

A CASE HISTORY

Project:
Elerding Residence
Sitka, AK

Structural Engineer:
Straiger Engineering
Sitka, AK

General Contractor:
Alaska Foundation Technology
Sitka, AK

Job Description: This single story residence was sitting on untreated wood piling that had been rotting and causing it to settle. The soil consisted of a 6' to 14' layer of organically filled sand and gravel mixture over a 3' to 6' layer of dense volcanic ash overlaying a dense clay. The typical repair method employed in the area was to hand dig out the foundation and replace it with concrete columns. Using Chance HELICAL PIER[®] Foundation Systems represents savings up to 50% over conventional methods.

Repair: Seventeen SS5 screw anchors with 8" and 10" helices were installed from 12' to 36' depths to reach load bearing soils. Five of the piers were installed inside the house through 12"-square holes cut through the wooden floor. Chance underpinning brackets were installed under the foundation and onto the anchors. Using hydraulic jacks inserted into the brackets, the foundation was leveled.

The owner was pleased and wrote: *"I would like to express my sincere thanks for the professional job your crew did on 'putting back together' our surroundings. They've made it like no construction job ever took place and I really appreciate it . . ."* Michal Beth Elerding



Twelve screw anchors were installed on the outside.



HELICAL PIER underpinning bracket

Portable hydraulic driver
installing screw anchor
through kitchen floor
→

