# CASE HISTORY

## MRI Research Facility

An existing parking garage in Columbus, Ohio was renovated into an MRI medical research facility. Phillips Construction served as General Contractor, and Howard A. Perko, Ph.D., P.E. (Secure Engineer, Fort Collins, Colorado) was the Engineer of Record.



To support the new MRI equipment and facility upgrades, the project team selected MAGNUMreg helical and piering solutions. Dwyer Companies acted as the MAGNUM installer and provided the foundation construction.

## The Challenge

The renovation required new structural support for MRI equipment within an existing structure. The project needed both foundation elements and anchoring to stabilize and support the facility during conversion.



## The Solution

Dwyer Companies designed, engineered, and installed a combined MAGNUMreg system of helical piles, helical tie-backs, and resistance piers. The installed foundation work included:

- 39 Resistance Piers
- 40 Helical Tie-Backs
- 46 Helical Piles

This integrated approach provided the underpinning and anchoring required to support the MRI equipment and the renovated facility.



## Results

The installed MAGNUMreg helical piles, tie-backs, and resistance piers provided the required support for the new MRI equipment as part of the successful renovation to an MRI medical research facility.

## Highlights

Project Date: January 2005, Project: MRI Research Facility, Location: Columbus, Ohio, Engineer of Record: Howard A. Perko, Ph.D., P.E., Secure Engineer, Fort Collins, Colorado, General Contractor: Phillips Construction, MAGNUM Installer: Dwyer Companies, Resistance Piers: 39, Helical Tie-Backs: 40, Helical Piles: 46

## MAGNUM® Piering

A combined system of MAGNUMreg Helical Piles, Helical Tie-Backs, and Resistance Piers offered the versatility needed for a building conversion. By using complementary MAGNUMreg products, the project team delivered both underpinning and anchoring to meet the support requirements of the MRI research facility.

