

Emergency Erosion Repair Completed in 8 Days

An evacuated apartment building's foundations were jeopardized by a nearby creek, and residents were forced to leave their homes until installation of a 16-ft-tall Redi-Rock wall halted erosion of the creek.

"The end product made a substantial impact and improved the overall image of the development. It turned the liability of an encroaching stream into a visual asset," said Jeff Barrow, P.E. and president of Civil Solutions Associates of Cincinnati.

"When we originally constructed the apartments, the creek was about 20 ft further away," said the owner of the Dayton, Ohio-area apartment complex.

Barrow explained, "Residents had been losing green space over the last few years, but when the creek intrusion started affecting the parking lot and threatening the building foundations, something had to be done."

Owners and engineers chose Redi-Rock for its gravity design, competitive pricing and fast installation.

"We needed a block design that would allow us to create a 16-ft-tall unreinforced slope without encroaching into the adjacent foundations or parking lot," Barrow said.



Before After

The wall design included Redi-Rock 41-in. blocks and 9-in. setback blocks, which increase the wall's batter, allowing a higher gravity wall to be built without requiring reinforcement. When completed, the wall stood 19.5 ft tall with 3 ft buried.

"When we ran the numbers, Redi-Rock was as economical as any other system we considered, and quite frankly, it was easier to install," the apartment complex owner said. Installation of 5,100 sq ft of Redi-Rock walls was completed in eight days. The fast installation helped the owners get the evacuated residents back into their homes and protect their investment. [SWS]

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WHO ELSE USES THE 9 IN. SETBACK SOLUTION?



BEFORE



AFTER

This Tulsa area project used Redi-Rock's 9 In. Setback blocks to increase the capacity of the channel and slow down the water's velocity to create a safer, more gradual slope. Choose an efficient, attractive, cost-effective channel solution for your next storm water project—choose Redi-Rock!

Storm water management experts across North America choose Redi-Rock to create storm channels and protect against erosion.

One-ton Redi-Rock blocks are known for building tall gravity walls for storm channels, but did you know that Redi-Rock 9 In. Setback blocks can allow you to build even taller walls?

9 In. Setback blocks:

- Create a **27.5 degree batter angle** when used in every course
- Can be used in every course, or in any combination to achieve a custom batter for your project
- Are available in all 3 textures—**Limestone, Cobblestone, and Ledgestone**

- Can be **incorporated with other Redi-Rock blocks** to create a custom solution for any project
- Create tall gravity walls that require **NO geogrid** in many applications

"We have found in the past on similar projects that the smaller retaining wall blocks just won't handle the velocity of the water," explained the senior engineer in stormwater design for the City. "We needed a natural looking material that's also functional, which is where Redi-Rock fit in," said the landscape architect involved with the project.

Get started on your next project! Visit www.redi-rock.com today to access design resources and to get a quote from your local manufacturer.

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9 in. SETBACK BLOCK

Weight: 2355 lbs.
46" x 41" x 18" High
5.75 sq. ft. of face

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