

CLIENT:

# The Hagerman Group



## Project Overview

Notre Dame Stadium underwent its latest round of renovation work involving the removal and replacement of a concrete wall around the perimeter of the football field. The wall was badly deteriorated and the stadium owners were concerned about the stands behind the wall giving way.

In order to anchor the wall to the soils below, 230 holes had to be drilled around the perimeter of the field and through a 36-inch-wide tunnel and its interior wall directly under the stands.

## Process

Because the holes had to penetrate two walls, 36 inches apart, on a 35-degree angle to install the soil pins, accuracy and consistency were important. Diamond ruled out the possibility of drilling 230 holes on the exterior wall and another 230 through the interior wall in a confined space. Instead, Diamond employed 8-foot-long drill bits 10 inches in diameter to complete both holes in one long pass.



# Outcome

The cutting and coring work was completed on time, within budget, and with a high level of safety throughout. Daily meetings were held to address any safety concerns and plan for the day's work. All employees were supplied with the necessary personal protective equipment and used several layers of clothing to combat the cold. Temperatures were between 15 and 20 degrees at night, and all drills, hoses, and pumps used were carefully drained and cleaned to avoid damage from the freezing conditions.

Geoff Day, project manager for Diamond, reports: "Our guys went about the work very professionally, which gave The Hagerman Group, the general contractor, great confidence in our abilities. We were very satisfied with the outcome and the representatives from Hagerman were very pleased."

## Our Promise

As a "customer-first" company, Diamond is widely recognized as a process and technology leader. It provides subsurface imaging (ground penetrating radar—GPR) services to satisfy the needs of knowledgeable customers throughout the country who demand immediate and safe solutions, within budget, and on time. As only one of a few companies in the industry where all operators are OSHA and CPR Certified, Diamond provides customers with the assurance of a safe operational environment. Proven knowledge and expertise, immediate availability, safety, on-time completion, and continuing innovation makes Diamond the sensible choice for GPR services.

For more information on how Diamond can meet all of your subsurface imaging needs call, 1.800.968.3745 or email [info@diamondsubsurfaceimaging.com](mailto:info@diamondsubsurfaceimaging.com).

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