

## CASE STUDY



### PROJECT DETAILS

**Project Name:**

University of Notre Dame  
Hydroelectric Plant

**Location:**

South Bend, Indiana

**Project Architect:**

Michael J Burns

**General Contractor:**

R&R Excavating

**Product Manufacturer:**

County Materials  
Corporation

**Date:**

2020

**Key Products:**

Precast Box Culverts

## County Materials' Precast Box Culverts Help University Achieve Sustainability Goals

**Solutions:** Precast contributes to sustainability initiatives for hydroelectric plant

The University of Notre Dame is a nationally renowned private university located in South Bend, Indiana. As one of the largest organizations in the South Bend community, Notre Dame University has made significant efforts to create a more sustainable and green campus through their Sustainability Strategy Goals, which outlines the university's plan to provide at least 10 percent of its energy through renewable and recoverable energy sources.

As part of this sustainable initiative, the University of Notre Dame set its sights on constructing a hydroelectric dam that is expected to offset nearly 9,700 tons of carbon dioxide annually and generate nearly seven percent of the university's energy needs, taking a big leap towards their renewable energy goal. The University of Notre Dame and the City of South Bend worked together to design and construct a 2.5-megawatt hydroelectric generating facility that will stretch across the St. Joseph River.

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Engineered and manufactured to withstand harsh underground environments, precast box culverts proved as an ideal solution for this hydroelectric facility. County Materials manufactured nearly 140 16'x14' precast box culvert sections for the facility. Each precast component was manufactured to specifications, eliminating the need for on-site cutting and additional preparations. This afforded the project the efficiency needed to meet its tight construction schedule.



County Materials contributed to the success of this notable project by manufacturing reliable precast solutions that ensure longevity and reduced life cycle costs. The University of Notre Dame's hydroelectric plant is expected to open in the summer of 2021.



// *County Materials' precast box culverts aided in the timely completion of the University of Notre Dame's hydroelectric plant.* //