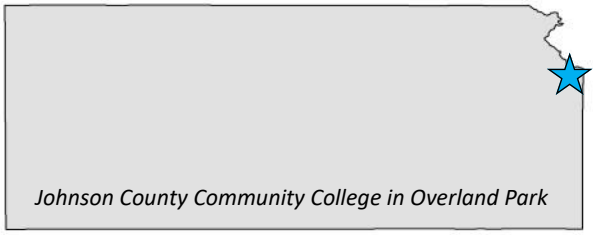
Johnson County Community College: Urban Stormwater Management Project

Project description: The project implemented green infrastructure/nonpoint source pollution control practices within the Johnson County Community College campus, including a series of bioswales, bioretention cells, extended dry detention basins, and native plantings areas. The goal of the project was to treat stormwater runoff from approximately 11.5 acres of existing impervious areas (surrounding parking lots and driving surfaces) with a series of best management practices, including a constructed wetland.

Project location: Campus of Johnson County Community College, Overland Park, KS

Project sponsor: Johnson County Community College

Project partners: Burns & McDonnell and landscape architects Bowman Bowman Novick.



Johnson County Community College in Overland Park

Project funding: Funded with ARRA (American Recovery & Reinvestment Act) funds through the EPA (U.S. Environmental Protection Agency) and administered through the Kansas Department of Health and Environment (KDHE) and the Kansas Water Pollution Control Revolving Fund (KWPCRF). The college provided a 20 percent match for a grand total of $700,000.

Construction completed: November 2010

Key green infrastructure components:

- Bioswales
- Bioretention Cell
- Extended dry detention basins
- Constructed wetland
- Permeable sidewalks
- Native Vegetation (50,000 plants)
- Manufactured filtration units

Environmental benefits:

- Provides filtration of surface runoff entering the basin
- Infiltrates and reduces flow velocities while providing pretreatment for stormwater runoff
- Filters and removes sediments and pollutants from the stormwater