



RAM JACK

2016 CASE STUDY

Type: Commercial | Issue: CR201601

Remote Waterfront Villas on Secure Foundations

RAM JACK LOCATION:

Ram Jack Centro America

www.ramjackcentroamerica.com | US 727-447-5502 | CR 011-506-8702-1034

Heredia Province, Heredia, Costa Rica

CASE STUDY 2016

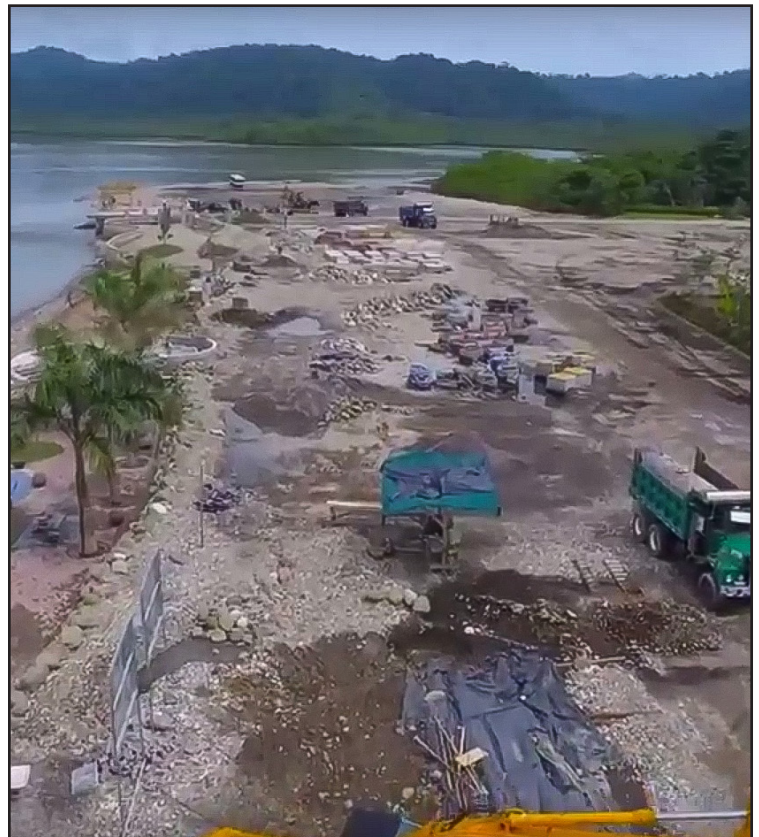
Situated beside the tropical rainforest on a beautiful stretch of coastline, the Golfito Marina & Village promises to be an essential golf and tourist destination for the small Central American country of Costa Rica. With a large marina, numerous restaurants, desirable shops, and waterside villas all within a few steps, the still-under-construction resort will undoubtedly attract everyone from golfers looking for 18 holes of pleasure to families desiring a comfortable stretch of beach to rest, swim, and play.



Proven Engineered Solutions.

SITUATION

The Golfito Marina & Village was to be built on the sand of the beach. In order to compensate for the ebb and flow of the tide and provide a strong foundation for the proposed structures, the owners used a combination of steel sheet piles and gravel/river rock fill to raise the lot level 12 vertical feet. The new buildings would sit atop this compact gravel and the nearly 20 ft. of sand beneath it. In order to provide the support needed, support piles would need to be extended through the gravel and sand to competent rock deep beneath the surface.



INSTALLATION OVERVIEW

Total # of Piles • 82

Products Used • #5430 3 1/2" dia. Helical Pile

Product Type • New Construction - Helical

Typical Applications • Ram Jack's new construction pile (instant pile) can be used with new grade beams, footings, and pile caps.



OUTCOME

After a four-day customs delay in the delivery of steel, Ram Jack Centro America got to work. The delay proved to be a blessing in disguise, as it allowed further modifications of the custom pieces needed for the CAT320CL. The team worked 12 hours per day for 12 straight days. Despite on-the-fly adjustments, Ram Jack Centro America installed 82 piles to an average depth of 33 ft., providing the perfect foundation for the to-be-built resort structures. When finished, the project manager was "surprised Ram Jack finished ahead of schedule" and plans to use "Ram Jack to do Phase 2 in 2017."



Watch Our Video Case Study on Youtube! Search for "Ram Jack Golfito Marina."

PROPOSED SOLUTION

Ram Jack Centro America designed a plan that included 2 7/8 in. and 3 1/2 in. new construction helical piles to be driven through the gravel and sand to the rock below as deep as needed to provide the support required for building construction. After discussions with local Costa Rican engineers familiar with the project, Ram Jack Centro America decided to use a modified helical blade to drive through the dense, tough gravel.

**GOLFITO
MARINA VILLAGE**
C O S T A R I C A

INTRODUCING THE ALL-NEW

TECHNICAL MANUAL



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.

Franchise Highlight

Ram Jack Centro America

Engineers rely on Ram Jack for our proven, code compliant, engineered products and solutions. Our piles and brackets have the highest rating among competitors' products recognized by ESR-1854. Ram Jack has the most products recognized by the ICC—with products in all four applications listed in the ICC Acceptance Criteria AC358. Our ISO 9001:2008 certified manufacturing facility ensures reliable and quality products.



LOCATIONS

- HUDSON, FLORIDA
- HEREDIA, COSTA RICA

CONTACT US

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COSTA RICA: 011-506-8702-1034

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