# Riverside Smithfield Hospital

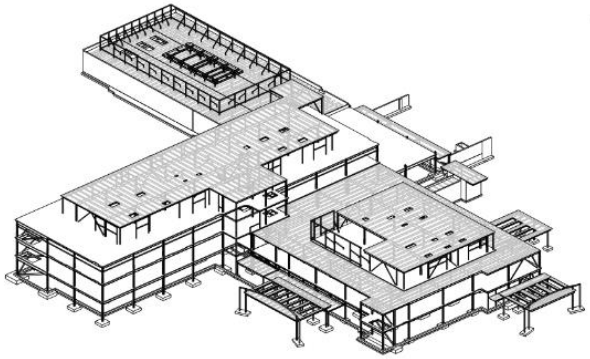
## Smithfield, VA

GeoVirginia March 19, 2025

# Project Information

- The proposed construction was a 2 to 3 story hospital in Smithfield, VA
- Structural steel framing
- Foundations designed for 6,000 psf bearing capacity
- Soil profile consisted of a coarse-grained alluvium deposit with pockets of soft clay, underlain by a fine-grained alluvium deposit, ultimately reaching the Yorktown Formation.







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# Project Development/Execution

- The project was issued for budgeting with Aggregate Pier support
- Keller reviewed the available preliminary information and suggested Rigid Inclusion support pending CPT data
- Discussions about the ground improvement approach were organized with the project team and the required data was provided

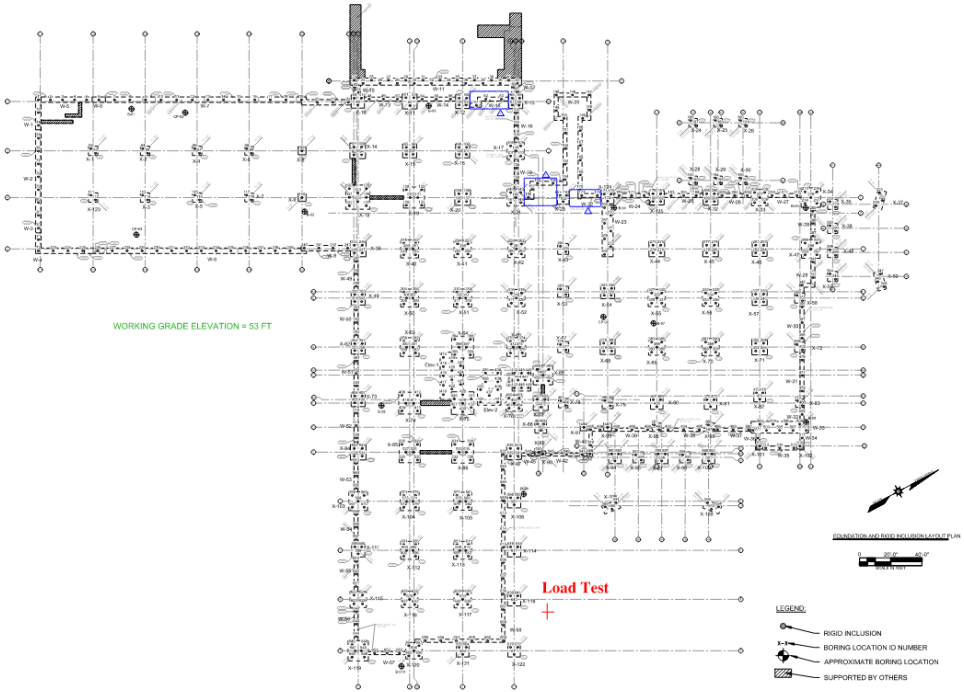




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# Project Development/Execution

- Keller reviewed the data and informed the project team that Rigid Inclusion support was technically feasible for the structure.
- Keller completed the installation ahead of schedule inclusive of load testing to prove the design assumptions.



# Takeaways

- Early involvement can lead to a successful project
- Keller will seek to provide the most appropriate technical option for any project

