

## PROJECT

Mexican War Monument  
Nondestructive Evaluation and  
Stabilization  
Harrisburg, Pennsylvania

## CLIENT

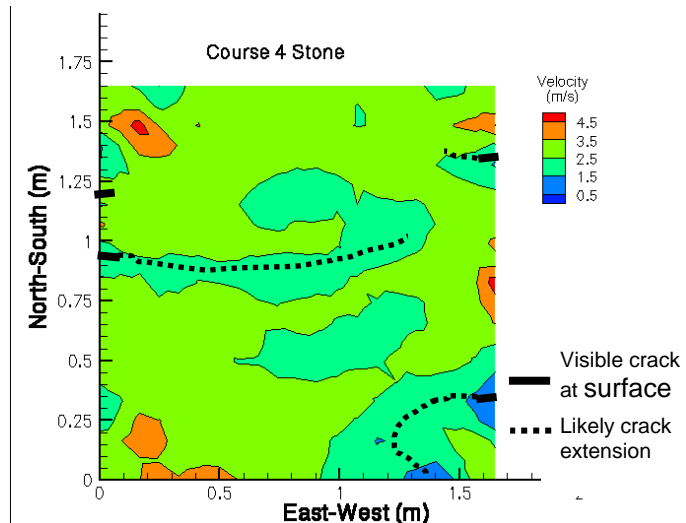
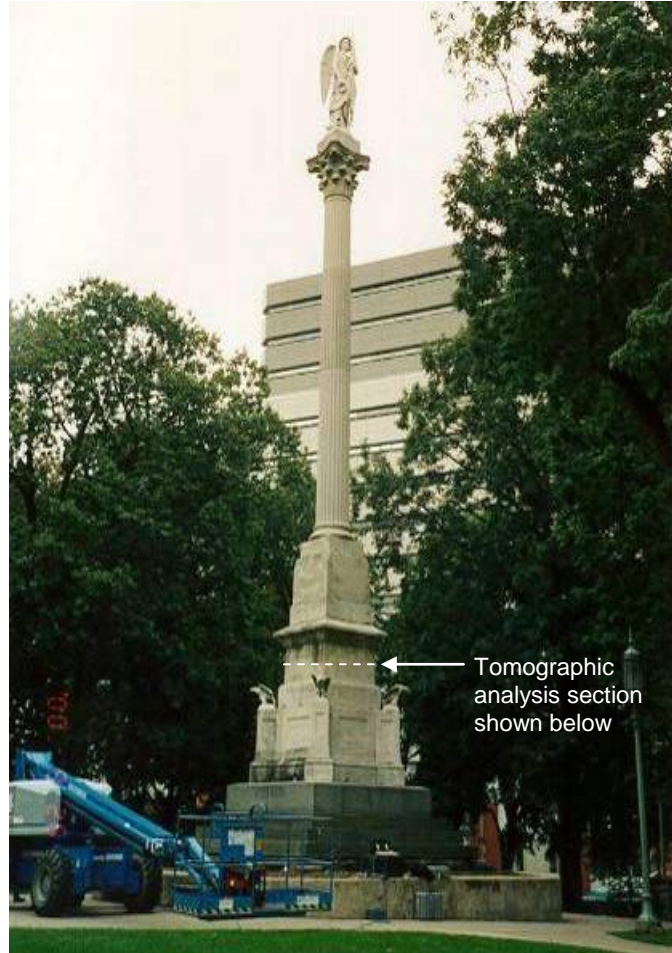
Integrated Conservation Resources,  
Inc.  
New York, New York

## PROJECT DESCRIPTION

A program of on-site investigative work was conducted to provide information in support of an ongoing conservation maintenance program of the Mexican War Monument, located on the grounds of the Pennsylvania State Capitol in Harrisburg, Pennsylvania. Nondestructive test methods were used to image monument stones to determine interior conditions and locate embedded metal and corrosion-related damage.

## SERVICES PROVIDED BY ATKINSON-NOLAND

- Detection of embedded metals using a pachometer
- Borescope inspection in joints and at areas of corrosion damage
- Ultrasonic pulse velocity testing and tomographic reconstruction of interior velocity profiles for crack characterization
- Microwave radar scanning to locate iron pins and determine pedestal panel thickness
- Provide conceptual repair recommendations, including emergency stabilization approach



*Results of tomographic analysis showing velocity distribution at a horizontal section through the stone. Cracks were shown to extend nearly entirely through the cross section and were in need of repair.*



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