CHANCE®

UNDERPINNING ANCHORING REPORT

A CASE HISTORY

Project:	General Contractor:	Foundation Contractor:
Pleasant Hill Baptist Church Houston, Texas	Williams Industries, Inc. Houston, Texas	R. L. Nelson Construction Foundation Repair, Inc.

Job Description:

The Pleasant Hill Baptist Church was scheduled for a complete renovation. This renovation included a redesign of the roof framing system. The new framing scheme would add approximately 22,000 pounds of compression load onto each existing column and its foundation. Those foundations were spread footings, each with a 4-ft.-square base located 6 to 7 ft. below groundline. Project constraints included low headroom ($2\frac{1}{2}$ ft. in some areas) and the existing wood floor of the church was to be kept in its original condition. Soil was a stiff clay with PP values of 2 to 4 tsf.

Supplemental Foundations:

Four Chance HELICAL PIER™ Foundation Systems anchors were installed per column location. The anchors were installed at approximately a 15° batter to clear the spread footing base. The anchors were placed on a 3-ft.-square grid at groundline and connected with a reinforced-concrete cap connected to the vertical stem of each footing at the groundline. Eight columns were reinforced employing this scheme. Each anchor had a 5-ft. long $1\frac{1}{2}$-inch round-cornered-square steel shaft with 10- and 12-inch

diameter helices on the lead section. Extensions were $3\frac{1}{2}$ ft. long. Predrilling at some locations was required due to low headroom. Average installed depth of the anchors was approximately 18 ft. with a minimum average installation torque of 1,500 ft.-lb. from a Chance 2500 ft.-lb. portable drive unit.

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