

# CASE STUDY

## METAL ART MUSEUM

### MEMPHIS, TN

#### SLOPE STABILIZATION



### PROJECT SUMMARY

When gabion baskets failed to prevent continuous slope failure on the hill behind the Metal Art Museum, a solution was needed to provide permanent slope stabilization. It was critical that the slope be stabilized against both global and surficial failure. In order to provide a geotechnically sound alternative, soil nails were used to stabilize the deep seated failure and the ARMORMAX® 75 Engineered Earth Armoring Solutions™ was chosen to provide surficial stability. With its combination of the High Performance Turf Reinforcement Mat (HPTRM) and Engineered Earth Anchors™, this system provided a dynamic erosion control and slope stabilization solution and allowed for shorter and less soil nails to be used than originally designed. The HPTRM is engineered with X3® Fiber Technology which locks in seeds and moisture, promoting rapid root mass development allowing the slope to vegetate quickly.



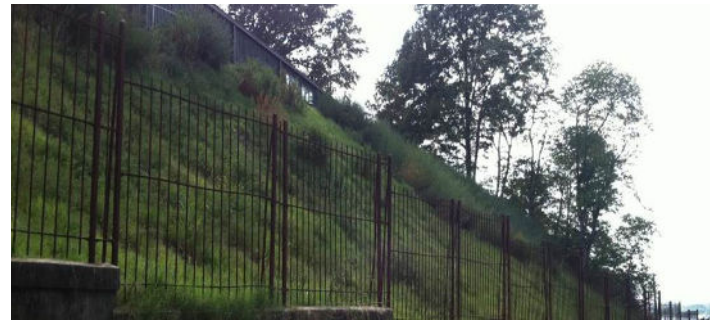
**PROBLEM** Gabion baskets were failing to provide stability at the Metal Art Museum



**SOLUTION** ARMORMAX and soil nails stabilize against surficial and global failure



**INSTALLATION** ARMORMAX was installed, complementing the use of soil nails



**PERFORMANCE** Vegetation established quickly providing an esthetically pleasing and geotechnically stable slope

### FEATURES & BENEFITS

- Outlasts other slope reinforcement methods yielding significant cost savings
- Reinforces vegetation to provide a natural, aesthetically pleasing solution
- Ease of installation reduces time and labor costs
- Lightweight and easily transported into area with access challenges
- Provides permanent erosion protection for up to 75 years
- Provides resistance to shallow plane slope instability



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