Beaver River Bridge Replacement

Beaver County, PA

Project Description

The Beaver River Bridge carries the PA Turnpike Mainline over the Beaver River in Beaver County, Pennsylvania. The project consists of two new parallel cast-in-place segmental bridges that will replace a steel deck truss bridge built in 1953. The new eastbound and westbound bridges will be 1,645’ in length and will feature 385’ spans. The concrete box girder superstructures for each bridge are 73’ wide and vary in depth from 10’ at mid-span to 21’ at the piers. Pier heights reach nearly 200’ and are comprised of solid base pedestals, transitioning to twin wall piers. The segmental box girder superstructures will be built in balanced cantilever using self-advancing form travelers.

Owner
Pennsylvania Turnpike Commission

Contractor
Fay S&B USA Construction

Designer
Hardesty & Hanover, LLC

Our Role
McNary Bergeron is providing construction engineering for a cast-in-place balanced cantilever bridge using self-advancing form travelers. Construction Engineering services include cantilever erection manuals, integrated shop drawings, geometry control, falsework, independent review of equipment, and support during construction.

Total Contract Value
$294M

Timeline
2022-2027

Construction Method and Specifications
Balanced Cantilever using Form Travelers