



CASE STUDY

Ram Jack Helical Piles Help Hospital Replace Electrical Feeders



INSTALLATION OVERVIEW

Get more info on the ins-and-outs of Ram Jack products used.

ENGINEER RESOURCES

Find the back page of this case study for more information on engineer resources.

RAM JACK PACIFIC

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El Cajon, CA

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RAM JACK
HELICAL PILES
INSTALLED!



Ram Jack Helical Piles Help Hospital Replace Electrical Feeder

San Diego, California

Sharp Mary Birch Hospital in San Diego needed to replace their backup main electrical distribution feeders. This was critical for the safety of all in-hospital patients.

PROBLEM

During the replacement phase, the hospital required a backup power supply to guarantee uninterrupted power and no downtime. This temporary power came in the form of a large generator the size of a shipping container. The Office of Statewide Health Planning and Development (OSHDP), which regulates all hospital construction, requires seismic protection on all projects of this nature and magnitude.

PROPOSED SOLUTION

AARK Engineering Inc. is a well-known name across the medical industry, and Ram Jack has worked with them many times in the past. The engineering firm specified helical tie-downs, owing to their small footprint and rapid installation time. The team would need to drive down eight (8) helical piles - four on either side of the generator. These would then need to be tied to each corner of the generator's trailer using galvanized, heavy-duty aircraft cable, along with Chicago Hardware's drop-forged wire rope clips. This was a crucial part of the process to keep the generator from moving during a seismic event such as an earthquake. While the original plan was to tie two helical piles to each corner of the trailer, certain underground utilities forced the team to make a swift new plan of action. We had to determine another appropriate location for the other two helical piles. So, the team installed eight

(8) helical piles to a minimum of 7 ft. below grade and at 45 degrees. Other piles were installed at various relevant angles from each corner of the generator trailer. Three (3) helical piles were installed on two of the corners, and one on the other two corners. The electric company that was contracted to install and run the generator stayed on-site to observe the installation. A third-party engineering firm further verified the installation process. Once Ram Jack was satisfied with the new helical pile locations, the team tied each one to the trailer using heavy-duty galvanized aircraft cable, as planned.

OUTCOME

By the end of the project, the generator was successfully anchored to the ground and all risk was eliminated during the renovation period. After this, Ram Jack returned to remove all piles and cables.

Contact your local Ram Jack to speak with a project manager or in-house engineer today!

DON'T DO IT TWICE. DO IT RIGHT.™



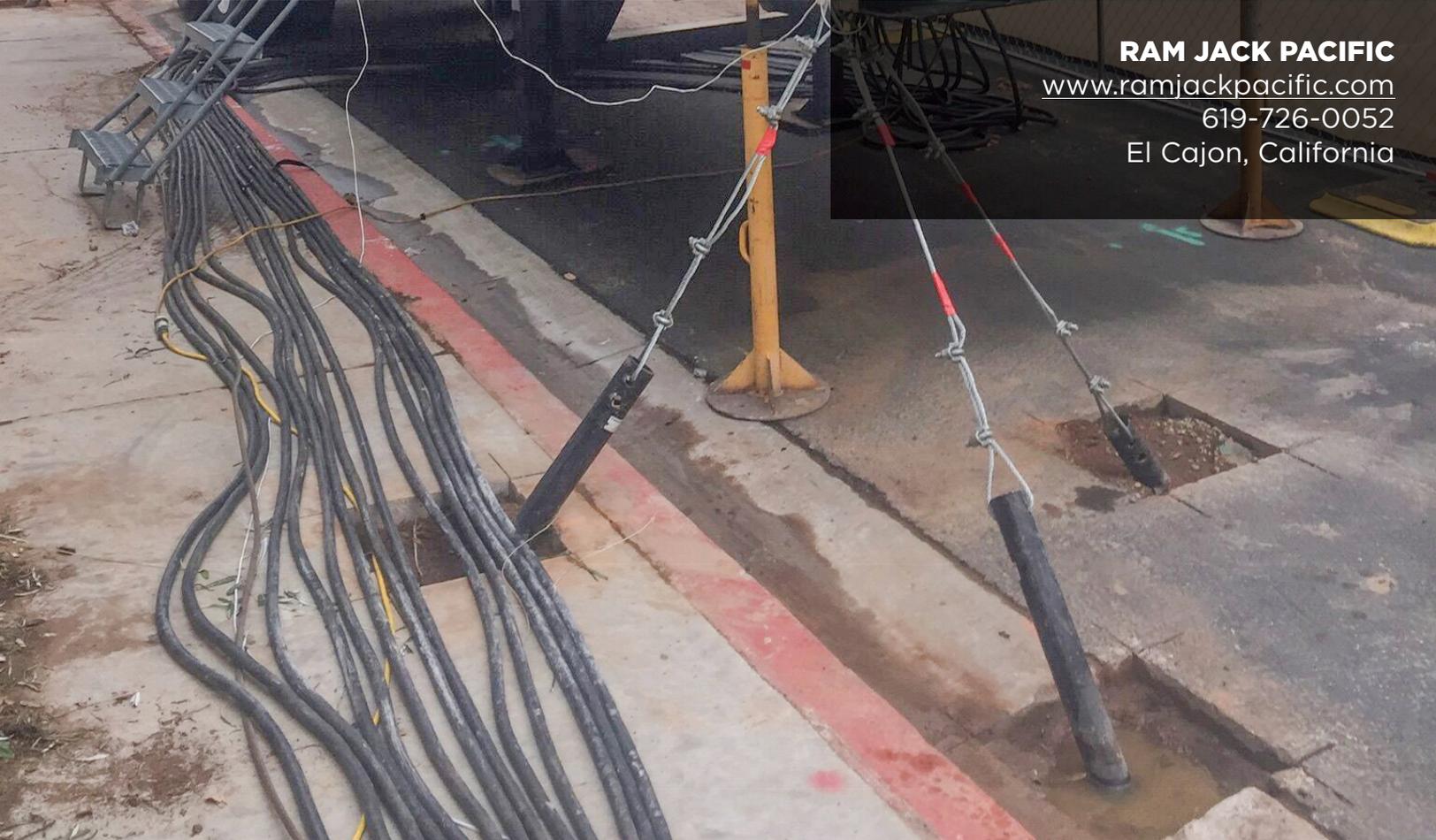
INSTALLATION OVERVIEW

Commerical Installation
Ram Jack Pacific

Products Used
2 7/8 in. Helical Piles

Product Type
Remedial - Helical

Typical Applications
Ram Jack's 2 7/8 in. diameter driven steel pilings are slip jointed allowing for a smooth and homogeneous pile.



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El Cajon, California

Custom Engineered Solutions Rooted in Quality.



CCMC RECOGNIZED

ISO
9001:2015
CERTIFIED



ICC-ES RECOGNIZED

At Ram Jack®, we are focused on providing custom-engineered solutions that meet the unique needs of our commercial clients. You can move forward with confidence knowing we maintain code compliance, providing piles and brackets that reach the highest rating among competitors' products recognized by ESR-1854. Our company has the most products recognized by the ICC and boast an ISO 9001:2015 certified manufacturing facility.

We have the facility to design and fabricate custom products—we are the one-stop solution for engineers and even offer our own in-house engineers for assistance with your project. If you need assistance with foundation designs, we also provide engineer tools and resources and our engineers can work with the project's EOR to develop a custom-designed solution.



Everything an Engineer Needs

The Ram Jack Technical Manual provides engineers with the information that you will need to understand, design, and specify Ram Jack's helical and driven piles. It also provides information verifying compliance with current building codes and ICC-approved acceptance criteria.

Everything an engineer could ever want and need to know about Ram Jack Helicals and Driven Piles in one book. If you or your firm would be interested in a Ram Jack Technical Manual, please contact your local Ram Jack dealer by emailing info@ramjack.com.



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