

Huge landslides are devastating the entire community of Rancho Palos Verdes. Particularly, the Portuguese Bend neighborhood got obliterated. Dalinghaus was brought in to address a home with several inches of settlement with a crack so massive pure daylight shines inside the home. With both the structure and hillside continuing to move, they needed to tie it all into more competent soils and completely stabilize it.



Previous engineering firms and contractors attempted to stabilize the structure with an unorthodox approach involving steel beams attached to small concrete pads.

However, these pads were shallow, continued to move, and required shims to be added every single day.



The steel beams were massive, and proved a hindrance to Dalinghaus's equipment. The whole entire hillside kept continuing to move and the roads were constantly sliding or being repaired.

The team at Dalinghaus stabilized a support system for the rear front side facing the street utilizing a combination of helical piers and helical tiebacks connected to a new grade beam. The initial tiebacks were changed mid project to soil nails which installed to greater depths allowing their crews to tie the home's footing and grade beams into soils much deeper into the hillside and below the slip plane of the ground.

