) elements were installed beneath the grade beams at a typical spacing of 15', on-centers. A pier design capacity of 40 kips was used. All piers extended through the undocumented fill and underlying soft organic soils, resulting in pier shaft lengths of 6 to 14 feet.

The Geopier system was installed in only 6 working days on-site.

**REFERENCES:** Ray Holden, Project Manager  
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