

CASESTUDY

MAR 2023

19 HELICAL PILES & 10 TIEBACKS
STABILIZE AND LIFT HILLSIDE
HOME IN CHINO HILLS, CA



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NEVERSETTLE



HELICAL PILES & TIEBACKS SAVE RECENTLY PURCHASED HILLSIDE HOME THAT HAD SETTLED & MOVED Laterally

PROJECT BACKGROUND

After recently purchasing a beautiful hillside home in a secluded area of Chino Hills, this homeowner was concerned with the cracks appearing through out his home's drywall and stucco. The cracks were especially noticeable along the area of the home that was closed to the hillside. Being an engineer, he understood that some cracking would be natural as the organic materials making up his home would expand and contract... but these cracks, to him, were showing signs that the home was moving towards the slope it sits atop.

PROJECT DESIGN PHASE

After performing his initial evaluation our Inspection Specialist, Tom, found that there was as much as 2.7 inches of settlement along just about the entire back side of the home closest to the slope. During the evaluation he also noticed signs of lateral movement with the deck and backyard pulling away from the home.

Tom worked with Engineering Services & Design of SoCal to design a repair plan consisting of 19 helical piles as well as 10 tiebacks to stabilize the home and attempt to recover some of the settlement that had taken place.

DALINGHAUS SOLUTION

The tiebacks would address lateral movement, while the helical piles would address the settling or downward movement that was measured. Our crew began by installing the helical piles down to competent soils, which were found between 14 and 18 feet beneath the soil's surface. Due to accessibility limitations the crew dug and installed the helicals all with handheld equipment and wrapped up the project in about 6 days!

INSTALLATION OVERVIEW

TOTAL HELICALS

29

HELICAL PRODUCT

**TAF-288
TAF-150**

PRODUCT MANUFACTURER

**EARTH CONTACT PRODUCTS
(ECP)**



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