

PROJECT DESCRIPTION

PROJECT: Apartment Building

LOCATION: MLK Boulevard & NE Wygant Street, Portland, Oregon

DESIGN TEAM: *Architect/Structural Engineer:* Walker/DiLoreto/Younie
Geotechnical Engineer: David J. Newton Associates
Owner: MLK-Wygant LLC

CONTRACTOR: Construction Services, Inc.



DESCRIPTION:

- 3-story apartment building with lower level concrete block, upper levels wood frame
- Typical wall loads of 500 lbs. per lineal foot

The building site was previously occupied by residential structures, and the majority of the new building area was located over an old basement. The basement was originally about 8' deep and had been filled with silty soils mixed with predominantly inorganic building rubble. A relatively competent gravel formation occurred at shallow depth beneath the old basement excavation.

Initial plans were to overexcavate the basement area and reinstall engineered fill so that conventional spread footings could be used. The excavation along the two bordering city streets would have necessitated shoring. The Geopier® System was installed as a Value Engineering alternative to the overexcavation and shoring.

A total of 47 Rammed Aggregate Pier® elements ranging from 24" to 30" in diameter were installed at about 10' intervals beneath the new wall footings. Several of the piers were drilled through as much as 8 vertical feet of the old 8'-12' concrete foundation walls. On-site time for Geopier installation was only 2 days.

REFERENCES:

Mr. Mark Jacobs
Construction Services, Inc.
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