

CVS Pharmacy Pittsfield, MA



Description: Construction of a single story, 10,880 square foot retail pharmacy store. Typical column loads ranged from 55 to 100 kips.

Subsurface Conditions: A 3 to 12 ft. thick layer of variable granular and rubble/debris fill was encountered across the site. The fill was underlain by 1 to 9 ft thick organic deposit comprised of soft organic silt and fibrous peat. A 25 to 30 ft thick glacial lake deposit consisting of medium-compact to compact, fine to coarse sand and gravel was encountered below the organic deposit.

Design Details: *Geopier*® ground support for the building foundations and floor slabs was proposed as a cost effective alternative to overexcavation and replacement, a timber pile/ structural slab, or a thick foundation mat. A total of 169 Geopier elements were designed to support up to 70 kips in areas containing mostly fill while 30 kip capacity piers provided support in areas underlain predominately by peat. Shallow foundations were designed to bear at 3,500 psf in the engineered fill placed above the Geopier elements. In addition to time and cost savings, benefits offered by the Geopier alternative included the elimination of temporary construction dewatering cost and requirements associated with overexcavation and replacement, and significantly reduced off-site disposal of "urban fill" and peat soils.

Geopier Licensee: Helical Drilling Inc., Braintree, MA

General Contractor: D.F. Pray, Inc., Seekonk, MA

Owner: CVS Corporation, Woonsocket, RI

Architect: Jeter, Cook & Jepson Architects, Inc., Hartford, CT

Geotechnical Engineer: Clarence Welti Associates, Inc., Glastonbury, CT
Eastern Materials Testing Laboratory, Berlin, CT

Structural Engineer: Girard & Company, LLP, Hartford, CT

Reference: Clarence Welti – Clarence Welti Assoc, Inc. – (860) 633-4623
Michael Burke – D.F. Pray, Inc. – (508) 336-3366
David Toce – Girard & Company, LLP – (860) 524-5196
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