

CASESTUDY

SEPT 2022



19 HELICAL PIERS USED TO STABILIZE & LIFT A SINKING GILBERT, AZ HOME



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GILBERT HOMEOWNER CALLS DALINGHAUS CONSTRUCTION TO STABILIZE FOUNDATION THAT HAD SETTLED 1.5 INCHES!

PROJECT BACKGROUND

Many Arizona homeowners are knowledgeable on the poor soils that many homes are built on, and this is especially true for a homeowner in Gilbert, AZ. After being sick and tired of the cracks showing up in her tile floors, walls, and ceiling she decided it was time to call experts to fix the problem once and for all. After speaking with her handy man she decided to call a couple of Arizona's Foundation Repair Specialists. After calling our office we scheduled a foundation evaluation with one of our Project Design Specialists in order to pinpoint what exactly was causing all the damage throughout her home.

PROJECT DESIGN PHASE

At 1650sq. ft. our design specialist spent about an hour and a half performing the initial foundation evaluation for the homeowner. During the inspection he measured 1.5 inches of settlement, with multiple visual signs of settling apparent throughout the home.

The homeowner wanted to stabilize the structure from ever moving again in the future to prevent continued damage to the home, and she hoped we could recover some of the settling that was extremely evident in the family room with how much the floors were sloping. After completing his inspection and floor elevation measurements, the specialist designed a repair plan consisting of 19 helical piles to address, stabilize, and lift the front half of the home, which was the only area experiencing settlement.

DALINGHAUS SOLUTION

Utilizing 19 of the TAF-288 helical piles from ECP our crew made quick work of the project. They started by excavating the soils at the pier locations before chipping the footings and driving the helical piles with a handheld hydraulic setup. They found competent, load-bearing soils after breaking through a hard pan layer known as caliche that can be as hard as concrete. This caliche layer of soil and rock can be found in most of Arizona, and makes for some fun to break through.

After the helical piles were installed the weight of the home was transferred to the piles to ensure this home never settles or sinks again in the future.

INSTALLATION OVERVIEW

TOTAL HELICAL PILESS

19

HELICAL PILE PRODUCTS

**TAF-288
BY ECP**

