

## Capitol Area East End Complex Sacramento, California



**Description:** Six-story parking garage with average column loads of 1,060 kips, shearwall loads of 2,800 kips and uplift loads of 660 kips.

**Subsurface Conditions:** Thirty feet of sandy silt and clay underlain by sand. SPT "N-values" ranged from 2 to 8 blows per foot in the upper 30 feet.

**Design Details:** Shallow spread foundations supported by 10- to 15-foot long *Geopier*<sup>®</sup> soil reinforcing elements replaced the original design specification of 75-foot driven piles. *Geopier* soil reinforcement was selected because of a shorter construction schedule and a foundation cost savings. In order to achieve the construction timetable for the completion of phase one, a total of 429 *Geopier* elements were installed during the winter season.

**Geopier Licensee:** Geopier Foundation Company - Northern California

**General Contractor:** McCarthy Building Companies, Inc.

**Owner:** The State of California

**Geotechnical Engineer:** Consolidated Engineering

**Structural Engineer:** Frame Design Group

**References:** Mr. Rod Thayer - McCarthy Building Co. - (916) 786-3833