

PROJECT DESCRIPTION

PROJECT:	Hilton Garden Inn
LOCATION:	Oxnard, California
DESIGN TEAM:	<i>Structural Engineer:</i> Seneca Structural Engineering, Inc. <i>Geotechnical Engineer:</i> Advanced Geotechnical Services, Inc.
CONTRACTOR:	R. D. Olson Construction



DESCRIPTION:

- 7-Story Hotel
- Cast in-place concrete construction with shear walls for seismic
- Geopier® System used to mitigate liquefaction as well as foundation support
- Interior column loads up to 650 kips and shear wall footing gravity loads up to 2700 kips
- Liquefiable silty sands to 24'

The project geotechnical report initially recommended minimum 40' long driven, precast concrete piles. The Geopier® System, mitigating liquefaction to a depth of 20' below grade, was selected as a more cost effective alternative. The liquefaction analyses conducted by the project geotechnical engineer indicated that although only the upper 20' of the full 24' depth of liquefiable soil would be stabilized by the Geopier installation, seismic-induced settlement below the Geopier-reinforced zone would be within the tolerance established by the structural engineer.

REFERENCES:	Ron Koubeserian R.D. Olson Construction (949) 474-2001	Kenneth Palos AGS, Inc. (805) 388-6162	K. Dirk Bondy, S.E. Seneca Structural Eng. (949) 595-8182
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