

## A CASE HISTORY

<b>Project:</b> Lafayette Center Kennebunk, ME	<b>Engineer:</b> Indus Engineering Portland, ME	<b>Contractor:</b> Jager Construction Amherst, NH
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### Job Description:

This four-story elevator and stairway tower had settled and rotated away from the original building. HELICAL PIER<sup>®</sup> Foundation Systems anchors were used to lift and stabilize the structure.

The portion of the building which is nearest to the river was constructed on organic soils. It had settled differentially so that it had created a 4-inch gap at the top between old and new portions of the building.

### Repair:

Twelve SS175 foundation anchors were installed to a 15-foot depth. A Case 580E backhoe with a 10,000 ft.-lb. hydraulic drive head was used to screw the anchors into the soil. Heavy-duty foundation repair brackets were installed on top of the anchors and fastened to the bottom of the foundation. Five SS5 foundation anchors with standard foundation repair brackets were installed inside the elevator pit.

After all anchors were installed, a series of jacking tools and 50-ton hydraulic jacks were set on the anchors. Forces were applied simultaneously to the jacks to start lifting the building. By the end of that day, the elevator building had been lifted to near its original position.

