

Strecker Road Emergency Repair of Caulks Creek

City of Wildwood, Missouri



Streambank erosion along Caulks Creek was threatening Strecker Road, just north of a major intersection with Clayton Road. The City of Wildwood, concerned by the rapid progression of a 30-foot tall, vertical bank moving towards the road, commissioned a panel of experts from the Natural Resources Conservation Service (NRCS), Wright Water Engineering and Intuition & Logic to evaluate the problem. They were selected for their expertise and their extensive knowledge of the Caulks Creek Watershed. The team agreed that the erosion could progress to the road within one or two years, and that immediate action was necessary to prevent continued bank erosion was necessary.



Intuition & Logic designed the interventions, prepared construction documents and obtained the necessary permits for construction. The final design

rebuilt the eroded bank, relocated the channel back to its original location and restored a stable channel geometry. The lower bank was restored and stabilized with a vegetated composite revetment. The upper bank has been planted with native riparian vegetation. Stream energy is managed through the restored reach with two rock grade controls, one at each end of the project, and four stream barbs along the toe of the slope. These structures will deflect the flow away from the bank and toward the center of the channel, thereby relieving stress on the toe and bank.

Construction for the project is scheduled for early 2007.

