



CHALLENGE

Perform NBIS inspections, structure evaluations and inspection reports for two complex interstate bridges with a two-month completion window.

IDOT needed detailed planning, coordination, bridge inspection, structure evaluation, and inspection reports for these complex structures on the interstate highway system with a two month completion window from notice to proceed to completing the reports.

SOLUTION

HLR staff completed the NBIS inspections for the two non-identical four-lane complex bridge structures carrying I-72 over the Illinois River. The 12-span, 3,329.5-foot eastbound structure and the 11-span, 3,203.5-foot westbound structure both have large single box precast post-tensioned concrete superstructures on solid stem piers with pile-supported footings. HLR provided field inspection, structural condition evaluation, scour inspection and report preparation. All planning and external coordination required for the inspection was completed by HLR staff.

To complete the project, HLR provided planning and coordination with:

- IDOT Central Bridge Office
- IDOT District 6
- The U.S. Coast Guard
- Illinois State Police

Being complex interstate structures, the inspections presented unique challenges. Hands-on access to all bridge components required the use of a reach-all truck, a boat with sonar, and confined space entry techniques. HLR provided timely and effective coordination of the inspection needs with the various government agencies and supporting contractors.

RESULTS

HLR provided a safe and economical bridge inspection on major structures to meet the Federally-mandated inspection timeframe. The project was completed on time and under budget with no delays or safety issues.



EAST BOUND I-72 STRUCTURE INSPECTION