



Hayfield Grain Enterprises Bin Expansion

Hayfield, Minnesota

The Geopier GP3® system was recommended by the geotechnical engineer as a practical alternative to overexcavation due to tight access constraints

Description: This project was the construction of a 60 foot diameter, 75 foot eave height steel grain storage bin supported on a reinforced concrete stemwall and interior base slab, 2400 psf grain floor load and 4,500 psf ringwall footing pressure.

Subsurface Conditions: Soil conditions consisted of existing fill and buried topsoil followed by soft to firm consistency clay glacial till to about 15 feet deep.

Geopier Solution: The Intermediate Foundation® solution involved the installation of a grid pattern of Rammed Aggregate Pier® elements with a 30 inch diameter, extended to depths of 15 feet below the existing grade.



PROJECT TEAM

Owner:

Hayfield Grain Enterprises

Geotechnical Engineer:

McGhie & Betts, Inc.

Structural Engineer:

C & C Engineering

General Contractor:

R&S Grain Systems

Geopier Installer:

Peterson Contractors, Inc.

Geopier Designer:

GFC-Midwest