Proven Foundation Solutions

Ground Improvement • Deep Foundation Piles • Peer Review & Design
Farrell’s Collaborative Process, Specialized Experience, and Proven Solutions Set Us Apart

At Farrell, we approach the project with a high awareness to the shared goals of our customers; be it the owner, the engineer, or the contractor. We collaborate with the project team to provide the best foundation solution that fits the owner’s overall project goal.

We Collaborate. Our Process:

Whether you’re an engineer needing to address poor soil conditions, a contractor wanting to expedite the project schedule, or an owner looking to save money, our specialized experience will help you achieve your desired results.

Farrell delivers proven foundation solutions to discerning owners and their teams in a responsive, honest, and passionate way to assure your projects Go Vertical with Confidence®!
Because you are a licensed geotechnical engineer, I can always count on your honest feedback and discussion regarding foundation solutions. With Farrell, we get a well-engineered solution that is reliable, appropriate, and will ultimately save our client time and money.

Frank L. Rollo
Principal Engineer
Langan Treadwell & Rollo

Farrell Design-Build began working with the design professionals on our projects only months before final DSA submission and your firm was able to assemble a complete set of documents and get them approved for use without delay.

Brendan Mullholland
Project Manager
McCarthy Building Companies Inc.

Farrell worked through the difficult site conditions after unusually heavy rains and brought value to the project because they could work on a less-than-perfect pad.

Duane Wray
Vice President
Regent Development

We collaborate. You succeed.
Farrell strives to build lasting relationships with engineers. Good partners listen first and we want to be your best partner.

We deliver value. You succeed.
Farrell delivers value with prompt responses, timely solutions, high safety awareness, equipment that gets the job done, and schedule focus that you can count on.

We support your goals. You succeed.
Farrell understands what owners want: investment satisfaction, realized goals, solutions to tough sites with no hassles, all for a good deal that’s on time.
# Foundation Systems and Services

Farrell specializes in proven, design-build, Ground Improvement Support and Deep Foundation Pile solutions. Farrell also provides design-build excavation support solutions, foundation design peer review, and specialty ground improvement and pile design services. Proven Foundation Solutions include:

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- **Diameter/Depth**
  - Auger Cast Pile & Drill Displacement Pile: 14, 16, 18, 24 in dia; 20 – 100 ft deep
  - Auger Cast Column™ & Drill Displacement Column™: 14, 16, 18, 24 in dia; 10 – 80 ft deep
  - Compacted Aggregate Pier & Compacted Soil Column: 18 – 48 in dia; 14 – 58 ft deep
  - Vibro Stone Column & Vibro Displacement Column: 5 – 8 ft dia; 6 – 48 ft deep
  - Rapid Impact Compaction & Rapid vibro Compaction: 4 – 14 in dia; 10 – 150 ft deep

- **Compatible Soils**
  - Auger Cast Pile & Drill Displacement Pile: Sand (SP, SM, SC), Silt (ML, MH), Clay (CL, CH), Contaminated Soil - DDP, Undocumented Fill
  - Auger Cast Column™ & Drill Displacement Column™: Contaminated Soil - DDC, Sand (SP, SM, SC), Silt (ML, MH), Clay (CL, CH), Silty Sand (SM), Undocumented Fill
  - Compacted Aggregate Pier & Compacted Soil Column: Silt (ML, MH), Clayey Sand (SC), Silty Sand (SM), Undocumented Fill
  - Vibro Stone Column & Vibro Displacement Column: Poorly Graded Sand (SP), Silty Sand (SM), Silt (ML), Clayey Sand (SC), Undocumented Fill
  - Rapid Impact Compaction & Rapid vibro Compaction: Sand (SP, SM, SC), Silt (ML, MH), Clay (CL, CH), Bedrock, Contaminated Soil HP

- **Bearing Capacity Range (ASD)**
  - Auger Cast Pile & Drill Displacement Pile: 100 – 800+ kips, 4,000 – 14,000 psf
  - Auger Cast Column™ & Drill Displacement Column™: 4,000 – 9,000 psf
  - Compacted Aggregate Pier & Compacted Soil Column: 3,000 – 8,000 psf
  - Vibro Stone Column & Vibro Displacement Column: 2,000 – 8,000 psf
  - Rapid Impact Compaction & Rapid vibro Compaction: 20 – 250+ kips

- **Key Advantages**
  - Deep pile with ground improvement - DDP
  - High capacity
  - No vibration
  - Low spoil - DDP
  - Steel reinforcement CBC compliant

- **Key Considerations**
  - Deep pile
  - Engineered grout
  - Low spoil - DDP
  - Concrete cleanup
  - Flat stable pad
  - Pile connections

- **Comparable To**
  - Auger pressure grouted piles
  - CFA Piles
  - Driven piles
  - Concrete piers
  - Torque/pipe piles

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