



## Oracle Office Building

Reston, Virginia

**The Geopier GP3® system eliminated the need for extensive overexcavation and replacement in a project site with loose, sandy silt fill**

**Description:** Construction of an 8-story office building. Individual column loads range from 400 kips to 1,600 kips.

**Subsurface Conditions:** Subsurface conditions consist of loosely placed sandy silt fill, excavated from previous construction activity at the site, overlying Piedmont residual silts.

**Geopier Solution:** Faced with the prospect of extensive overexcavation and replacement that would have removed 10 to 15 feet of weak fill soils underlying the building foundation, the Geopier GP3® system effectively reinforced the soils despite the relatively high column loads. The Rammed Aggregate Pier® (RAP) system also eliminated the potential problems that could have been encountered by undercutting and replacing the poor soils during the spring season. In the end, substantial cost and time savings were afforded by choosing the Geopier GP3 system, all while providing superior foundation support.



### PROJECT TEAM

**Owner:**

Spaulding & Slye

**Geotechnical Engineer:**

Engineering Consulting Svcs. Ltd

**Structural Engineer:**

McNamara/Salvia, Inc.

**General Contractor:**

Clark Construction Group

**Geopier Installer:**

GeoConstructors, Inc.

**Geopier Designer:**

GeoStructures, Inc.