



# Case History

**Cutting Edge  
Technology &  
Unparalleled  
Performance**

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**Specializing in:  
Deep Foundations  
Shoring Systems  
Micro Piles**

## Problem:

The Metro Link Transit System was expanding its Missouri route to include Manchester, Clayton, Kirkwood and Webster Groves areas. During this process a hillside cut back into a vertical position was required to enable concrete to be installed for track placement and to help prevent slope failure onto the tracks.

## Solution:

Helitech® made necessary modifications to the hillside utilizing the shotcrete shoring system. This involved excavating the embankment in 5 to 6 foot vertical cuts. The process was broken into multiple tiers working from top to bottom, allowing construction on one tier at a time, insuring that each tier wall was installed correctly. A. B. Chance soil screws were installed horizontally into the soil for soil stabilization first, then Hydroway® drainage system was placed behind and adjacent to the wall, Helitech® then applied a four inch thick layer of concrete across the wall face to prevent soil from sloughing and being exposed to the elements.

## Resolution:

Helitech® completed the shoring, allowing Metro Link to pour a permanent concrete retaining wall and install the tracks. Helitech® offered an effective solution to retain the soil during the excavation activities for this project.



## Helitech Memberships:

