



## PROJECT CASE STUDY

**Location:** Constantine, Michigan  
**Engineer:** Progressive Engineering, Inc.  
**General Contractor:** FMCI, Inc.  
**Completed:** September 2014

### *Description*

Expansion plans at the Michigan Milk Producers facility included excavation near existing structures to tie in new footings for buildings and storage silos. During excavation, one side of an existing building settled several inches, requiring immediate stabilization.

### *Requirements & Challenges*

The geotechnical firm onsite, Earth Exploration Inc., identified soil conditions and recommended the installation of helical piers along the settled wall. The settled wall was a setback for a tight project timeline. Due to the unforeseen delay, the recommended helical piers would have to be installed on a fast turnaround so that progress onsite could resume as soon as possible.

### *Solution*

3D Structural was contacted by Earth Exploration to visit the site same day. A total of 4 A.B. Chance Helical piers were proposed to an average depth of 14' to stabilize the wall. The section with the worst damage was to be reconstructed once the piers were installed.

### *Results*

All four helical piers were installed in one day – **the very next day** after the initial site visit. With such a fast and successful turnaround, the project got back underway with shorter than expected down-time.

*“Very timely – we were able to continue our project after a few days of delay” - FMCI*

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