



## Apartment Retaining Wall Repair

Misty Woods Apartment Complex: Charlotte, NC

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*Tieback Helical Piles Being Driven*

**Scope of Work:**

*Retaining Wall Repair*

**Design Engineer:**

*S A Engineering, P.A.  
Sael Abdulhadi, P.E.*

**General Contractor:**

*Empire Construction, Inc.*

**Foundation Contractor:**

*Mount Valley Foundation Repair Specialists*

In March of 2005, Empire Construction awarded Mount Valley a contract for the installation of 166 helical tie back anchors on a wooden retaining wall renovation project at the Misty Woods Apartments in Charlotte, NC.

Project engineer, Sael Abdulhadi, PE of S. A. Engineering, considered numerous options but chose Drive Rite™ 25000 series Helical Tie Back Piles over more commonly known square shaft products because of their superior strength and ease of installation.

In an effort to prevent any soil loss or collapse, the project engineer required the existing decaying wall

be left in place, with the new helical tie backs installed through it. A new pressure treated wall was to be built 10" forward of the old with the void being filled with #57 stone.

Mount Valley installed all 166 tie backs throughout the complex in 5 days with only a four man crew. This added precious time back to Empire construction's crucial and tight schedule.

Mount Valley's Crew Chief contributed to the fast production rate of the uniquely designed, infinitely adjustable threaded terminations. Unlike the older style competitors' square shaft material that had to be terminated within a few inches, the



*Retaining Wall Under Construction*

Drive Rite system allows for up to 60" to find the proper and final installation torque and termination which made the installation procedure smooth and efficient.

**Headquarters**

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