

113

years of history in complex structures engineering and construction

LIMITLESS
future

Suspension Bridges
Cable Stay Bridges
Arch Bridges
Truss Bridges
Movable Bridges
Girder Bridges
Railroad Bridges
Bridge Rehabilitation
Marine Construction
Specialty Structures



American Bridge

Brochure **2013**



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OVERVIEW

American Bridge is a vertically integrated construction, manufacturing and engineering, company that is the industry leader in technical capability, innovation and profitability.

The company specializes in technically and logistically complex projects of all sizes. It develops unique and innovative engineering methods for the erection of cable supported, movable, arch, truss and other complex structures, and for the repair, retrofit and maintenance of bridges of all types.

American Bridge is a high value added organization that self-performs the majority of the contracts it undertakes. Projects include bridges of all types and coastal marine construction. The company also manufactures a range of structural steel and precast concrete products, as well as specialized erection equipment.

Contract types primarily include lump sum, design-build, general contracting and supply only. The company is also involved with the pursuit of PPP (public/private partnership) and O & M (operations and maintenance) contracts. American Bridge Company operates throughout the United States and on select projects worldwide.

American Bridge serves the stable and steadily growing transportation infrastructure, military and industrial markets.

Major project types undertaken:

- cable supported, movable, truss, arch, girder and railroad bridges
- bridge rehabilitation and reconstruction
- coastal marine construction projects including passenger, bulk freight, and container ship terminals, marina developments, marine foundations of all types, sub-aqueous pipelines, intakes, outfalls, dams and hydrological structures, as well as other miscellaneous marine construction
- manufacture of new steel bridges of all types and components for steel bridge rehabilitation

OPERATING UNITS

American Bridge is organized into district operating units according to geographic focus and/or specialty. This organization ensures that top management stays close to its customers, and develops strong competence in its geographic or specialized operating environment. However, the operating units are bound by a common strategy of engineering innovation, self-development of skilled personnel, self-performance of field construction tasks and the highest ethical standards. www.americanbridge.net

Corporate Headquarters

1000 American Bridge Way, Coraopolis, PA 15108 - 412-631-1000

American Bridge Manufacturing

2000 American Bridge Way, Coraopolis, PA 15108 - 412-631-3000

135 American Bridge Way, Reedsport, OR 97467 - 541-271-1711

Strategically located on both sides of the U.S. to fabricate steel bridges and their components; delivery via truck, barge and rail

Midwest District

1000 American Bridge Way, Coraopolis, PA 15108 - 412-631-1000

7301 West 129th Street, Suite 130, Overland Park, KS 66213 - 913-948-5800

1100 West 31st Street, Suite 230, Downers Grove, IL, 60515 - 603-493-9410

Complex bridge and marine construction projects in a broad region of the central U.S. with a principal focus on the Great Lakes region and the inland waterway system including the Ohio, Missouri, and Mississippi Rivers and their tributaries

New York District

1 Bridge Plaza, Suite 340, Fort Lee, NJ 07024 - 201-592-1200

Bridge and marine construction projects in the New York City metropolitan area, including the metropolitan portions of New Jersey and Connecticut

Richmond District

7401 Beaufont Springs Drive, Suite 301, Richmond, VA 23225 - 804-327-9540

Bridge and marine construction projects on the eastern seaboard - from Maine to Georgia (excluding the New York City metropolitan area)

Special & International Projects

1000 American Bridge Way, Coraopolis, PA 15108 - 412-631-1000

Large domestic bridge construction projects delivered under alternative delivery systems, i.e., public/private partnerships or design/build and projects outside of the U.S.

Tampa District

5430 West Tyson Avenue, Tampa, FL 33611 - 813-254-4127

Bridge and marine construction projects in the gulf coast from Florida through Texas, Central America and the Caribbean

Western District

375 Burma Road, Oakland, CA 94607 - 510-808-4600

Bridge and marine construction projects in California, Washington, Oregon, Nevada, Utah, Arizona and New Mexico

BUSINESS DESCRIPTION

American Bridge specializes in the manufacture, erection, and rehabilitation of complex bridges and other structures. The company also has strong marine construction capability; including bridge foundations, ports, harbors, and all aspects of underwater and heavy concrete construction.

American Bridge has a highly focused business development strategy. The most attractive prospects are those that enable cost advantage from innovative construction methods. The company uses specialized in-house engineering to develop unique equipment and methods that drive down the cost of complex structures and marine projects. Engineers are supported by a library of over 100 years of project specific designs and methodologies, one of the largest such resources in the world. The company further controls costs by selective self-manufacture, equipment ownership, self-perform field supervision and skilled labor.

American Bridge pursues projects as a prime contractor, design-build contractor, joint venture partner, specialty subcontractor, and for material supply only. The company is also an AISC (American Institute of Steel Construction) Advanced Certified Steel Erector.

American Bridge excels at the construction and rehabilitation of cable supported bridges, movable bridges, steel truss bridges, steel and concrete arch bridges, heavy marine works, and any other types of structures that benefit from advanced construction engineering skills. The company owns equipment, and equipment designs for a wide variety of specialized erection tasks.

Major project types undertaken:

Suspension Bridges

Cable Stay Bridges

Arch Bridges

Truss Bridges

Movable Bridges

Girder Bridges

Railroad Bridges

Bridge Rehabilitation

Marine Construction

Specialty Structures

HISTORY



AMERICAN BRIDGE COMPANY LOGO, CIRCA 1900

American Bridge has a legendary history. Founded as a JP Morgan-engineered merger of 28 bridge and structural companies in 1900, the company immediately operated on an unprecedented scale. American Bridge established the practicality of steel as the basic product in large scale infrastructure including bridges, buildings, power and water transmission, and military facilities.

As a result, it's dozen or so factories, hundreds of construction engineers and thousands of skilled workers played a dominant role in the development of the infrastructure of the United States and many other countries.

Operating as a part of United States Steel Corporation from 1901-1987, American Bridge had significant roles in the establishment of the railroad networks of the United States, Kenya, Alaska, Brazil, Norway, Korea, Panama, Peru, Mexico, Japan, Columbia, Guatemala and the Philippines. It supplied over 607,000 tons of fabricated steel for the construction of New York City's subway system between 1913 and 1931 – an average of 33,000 tons per year.

Crossings constructed to date:

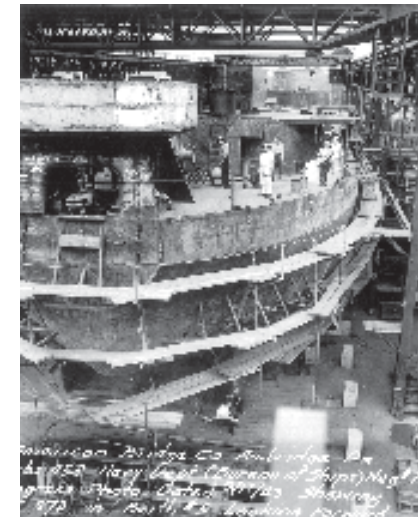
Mississippi River and tributaries - 55
Columbia River and tributaries - 14
Hudson/Harlem/East River system - 13
Delaware River - 6
Chicago River - 8
Niagara/St. Lawrence system - 4

Major open water crossings:

New York Harbor (Verrazano Narrows Bridge)
Long Island Sound (Bronx Whitestone Bridge and Throgs Neck Bridge)
Chesapeake Bay (Chesapeake Bay Bridge and Chesapeake Bay Bridge Tunnel)
Tampa Bay (Sunshine Skyway Bridge)
San Francisco Bay (San Francisco-Oakland Bay Bridge, Carquinez Bridges and the new San Francisco-Oakland Bay Self Anchored Suspension Bridge)
Puget Sound (Lake Union Bridge)
Corpus Christi Bay (Corpus Christi Harbor Bridge)
Burrard Inlet (Lions Gate Bridge)
Great Lakes (Straits of Mackinac Bridge, Duluth Superior Interstate Bridge, Blue Water Bridge, Sault Ste. Marie Bridges)

American Bridge played significant roles in the construction of the Kennedy Space Center, the Intercontinental Ballistic Missile System, the Panama Canal, the Alaska Pipeline and the Southern California Water Supply System.

During World War II, the company constructed 119 LST's (landing ship tanks) in 942 days, turning out one of the 328', 1,625 ton ships every eight days. AB also built components for 12 aircraft carriers, in addition to fabricating hundreds of thousands of tons of structural steel for aircraft, steel and other defense plants.



One of 119 LST's constructed by AB

Major overseas projects:

Hercilio Luz Bridge, Brazil
Parana Railroad Bridge, Brazil
Santa Lucia Bridge, Uruguay
Uganda Railway Bridges – Mau Escarpment, Kenya
25th of April Bridge, Portugal
25th of April Bridge Rail Deck, Portugal
Angostura/Orinoco River Bridge, Venezuela
Liard River Bridge, Canada
Ghotour Valley Railroad Bridge, Iran (below)
Lions Gate Bridge, Canada
Forth Replacement Crossing, Scotland, UK

Superstructure construction of major buildings:

Woolworth Building, New York
Chrysler Building, New York
Empire State Building (right)
United Nations Secretariat, New York
Rockefeller Center (nine buildings), New York
Willis Tower (formerly Sears Tower)
John Hancock Buildings, Chicago and Boston
Columbia Center, Seattle
Louisiana Superdome, New Orleans
Los Angeles Convention Center
San Diego Convention Center
Antel Tower, Uruguay



Ghotour Valley Railroad Bridge, Iran

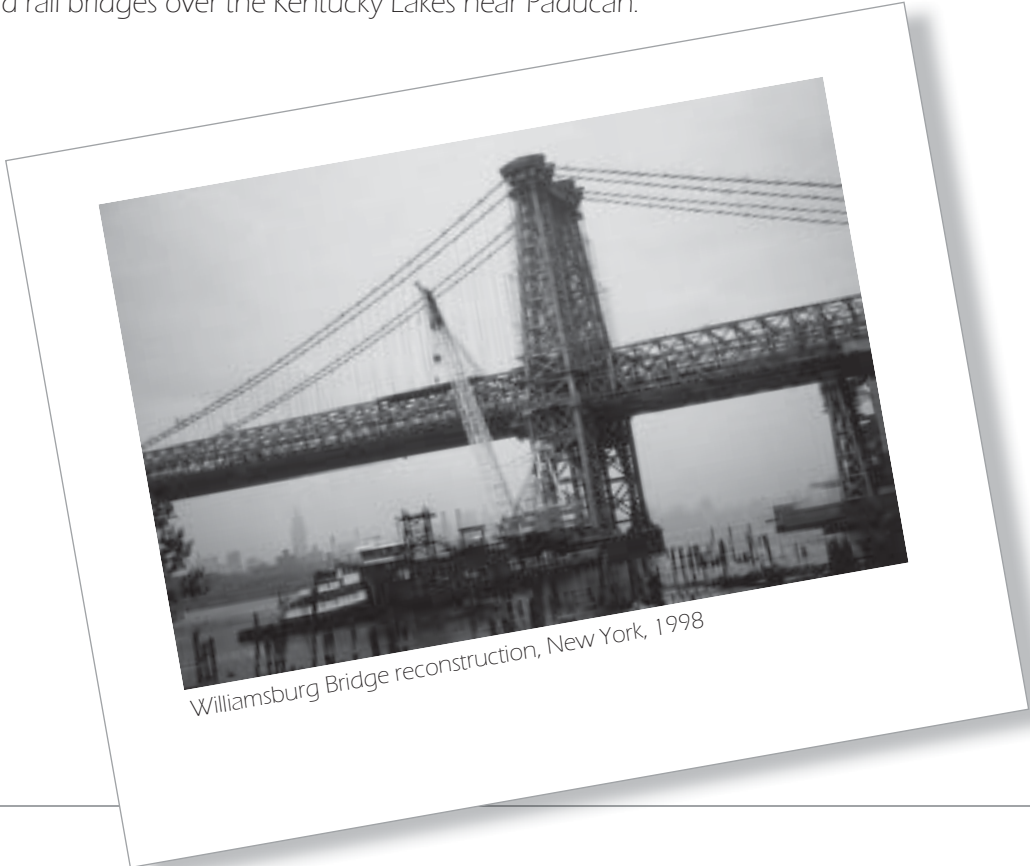


HISTORY
Continued

In the early 1980's AB's parent (US Steel) split the fabrication and construction operations, with the construction company retaining the name. In 1987, US Steel sold American Bridge to two investors, who focused mainly on equipment divestiture and high rise structural steel erection. In 1989, the current ownership purchased the company. By the early 1990's, American Bridge had become a shadow of its former self. Negatively affected by difficult economic conditions and a series of new CEO's with different strategic directions, revenues had dropped to about \$30M by 1993.

Ownership recruited the current company leadership in 1993 and has steadily re-built the brand. Major bridge project successes (Williamsburg Bridge reconstruction, Tagus River Bridge reconstruction, Lions Gate Bridge reconstruction, Woodrow Wilson Bridge) combined with numerous smaller ones were instrumental in this rebuilding. Moreover, the successful entry into marine construction and the greater involvement in complex concrete construction have diversified and modernized the company.

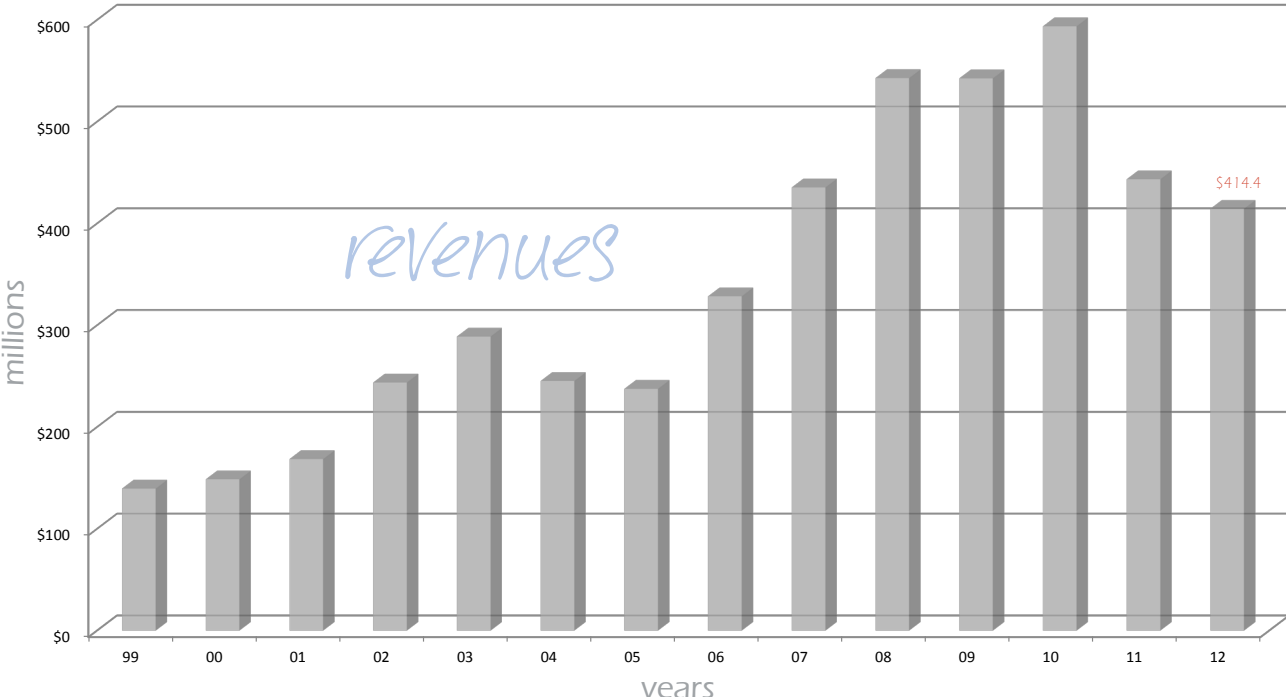
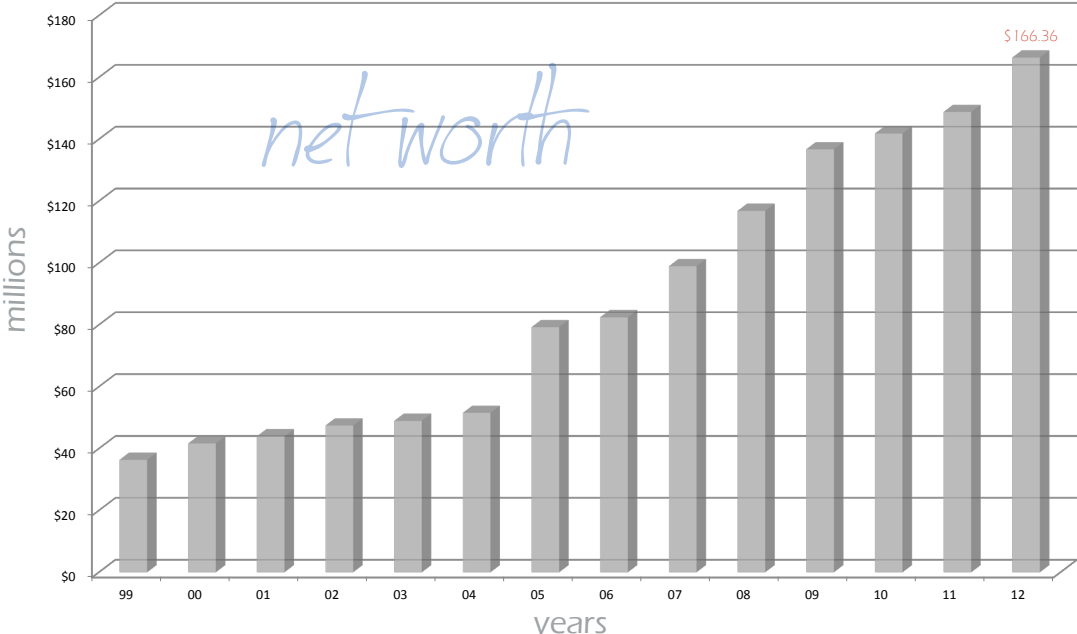
Through this rebuilding period the company consistently operated profitability. The company today has fully rebuilt its technical capability, and is financially strong. Currently, American Bridge has numerous technically challenging bridge construction projects underway. This includes the \$1.7B main span of the new San Francisco Oakland Bay Bridge in joint venture with Fluor Corporation; the new \$1.3B Forth Replacement Crossing near Edinburgh, Scotland in joint venture with Hochtief, Dragados, and Morrison; the redecking of the Walt Whitman Bridge in Philadelphia and the George Washington Bridge in New York City; and the \$110M road and rail bridges over the Kentucky Lakes near Paducah.



FINANCIALS

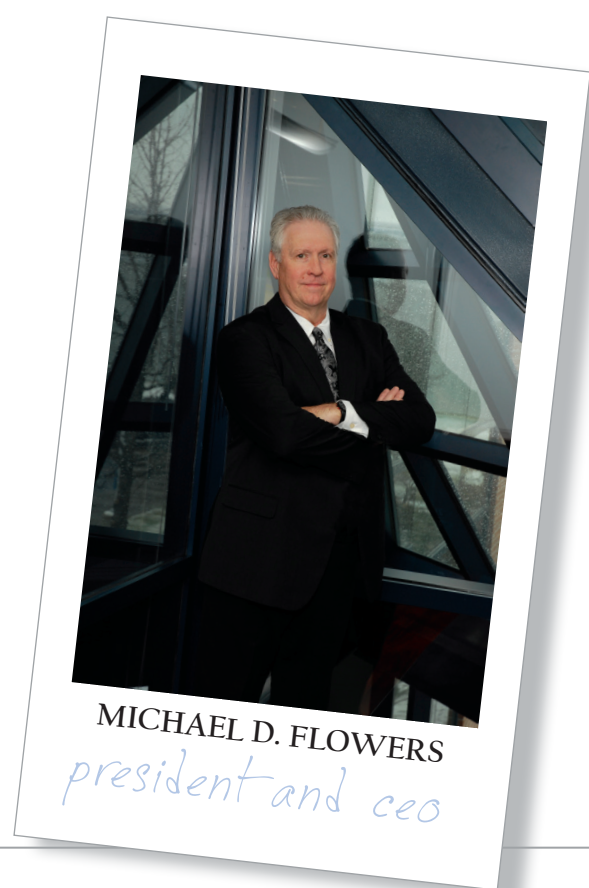
1999 - 2012

American Bridge Holding Company is privately held by employees and outside investors. Current ownership has been in place since 1989.



OFFICERS

- Robert Yahng, Chairman
- Michael D. Flowers, President and CEO
- Pamela Bena, Senior Vice President, Finance
- Jake Bidosky, Senior Vice President, Manufacturing District
- Michael Cegelis, Senior Vice President, Special and International Projects District
- Ronald Crockett, P.E., Vice President
- Amr El Nokali, Chief Legal Counsel and Vice President of Administration
- Lanny Frisco, Senior Vice President, Estimating
- Scott Gammon, P.E., DBIA, Vice President, Midwest District
- Mark Bell, Vice President, Tampa District
- Kwadwo Osei-Akoto, P.E., Vice President, New York District
- Brian A. Petersen, Vice President, Project Director ABFJV
- David T. Simmons, Senior Vice President, Richmond District



SHORTLIST OF CURRENT PROJECTS

6 Tappan Zee Hudson Bridge, 2018

Iconic project involving the construction of two, three-mile, parallel, twin, cable-stay bridges crossing Hudson River above New York City

4 Forth Replacement Crossing, 2017

New \$1.2B design/build project to replace a 6km segment of the A-90 over the Firth of Forth near Edinburgh, Scotland

2 George Washington Bridge Span Upper Level Structural Steel Rehabilitation, 2015

Structural steel rehabilitation of a two-tower suspension bridge spanning NY and NJ

1 Las Vegas High Roller, 2013

Construction of a 143m diameter tension observation wheel with a top height of 168m, NV

U.S. 190 Mississippi River Bridge, 2014

Miscellaneous steel repairs on a 3,326' cantilever truss, Baton Rouge, LA

Columbus Road Lift Bridge, 2014

Rehabilitation of a vertical lift bridge over the Cuyahoga River, Cleveland, OH

3 Hurricane Deck Bridge, 2014

Replacement of a 2,281' deck truss bridge over the Lake of the Ozarks on State Route 5, Camden County, MO

Walt Whitman Bridge, 2014

Replacement of the deck on the suspension spans and anchorage spans, Philadelphia, PA

5 San Francisco/Oakland Bay Bridge Self Anchored Suspension Superstructure, 2014

Construction of a new 2,051' single-tower, self-anchored suspension bridge, CA

Berth 12 Wharf Extension and Container Terminal, 2013

Extension of the existing berth 12 including a 590' long combination pipe/sheet pile bulkhead in the Tampa Bay, FL

Golden Beach Bridge Replacements, 2013

Complete removal and replacement of two bridges and associated abutments, FL

Bridge No. 30 - U.S. 421 over Snows Cut, 2013

Rehabilitation of a 2,060LF bridge supported on cast-in-place piers, Wilmington, NC

Wrightsville Beach Bridge, 2013

Rehabilitation of a double-leaf bascule bridge and the construction of a new control house, NC

Courtney Campbell Trail Design/Build State Route 60, 2013

Construction of a 29-span, 3,200LF pedestrian bridge including a 1,400LF concrete sheet piling wall, Tampa, FL

Tom's Harbor Bridge Replacement, 2012

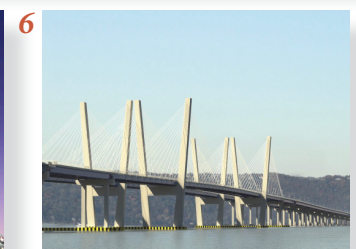
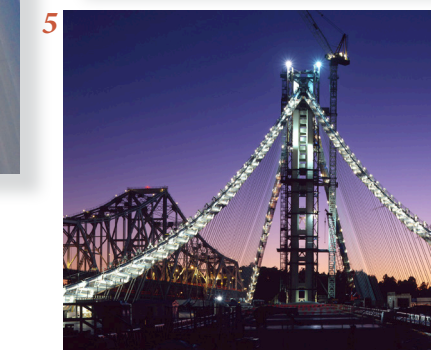
Fabrication and erection of a new concrete deck including the demolition and removal of the existing bridge superstructure, Duck Key, FL

Golden Beach Bridge Replacements, 2013

Complete removal and replacement of two bridges and associated abutments, FL

To find out more about AB's most recent projects visit:

www.americanbridge.net



FACILITIES

The headquarter's office, main equipment yard and northeastern fabricating shop of American Bridge Company are situated on a 42-acre (17 hectares) parcel on the Ohio River in Coraopolis, Pennsylvania, nine miles from Pittsburgh. The complex includes a 40,000SF (3,700m²) head office, a 700' by 120' (84,000SF, 7,800m²), two-bay structural steel fabricating building with attached 12,000SF (1,115m²) engineering/office building, a 30,000SF (2,787m²) paint building, a 25,000SF (2,323m²) equipment maintenance and indoor storage building and a 5,000SF (465m²) office/warehouse building. The main structure was completed in 2000 and has since been improved in 2008, when a modern gym, additional offices and state-of-the-art training facilities were added.

The West Coast fabricating facilities are located on a 40-acre (16 hectares) site on the Umpqua River in Reedsport, Oregon. The complex includes a 400' by 120' (48,000SF, 4,459m²), two-bay structural steel fabricating building, 12,000SF (1,115m²) paint and sandblast building, a 7,200SF (668m²) office/support building and 20 acres (8 hectares) of storage and lay-down area, completed in 2003.

S1 Derrick, AB Headquarters, Pittsburgh, PA, 2011



Reedsport, Oregon



Pittsburgh, Pennsylvania

SPECIAL STRUCTURES

American Bridge has a long history of constructing special structures, and continues to retain strong interest in applying its structural means and methods engineering and construction experience to projects of this type.

AB's experience in the special structures field includes the 160 ton Chicago Picasso structure in Daley Center, the 450 ton Unisphere for the New York World's Fair, and the 600 foot 'Wave' structure at the entrance to the Puerto Rico Convention Center. American Bridge is prepared to expertly take on special static and dynamic structures projects that demand a high level of engineering and field construction competence.



Unisphere, New York, 1963



Walt Disney World Millennium ICON, Orlando, Florida, 1999



Chicago's Picasso, Chicago, Illinois, 1967



Puerto Rico Convention Center, San Juan, Puerto Rico, 2004



Columbia Center, Seattle, Washington, 1984



John Hancock Observatory, Chicago, Illinois, 1968



Antel Tower, Montevideo, Uruguay, 2002

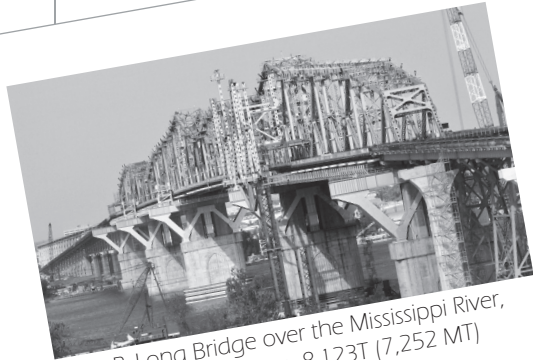


IBM Building, New York City, 1979

AB is building the world's largest observation wheel in Las Vegas, for more information see the Shortlist of Current Project section in this brochure and visit

www.americanbridge.net

AMERICAN BRIDGE MANUFACTURING



Huey P. Long Bridge over the Mississippi River,
New Orleans, Louisiana, 8,123T (7,252 MT)

American Bridge Manufacturing (ABM) is the structural steel fabrication unit of American Bridge Holding Company. American Bridge has a long history with steel fabrication beginning in 1900. By the 1980s, however, AB recognized that mass fabrication was to inevitably move to lower cost centers of production, and therefore closed its large scale manufacturing facilities. By the late 1990s however, AB experienced that the larger and more capable fabricators were not particularly interested or equipped for the low tonnage, high man-hour nature of the rehab industry, and the smaller fabricators were less financially stable and sophisticated to be reliable suppliers to American Bridge on its complex bridge rehabilitation projects. As a result, ABM was established as the sister company of American Bridge. As the company developed its capability for the rehabilitation of bridges, it began to apply these skills towards the manufacture of trusses. Now ABM is known as one of the leading

fabricators of complex trusses in the nation. This success is attributable to ABM's emphasis on quality, dependability, on-time performance, continuous training and development of its skilled workforce, and investment in equipment.

ABM fabricates and paints structural steel material for bridge rehabilitation and bridge replacement projects as well as other industrial uses. Twenty to 30 percent of ABM's fabrication orders are derived from American Bridge, with the remainder produced for other general contractors and owners across the nation.

Both of ABM's facilities (previous page) were designed and built to optimize the fabrication of complex steel components, while providing competitive pricing for the client.



BNSF Bridges, Renton, Washington,
587T (524MT)

Computer Aided Design

ABM's detailing department provides CAD (computer aided design) services for its steel fabrication projects, as well as for outside customers. ABM works with its customers to provide accurate information as quickly as possible and with the highest quality of service and support. The department is equipped and utilizes file transfer protocol technology for electronic delivery of submittals. The in-house detailing department allows ABM to expedite the detailing process in order to stay ahead of schedule and to provide a quality product completion within deadline requirements.



Point Marion Bridge, Pennsylvania,
1,310T (1,169MT)

Standard or specialized painting and coating services

ABM is equipped with state-of-the-art sandblast and paint facilities at both the Coraopolis, Pennsylvania and Reedsport, Oregon sites. These facilities perform all types of structural steel coating in a filtered dust controlled environment with a highly efficient (four times per hour) air exchange. ABM paint technicians are trained through AISC sanctioned courses for multiple types of structural steel coatings to enable the highest quality paint process. ABM also provides painting services to other fabricators.

Certifications

ABM holds Major Steel Bridge certifications from the American Institute of Steel Construction (AISC), along with Fracture Critical and Sophisticated Paint endorsements at both plant sites, and a variety of ASME and NBBI stamps for boiler and pressure vessel work.

- Fracture Critical Endorsement (F)
- Standard Steel Building Structures (STD)
- Major Steel Bridges (CBR)
- Complex Steel Building Structures (CBD)
- Conventional Steel Building Structures (SBD)
- Simple Steel Bridges (SBR)
- Metal Building Systems (MB)
- Advanced Certified Steel Erector (ACSE)
- Sophisticated Paint Endorsement – Enclosed (P1)
- Sophisticated Paint Endorsement – Covered (P2)
- Sophisticated Paint Endorsement – Exposed (P3)
- ASME BPV Certificate Holder (power boiler and pressure vessel)
- National Board of Boiler Inspectors (NBBI)



San Francisco/Oakland Bay Bridge,
California, 692T (617MT)

Additional recent, notable projects

- KCS over 71st and Martha Truman Road, Grandview, Missouri, 645T (575MT)
- BNSF over Como Avenue, Minneapolis, Minnesota, 600T (535MT)
- Wichita Central Corridor, Kansas, 1,230T (1,098MT)
- Norfolk Southern Bridge over 63rd and State Street, Chicago, Illinois, 1,560T (1,392MT)
- Oregon Route 38 over Elk Creek, Douglas County, Oregon, 345T (308MT)
- Huey P. Long Bridge, New Orleans, Louisiana, 8,123T (7,253MT)
- Macombs Dam Bridge, New York City, 3,444T (3,075MT)
- Point Marion Bridge, Pennsylvania, 1,310T (1,170MT)

Markets served

- Heavy highway and bridge
- Custom fabrication/manufacturing
- Railroad bridges
- Alternative energy
- Off-shore
- Oil and gas
- Power
- Petrochemical
- Commercial
- Paper and pulp



Hoover Dam Bypass, Arizona/Nevada, 3,480T (3,107MT)

CABLE SUPPORTED BRIDGES

*deck segment erection methods, stay-cable, erection,
suspension bridge main cables and hangers*

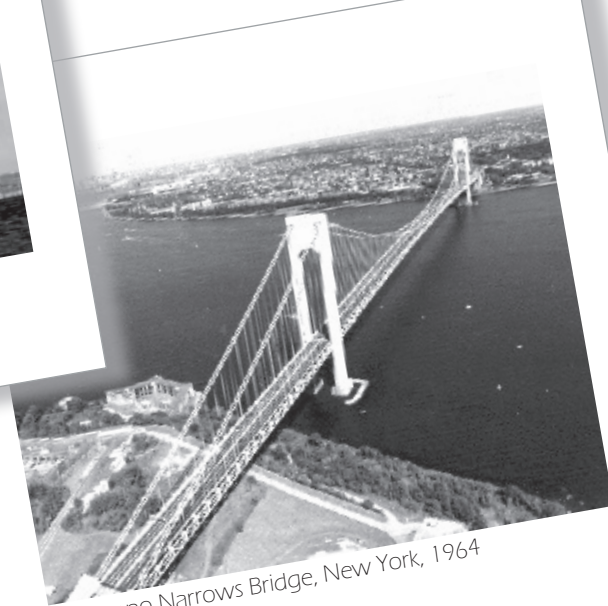
For cable-stay and suspension bridges, AB is experienced with foundations; towers and piers; stay-cable fabrication, erection and tensioning; suspension cable erections and superstructure erection. AB maintains global relationships with suppliers of fabricated structural steel.

American Bridge uses leading technology for the engineering and erection of suspension bridge main cables (by controlled tension airspinning or prefabricated parallel wire strands – PPWS), suspender cables, deck segments, load transfers, and compaction and wrapping of main cables. AB also has extensive tower construction experience.

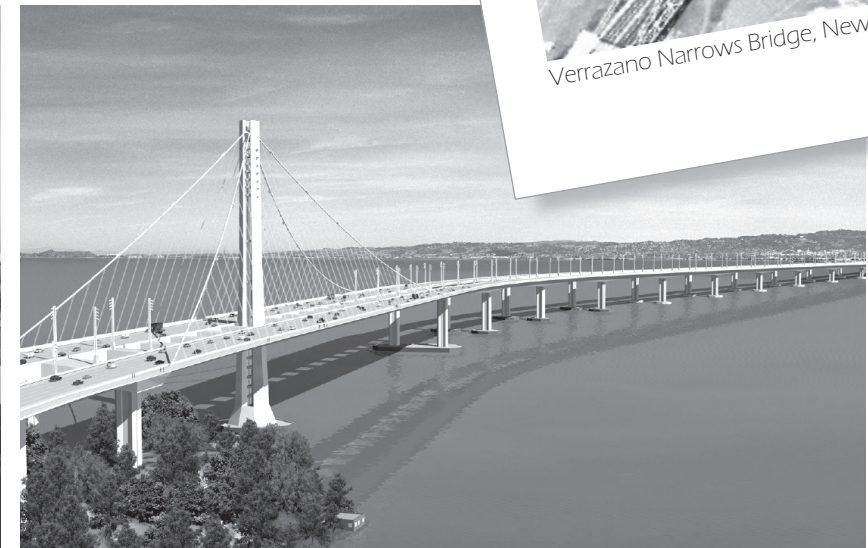
American Bridge is the lead partner of the joint venture constructing the largest self anchored suspension bridge in the world in Oakland, California. This \$1.7 billion project is also the largest single bridge contract ever awarded in the United States.



Straits of Mackinac Bridge, Mackinaw-St. Ignace, Michigan, 1957
Named a National Historic Civil Engineering Landmark in 2010



Verrazano Narrows Bridge, New York, 1964



San Francisco-Oakland Bay Self Anchored Suspension (SAS) Bridge, San Francisco-Oakland, California, USA, 2006-2013



Sunshine Skyway Bridge,
St. Petersburg, Florida, 1987

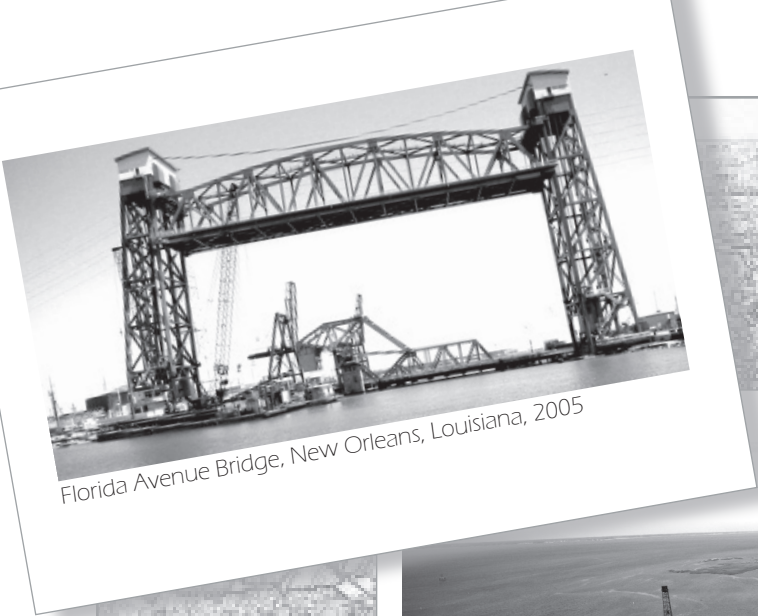


Angostura Bridge,
Ciudad Bolívar,
Venezuela, 1967



San Francisco-Oakland Bay SAS Bridge, West Span,
San Francisco-Oakland, California, 1936

25th of April Bridge Rail Deck, Lisbon, Portugal, 1998



Florida Avenue Bridge, New Orleans, Louisiana, 2005

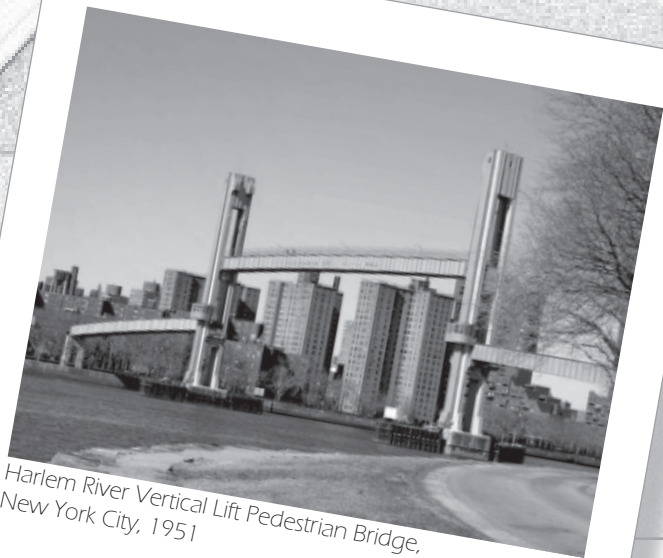


Chincoteague Bascule Bridge, Chincoteague, Virginia, 2010

MOVABLE BRIDGES

vertical lift, bascule and swing bridges

American Bridge has experience with the construction of all types of movable structures, including vertical lift, bascule and swing bridges. AB self performs mechanical equipment installation, calibration and commissioning in addition to foundations, piers and structural construction. AB has experience with truss float-in methods, bascule girder erection, counterweight jacking systems, counterweight suspension system installation and replacement, primary and secondary reducer procurement and installation, braking systems, drive shafts, rack and pinion alignment, span locks, pivot bearings, span balancing and sheave installation and replacement.



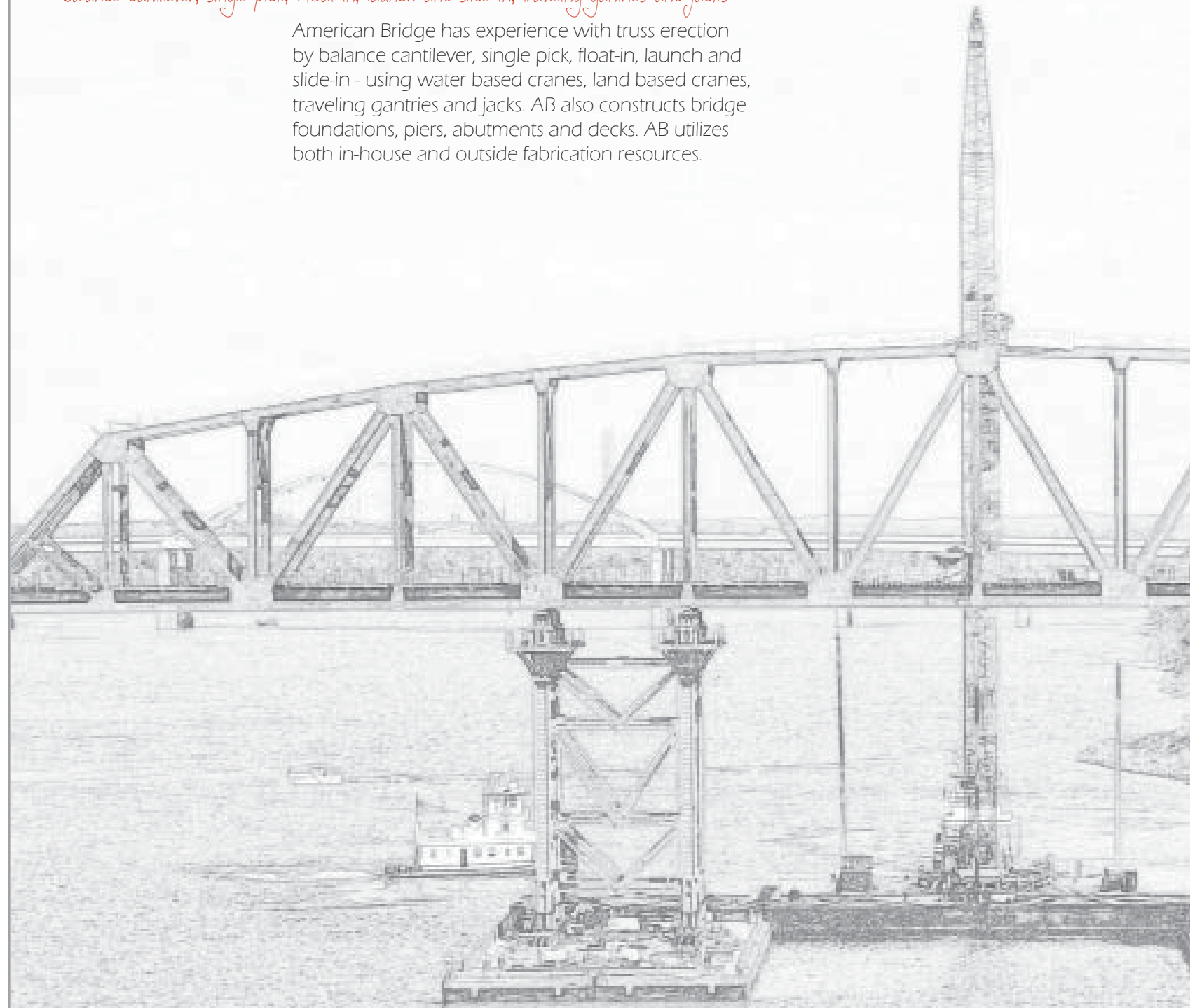
Harlem River Vertical Lift Pedestrian Bridge, New York City, 1951

Woodrow Wilson Bridge Bascule Span, Washington DC, 2007

TRUSS BRIDGES

balance cantilever, single pick, float-in, launch and slide-in, traveling gantries and jacks

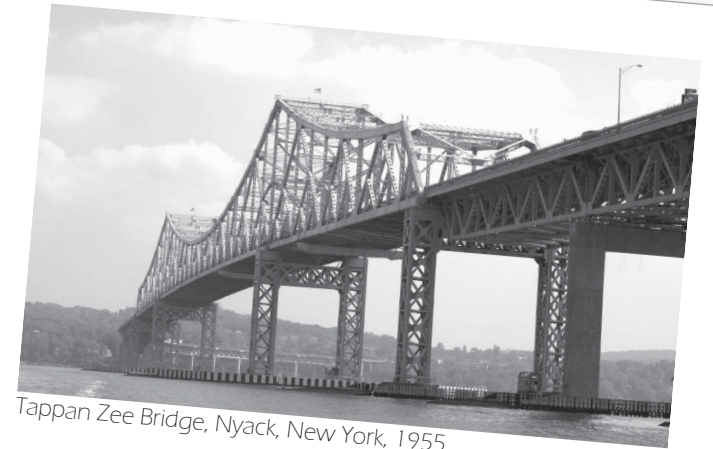
American Bridge has experience with truss erection by balance cantilever, single pick, float-in, launch and slide-in - using water based cranes, land based cranes, traveling gantries and jacks. AB also constructs bridge foundations, piers, abutments and decks. AB utilizes both in-house and outside fabrication resources.



Kentucky Lock US Highway US62/641 & P&L Railway Bridges, Grand Rivers, Kentucky, USA, 2011



Lake Cumberland Bridge,
Burnside, Kentucky, 2006



Tappan Zee Bridge, Nyack, New York, 1955



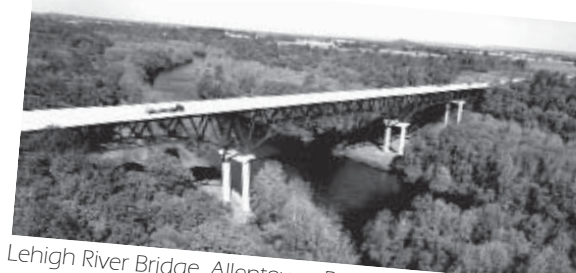
Temporary truss for the new San Francisco-Oakland Bay Self-Anchored Suspension, 2013



Columbia River Truss Bridge, Astoria, Oregon, 1966
Longest continuous truss in the USA



Cross Seminole Trail Bridge over US 17-92,
Orlando, Florida, 2008

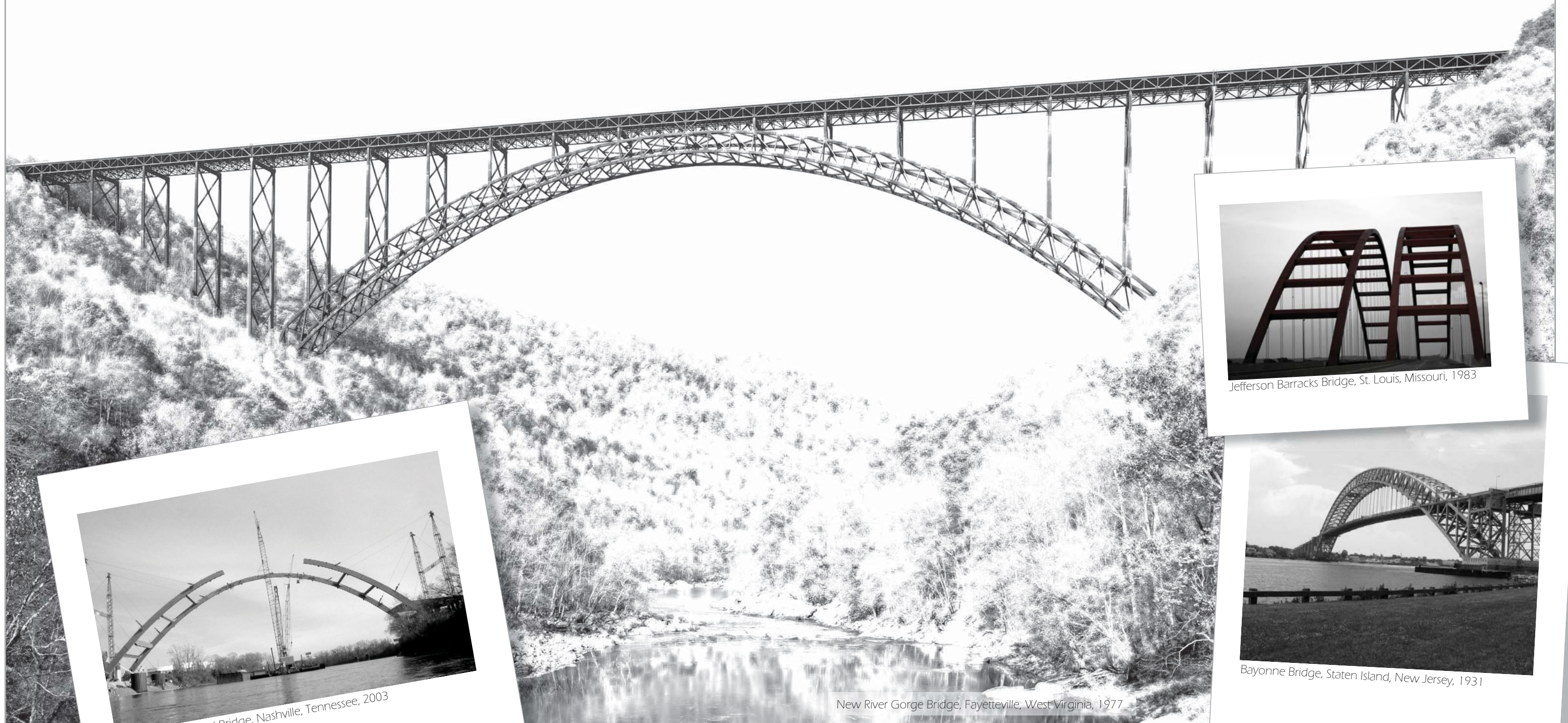


Lehigh River Bridge, Allentown, Pennsylvania, 2001

ARCH BRIDGES

aerial cableway, tieback, float-in, falsework and jacking technologies

American Bridge is experienced with the construction of both true and tied arch bridges using aerial cableways, tieback, float-in, falsework and jacking technologies.



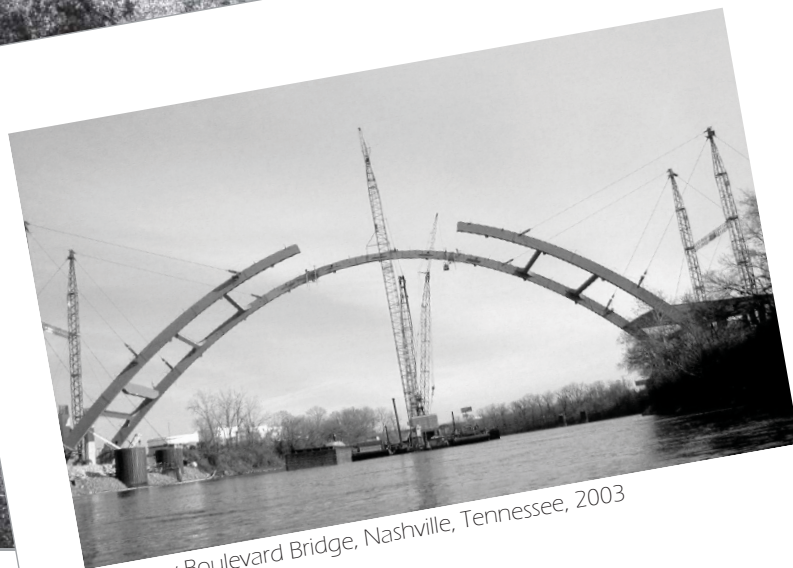
New River Gorge Bridge, Fayetteville, West Virginia, 1977



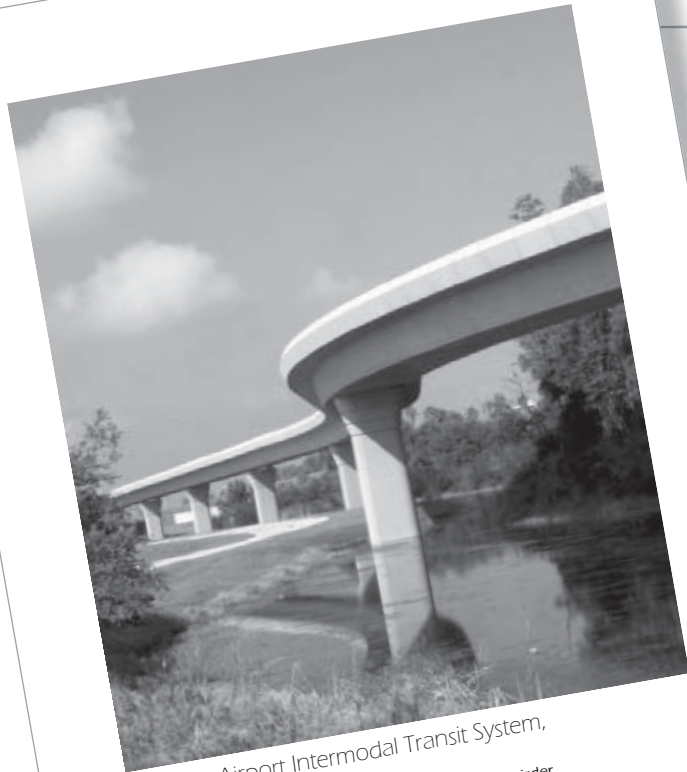
Jefferson Barracks Bridge, St. Louis, Missouri, 1983



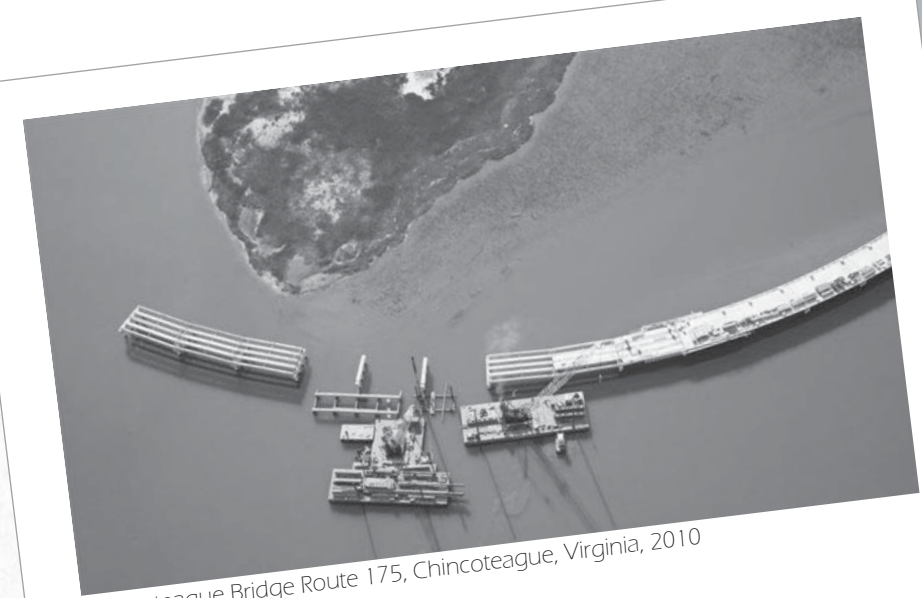
Bayonne Bridge, Staten Island, New Jersey, 1931



Gateway Boulevard Bridge, Nashville, Tennessee, 2003



Orlando Airport Intermodal Transit System,
Orlando, Florida, 2004
trapezoidal post tensioned cast-in-place concrete box girder



Chincoteague Bridge Route 175, Chincoteague, Virginia, 2010



Kentucky Lock US Highway US62/641 & P&L Railway,
Grand Rivers, Kentucky, 2011



MacArthur Causeway, Miami, Florida, 1997

GIRDER BRIDGES

steel block, steel plate, concrete box and precast beam structures

American Bridge is experienced with the construction of complex girder bridges, including: steel box, steel plate, concrete box and precast beam structures. AB has experience with water and land based crane erection and erection by jacking, launching and skidding, in addition to foundation, pier and abutment construction.

Woodrow Wilson Bridge Maryland Approaches, Washington D.C., 2007

Construction services for security improvements
under four separate contracts for these iconic
New York area bridges:



Bronx-Whitestone Bridge



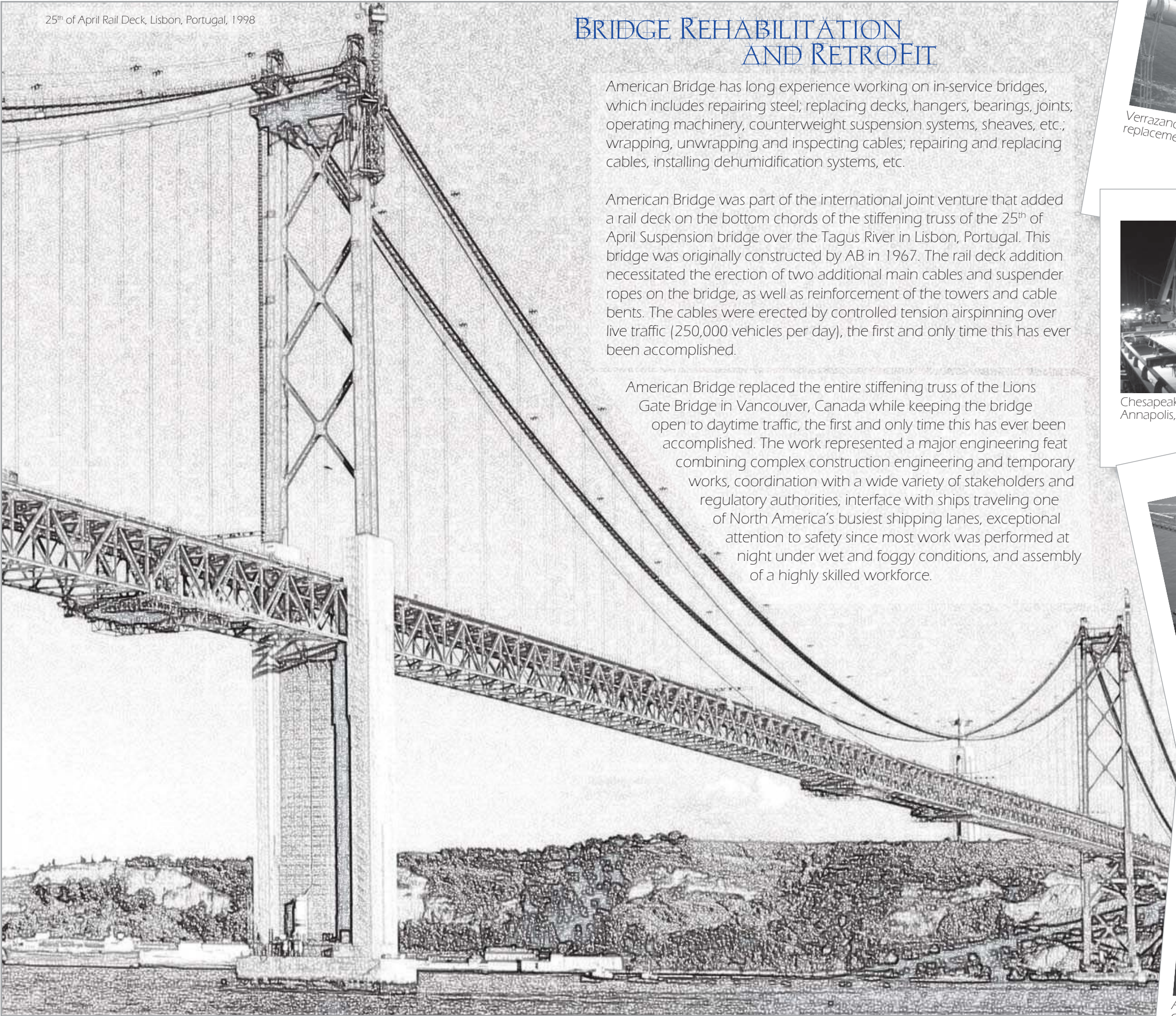
Throgs Neck Bridge



RFK Triborough Bridge



George Washington Bridge



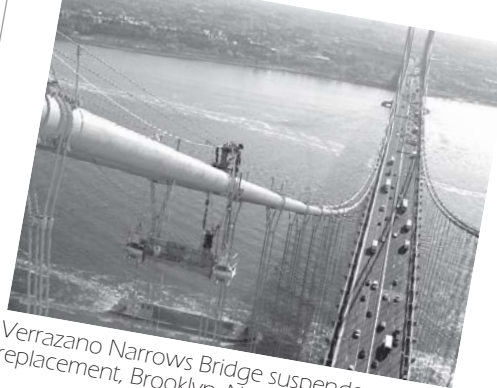
25th of April Rail Deck, Lisbon, Portugal, 1998

BRIDGE REHABILITATION AND RETROFIT

American Bridge has long experience working on in-service bridges, which includes repairing steel; replacing decks, hangers, bearings, joints; operating machinery, counterweight suspension systems, sheaves, etc.; wrapping, unwrapping and inspecting cables; repairing and replacing cables, installing dehumidification systems, etc.

American Bridge was part of the international joint venture that added a rail deck on the bottom chords of the stiffening truss of the 25th of April Suspension bridge over the Tagus River in Lisbon, Portugal. This bridge was originally constructed by AB in 1967. The rail deck addition necessitated the erection of two additional main cables and suspender ropes on the bridge, as well as reinforcement of the towers and cable bents. The cables were erected by controlled tension airspinning over live traffic (250,000 vehicles per day), the first and only time this has ever been accomplished.

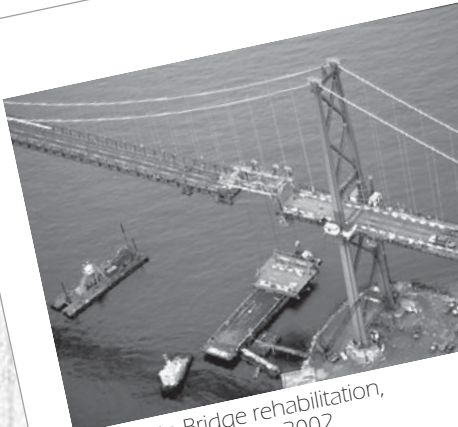
American Bridge replaced the entire stiffening truss of the Lions Gate Bridge in Vancouver, Canada while keeping the bridge open to daytime traffic, the first and only time this has ever been accomplished. The work represented a major engineering feat combining complex construction engineering and temporary works, coordination with a wide variety of stakeholders and regulatory authorities, interface with ships traveling one of North America's busiest shipping lanes, exceptional attention to safety since most work was performed at night under wet and foggy conditions, and assembly of a highly skilled workforce.



Verrazano Narrows Bridge suspender rope replacement, Brooklyn, New York, 2005



Chesapeake Bay Bridge redecking, Annapolis, Maryland, 2008

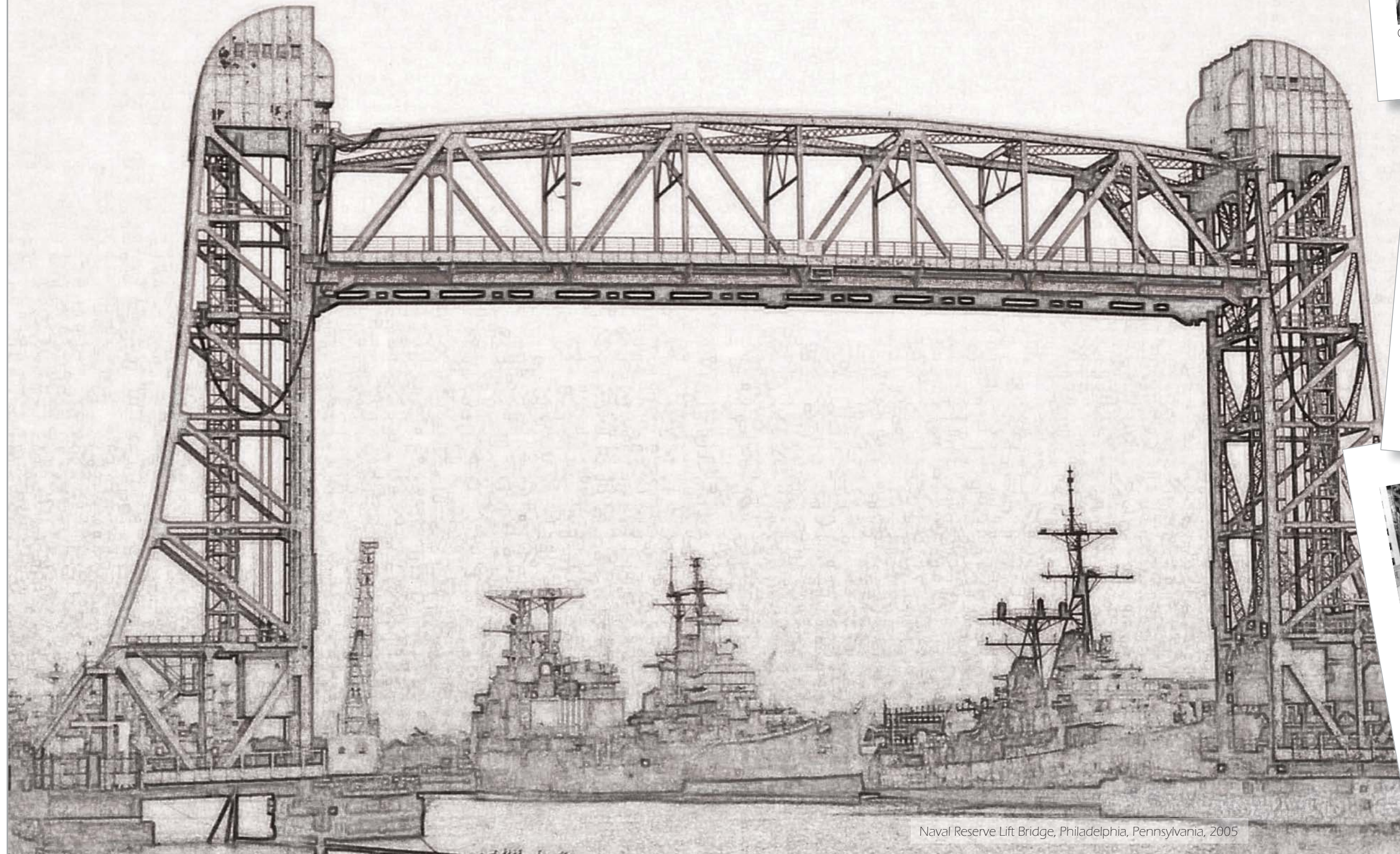


Lions Gate Bridge rehabilitation, Vancouver, Canada, 2002



Angostura Bridge engineering services, Ciudad Bolivar, Venezuela, 2006

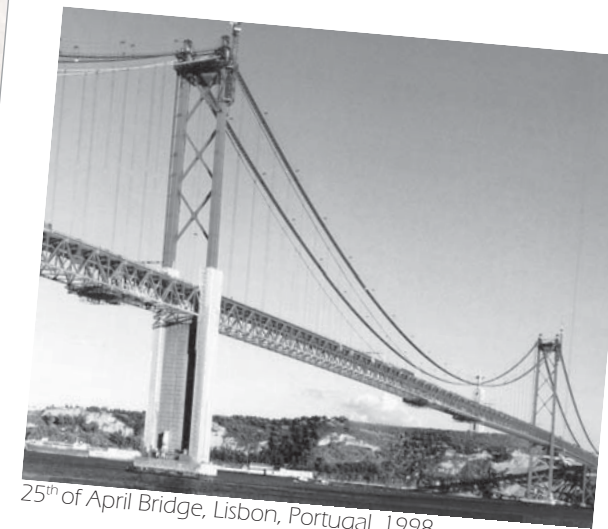
BRIDGE REHABILITATION *Continued*



Naval Reserve Lift Bridge, Philadelphia, Pennsylvania, 2005



Chicago Skyway Calumet River Bridge, Chicago, Illinois, 2003



25th of April Bridge, Lisbon, Portugal, 1998



Madison Street Bridge, Chicago, Illinois, 1994

NOTABLE *Marine* PROJECTS

Arawak Cay Port Development, Nassau, Bahamas
 Bakers Bay Marina Development, Great Guana Cay, Bahamas
 Castaway Cay Cruise Port (six projects from 1998 to present), Abaco, Bahamas
 CG Railway, Railcar Ferry Terminal, Mobile, Alabama
 Chesapeake Bay Bridge Tunnel Segments Fabrication and Delivery, Virginia
 Choctaw Point Terminal, Port of Mobile, Alabama
 Conrail Coal Pier No. 124 (railcar to barge terminal), Norfolk, Virginia
 Cozumel Cruise Terminal Pier Replacement, Quintana Roo, Mexico
 Crown Bay Pier Expansion and Mixed-Use Center, St. Thomas, U.S. Virgin Islands
 Dames Point Container Terminal, Jacksonville, Florida
 Drill Tower Heidi Fabrication, Long Beach, California
 Drill Tower Hope Fabrication, Long Beach, California
 U.S. Navy Drydock No.3 and Berth No. 11 Modifications, Kittery, Maine
 Emsworth Dam Gate Replacement, Pittsburgh, Pennsylvania
 Enighed Pond Marine Ferry Terminal, St. John, U.S. Virgin Islands
 Estelle Pump Station Work Platform, New Orleans, Louisiana
 Freeport Ship Care Facility, Freeport, Grand Bahama Island
 Lake Superior Iron Ore Loading Facility, Silver Bay, Minnesota
 Kissimmee River Structure S65E Tailwater Weir, Okeechobee, Florida
 Marsh Harbor Port Expansion, Abaco, Bahamas
 Pinto Island Terminal, Port of Mobile, Alabama
 Port of Tampa Fuel Berths 223 Replacement and 226 Rehabilitation, Florida
 Ritz Carlton Rose Island Resort Marina, Nassau, Bahamas
 Roatan Cruise Terminal, Roatan, Honduras
 TPA Container Terminal Phase II, Port of Tampa, Florida
 U.S. Navy Mayport Wharf Delta Bulkhead Replacement, Jacksonville, Florida
 U.S. Navy P-359 Pier 3 Improvements, Bremerton, Washington
 U.S. Navy Pier 6 Replacement, Groton, Connecticut
 U.S. Navy Pier 7 Replacement, Norfolk, Virginia
 U.S. Navy Pier 8 Structural and Mechanical Repairs, Norfolk, Virginia
 U.S. Navy Pier 11 Replacement, Norfolk, Virginia
 U.S. Navy Pier 31, Groton, Connecticut
 US Navy Piers 1 and 2 Repairs, San Diego, California
 U.S. Navy Pier R3 Repairs, Yorktown, Virginia
 U.S. Navy Truman Harbor Repairs, Naval Air Station Key West, Florida

MARINE CONSTRUCTION

*pile driving, dredging, pier and cofferdam construction,
 drilled shaft installation, steel sheetpile walls and tieback systems*

American Bridge has extensive marine construction experience including: pile driving (precast-prestressed, steel pipe, steel H, concrete cylinder), drilled shaft installation, cofferdam construction, steel sheetpile, walls and tieback systems, concrete wall caps, encasement forming methods, dredging, container terminals and crane-rail projects, terminals for passenger, naval, pier and fuel; unloading systems; ocean outfalls; marinas; seawalls; bridge foundations and piers.



Pinto Island Terminal,
Mobile, Alabama, 2009



US Navy Pier 6 Replacement,
Groton, Connecticut, 2008



US Navy Pier 11 Replacement,
Norfolk, Virginia, 2008



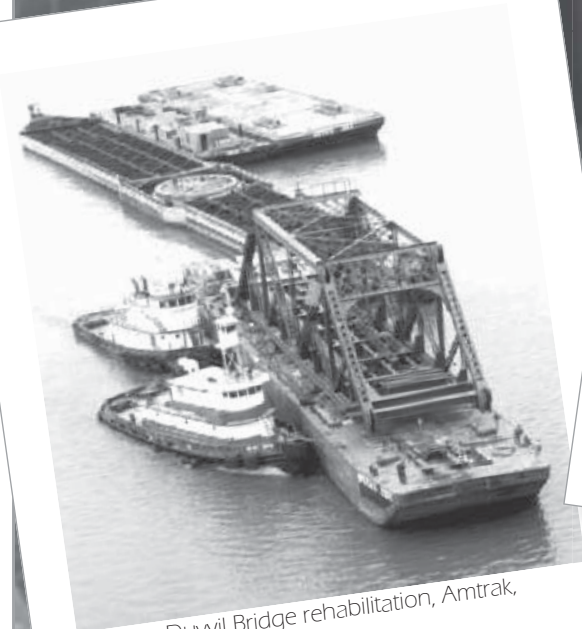
Castaway Cay Enhancement, Abaco, Bahamas, 2010

Baker's Bay Marine and Civil Improvements, Great Guana Cay, Bahamas, 2009

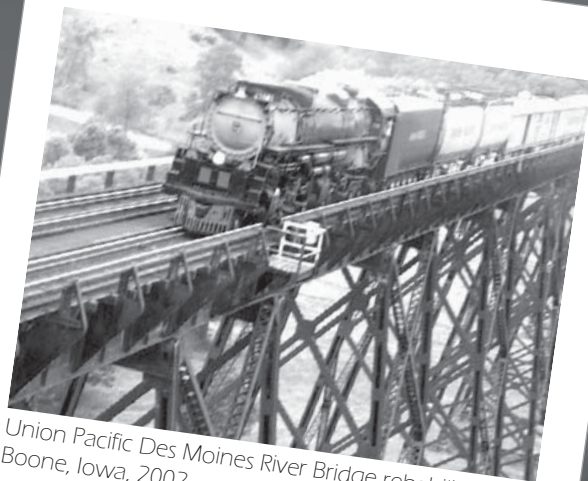
RAILROAD BRIDGES

freight, passenger/commuter and transit/light rail

American Bridge is experienced with the special requirements that railroad construction places on the maintenance of rail traffic, including freight, passenger/commuter and transit/light rail. AB routinely undertakes short duration closure works, emergency repairs and machinery repairs on movable bridges.

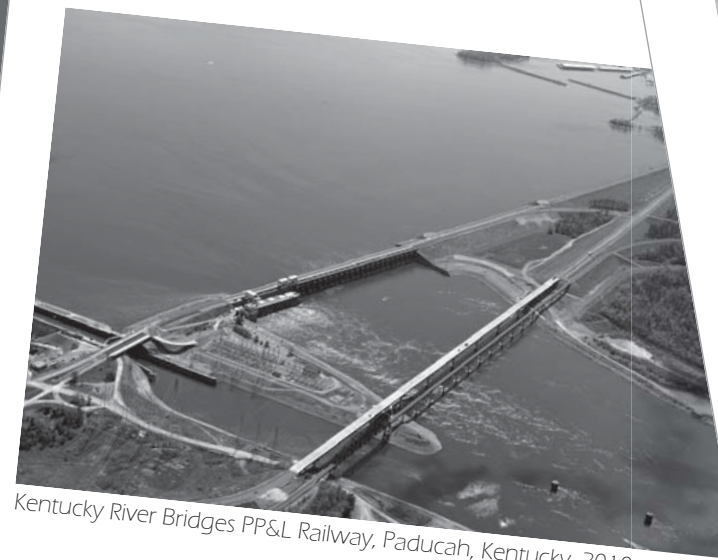


Spuyten Duyvil Bridge rehabilitation, Amtrak, New York, New York, 1990

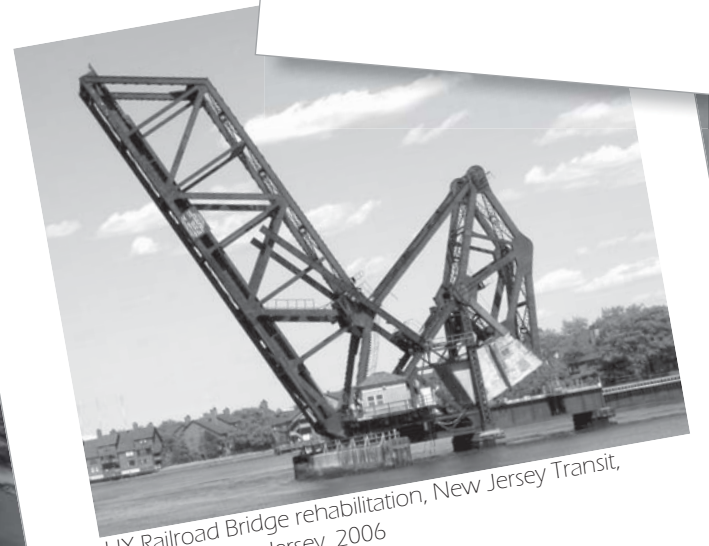


Union Pacific Des Moines River Bridge rehabilitation, Boone, Iowa, 2002

New Lots Elevated Transit Line rehabilitation, Brooklyn, New York, 2001



Kentucky River Bridges PP&L Railway, Paducah, Kentucky, 2010



HX Railroad Bridge rehabilitation, New Jersey Transit, Secaucus, New Jersey, 2006



Communication Rooms at Elevated Stations, New York, New York, 2002

1900-1910

145th Street Bridge (over Harlem River), New York City
Connecticut River Railroad Bridge at Saybrook, Old Saybrook
Fort Sumner Railroad Bridge, New Mexico
Kentucky River High Bridge, Kentucky
Mau Escarpment Viaduct (27 bridges/Uganda Railway), Kenya, Africa
Million Dollar Bridge, Alaska
Tallahatchie Bridge, Mississippi
Yellowstone River Bridge, Glendive, Montana

1921-1930

Three Sisters Bridges (Eyebar Chain Suspension), Pittsburgh, Pennsylvania
Burnside Bridge, Portland, Oregon
Carquinez Straits I Bridge, California
Golondrinas Railroad Arch Bridge, Columbia
Hercilio Luz Bridge, Florianopolis, Brazil
Hurricane Gulch Arch Bridge, Alaska
Louisville Municipal Bridge, Kentucky
Mid Hudson Bridge, Poughkeepsie, New York
Mississippi River Railroad Bridge, Iowa
Niagara Falls Railroad Arch Bridge, Ontario, Canada
Parana River Railway Bridge, Brazil
Salispuedes Viaduct, Mexico
Santa Lucia Bridge, Uruguay
Suisun Bay Railroad Bridge, California
Susitna River Bridge, Alaska
Tanana River Bridge, Alaska
Union Pacific Mississippi River Bridge, Iowa-Nebraska
Vicksburg Bridge, Mississippi

1941-1950

Antler Creek Bridge, California
Liard River Bridge, British Columbia, Canada
Grand Anse Bridge, Haiti
Magdalena River Suspension Bridge, Columbia
Pit River Bridge, California
South Capitol Street Swing Bridge, Washington, DC
Rio Lempa Bridge, El Salvador

1961-1970

25th of April Bridge, Lisbon, Portugal
Alexander Hamilton Bridge, New York City
Astoria Bridge (over Columbia River), Oregon
Burro Creek Bridge, Wikieup, Arizona
Chain of Rocks Bridge, Mitchell, Illinois
Cold Spring Canyon Bridge, Santa Barbara, California
Delair Vertical Lift Railroad Bridge, Philadelphia, Pennsylvania
Flaming Gorge Bridge, Utah
Ghotour Valley Bridge, Iran
Harlem Avenue Bascule Bridge, Chicago
Interamerican Highway (39 bridges), Costa Rica
Newburgh Beacon I (over Hudson River), New York
Orinoco River Bridge, Ciudad Bolivar, Venezuela
Rio Grande Bridge, Taos, New Mexico
Santa Rosa Sound Bridge, Florida
Sault Ste. Marie Arch Bridges, Michigan
Sunshine Bridge, Donaldsonville, Louisiana
Throgs Neck Bridge, New York City
Verrazano Narrows Bridge, New York City

1911-1920

Atbara River Bridge, Sudan, Africa
Cauca River Bridge, Columbia
Cologne Eyebar Chain Bridge, Germany
Columbia River Bridge (I-5), Washington/Oregon
Hell Gate Bridge, New York City
Korean Railroad System (40 bridges), Korea
Metropolis Railroad Bridge, Illinois
Norwegian State Railroad (43 bridges), Norway
Philippine Railroad System (83 bridges), Philippines
Snowden Railroad Lift Bridge, Montana
Thames River Railroad Bridge, Connecticut

1931-1940

Bayonne Bridge, New Jersey
Blue Water Bridge, Ontario, Canada/Port Huron, Michigan
Bourne Bridge, Cape Cod, Massachusetts
Bronx-Whitestone Bridge, New York City
Canadian River Railroad Viaduct, Texas
Henry Hudson Bridge, New York City
Homestead High Level Bridge, Pittsburgh, Pennsylvania
Huey P. Long Bridge, New Orleans, Louisiana
Lake Union Bridge, Seattle, Washington
Marine Parkway Vertical Lift Bridge, New York City
Outer Drive Bascule Bridge, Chicago
Pulaski Skyway Bridge, New Jersey
RFK Triborough Bridge, New York City
Rio Choluteca Bridge, Honduras
Sagamore Bridge, Cape Cod, Massachusetts
San Francisco-Oakland Bay Bridge, California
South Street Bascule Bridge, Philadelphia, Pennsylvania
Tamazulapa Bridge, Guatemala
Thousand Islands Bridge, New York/Canada
Waldo-Hancock Bridge, Maine
West End Bridge, Pittsburgh, Pennsylvania

1951-1960

Cairo Railroad Bridge, Illinois
Carquinez Straits II Bridge, California
Corpus Christi Bay Bridge, Texas
Delaware Memorial I Bridge, Wilmington, Delaware
Duarte Bridge, Santa Domingo, Dominican Republic
East River Pedestrian Lift Bridge, New York City
George Coleman Swing Bridges, Yorktown, Virginia
Los Alamos Canyon Bridge, New Mexico
Marian Street Bridge, Salem, Oregon
Mores Creek Bridge, Boise, Idaho
Ogdensburg Bridge, Ontario, New York/Ontario, Canada
Seaway International Bridge, New York/Ontario, Canada
Straits of Mackinac Bridge, Michigan
Tappan Zee Bridge, New York
Walt Whitman Bridge, Philadelphia, Pennsylvania

NOTABLE Bridge PROJECTS

1981-1990

Ambassador Bridge Rehabilitation, Detroit, Michigan/Ontario, Canada
Columbus Drive Bascule, Chicago
EPCOT Monorail, Florida
Galveston Causeway Railroad Bascule Bridge, Texas
George Washington Bridge Rehabilitation, New York City
Glade Creek Bridge, West Virginia
Jefferson Barracks Bridge, St. Louis, Missouri
Lake Shore Drive Bascule Bridge Reconstruction, Chicago
Mobile River Delta Bridge, Alabama
Riverside Drive Viaduct, New York City
Sewickley Bridge, Pennsylvania
Spuyten Duyvil Railroad Swing Bridge, New York City
Sunshine Skyway Bridge (cable stay), Tampa Bay, Florida

2001-2010

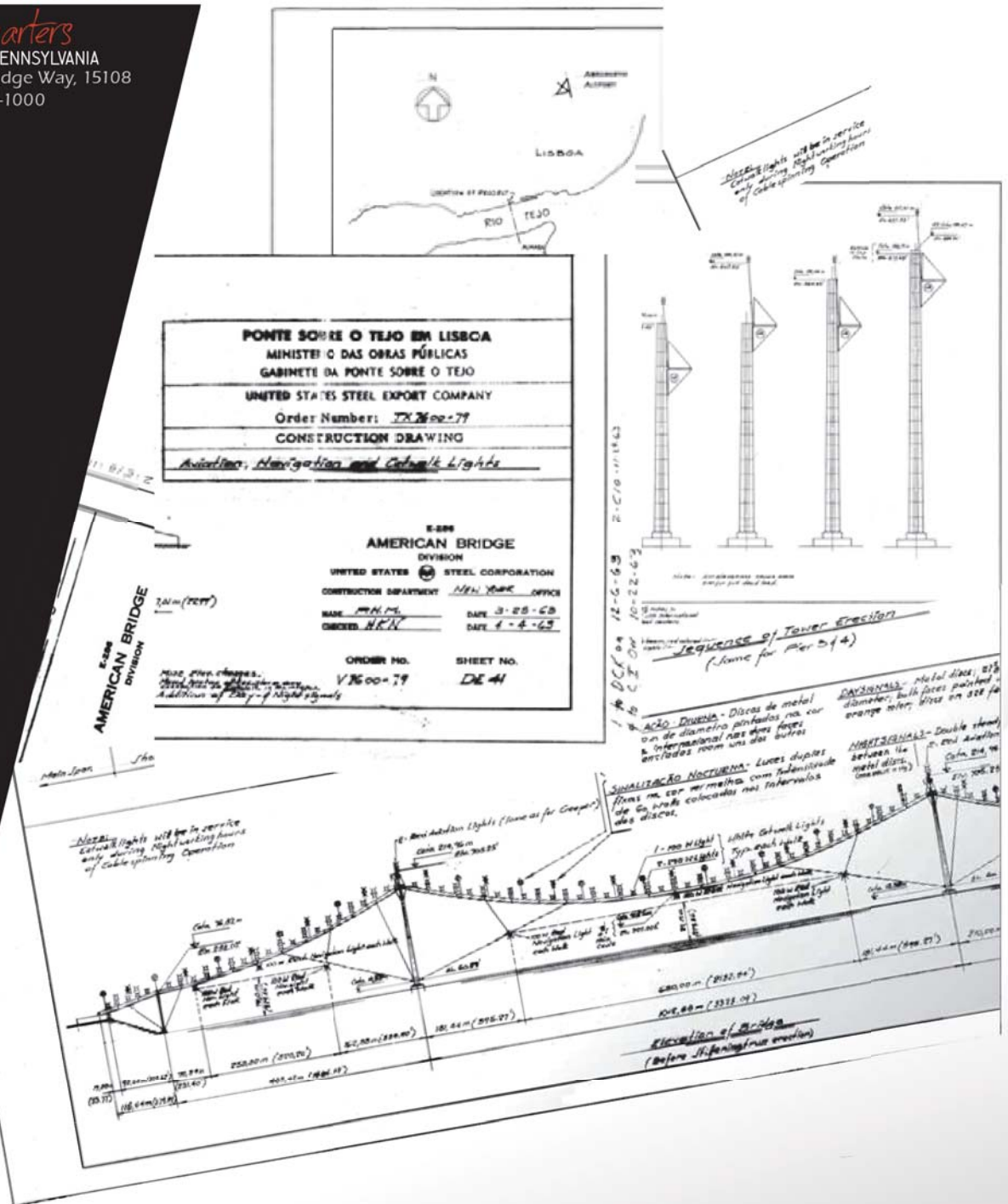
Chacao Channel Bridge Engineering Study, Chile
Florida Avenue Lift Bridge, New Orleans, Louisiana
Gateway Arch Bridge, Nashville, Tennessee
Lake Cumberland Bridge, Burnside, Kentucky
Lehigh River Bridge Deck Truss, Pennsylvania
Lions Gate Bridge reconstruction, Vancouver, British Columbia, Canada
Macombs Dam Bridge Historic Rehabilitation, New York City
Naval Reserve Lift Bridge, Philadelphia, Pennsylvania
Orlando Airport Elevated People-mover, Florida
RFK Triborough Bridge Deck and Suspender Replacement, New York City
Straits of Mackinac Bridge Traveler Replacements, Michigan
Woodrow Wilson Bascule Spans, Washington, D.C.
Woodrow Wilson Maryland Approach Spans, Washington, D.C.

2012-PRESENT

Bronx-Whitestone Bridge, New York City
Chincoteague Bridge, Virginia
Kentucky Lakes Railway and Roadway Bridges, Grand Rivers, Kentucky
Ogdensburg-Prescott International Bridge, New York
Point Marion Truss Bridge, Pennsylvania
San Francisco-Oakland Bay Self-Anchored Suspension Bridge, California
South Grand Island Bridges, Buffalo, New York
Throgs Neck Bridge, New York City
RFK Triborough Bridge, New York City
Walt Whitman Bridge, Philadelphia, Pennsylvania
Chesapeake Bay Bridge, Annapolis, Maryland
Forth Replacement Crossing, Scotland, United Kingdom
George Washington Bridge, New York
Tappan Zee Bridge, New York City
Columbus Road Lift Bridge, Cleveland, Ohio
U.S. 190 Mississippi River Bridge, Baton Rouge, Louisiana
Hurricane Deck Bridge, Camden County, Missouri
Wrightsville Beach Bridge, North Carolina

For more information on current projects see the Shortlist of Current Projects within this brochure
and visit www.americanbridge.net

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