



Clean Water. Healthy Life.

# BEST PRACTICES *for* STORMWATER MANAGEMENT IN METROPOLITAN KANSAS CITY

## STREAM RESTORATION

Stream Restoration, 83rd Terrace & Rosehill, Lenexa, Kansas

### Goals

The primary goals of this project were to prevent flooding, improve water quality, and stabilize severely eroded streambanks.

### Description

This project addressed flooding and streambank erosion on a tributary of Little Mill Creek between Rosehill and Pflumm. A variety of stabilization techniques were applied, including stacked stone, gabions, and coir logs. The entire stream corridor was planted with native trees, grasses, and wildflowers. The project also included construction of a 4-acre lake and wetland detention pond within a 27-acre park that was purchased for this project.

### Community Benefits & Lessons Learned

Project benefits include environmental improvements achieved through stabilization of the stream to prevent further degradation, and improved water quality through filtration. Public participation and education has been a critical component, with numerous meetings and visits to the stream corridor with homeowners. A Homeowners Guide to maintenance of the natives also has been developed.

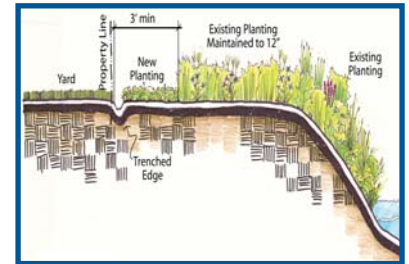
The City of Lenexa completed this restoration project in 2003 with the installation of native plant species that would stabilize the streambank while filtering stormwater runoff. The natives thrived so well, given a rainy summer and homeowner fertilization, they exceeded their projected height. This became a real concern for the residents who own lots adjacent to the corridor. The City conducted workshops with the residents to identify the issues and solutions. Final solutions included: maintaining plant height of 12 inches along the top of the streambank and providing a transition zone between the resident lots and the project.

### Funding Sources and Partnerships

City of Lenexa Division of Public Works  
Johnson County, Kansas (SMAC)  
Patti Banks Associates-revised landscape plan  
Larkin Group, Inc.-Design Engineer  
Rieke-Contractor

### Contact

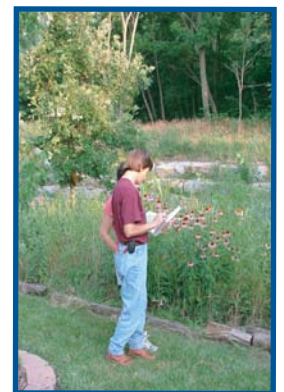
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*Input from residents was used to help define issues and find solutions.*



*A transition zone provides a defined edge between yards and the stream restoration project.*



*Residents were trained on how to spot weeds versus desirable native vegetation.*