

## Adams Visitor Center Adams, Massachusetts



**Description:** Construction of a 6,600 square foot, two-story wood-frame Visitor Center for the Commonwealth of Massachusetts. Maximum column loads of 50 kips and floor slab pressures of 170 psf (DL+LL).

**Subsurface Conditions:** Fill soils consisting of gravelly sand and silt with some organic silt and root matter, rubble fill, and buried concrete slabs were encountered to depths of 11 to 12 feet. Medium dense to dense silty sand with was encountered below the fill. Groundwater was noted at a depth of 12 feet.

**Design Details:** A *Geopier*® soil reinforcement solution was developed to reinforce the uncontrolled fill and reduce the potential problems related to cost and environmental concerns related to overexcavation and replacement of the fill. A total of 90 *Geopier* Rammed Aggregate Piers were installed to support the spread and strip footings and lightly-reinforced floor slab. A combination of high-torque drilling equipment, temporary casing, and predrilling were required to penetrate the rubble fill.

**Geopier Licensee:** Helical Drilling Inc., Braintree, MA

**General Contractor:** Souliere & Zepka Construction, Inc., Adams, MA

**Owner:** Mass Development & Finance, Devens, MA

**Geotechnical Engineer:** SEA Consultants, Cambridge, MA

**Structural Engineer:** SEA Consultants, Cambridge, MA

**Reference:** Mr. Alan Delaney - Mass Development & Finance (978) 772-6340

Mr. Jay Perkins - SEA Consultants (617) 498-4650

Mr. Mike Zepka - Souliere & Zepka Construction (413) 743-1687