

Huron County ODOT SR 601 Culvert Replacement

Norwalk, Ohio

Culvert

Owner:

Ohio Department of Transportation
(ODOT)

Engineer:

Ohio Department of Transportation
(ODOT)

Contractor:

ADENA Corporation

Installation:

October 2020



In Huron County, an older storm culvert needed replacement along State Route 601 near Norwalk, Ohio. The Ohio Department of Transportation (ODOT) reviewed options and selected a HEL-COR® CMP culvert manufactured by Contech Engineered Solutions to replace the existing, deteriorated culvert. HEL-COR® CMP was an approved product and would meet both the structural and sizing requirements.

To fit within the current culvert location while allowing the roadway above to match the existing elevation, a polymer-coated pipe arch shape was selected. The HEL-COR® pipe arch would meet the large opening with shallow cover necessary to meet both the hydraulic requirements as well as the site limitations.

ODOT was pleased as the HEL-COR® pipe arch solution was the most cost-effective solution to meet the sizing and durability requirements for the project. Additionally, the local Contech representative provided on-site assistance during installation to ensure that everything went smoothly. The HEL-COR® pipe arch was supplied with unrolled ends along with a flat band and thick gaskets for a better fitting joint. This was done as opposed to a typical rerolled end and hugger band based on previous experience with large pipe arch and heavy gage polymer coated pipe.

Contech was also able to manufacture the HEL-COR® pipe arch in two 42-foot section so that only one joint was needed, increasing the ease of installation for the project contractor, ADENA Corporation.

Technical Description:

- Product: HEL-COR® Polymeric 5x1 10 GA Polymer-Coated Pipe-Arch
- Diameter: 137" x 87"
- Length: 84 LF



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Kenton Smith from ADENA Corporation, commented, “The HUR – 601 ODOT project required the replacement of an existing storm culvert pipe with a 137” x 87” pipe arch. The spec called for a pre-coated galvanized pipe which Contech was able to quickly supply to our project. Working with their product was easy and efficient to meet the schedule of the project.”

