

SHOT-CRETE SHORING OPERATION

As the fast-growing school district in Delano, Minnesota expanded the community high school, Innovative Piering, LLC was contracted to design & build a shoring solution.

Project: Delano High School

General Contractor: Breitbach Construction Co.

Location: Delano, MN

The shoring system was only for temporary shoring of the loose, sandy soils under the adjacent building. It required the existing building to be underpinned to support the loads. To accomplish this, helical piers were installed every 6' on-center, and underpinning brackets allowed the building load to be transferred to deeper strata, approximately 28' lower.

Next, soil nails were installed horizontally to engage the soils under the building. They were installed on a grid, approximately 4' on-center to a depth of 14'. Lastly, an unreinforced, 6" shot-crete wall was constructed. This allowed for temporary shoring while the general contractor, Breitbach Construction Co. constructed a new foundation immediately adjacent.

