Go Vertical with Confidence®

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.

Frank L. Rollo
Principal Engineer
Langan Treadwell & Rollo

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.

Brendan Mullholland
Project Manager
McCarthy Building Companies Inc.

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.

Duane Wray
Vice President
Regent Development
## 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:

### DDP
1. **Auger Cast Pile & Drill Displacement Pile**
2. **Auger Cast Column™ & Drill Displacement Column™**
3. **Compacted Soil Column & Compacted Aggregate Pier**
4. **Vibro Stone Column & Vibro Displacement Column**
5. **Rapid Impact Compaction & Rapid Vibro Compaction**
6. **Micro Piles & Helical Piles**

### ACC
1. **Auger Cast Column™**

### CSC
1. **Compacted Soil Column & Compacted Aggregate Pier**

### VSC
1. **Vibro Stone Column & Vibro Displacement Column**

### RIC
1. **Rapid Impact Compaction & Rapid Vibro Compaction**

### MP
1. **Micro Piles & Helical Piles**

### CAP
1. **Auger Cast Column™ & Drill Displacement Column™**

### VDC
1. **Vibro Displacement Column**

### RVC
1. **Rapid Vibro Compaction**

### HP
1. **High-stiffness & High Capacity - Type 2**

### Key Advantages
- Deep pile with ground improvement - DDP
- **High capacity**
- **No vibration**
- Low spoil - DDP
- Steel reinforcement - CBC compliant
- **High stiffness & High capacity - Type 2**
- No vibration
- Low spoil - DDP
- Uplift-tension hold-down
- Well defined concrete/ground column
- Liquefaction mitigation
- **Cost effective support**
- Ready available material - CAP
- **LEED opportunity**
- **CBC/SP117 compliant**
- **Use for confinement**
- Low spoil
- **Highly cost effective**
- Liquefaction mitigation
- **Densification**
- **Use for confinement**
- Fast install process
- No spoil
- **Small equipment**
- **Ideal for repair/retrofit**
- Minimal site impact
- **Low spoil - HP**
- **No vibrations**
- **CBC compliant**

### Key Considerations
- Deep pile
- Engineered grout
- Low spoil - DDP
- **Concrete cleanup**
- **Flat stable pad**
- **Pile connections**
- **Impermeable**
- **Rigid inclusion**
- Gravel cushion
- Grout with low spoil
- **Concrete cleanup**
- **Flat stable pad**
- **Vibration system**
- Requires confinement in liquefiable layers
- **Spoil haul-off - CAP**
- **Semi-rigid inclusion**
- Casing
- **Moderate depth limit**
- **Vibration system**
- Requires confinement in liquefiable layers
- Soft clay need grout
- **Big operation for small site**
- **No work next to buildings**
- **Vibrations at 30 ft**
- Pod grading
- Import needed
- **Shallow depth - RIC**
- **High noise - RIC**
- **High material cost**
- **Steel below water**
- **Pile connections**
- Need access

### Comparable To
- Auger pressure grouted piles
- CFA Piles
- Driven piles
- **Concrete piers**
- **Torque/pipe piles**
- Rigid inclusions
- Concrete piers
- Driven piles
- Geopier®
- Soil mix columns
- Overex/replace
- Concrete piers
- Driven piles
- Geopier®
- Soil mix columns
- Overex/replace
- Concrete piers
- Driven piles
- Geopier®
- Soil mix columns
- Overex/replace
- **Concrete piers**
- **Geopier®**
- **Resonant Compaction**
- Deep dynamic compaction
- Overex/replace
- **Geopier®**
- Torque piles
- Pipe piles
- Concrete piers
- Driven piles
- Soil nails/tiebacks

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**Geopier is the registered trademark of Geopier Foundation Company.**

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