PROJECT

Theodore Roosevelt Executive Building Long Island, New York

CLIENT

Robert Silman Associates New York, New York

Right: The Theodore Roosevelt Executive Building, originally called the Nassau County Courthouse, was constructed beginning in 1900 and used a patented system of twisted square steel reinforcement and voided concrete floors and walls.



PROJECT DESCRIPTION

Floor and wall investigations were performed with impulse radar (also called ground penetrating radar) and conventional eddy current metal detectors. In many cases, floor scans were supplemented by impulse radar ceiling scans conducted from the floor level below. Likewise, wall scans in some areas were conducted from both the interior and exterior sides of the wall.

Wall and floor thickness were determined using impulse radar and confirmed with physical measurements where possible. Wall solidity was determined from impulse radar measurements and fiber optic borescope observations in drilled holes.

SERVICES PROVIDED BY ATKSINON-NOLAND

The main objectives of this investigation were to:

- Determine the location and direction of framing members in certain floor areas of the building.
- Determine the type of floor structure (voided slab or solid) used in the various construction phases.
- Locate suspected voids and reinforcing in designated walls.



Atkinson-Noland & Associates Consulting Engineers www.ana-usa.com 2619 Spruce Street Boulder, CO 80302 303.444.3620 32 Old Slip, 10th Floor New York, NY 10005 917.647.9530