KC GREEN INFRASTRUCTURE

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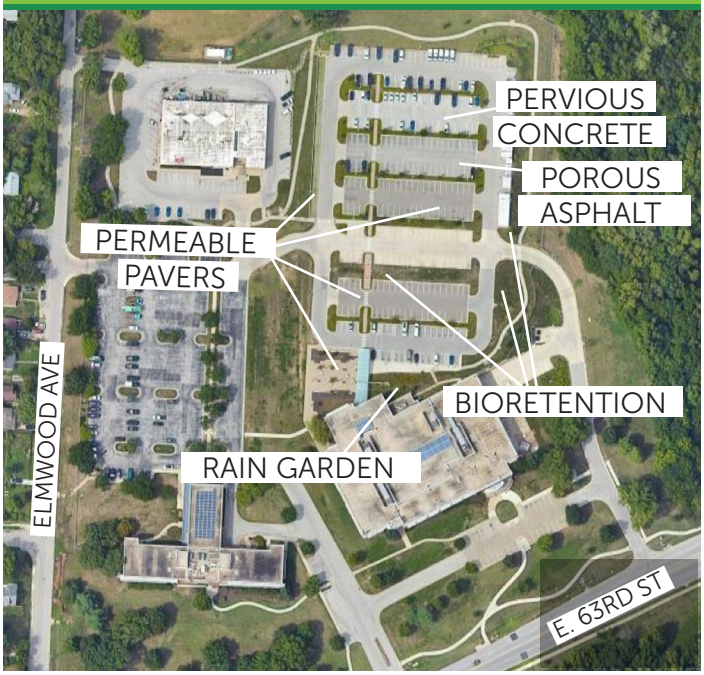
SWOPE CAMPUS GREEN INFRASTRUCTURE SITE

Green infrastructure helps our community manage stormwater the way nature intended by capturing and utilizing rainwater where it falls. This project located at the KC Water and KC Parks headquarters replaced traditional pavement surfaces that create runoff with green infrastructure that absorbs and filters stormwater from the surrounding parking lots and rooftops. It also replenishes groundwater and sustains plants, trees, and natural habitats while working with gray infrastructure to increase the capacity of our underground pipes.

Project Area



Project Snapshot

- **Details:** This project is located at the KC Water and KC Parks & Recreation Headquarters, Swope Campus. The site features a sustainable parking lot showcasing a variety of permeable pavers, porous asphalt, and pervious concrete with rain garden and bioretention areas throughout
- **Investment:** This project was completed in 2015 for approximately $3,700,000.

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WHAT DOES THIS SITE DO?

GREEN INFRASTRUCTURE decreases the amount of water getting into our pipes, improves water quality, and reduces flooding, pollution, and trash in our creeks, streams, and rivers. The Swope Campus green Infrastructure site includes:

- Permeable pavers, pervious concrete, and porous asphalt parking lots demonstrate how impervious surfaces capture stormwater. The water moves through layers of gravel below the lot and then soaks into the ground. Excess water is carried away through a perforated pipe and slowly released back to the sewer system.
- Bioretention basins are filled with plants to help absorb excess stormwater from rooftops, sidewalks, and streets. Layers of rock and soil store the water. A buried underdrain system drains the excess water, controlling the slow release of water back to the sewer system.
- Rain Gardens are similar to bioretention basins, but focus more in infiltrating excess stormwater through the use of deeply-rooted plants and layers of rock and soil to absorb and store water.

KCWATER