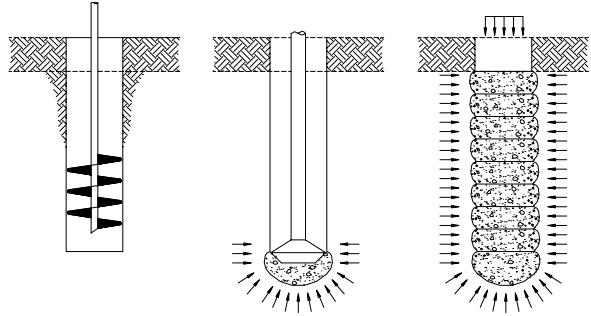


Technology

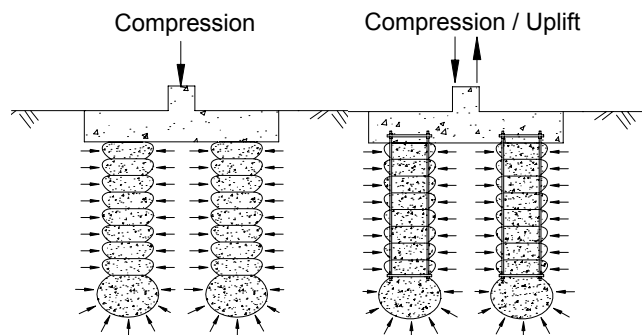
Geopier elements are constructed by drilling a cavity and ramming select crushed aggregate (stone) into the cavity in thin lifts. *Geopier* construction results in very dense aggregate piers used to support footings and reinforce soil and fill.



- A lift of clean, crushed stone is placed in the bottom of the cavity and rammed using the patented *Geopier* tamper to create a bottom bulb.
- Ramming of the bottom bulb vertically and laterally prestrains and prestresses the matrix soil.
- Thin lifts of well-graded or open-graded stone are placed in the shaft and rammed to form a pier with undulating sides.
- The beveled tamper and ramming action forces the stone laterally into shaft sidewalls, reinforcing and increasing the lateral pressure in the matrix soil around the pier.
- Prestressing results in high *Geopier* stiffness.

Applications – Commercial / Industrial

- Support shallow foundations and increase allowable soil bearing pressure typically from 5,000 psf to 10,000 psf.
- Control settlements uniformly to 1.0 inch total or less.
- Support industrial floor slabs and tank foundations.



- Resist seismic and wind uplift loads and lateral loads.
- Reduce liquefaction potential to depths of 30 feet.

15-story Office Building, Memphis, TN

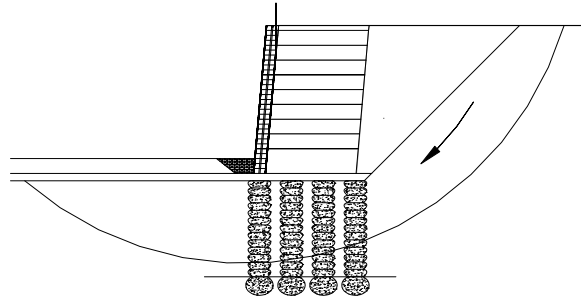


10-story Hotel, San Francisco, CA – Seismic Zone 4



Applications – Transportation

Liquid Storage Tanks, Houston, TX



- Support MSE and concrete retaining walls.
- Stabilize embankments and landslides.
- Support box culverts and transportation facilities.

Box Culvert / Embankment Support, Neola, IA



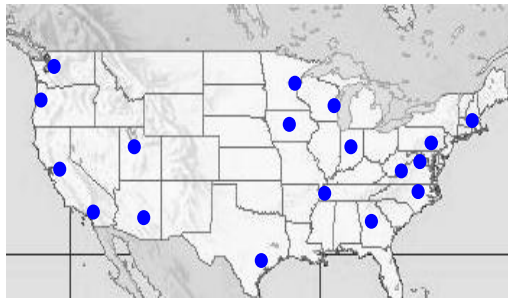
Advantages

- Cost effective solution often results in 20% to 50% savings compared to other ground improvement or foundation systems.
- Accelerated construction schedules.
- Outstanding settlement control and reliable long-term performance.
- Produces predictably high pier stiffness from 10 to 50 times greater than soil and fill.
- Seismic reliability, ductile behavior, uplift control.
- Environmentally safe and sustainable construction:
 - Low-impact noise/sound effects
 - Low-impact vibration effects
 - Use of recycled concrete / aggregate
- Delivered through a turnkey *design-build* process.
- Proven, patented soil reinforcement system supporting hundreds of commercial, industrial, and transportation structures worldwide since 1989.



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Delivering the Geopier® Foundation System
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