



**GEOTECH FOUNDATION COMPANY - WEST®**  
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## PROJECT DESCRIPTION

**PROJECT:** Bi-Mart  
**LOCATION:** Baker City, Oregon  
**DESIGN TEAM:** *Architect:* Schaudt, Stemm & Wild, Inc.: Eugene, Oregon  
*Structural Engineer:* Schaudt, Stemm & Wild, Inc.: Eugene, Oregon  
*Geotechnical Engineer:* Hanley Engineering: Baker City, Oregon  
**CONTRACTOR:** McCormack Construction Company: Pendleton, Oregon  
**OWNER:** Bi-Mart Corporation



### DESCRIPTION:

- Single story retail structure
- Foundation loads of about 70 kips
- Goundwater at approximately 10.5 feet
- Undocumented fill to depths up to 11 feet

The site consisted of up to 11 feet of undocumented fill overlying clean sand and gravel. The geotechnical report recommended over excavation of the fill and replacement with imported, engineered fill. The Geopier® System was selected by the architect and structural engineer as a Value Engineering alternative.

During construction, concrete debris as large as 3 feet across and many boulders were encountered in the fill. Due to the poor stability of the fill soils, casing was required to keep 41 of the augured holes open as the Rammed Aggregate Pier® (RAP) were constructed. A total of 131 RAP elements were installed in only 6 working days on site.

**REFERENCES:** Bryan Payant                      Art Wild, S.E.                      Thomas Henley, P.E.  
McCormack Construction Co.      Schaudt, Stemm & Wild, Inc.      Henley Engineering  
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