



## Project Highlights

- 100-Year-Old, Historically Significant Building
- Owner Wanted to Retain the Building's Character
- Stacked Rock Foundation Built On Mixed Fill Soils with Possible Contamination

## Soils Bearing Capacity Improvement for Historic Structure Foundation

GeoStabilization implemented compaction grouting to save a historic structure on the Bucksbaum Campus of the Aspen Music School in Aspen, CO. The 100-year-old building was originally built on mine spoils, and experienced up to four inches of differential settlement over time. During an extensive remodel, some additional loading would be placed on the original rubble/stacked rock foundations and the engineer required a 4,000 psf soils bearing capacity for the existing foundation. In addition, there was concern that excessive settlement would occur with the additional load. Compaction grouting was used to densify mine spoils underneath the structure, increase the load carrying capacity of the soils to 4,000 psf, and reduce the potential of excessive future settlement. The work required limited access equipment due to the ongoing remodel. Crews used handheld equipment (pictured left) to drive and install grout casing at a slight batter under the existing stacked rock foundation.