



CASE HISTORY

Engineered Floor Supported by SafeBasements Class 178 Helical Piers
Minneapolis, MN



January 2025

SafeBasements of Minnesota was contacted with concerns regarding the settlement of a basement floor. This home was recently purchased and 'repaired' by a local contractor in order for the sale of the home to be completed. Unfortunately, issues arose within 2 years of the work being completed, and additional work needed to be done, fixing the problems permanently. This house was built on pilings with the foundation supported by grade beams and pile caps. The previous contractor disconnected the floor from the grade beams while installing an interior drainage system and tried to remedy the situation by foam jacking the floor



as best as they could, then pouring a skim coat over the existing floor. Within two years the floor had settled about 2-3 inches and began breaking in several locations.



SafeBasements of Minnesota re-evaluated the situation and came up with a plan to fix the floor permanently. Approximately half of the basement floor was to be removed and replaced with a new engineered floor supported by SafeBasements Helical Piers.

A series of trenches were dug to form new grade beams that would be supported by the helical piers and allow the rebar to tie into the existing pile caps. The reinforcement for the floor would then be doweled into the existing grade beams. The new floor would then be poured monolithically with the new grade beams. A total of eight SafeBasements Class 178 Helical piers were installed to support the new floor system. All materials were hauled in and out of the existing egress window to minimize disruptions throughout the home. The existing waterproofing system was also repaired prior to re-pouring the floor. The new floor will be guaranteed not to settle for the life of the home.

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