

ALDI Inc.

Deep Foundations



APD's relationship with ALDI is long-lasting.

"APD has managed the ALDI prototype program since 2008 including the ALDI Prototype drawings, Specifications, and Civil Design Guidelines. They've been able to communicate prototype drawings, specifications, and design requirement updates to regional Architects across the country, maintaining consistency throughout the ALDI building program."

Throughout this time, they've lead and assisted with countless research and prototype development initiatives. APD's skill at project management ensures a high degree of coordination with government entitlements, neighborhood groups, utility companies, and contractors, which is part of the reason why our projects get completed cost effectively and efficiently."

APD provides an excellent product within a very competitive budget. It has been my pleasure to work with APD on numerous projects. I would highly recommend APD to any company in the need of architectural or engineering services."

Russ White
Director of Real Estate
ALDI Inc., Springfield Division

Executive Summary

APD designed a new ALDI Food Store that was being located in a mixed-use development in an urban area.

Challenges

Early during design, the Geotechnical Soils Report indicated the existence of poor soil conditions. The site was not going to accommodate ALDI's typical shallow foundation design.



The Solution

APD's Structural Team went to work on multiple designs to come up with viable solutions. By coordinating directly with the General Contractor they developed three alternate solutions for the client to price therefore avoiding the cost of drawing sets.

Alternate Solution 1

The first solution they designed was a deep foundation using caissons. This solution worked because it bridged the poor soils.

Cost: ~ \$500K – 650K

Alternate Solution 2

The second suggestion was a deep foundation with H-piles, which also bridged the poor soils.

Cost: ~ \$500K – 650K

Alternate Solution 3

The last solution, and the least economical of the choices, was to remediate the poor soils at the site and create a pad ready site, allowing for the typical shallow foundation. While the most expensive, this solution allowed the original prototype design standards to remain unchanged.

Cost: ~ \$1.25M

Results and Future Plans

With three viable solutions to choose from, the Client, General Contractor and Landlord Teams were able to weigh the pros and cons of each alternative and make an informed decision. They decided to use the H-pile solution, saving over \$500K, ultimately reducing the Owner's construction costs and allowing the project to be completed.

