

CASESTUDY

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A photograph showing three construction workers at a site. One worker is perched on a ladder on the left, another in a red shirt is in the center pulling a yellow strap, and a third in a dark hoodie is on the right operating a large metal tool. They are working on a concrete retaining wall. In the background, there are tennis courts and a clear sky.

HELICAL TIEBACKS
STABILIZE LEANING
RETAINING WALL AT
HOA TENNIS COURTS

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NEVERSETTLE



LEANING RETAINING WALL IN CORONA DEL MAR COMMUNITY SAVED WITH HELICALS

PROJECT BACKGROUND

A community in Corona Del Mar with tennis courts was faced with the dilemma of repairing or completely tearing down and replacing a retaining wall that spanned an entire court. Over the last couple of years the wall was leaning more and more with cracks starting to appear in several sections. They knew they needed to act quick if there would be any chance of saving the wall and saving the community the hundreds of thousands of dollars that would be needed to replace the wall entirely.

PROJECT DESIGN PHASE

Brian Dalinghaus performed the initial inspection and found many cracks as well as several inches of deflection in multiple parts of the retaining wall. He designed a repair plan that would consist of core drilling through the wall before driving in the 18 helical tieback anchors that would stabilize this wall in place and prevent any future lean, roll, or deflection.

DALINGHAUS SOLUTION

The crew marked out each of the pile locations before core drilling the locations and beginning their installations. They found they needed to hydraulically drive the piles about 22 feet on average in order to reach competent soils that would be able to support this wall for many decades. The installation process was relatively smooth and the crew had the project area cleaned up about a week after starting the project.

INSTALLATION OVERVIEW

TOTAL HELICALS

18

HELICAL PRODUCT

TAF-150

PRODUCT MANUFACTURER

ECP



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