

Veterans Memorial Bridge

Bath, ME

Project Description

The existing Veterans Memorial Bridge was built in 1954 to connect Portland's West End to South Portland over the Fore River and carries over 22,000 vehicles per day. The replacement bridge will be built on a new alignment in the vicinity of the existing structure. Maine DOT utilized a "best value" scoring process for its selection of the design-build team that took into account the technical value of innovations and features of the design and construction concepts as well as the cost of the project.

Owner

Maine Department of Transportation

Contractor

Reed & Reed, Inc.

Designer

T.Y. Lin International

Our Role

McNary Bergeron & Associates was part of the design-build team providing construction engineering services including:

- Constructibility review of the superstructure design providing recommendations on segment layout, PT details, introduction of details to save time in fabrication and erection, and alternative erection procedures and sequences to facilitate erection and maximize efficiency of equipment.
- Design of temporary works including stabilization falsework, closure beams and lifting assemblies.
- Geometry control system including casting software for precast segments.
- Step by step erection manuals.
- Integrated shop drawings for precast segments

Total Contract Value

\$63.1 million

Timeline

February 2010 - December 2012

Construction Method and Specifications

- Precast concrete segmental variable depth box girder superstructure.
- CIP substructure founded on driven pipe piles.
- Built using the balanced cantilever method with barge mounted cranes.
- Segments are cast using the short-line precasting method.
- Twin bridges with span lengths up to 250' joined with a CIP closure strip between structures.
- Total deck width of structure ranging from 82.5' to 94.5'.

