Henley Bridge

Knoxville, TN

CrThe Henley Bridge connects South Knoxville and the Chapman Highway to downtown Knoxville. The original bridge, built in 1931, was classified as structurally deficient with deteriorated concrete decks over each of the four main spans, and deteriorated floor beams. The bridge does also did not meet current safety standards.

The main arches and piers of this bridge were reconditioned and salvaged while the deck, sidewalks, railings, girders, floor beams, spandrel columns to the top of the existing concrete arches, upper portions of the abutments and piers, wing walls, and roadway approach slabs were replaced. Epoxy-coated reinforcing steel (ECR rebar) was used in the restoration.

The rehabilitated bridge provided for five total lanes of vehicular traffic, two bike lanes and sidewalks.

Team

Owner:
Tennessee Department of Transportation

Concrete Contractor:
Britton Bridge, LLC

Design Criteria:
– Repair historic bridge meet current safety standards.

– Reuse portions of structure where possible.

Total Project Cost: $31 million

Total Size:
LENGTH: 1795 ft

WIDTH: 70 ft

Epoxy-coated Reinforcing Steel:
1,404 tons

Photography:
Tennessee Department of Transportation