

STANTON ELEMENTARY SCHOOL WASHINGTON DC, USA

CCL Client: Tompkins Builders, Inc.
Project Date: September 2015

FES was commissioned to design and construct a deep foundation system as part of the renovation of Stanton Elementary School, when the original building was extended by 35,525 ft² (3300m²) to include a 1-3-storey structure.

Initial proposals, based on early recommendations from the geotechnical engineer of record, had these structures marked down to be supported on spread footings of 5 to 15 feet below the existing grades. However, following consultations on cost, this approach was deemed prohibitive.

Several deep-foundation specialists were approached by the contractor, Tompkins Builders, to put forward their alternative solutions to this issue, based on the use of helical piles.

Following a process of consultation, Tompkins selected FES Group to execute works.

The group developed a cost-effective system, utilising the CHANCE® RS2875.276 system with 8" 10" and 12" helices and an allowable design compression load of 40 kips.

Two full-scale compression-pile load tests were carried out, following ASTM D-1143 standard, whilst 275 helical piles were used in total, measuring embedment depth from 7 to 37 feet below pile cap base elevations, depending on location.



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