

## CASE STUDY



### PROJECT DETAILS

**Project Name:**

The Sugar Creek  
Greenway Trail

**Location:**

Des Moines, IA

**General Contractor:**

RW Excavation Solutions

**Engineer:**

Snyder & Associates

**Product Manufacturer:**

County Materials  
Corporation

**Date:**

2021

**Key Products:**

Box Culvert

## County Materials' Concrete Box Culverts Provide Sustainable and Efficient Flood Mitigation Solution

**Solutions:** Box Culverts contribute to sustainability in trail expansion project

The Sugar Creek Greenway Trail is part of the Five Waters Project in Des Moines, IA. The four-mile stretch will connect the Raccoon River Trail to the Jordan Creek Trail. The 12-foot-wide trail follows the Sugar Creek corridor and can accommodate future expansion in surrounding communities.

Project leaders wanted to improve storm water management along the trail to reduce flood risk. Using an environmentally friendly design was a priority. County Materials' 8' x 5' Box Culverts were selected by the West Des Moines Parks and Recreation Department to divert the nearby creek's water flow.

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Concrete box culverts are a durable product with an extended service life that can exceed 100 years. Throughout their life cycle, precast concrete products require minimal maintenance and can resist fire, tearing, buckling and rust. The box culverts' larger size offers increased flow capacity, efficiently mitigating storm water.

County Materials' Box Culverts were delivered on site ready to install, offering significant cost and time savings. Concrete box culverts proved ideal for the Sugar Creek Greenway Trail project and will help preserve the trail over time.



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