

PROJECT DESCRIPTION

PROJECT:	5-Level Parking Structure
LOCATION:	Pearl Street & 10 th Avenue, Eugene, Oregon
OWNER:	The City of Eugene
CONTRACTOR:	Charles Pankow Builders, Ltd.



DESCRIPTION:

- 4 Elevated levels, reinforced concrete (cast-in-place)
- Column loads between 200 and 1055 kips

The site is located in downtown Eugene. Randomly filled old basement excavations up to 12 or so feet deep occupied about 1/3 of the site. Backfill consisted of poorly compacted silty soils, gravel, cobbles, concrete, rubble, and asphalt. A dense gravel formation underlies the site at a depth of about 10' to 16'.

Initial plans for foundation support were to overexcavate 10'-16' to the gravel formation and install structural fill for spread footing support. Shoring would have been required on all four sides of the site. The Geopier® System terminating on the gravel formation were selected as a Value Engineering alternative to eliminate the overexcavation, replacement filling and shoring.

Rammed Aggregate Pier® (RAP) were used to support all 40 of the building columns and the elevator core were installed in only 11 working days on-site, which allowed footing construction to begin two weeks earlier than initially scheduled.

REFERENCES:

Mr. Scott Anderson, Site Superintendent
Pankow Builders, Ltd.
(415) 543-4010

Mr. Brad Whitaker, Project Engineer
Pankow Builders, Inc.
(415) 543-4010