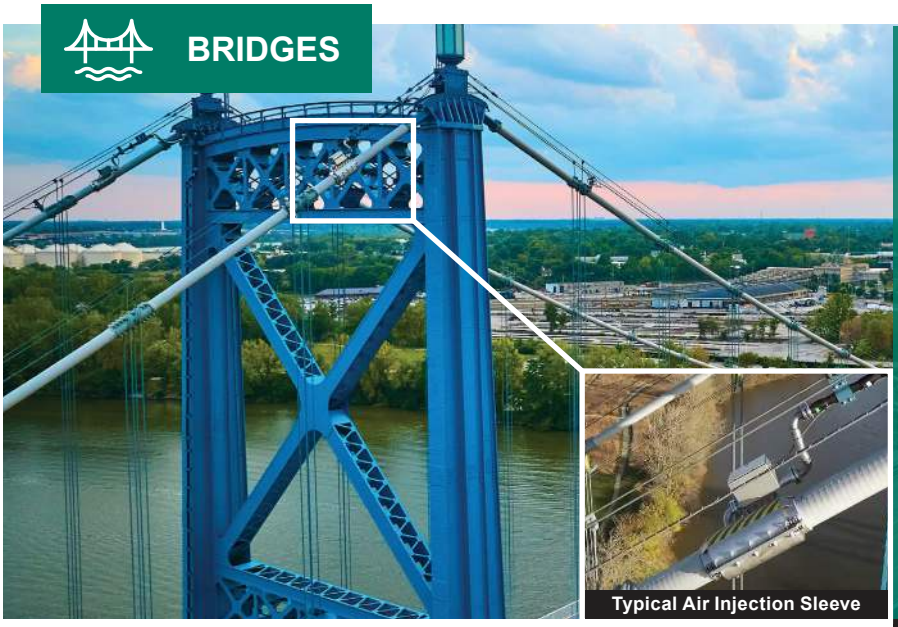
D.S. BROWN®

Project Highlight

REV 05/25

BRIDGES



Typical Air Injection Sleeve

> ODOT: “Rust is the biggest enemy of the actual cables.” The dehumidification system in combination with Cableguard™ keeps the cables dry inside and prevents rust from forming.

Anthony Wayne Bridge

Dehumidification System and D.S. Brown’s Cableguard™ Elastomeric Wrap combine to preserve and protect the Anthony Wayne Bridge

Anthony Wayne Bridge is a 3,218-foot-long suspension bridge in Toledo, Ohio. Officials wanted the humidity levels in the cables to go as low as possible. Once humidity levels fall below 40 percent, corrosion stops.

To protect the entire length of the main cables and strands in the anchorages, a dehumidification system was selected as the means to extend the life of the cables. The project cost $11.5 million, a sizable investment, however “it’s less expensive than replacing the entire structure.”

The dehumidification system along with Cableguard™ Elastomeric Wrap, provides protection for the main cables, including the splayed strands in the four anchorages. Encompassing them with an airtight and weatherproof seal allows a continuous flow of dry air.

PRODUCTS USED

Cableguard™ Elastomeric Wrap
is a long-life elastomeric wrap that protects suspension and stayed bridge cables from corrosion and reduces maintenance expense.

INSTALLATION

2018 – 2020

Toledo, Ohio

OWNER

- Ohio Department of Transportation

CONSTRUCTION TEAM

- American Bridge

STATS

- Maumee River crossing Toledo, Ohio
- Complete cable wrap with dehumidification system – 3 ply reinforced
- Cable diameter – 14.0 inches
- Applied Cableguard™ thickness - 0.090 inches
- Designated a historical civil engineering landmark - American Society of Civil Engineers (2022)
- 1930 construction: Two largest steel girders made in the world were hoisted above the river and placed (154 feet long, 12 foot high, 83 tons each)

Bridge the World with Leading Infrastructure Solutions

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