

PROJECT DESCRIPTION

PROJECT: NW Medical Center Addition

LOCATION: Tucson, Arizona

DESIGN TEAM: *Architect:* Gould Turner Group, P.C.: Nashville, Tennessee
Structural Engineer: Stanley D. Lindsey & Associates: Nashville, Tennessee
Geotechnical Engineer: AGRA Earth & Environmental: Tucson, Arizona

CONTRACTOR: Bovis Lend Lease: Tucson, Arizona

OWNER: Triad Hospitals, Inc.: Dallas, Texas



DESCRIPTION:

- 1-story and 4-story hospital expansion
- Foundation loads up to 450 kips
- Wall loads of approximately 4 kips per foot
- Undocumented fill overlying clayey, silty sand

The site consisted of 2-6 feet of fill overlying silty sand, sandy clay and clayey, silty sand. The geotechnical report recommended overexcavation of up to 6' of the fill and replacement with engineered. Because the overexcavation for footings near the existing structures would require shoring to protect the footings, drilled concrete piers were initially planned for several of the new footings.

The Geopier® System was selected as a Value Engineering alternative.

Vibration monitoring was conducted by the Owner during Geopier® installation, and no vibrations were detected at the existing footings.

A total of 450 Rammed Aggregate Pier® elements were installed in only 17 working days on-site.

REFERENCES: Ben Couch, P.E. Monnie Wood, Sr. Project Manager
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