



Test Borings • Monitor Wells • Helical Piles Rock Coring • Underpinning

1.800.388.4473

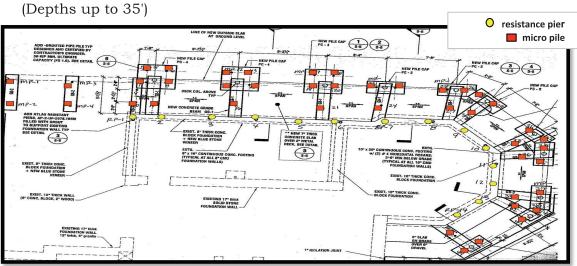
CT: 203 888 4531 NY: 914.946.4850 Fax: 203.888.6247

Technical Bulletin 2010

Foundation Settlement-Irvington, NY

Recent addition to existing 3 story residence- experienced severe settlement within 1½ years of construction

- Area of relatively minor settlement (less than 2") was underpinned utilizing 14 (35 kip capacity) resistance piers
- 2 1/8" dual sleeve pipe (grout filled) installed to depths up to 25' (top of rock)
- Area of greatest settlement (retaining wall and columns) was removed and replaced with new foundations
- Included installation of 45 (40 kip capacity) micro piles
- $4\frac{1}{2}$ " diameter micro piles advanced a minimum of 6' into bedrock





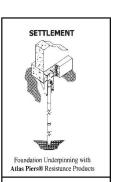
Installation of resistance pier



Load transfer/lift performed at pier

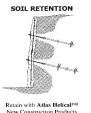


Micro pile load test





Slab Underpinning with Atlas Piers® Resistance Products



IEW CONSTRUCTION









Resistance pier installation complete

TECHNICAL BULLETIN 2010

NEW FOUNDATION - STRATFORD, CONNECTICUT

PROJECT INFORMATION

Problem: Highly compressible organic silts and fill soils to depths up to 18'

Solution: Installation of (18)10 ton capacity helical piles to depths up to 30'

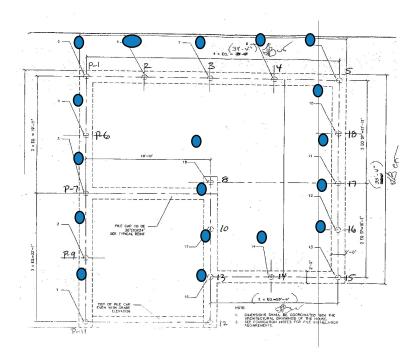
• $2\frac{1}{8}$ " (.262 wall) helical piles with 8" x 10" x 12" helical plate

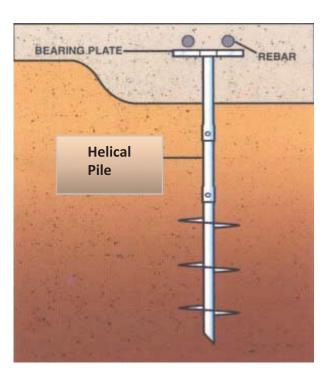
Installation time 2 days

Result: • Piles installed within 5 days of notice to proceed

• Foundation supported on good bearing strata with use of helical piles

helical piles





SUBSURFACE INVESTIGATION - WINDSOR LOCKS, CONNECTICUT

- Conducted 28 test borings to depths of 25 125' including piston tube sampling and rock coring for a total production of 3,000 linear feet
- Work was performed utilizing:
 - ATV mounted drilling equipment
 - Track mounted drilling equipment
 - Truck mounted drilling equipment





Please direct your inquiries to James A. DeAngelis at 1 - 800 - 388 - 4473