

PROJECT DESCRIPTION

PROJECT: Transworld Office Building
LOCATION: Portland OR
DESIGN TEAM: *Architect:* Zimmer Gunsul Frasca Partnership – Portland OR
Structural Engineer: KPFF Consulting Engineers – Portland OR
Geotechnical Engineer: AGRA Earth & Environmental – Portland OR
CONTRACTOR: JE Dunn Construction – Portland OR
OWNER: Transworld Properties – Austin TX



- 11-story office tower
- Foundation loads up to 2000 kips
- Undocumented fill overlying medium stiff to stiff silts

The site consisted of 6-7 feet of undocumented fill overlying medium stiff to stiff silts. The geotechnical report recommended overexcavation and replacement with engineered granular fill below foundation excavations occurring within the fill areas. This required deep excavation for a major shear wall footing adjacent to an existing busy city street.

The Engineered Aggregate Pier system was selected because it eliminated excavation problems adjacent to the city street. It also allowed an increase in footing bearing pressure from 3500 psf to **10,000 psf**, thereby saving considerable footing excavation, forming, and concrete costs. A total of 221, 30" diameter Engineered Aggregate Piers were installed in 11 working days on-site.

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