

CASE STUDY

GUIDED AUGER BORING | WATER & SEWER



Project Name:

Iowa DOT Paving and Grading I-380



Prime/Sub Contractors:

Boomerang Corp. – Anamosa, IA



Location:

North Liberty, IA



Owner:

Iowa Department of Transportation



Ground Conditions:

Stiff clay conditions



Akkerman Equipment:

Model 240A GBM System with P4075D Power Pack. Akkerman HP Lube System and GBM Guidance System



Pipe:

Multiple sizes



Total Length/Longest:

200 LF

PROJECT OVERVIEW

Boomerang Corp. performed guided auger boring operations for the Iowa DOT I-380 Paving and Grading project in North Liberty, Iowa. The work required the installation of underground utilities beneath active roadway infrastructure with an emphasis on maintaining precise line and grade control.

Following delivery of the Akkerman 240A GBM System, the crew rapidly mobilized and completed an initial pilot tube installation on the first day of operation. Utilizing guided auger boring technology, Boomerang achieved efficient setup and execution while maintaining alignment accuracy in clay ground conditions.

THE CHALLENGES

- Rapid mobilization and deployment of new equipment on an active project site
- Maintaining line and grade accuracy beneath roadway infrastructure
- Working in stiff clay conditions requiring controlled excavation
- Achieving efficient installation within a limited project timeframe

THE SOLUTION

- Utilized the Akkerman 240A GBM System to establish precise pilot tube alignment
- Integrated guidance systems to maintain accurate line and grade control
- Leveraged lubrication systems to improve bore efficiency in clay soils
- Executed streamlined setup and installation procedures to accelerate production

OUTCOME

- Successfully completed a 200 LF pilot tube installation on initial deployment
- Achieved accurate line and grade control using guided auger boring methods
- Demonstrated rapid mobilization and effective use of new equipment
- Maintained efficient installation performance in stiff clay conditions
- Supported timely progress of the Iowa DOT roadway infrastructure project

