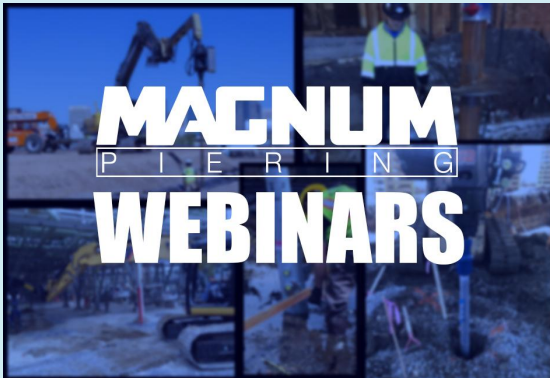


## Deep Foundations Report | Winter 2021

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### Schedule a Webinar with Us

Want to learn more about steel foundations for your future projects? Contact us today and we can customize a webinar for you and your team members on general or specific topics within the foundation industry such as helical pile design, installation and helical pile applications

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### MAGNUM MINUTE:

In this issue of the MAGNUM Minute, we discuss a new hydraulic pump for foundation repair, sold exclusively through Magnum

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### MAGNUM Spotlight - Scott Slaughter PE.

Scott joined Magnum Piering in October 2019 and is a Senior Support Engineer based in Baton Rouge, LA. Scott originally comes from LA (Lower Alabama) and spent 4-years active duty in the US Army shortly after high school where he was a member of the 2/75th Infantry Ranger Battalion. After the military Scott attended LSU (THE Louisiana State University) earning a degree in Civil Engineering. Scott has practiced his entire 30-year professional geotechnical career practicing in the soft soil conditions encountered in the Gulf Coast region. His work history includes project engineer for the Louisiana and Alabama DOT's, department manager and branch manager for regional geotechnical firms, and most recently geotechnical department manager for URS, CB&I, and APTIM.

Scott is married to his lovely wife Ashley and they have three grown children. In his spare time, Scott enjoys spending time at the camp with friends and family, cooking things that bring happiness, cruising the rivers in the pontoon boat, deer hunting, riding his dual-sport motorcycle, and tailgating at LSU football games.

### Kanawha Public Library

Magnum Geo Solutions was able to redesign the library using 159 3" helical piles under the columns as well as the elevator shaft. This was able to greatly reduce the cost of the project by eliminating

the spoils produced by auger cast.

You can view the video case history by clicking the image to the right.

[View in a PDF](#)

## CASE HISTORY

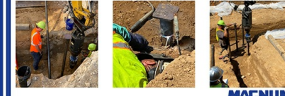
Kanawha Public Library  
Charleston, West Virginia



### 168 - 50' 325BR Piles with a 10D12S Helix Configuration

#### 168 - 6" x 6" x 5/8" plate caps

This project was originally designed with 90' 40" diameter auger cast piles to a depth of roughly 50' Paramount reached out to Tempe to provide a VE. Alternate utilizing helical piles. Mag Geo was able to relocate the library using 100' 3" helical piles under the columns as well as the elevator shaft. This was able to greatly reduce the cost of the project by eliminating the spoils produced by auger cast, increasing installation time, and reducing the overall amount of concrete needed for the project.



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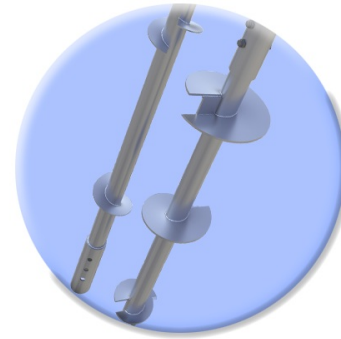
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## Artist Rendering of an Ancient Roman Cofferdam

It is innovation that remains at the core of engineering. The ability to develop new ways to solve a problem is a trait that modern engineers share in abundance with their ancient counterparts. Today, armed with the experience gained and passed on by our ancestors, the sky is quite literally the limit.

[Courtesy Foundations of Our Past](#)

