

ANOTHER GTFC-WEST AGGREGATE PIER PROJECT

Project: **Reed College Performing Arts Building
 Portland, OR**

Design Team: **Opsis** - Architect
KPFF Consulting Engineers - Structural Engineer
GeoEngineers, Inc. - Geotechnical Engineer

Contractor: **Hoffman Construction**



GTFC-West was a fantastic ally on the Reed Performing Arts Project. They were instrumental in helping us get the permit through the City efficiently, the work on site was well planned and went like clockwork and their [engineered] aggregate pier foundation system saved the owner a substantial amount of money. They were an absolute pleasure to work with.

Stephanie Coyle
 Hoffman Construction Company



Construction Notes:

Total Engineered Aggregate Piers installed: 270
 Expected Days on Site: 9
 Actual Days on Site: 7 (gained two days for project schedule)
 Quality Control with proprietary deflection monitoring

Soil Profile & Summary:

The site was originally occupied by parking lots, tennis courts, and a Willamette Silt soils contain increasing amounts of fine sand with depth, grading to silty sand by about 10' below existing grade. The three-story structure, high column loads, and a partial basement with cuts up to 15' into the existing slope raised differential settlement concerns. Replacement Engineered Aggregate Piers were selected as a value-engineering alternative over a combined system of traditional, vibratory-displacement stone columns and over-excavation-and-replacement.

The GeoRam Engineered Aggregate Pier system provided additional savings through high allowable bearing pressures, resulting in a reduction in footing sizes by up to 2/3. The GTFC-West design-build model provided a rapid and responsive design process with seamless transition into construction, and our field crew phased work in coordination with the mass-excavation to keep the project on schedule.