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SOILTESTING, INC.

140 OXFORD ROAD - OXFORD, CONN. 06478-1943



SOIL TECHNOLOGIES*

140 Oxford Road

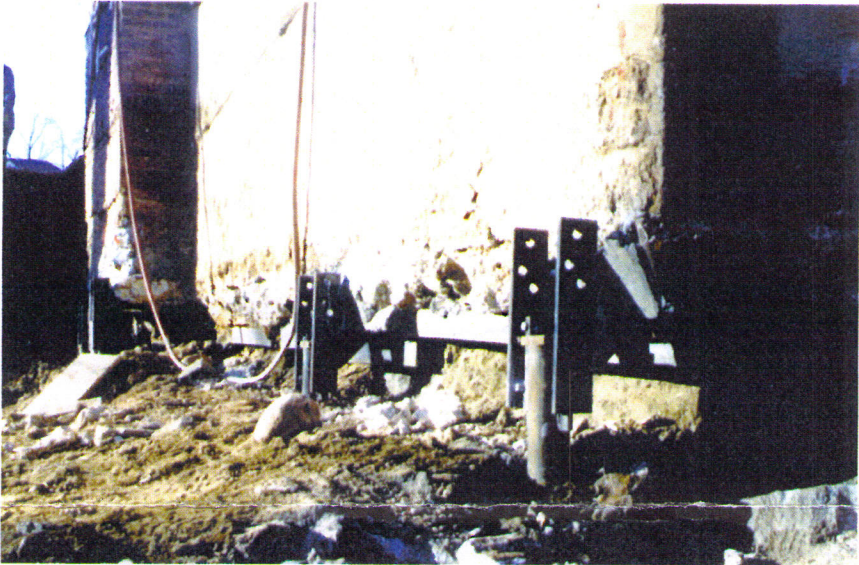
Oxford, CT 06478-1943

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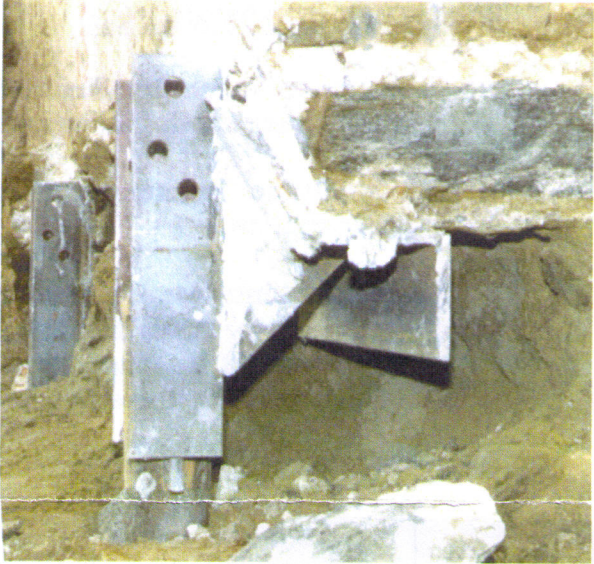
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* A DIVISION OF SOILTESTING, INC.

Irvington, N.Y. Underpinning Project



Exterior Piers Installed



Close-Up of Exterior Pier

SETTLEMENT

Foundation Underpinning with
Atlas Piers® Resistance Products

CRACKING

Slab Underpinning with
Atlas Piers® Resistance Products



Interior Pier Installation in Progress



Interior Piers Installed under Chimney

<p>SOIL RETENTION</p> <p>Retain with Atlas Helical™ New Construction Products</p>	<p>NEW CONSTRUCTION</p> <p>Support with Atlas Helical™ New Construction Products</p>	<p>UNDERPINNING & SHORING</p> <p>Underpinning with Atlas Piers® Resistance Products & Shoring with Atlas Helical™ Products</p>	<p>PIPELINE SUPPORT</p> <p>Support with Atlas Helical™ New Construction Products</p>	<p>EQUIPMENT SUPPORT</p> <p>Support with Atlas Helical™ New Construction Products</p>
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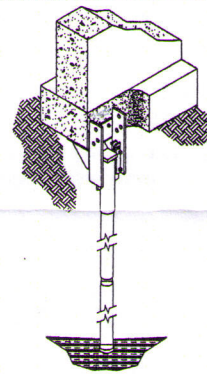
TECHNICAL BULLETIN

March 03

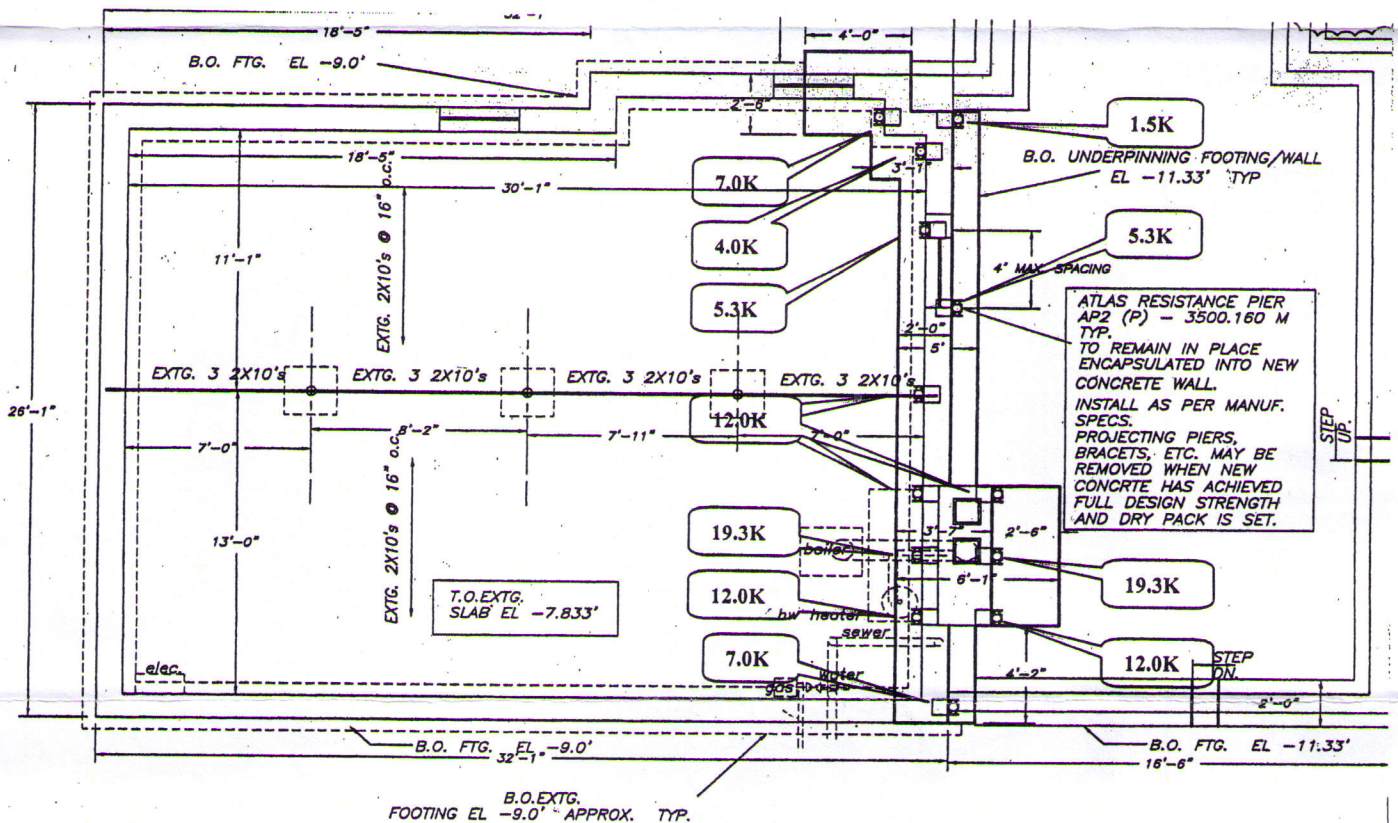
PROJECT: Underpinning
Residential Structure
Irvington, NY

PROJECT INFORMATION

1. Addition to 2 Story Residence in Irvington, NY required proposed basement finished floor grade 2½ ft. below existing adjacent basement finished floor grade.
2. Traditional segmented underpinning was expected to take approximately 25-30 days to complete.
3. Project time was reduced to approximately 11 days utilizing ATLAS Resistance Piers installed by SOIL TECHNOLOGIES, A DIVISION OF SOILTESTING, INC. Underpinning with ATLAS Resistance Piers allowed the contractor to excavate, form and pour new concrete along the entire length of the wall in one step.



Foundation Underpinning with
Atlas Piers® Resistance Products



- A total of Thirteen (13) ATLAS Piers were installed with preloads ranging from 1.5 to 19.3 kips.
- Seven (7) Piers were installed at interior locations within the basement, yielding only 7½ ft. of headroom.
- Six (6) of the thirteen (13) Piers with preloads ranging from 12 to 19.3 kips were installed to support a 35 ft. chimney.

Atlas Resistance Piers are commonly used to stop and reverse foundation settlement. Typical working loads for 2⅞" to 4½" diameter piers range from 30 to 55 kips.