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## CASE STUDY

Cane Run Pump Station | Jeffersonville, Indiana

### Indiana Community Uses BILCO Products In New \$6 Million Pump Station

Two communities in Indiana know all too well about the impact of flooding of their lifestyle. They are hoping a new pump station will alleviate the problem.

The Clarksville-Jeffersonville Flood Control District built the Cane Run pump station, a \$6 million project that replaces a station that had been operational for more than 70 years. But the station had been underperforming for decades. The Army Corps of Engineers recommended an upgrade to the station in the 1960s.

Both communities sit in southern Indiana along the Ohio River, just across the border from Louisville, Kentucky.

Flooding occurs when the Ohio River reaches elevated levels after heavy rainfall. When the water level in Cane Run Creek Basin exceeds 427 feet, water backs up and causes flooding in Colgate Park and some nearby parking lots. Overflows occur an average of 22 times every six months, according to the Indiana Department of Environmental management.

Sometimes, the flooding was devastating. In 2011 and 2015, flooding cost several businesses and homeowners more than \$1 million in property damages. The flooding also forced the closure of several streets in Clarksville, creating concern for emergency responders.

"The issue is that the pump station does not come on until there's already been significant flooding and Colgate Park is under water," Town Council President Paul Fetter told the Courier Journal newspaper.

The new pump station will push water along through three 250 horsepower vertical turbine pumps that can pump 16,000 gallons per minute. The output measures 58 cubic feet per second, while the previous building could only pump out 28 cubic feet per second. The project also includes the installation of three 30-inch diameter ductile force main discharge pipes, each at 700 linear feet, with a common outfall structure.

The station will send water to a 16-acre ponding area. The area takes about a month to fill during non-rain events and is located between the flood wall and the northwest corner of Colgate Park. The large ponding area allows rainwater to be absorbed into the soil.



The project includes three roof hatches for access to the vertical turbine pumps, two floor doors that lead to a lower trough and a LadderUP safety post. Midwest Metal Works provided the doors for the project through BILCO's distributor in the region, Welling Inc.

"We know the BILCO products are good and Thieneman (the project contractor) was able to get them at a good price," said John Buckwalter, superintendent of the Flood Control District.

BILCO products are selected for many projects related to the water industry due to the corrosion resistant materials, which ensure years of dependable service. They are also engineered with compression spring operators to provide one-hand operation and automatic hold-open arms that lock the covers in the open position to ensure safe egress.

The D-50 roof hatches are also commonly used in projects that require removal and installation of large pieces of equipment. The hatches are available in steel, aluminum and stainless steel, and can be custom fabricated for individual projects.

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