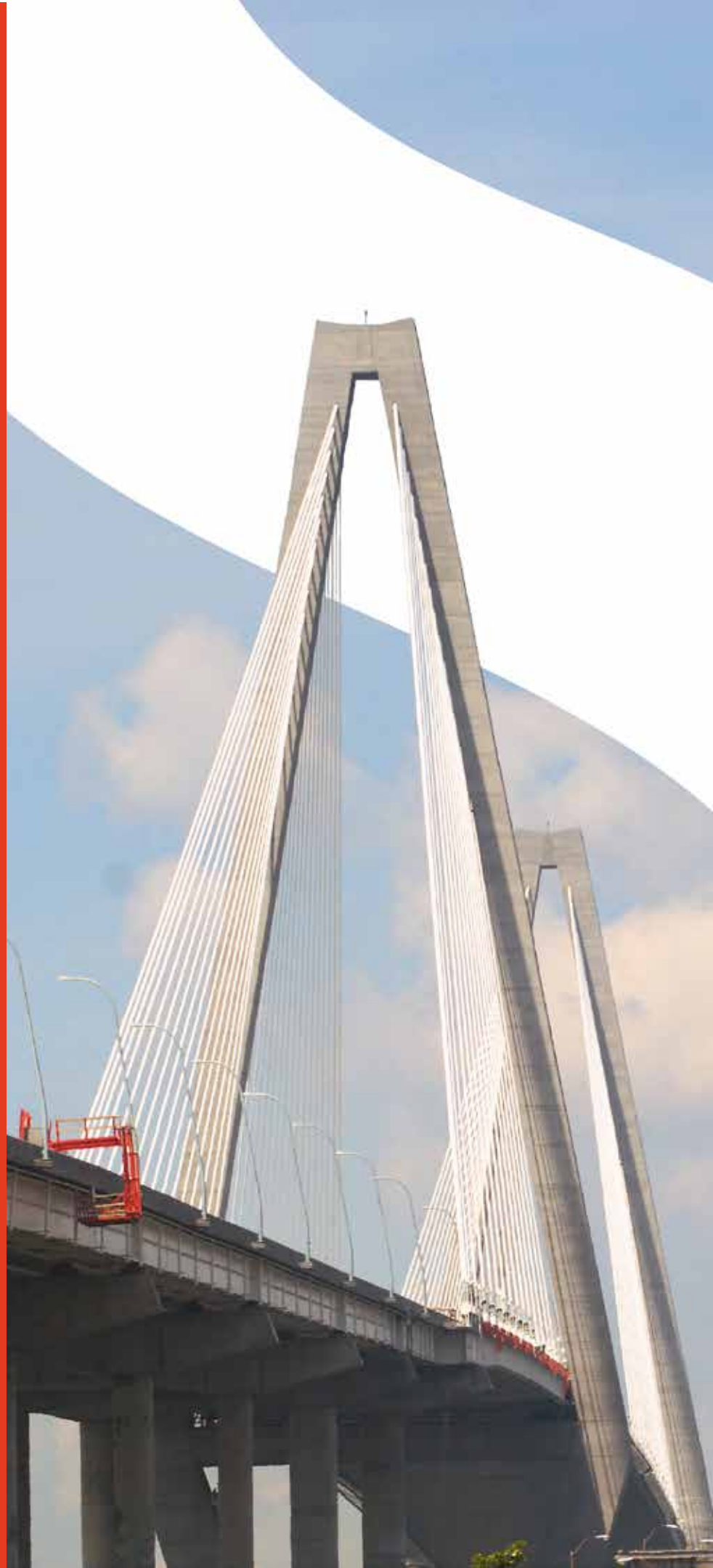


Bridges

Signature Crossings



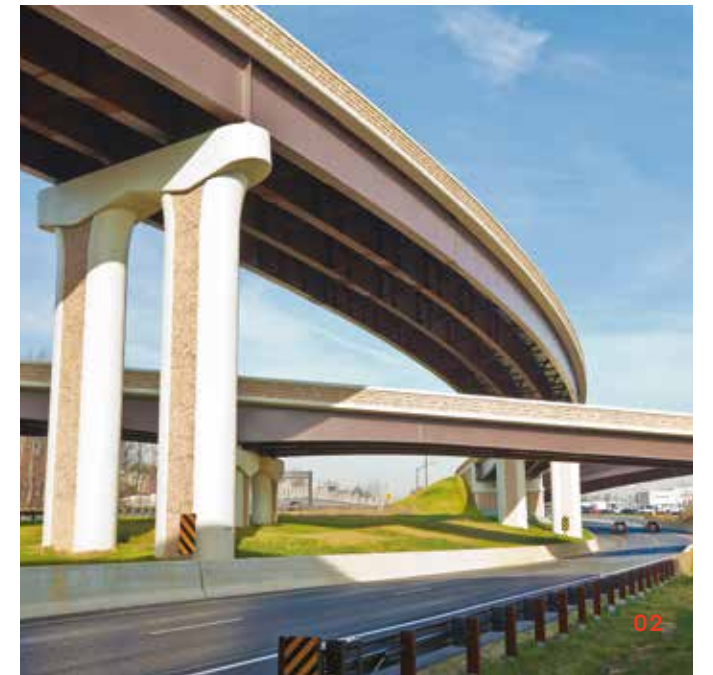
Bridges: From Inception to Inspection

WSP USA (formerly WSP | Parsons Brinckerhoff) has led the development, rehabilitation and inspection of thousands of bridges across the U.S. for more than a century. These structures reliably move automobile and train traffic, often as part of larger road and rail systems. Many are iconic structures that are admired for their monumentality and grace, serving as symbols of their communities. To every bridge project—whether a routine viaduct over a roadway or an awe-inspiring span of a mighty river—WSP brings the same commitment to excellence that has characterized our work on some of the world’s most notable bridges.

Capabilities

Our capabilities are comprehensive, ranging from feasibility studies and environmental permitting, through preliminary and final design, to construction management and inspection. We offer specialized services such as seismic retrofit and rehabilitation design in addition to overall program management on behalf of an owner. Our experience includes steel and concrete bridges, as well as state-of-the-art thermoplastic and fiber-reinforced polymer (FRP) bridges. We have designed and managed the construction of all types of bridges as well as multi-level highway interchanges.

Our assignments range in size and scope from simple studies and assessments to complex multibillion-dollar multidisciplinary efforts—and in every case we are committed to responding to our clients’ needs with cost-effective, sustainable solutions that promote safe and efficient travel.



01 Pearl Harbor Memorial Bridge
New Haven, Connecticut

02 Intercounty Connector
Maryland



03 American Tobacco Trail Bridge
Durham, North Carolina

04 DFW Connector
Dallas/Fort Worth, Texas

Our Capabilities

From feasibility studies through operations, WSP's bridge specialists serve clients with an array of services to guide any type of bridge project from conception to completion.

Expertise in All Types of Bridges

Long-span

- Cable-stayed
- Suspension
- Arch
- Truss
- Extradosed

Movable

- Bascule
- Lift
- Floating
- Swing

Segmental

- Concrete, Steel and Composite
- Precast and Cast-in-Place
- Post-Tensioned

Bridge Asset Management

- Strategic Planning
- Management and Process Optimization
- Financial and Economic Controls and Forecasting
- Engineering Design, Analysis, Inspection, Testing/Evaluation
- Data Management
- Risk Management
- Bridge Inspections

Specialty Expertise

- Accelerated Bridge Construction
- 3D Modeling and Bridge Information Modeling (BrIM)
- Bridge Materials and Service Life Design
- Bridge Research and Specification Development

Comprehensive Services

Planning & Environmental

- Environmental Impact Statements
- River and Tidal Behavioral Studies
- Traffic and Revenue Studies
- Conceptual Design
- 3D Visualization

Design

- Preliminary and Detailed Design
- Design-build Documents
- Value Engineering
- Advanced Structural Analysis
- Linear and Non-Linear Analysis
- Post-Tensioned Concrete Analysis
- Failure/Forensic Analysis
- Earthquake Engineering/ Seismic Retrofit
- Ship Collision Studies
- Geotechnical and Hydraulic Analyses
- 3D and Bridge Information Modeling (BrIM)
- Third-Party Quality Review

Program and Construction Management

- Construction Engineering
- Contract Administration
- Quality Assurance/Quality Control
- Project Controls
- Constructability Review
- Claims Management
- Cost Estimating
- Resident Technical Inspection
- Inspection and Rehabilitation
- Value Engineering

Inspection, Maintenance and Operations

- Condition Inspections
- Rating and Evaluation Studies
- Traffic Maintenance Plans
- Design for Emergency Repair
- Design for Rehabilitation
- Preservation Management Plans
- Structural Health Monitoring
- Non-Destructive and Remote Testing and Inspection
- Staged Replacement Plans





Pensacola Bay Bridge
Pensacola, Florida
Design



Kosciuszko Bridge
New York, New York
Planning; Design; Construction Services



Pulaski Skyway Rehabilitation
Jersey City, New Jersey
Design



John A. Blatnik Bridge
Duluth, Minnesota
Inspections; Design; Asset Management



Gerald Desmond Bridge
Long Beach, California
Program and Construction Management



Bayonne Bridge Navigational Clearance Project
Bayonne, New Jersey and Staten Island, New York
Planning, Design and Construction-Phase Services



East Span, San Francisco-Oakland Bay Bridge
San Francisco, California
Civil and Roadway Design



Evergreen Point Floating Bridge (SR 520)
Seattle, Washington
Program and Project Management Services; Preliminary Engineering; Constuction Oversight



I-4/Selmon Expressway Connector
Tampa, Florida
Designer, Engineer of Record



Verrazano-Narrows Bridge
Brooklyn and Staten Island, New York
Biennial and Special Inspections



John's Pass Bridge
Madeira Beach, Florida
Environmental, Preliminary and Final Design Services



Bronx-Whitestone Bridge
Bronx, New York
Biennial and Special Inspections; Feasibility Study;
Construction Management



Veterans Memorial Bridge
Daytona, Florida
Design



I-5 Skagit River Bridge Replacement
Mount Vernon, Washington
Design



Bear Tavern Road and Jacobs Creek Road Bridges
Mercer County, New Jersey
Design



I-95/I-295 North Interchange
Jacksonville, Florida
Designer, Engineer of Record



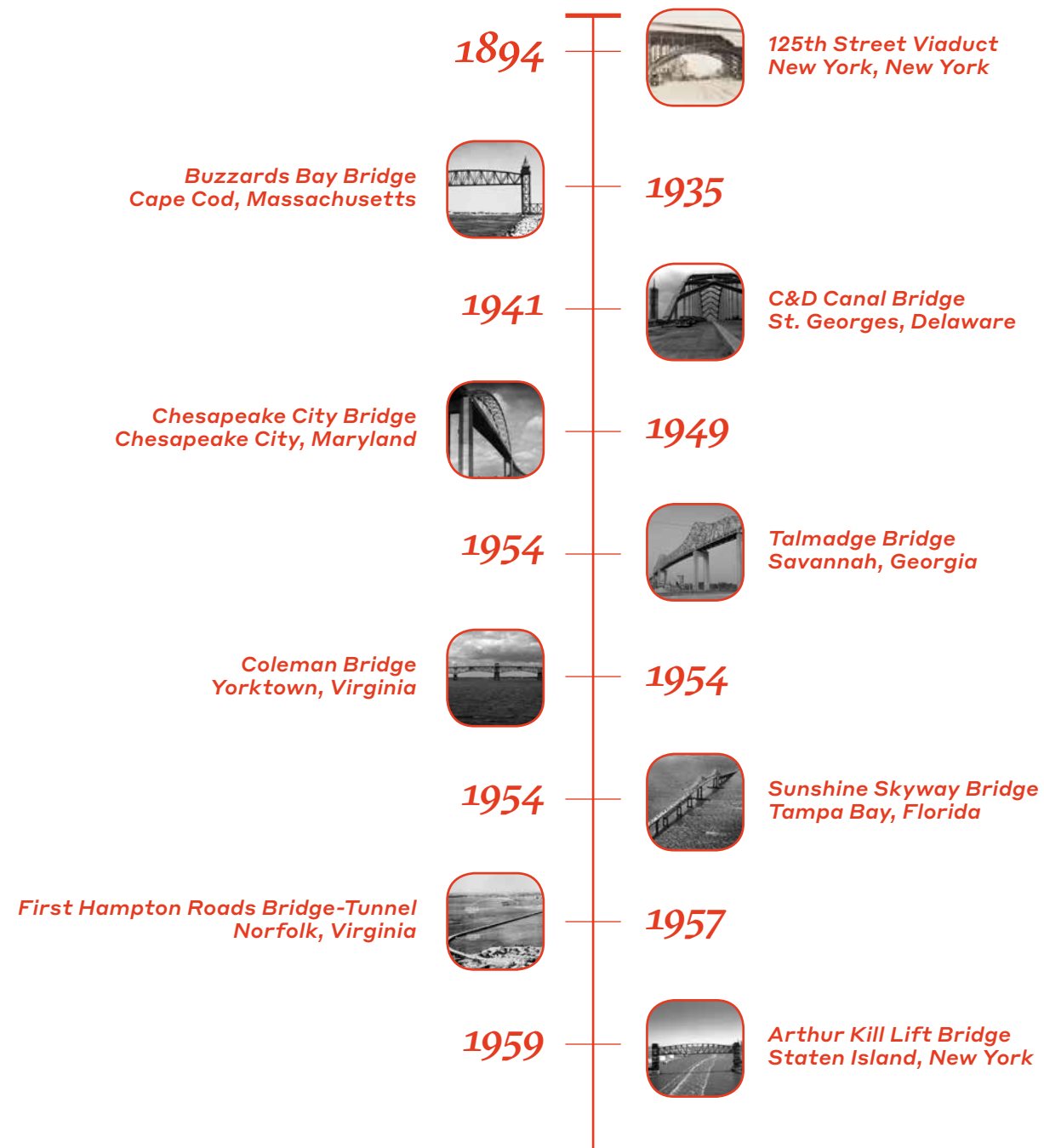
Wells Street Bridge Rehabilitation
Chicago, Illinois
Construction Engineering



Gilmerton Bridge
Chesapeake, Virginia
Construction Engineering and Inspection

More than a Century of Bridge Engineering

WSP has designed some of the most iconic bridges in the United States since the firm's founding in 1885. Many have become household names, well known to generations of travelers. In some cases WSP worked on the original structure as well as a replacement structure several years later, and the firm has worked for many of the same clients for decades.





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About WSP USA

WSP USA is the U.S. operating company of WSP, one of the world's leading engineering and professional services firms. Dedicated to serving local communities, we are engineers, planners, technical experts, strategic advisors and construction management professionals. WSP USA designs lasting solutions in the buildings, transportation, energy, water and environment markets. With more than 7,000 people in 100 offices across the U.S., we partner with our clients to help communities prosper. www.wsp.com