



# Innovation in Steel Piling Presentation

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*Richard Morales, M.Sc., P.E., F. ASCE*

Director of Engineering  
Construction Products  
LB Foster

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## Abstract

This presentation provides a brief overview on the recent advances in piling. Below is a scope of topics in the presentation:

- L. B. Foster Introduction
- Steel Sheet Pile
  - Z-Pile
  - Flat Web Pile
- Combiwall
- Pipe Pile
- Top Hat
- H-Pile/Structural
- Corrosion Protection
- Pile Accessories
- Extruded Connectors
- Wadit
- Engineering Support/Shop Drawings
- Open Cell
- **Update on the Panama Canal Expansion**
  - **Cellular Structures Critical for Borinquen Dam**



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## Bio

Richard Morales is the Director of Engineering for LB Foster Piling responsible for Technical Support & Engineering Deep Foundation Solutions for their national and international Sales Teams. For over 4 decades, Richard's experience includes: Director of Major Projects for ARAMARK; Sr Project Director for Phelps Dodge Copper Mining; Sr Project Manager for Lockheed Engineering and Sciences at the NASA Johnson Space Center/White Sands Testing Facility; Bridge Engineer for CALTRANS and a Research Structural Engineer for the National Bureau of Standards in Gaithersburg, Md.

Richard also has practical experience working in Heavy Construction and Mining, working for Stearns and Rogers on the San Juan Power Generation Plant in Farmington, NM as well as Underground Uranium Mining for SOHIO in Grants, NM.

Richard's most recent accomplishment is providing technical support to the current expansion of the Panama Canal. Richard earned an MSCE in Structural Engineering from University of California, Berkeley and a BSCE from University of New Mexico. He also received an Executive MBA from Thunderbird American Graduate School of International Management. He is a registered PE in CA, TX, NM & GA. Richard is also currently serving as Past-President of the ASCE GA Section, Chairman of Exploring Engineer Academy at Georgia Tech & serves on the Non-Profit Board of Directors for SkillsUSA. In 2015 Richard was honored to be selected Georgia's Engineer of the Year.