IMPACT®

Dept. of Public Works and Municipal Power & Light Buildings

Wellesley, Massachusetts

Geopier Rammed Aggregate Pier® elements were installed with two rigs to meet the aggressive construction schedule

Description: Expansion of Wellesley's municipal facilities included a 25,000 square foot Power and Light Department building and a 25,000 square foot addition to the Water and Sewer Department building.

Subsurface Conditions: Soil conditions consisted of urban and potentially contaminated fill soils, one to five feet of intermittent organic silt and peat, and outwash sand. Groundwater was encountered at seven feet below grade.

Geopier Solution: To provide uniform four ksf foundation support in the variable subsurface profile and support for slab-on-grade floor slabs, a system of 20 inch diameter Rammed Aggregate Pier® (RAP) and grouted RAP elements were constructed. Grout was used to increase pier capacity in the portions of the piers constructed in the soft organic deposits. The displacement-type RAP elements eliminated generation of potentially contaminated drill spoil that would otherwise have required subsequent handling and possibly offsite disposal.

PROJECT TEAM

Owner:
City of Revere, Massachusetts

Geotechnical Engineer:
Sanborn Head & Associates

Structural Engineer:
Allen M. Lieb Architects, PC

General Contractor:
CTA Construction, Inc.

Geopier Installer:
Helical Drilling, Inc.

Geopier Designer:
Design/Build Geotechnical, LLC

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