

Project Highlights



Dayton Expressway Bridge
After Construction

LPA Projects - Dayton Bridges: Construction Inspection Paul Lawrence Dunbar Bridge Creek Replacement Dayton Expressway Bridge Replacement

City of Dayton, Ohio

Owner/Client:

City of Dayton
Department of Public Works
Division of Civil Engineering
101 West Third Street
Dayton, Ohio 45401

Project Completion Date:
2008

Project Description:

Barr & Prevost was selected by the City of Dayton to perform construction inspection and paint inspection services for the Dayton Expressway Bridge and the Paul Lawrence Dunbar Bridge. Barr & Prevost inspectors were onsite to ensure that the contractor complied with ODOT material specifications. Our inspectors continually monitored the contractor's compliance with ODOT LPA regulations. James Larch (Lead Inspector), Frank Martin, PE (Weld Inspector) and Michael Ohanian (Paint Inspector) served on the construction inspection crew for both replacement projects.



Deck Pour
Dayton Expressway Bridge Replacement

The emphases of the Dayton Expressway Bridge replacement construction inspection was the weld inspection of the built-up girders, paint inspection and inspection of the concrete deck placement. Construction challenges inherent in this project and identified for specific oversight included:

- Construction of the decorative railing and pilasters, which entailed the check and review of shop drawings, and inspection of the ornamental railing at the fabrication shop.
- Pre-inspect dimensions of the formwork before the pour for the concrete parapet.
- Picking and setting the box beams: Order in which contractor set spans could overstress new beams. Our crew ensured the new beams were not overstressed under the crane outriggers.
- Abutment diaphragm construction. Ensured that extended strands were long enough for adequate bond length. Inspected vibration of concrete to make sure there are no air voids in the diaphragm concrete.



Paint Inspection
Dayton Expressway Bridge



Mike Ohanian and Frank Martin
Conducting a Weld Inspection
Dayton Expressway Bridge