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MacLean Civil Products Teams with Construction Services, Inc. to Install (250) Helical Piles for New Construction Project in Moorpark, California



MacLean Power Systems **Civil Products Group** 481 Munn Road, Suite 300 Fort Mill, SC 29715 800-325-5360 www.macleandixie.com

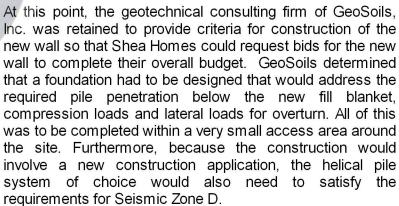


Project Name & Location:	Shea Homes - Moorpark, CA
Project Date:	January 2016
Project Type:	Grouted CMU Property Line Wall
Helical Pile Installation Contractor:	Construction Services, Inc http://anchorguys.com/
Geotechnical Engineer:	GEO Soils, Inc <u>www.geosoils.com</u>
Structural Engineer:	EJD Engineering, Inc <u>www.esifme.com</u>
Helical Pile Distributor:	Advanced Support Technology - http://www.earthscrew.com/
Helical Pile Specifications:	Model MCP D10 1.75" RCS Helical Piles with 12" Helix Bearing Plate, New Construction Pile Caps, 15 KIP Design Load, Galvanized
Soils & Embedment Depth:	Sandy Soils; Average Pile Embedment 15 ft.
Project Timeline:	(3) Weeks
Helical Pile Manufacturer:	MacLean Power Systems - Civil Products Group - Fort Mill, SC

Residential builder, Shea Homes of California, elected to commence development of a new subdivision of single family detached homes within the city of Moorpark. California. Shea Homes owned the property for many years and planned upon utilizing the existing CMU property line wall that encompassed the entire property because it would afford a substantial cost savings.

However, city plan checks determined that the existing wall had been constructed without building permits and was therefore deemed by the city to be non-compliant requiring complete removal. Under most circumstances, building a new wall would not have posed any iss<mark>ues. Howev</mark>er, the over excavation and re-compaction of the fill blanket had already been completed on the entire property, and the forming of house foundations was well under way by the time the city delivered the bad news regarding the wall.







1.75" RCS MCP Model D10 Lead with 12" Helix Bearing Plate and Extension with Square on Square Coupler

GeoSoils engineers were very familiar with helical piles and they contacted Kenneth Drake of Advanced Support Technology, Inc. to inquire about the feasibility of using helical piles on this project. All parties met with Shea Homes to discuss the various options available to them regarding the use of helical piles. Initial discussions focused on the use 8.00" O.D. helical piles filled with concrete. This design solution had proven to provide high compressive, tension and lateral capacities on numerous projects in California. After much discussion and cost analysis, it was determined that the MacLean Civil Products (MCP) Dixie, 1.75" RCS helical pile would be the pile of choice due to the necessity of smaller equipment and overall cost. The engineers finalized a design that included MCP D10 helical piles founded at a depth of fifteen feet (15') around the site would meet all requirements to support the new grouted 10 ft. above grade CMU wall. The helical piles were placed at alternating batters within the footings so that they could adequately provide compressive, uplift and lateral capacities in a simple design.

Construction Services was selected as the installation contractor, and crews installed (250) 1.75" x 15' deep MacLean Dixie RCS helical piles fitted with a single 12" x 1/2" helix bearing plate using a Gehl CTL 80 Skid Steer fitted with a ProDig 30K drive head. The entire installation and required load tests were successfully completed ahead of schedule.

The helical anchor installation was performed under continuous observation of both the Geotechnical firm as well as a Special Deputy Inspector, and the project was successfully complete in (3) weeks.









