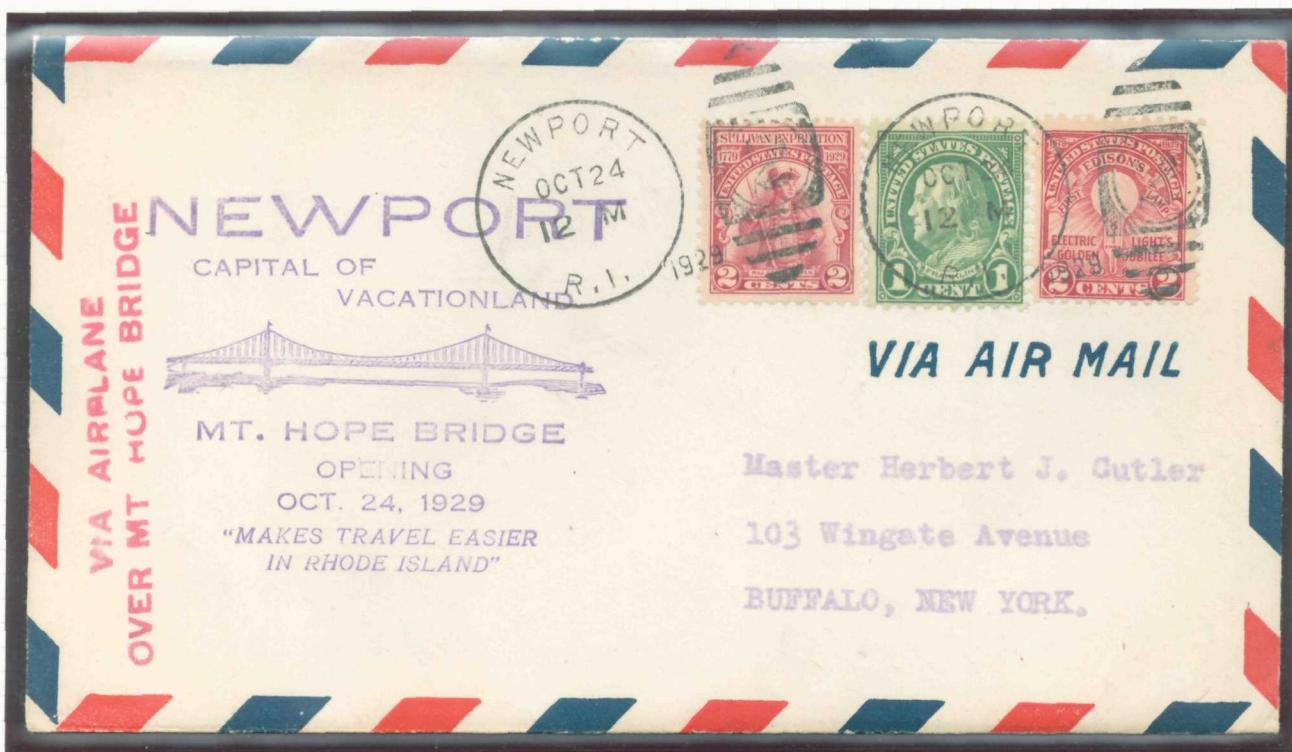
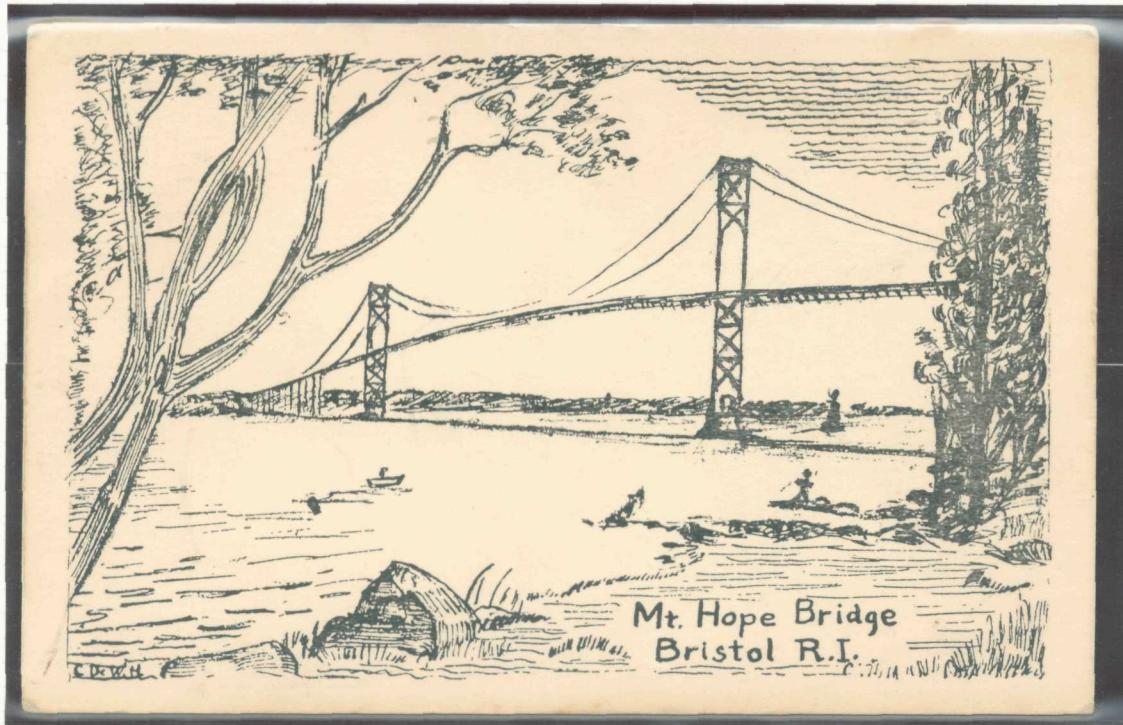


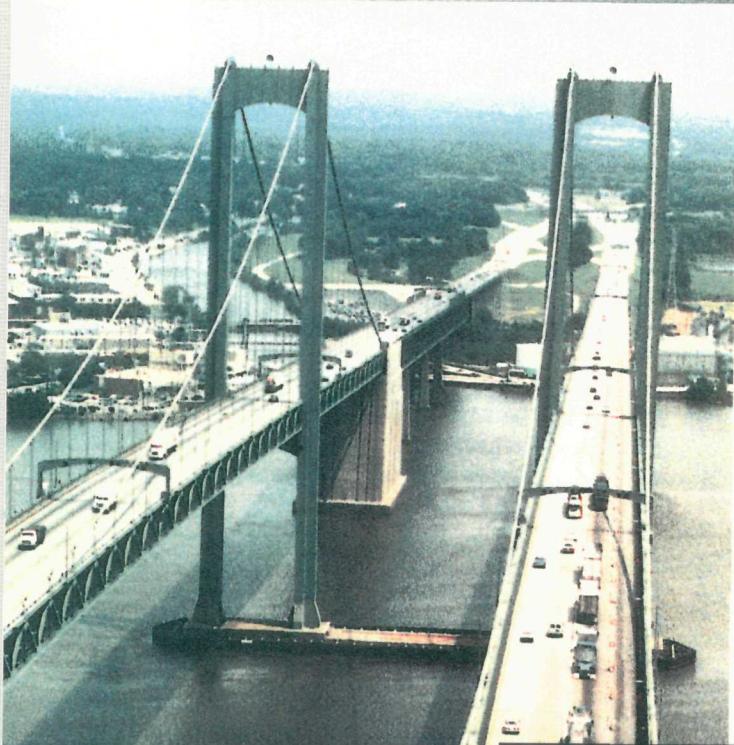
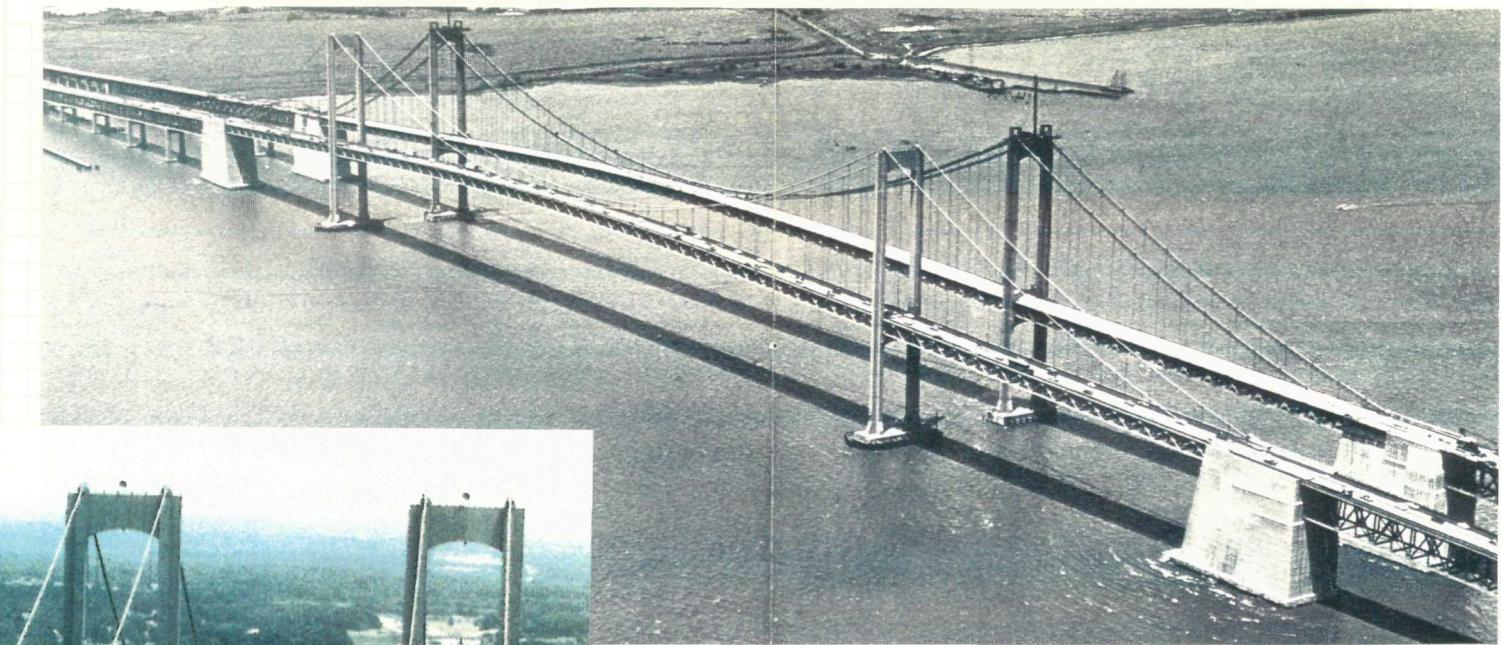
MOUNT HOPE BRIDGE

Rhode Island

This bridge, designed by Robinson and Steinman, crosses Mt. Hope Bay, an arm of Narragansett Bay, between Providence and Newport with a main span of 1200 ft, side spans of 504 ft and a roadway width of 27 ft.

It was opened to traffic on October 24, 1929.





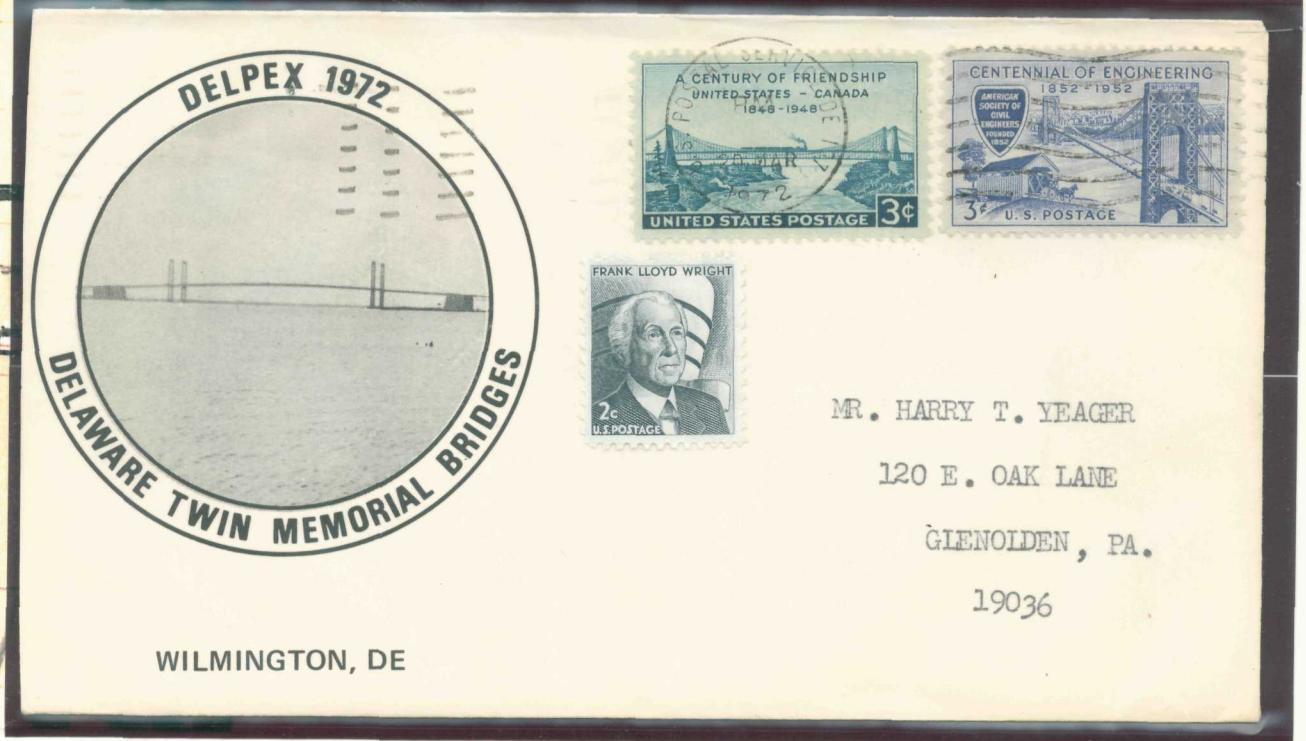
DELAWARE MEMORIAL BRIDGE

Wilmington, DE

The Delaware Memorial Bridge was opened to traffic on August 15, 1951. It has a main suspension span of 2,150 ft and side spans of 750 ft, for a total length of structure of 10,765 ft. The bridge was originally designed for six lanes of traffic but when bids came in above the estimate, the bridge was redesigned to carry only four lanes of traffic. With the opening of the New Jersey Turnpike, traffic on the bridge soon reached capacity, and a parallel bridge with similar dimensions was built to provide four lanes of traffic in each direction.

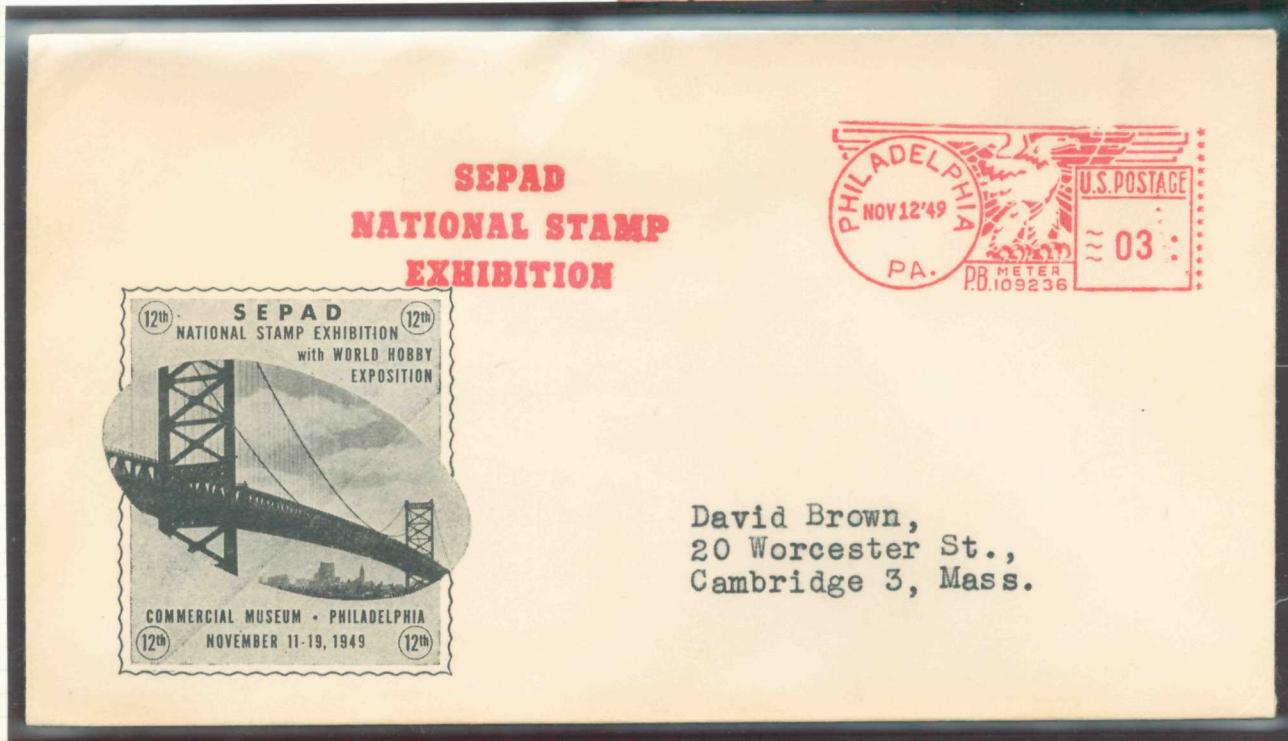
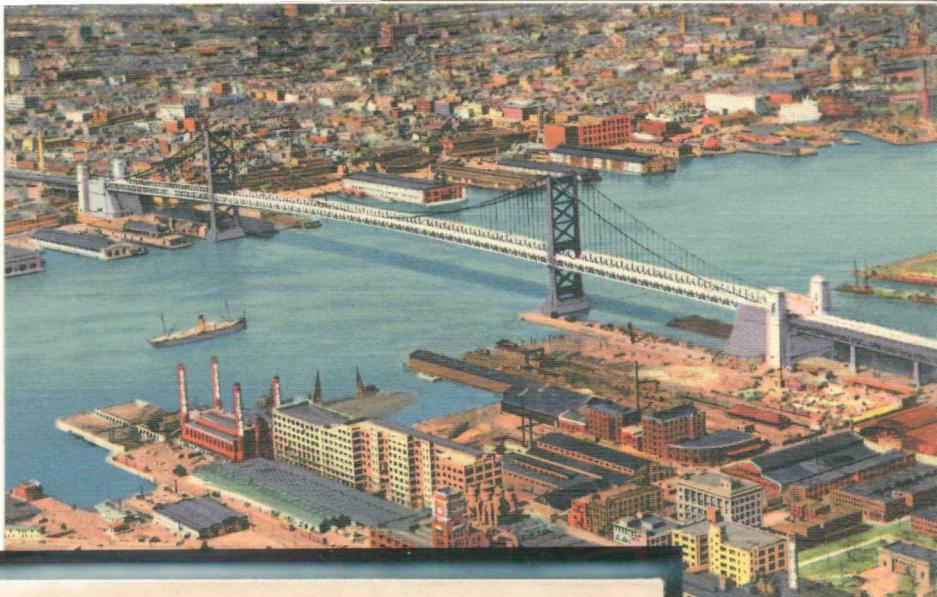
The original bridge was designed by Howard, Needles, Tammen & Bergendoff with O.H.Ammann as consultant. The second bridge was also designed by HNTB with E.Lionel Pavlo as consultant.

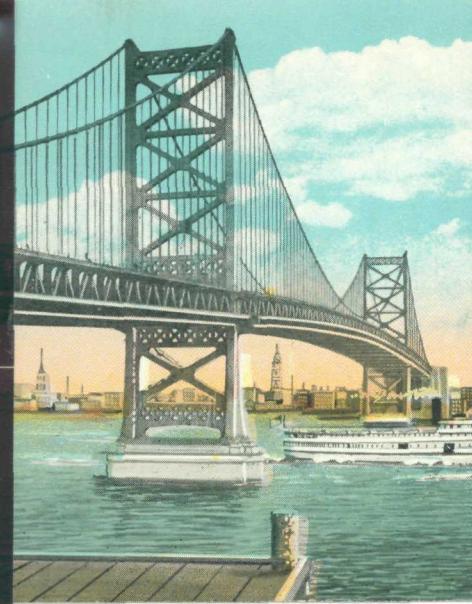
The
World's
Longest
Twin
Suspension
Bridge



BENJAMIN FRANKLIN BRIDGE

The Benjamin Franklin Bridge crosses the Delaware River between Philadelphia, PA and Camden, NJ. Its total length is 1.8 miles. The main span between the 385 ft high towers is 1,750 ft and provides a clearance above water of 135 ft. Originally, the bridge carried six traffic lanes, two high-speed railroad tracks and one trolley line. Now it carries seven traffic lanes and two tracks for a commuter line. Completed in 1926, the bridge was designed by Ralph Modjeski.



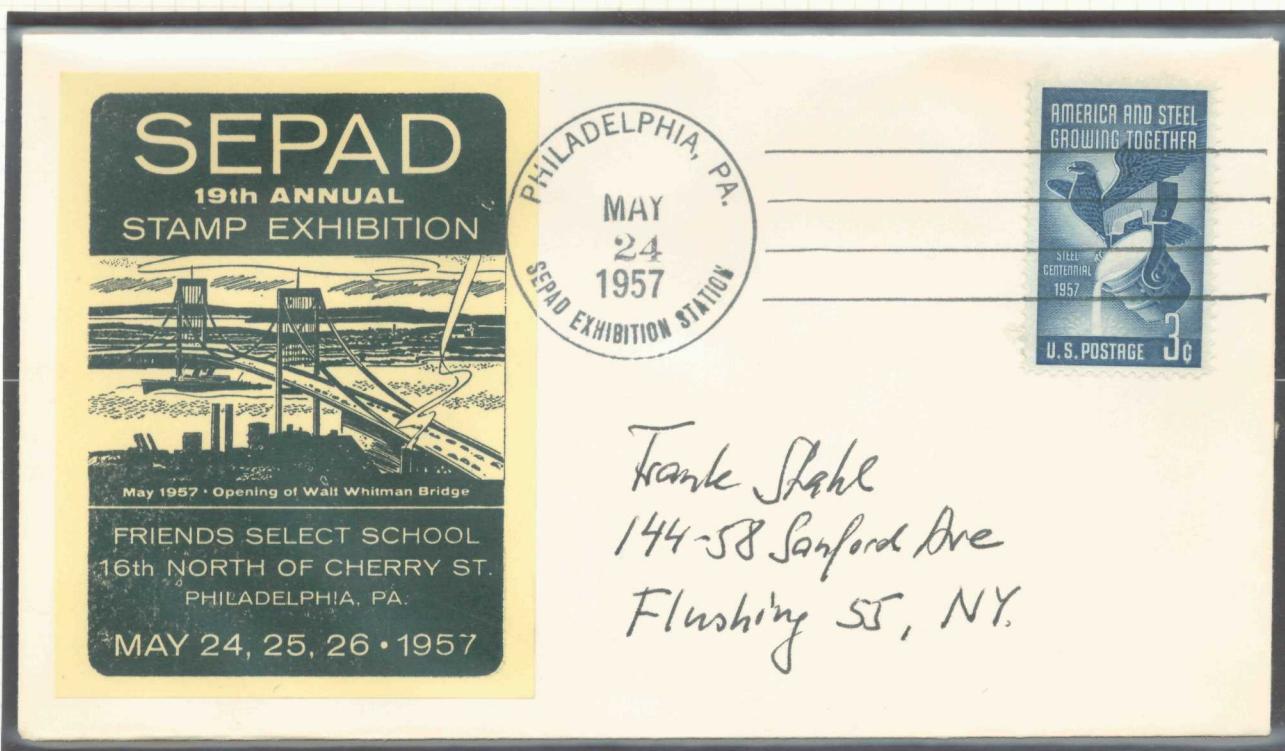
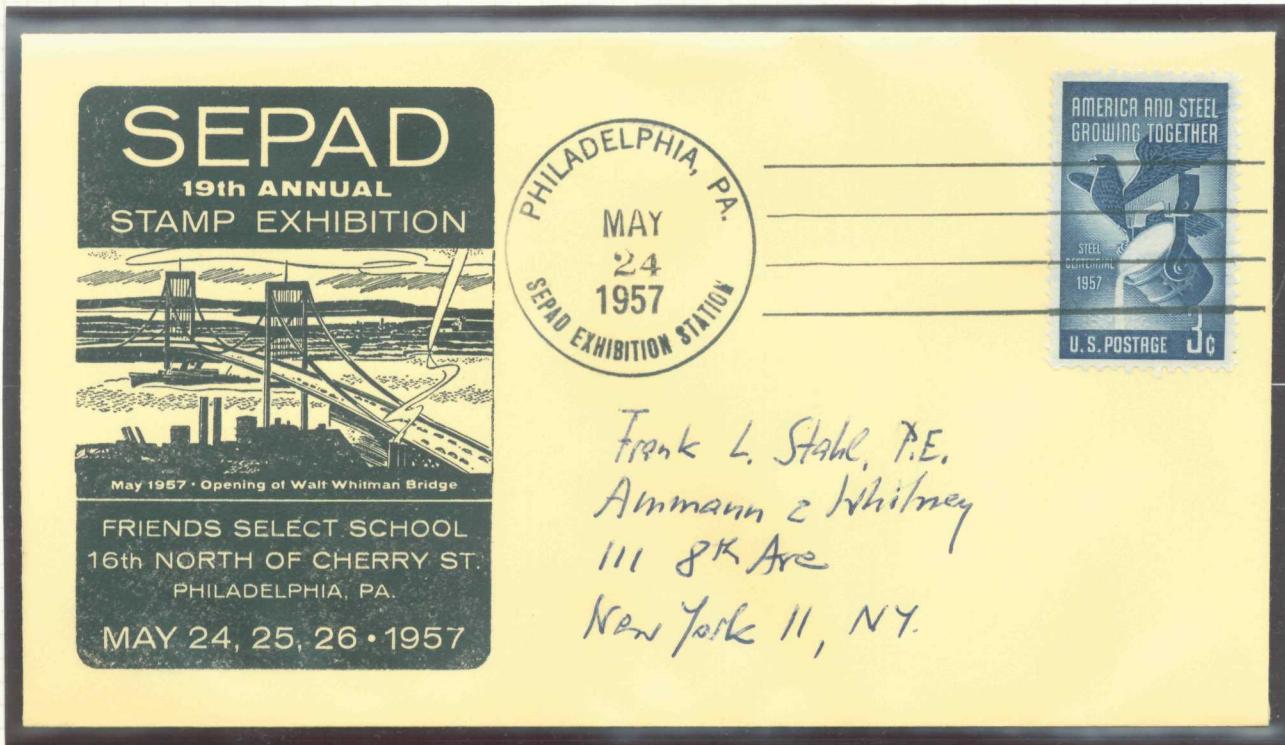
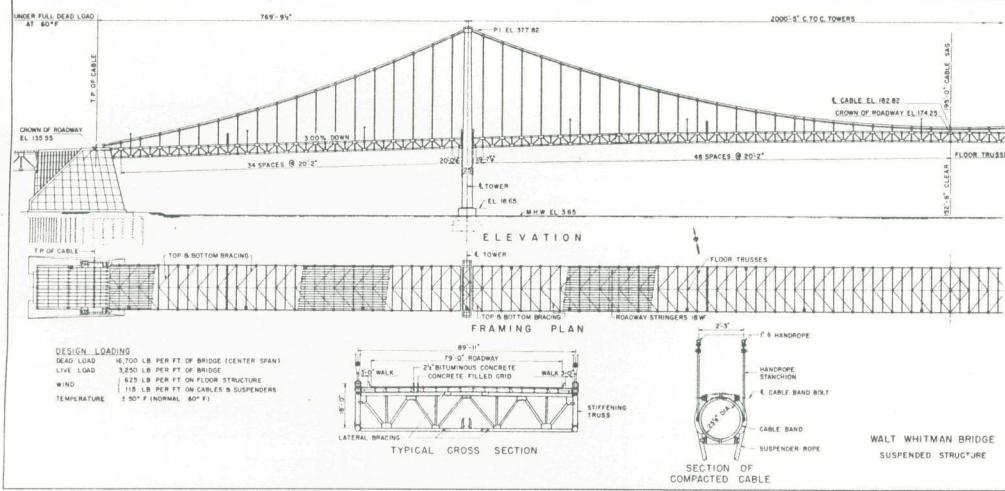


DELAWARE RIVER BRIDGE

BENJAMIN FRANKLIN BRIDGE

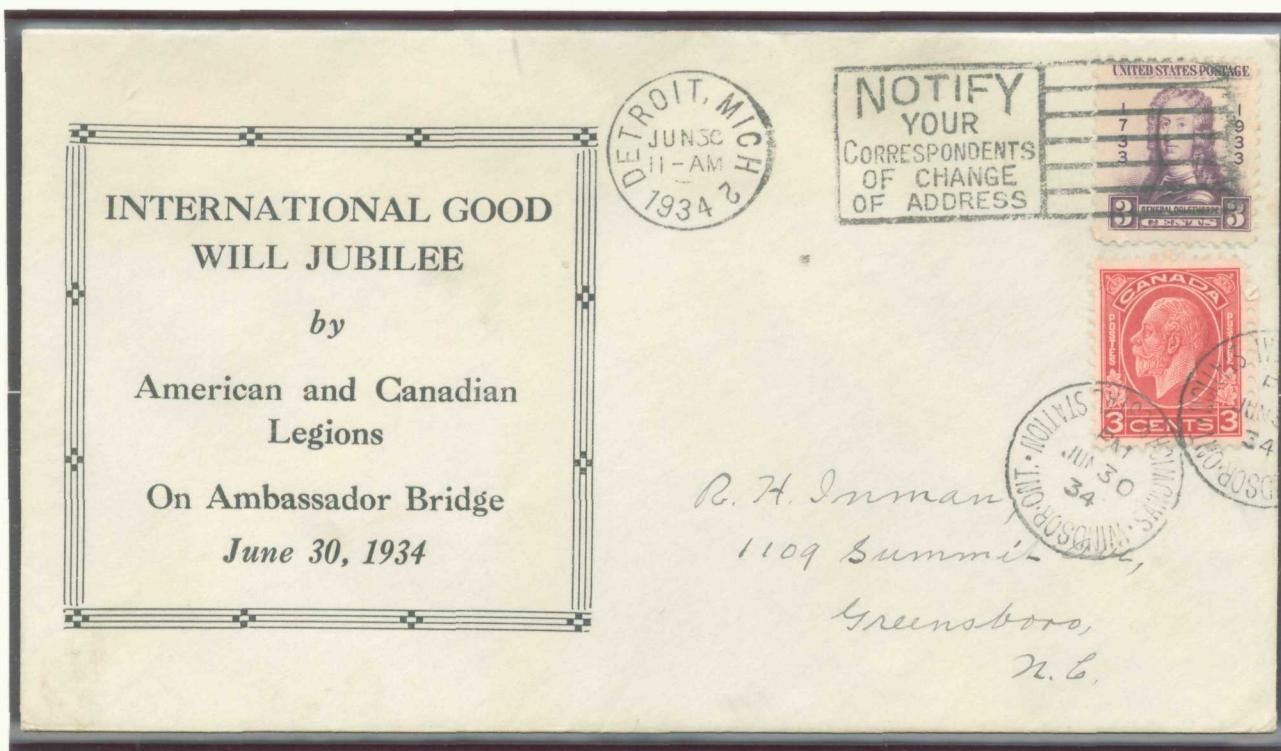
WALT WHITMAN BRIDGE

The Walt Whitman Bridge crosses the Delaware River south of Philadelphia. It has a main span of 2000 ft and side spans of 770 ft. Design by Ammann & Whitney / Modjeski & Masters.



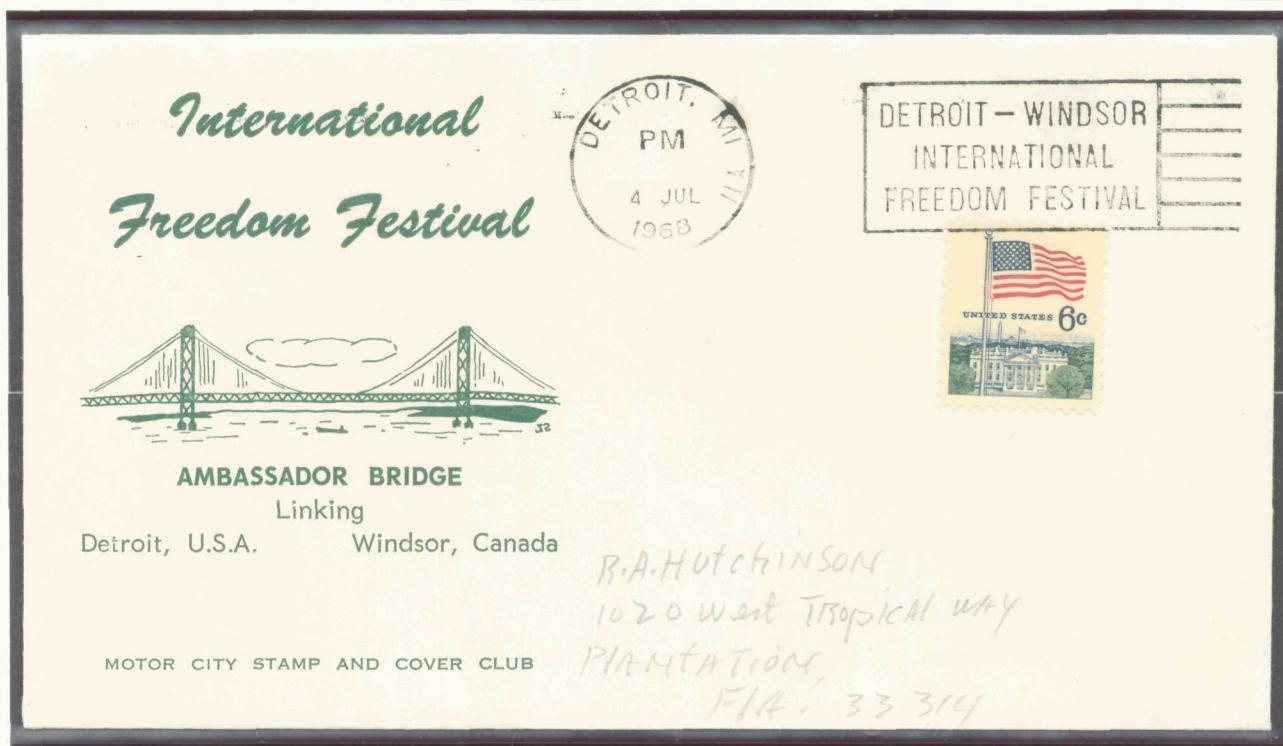
Detroit AMBASSADOR BRIDGE Windsor

USA Canada



The Ambassador Bridge across the Detroit River connects Detroit, Michigan, with Windsor, Ontario (Canada). The bridge was built by the McClintic - Marshall Company of Pittsburgh, PA. At the time of its completion and opening to traffic on November 11, 1929, the Ambassador Bridge was the longest suspension bridge in the world. It carries four traffic lanes and one sidewalk.

Length of main span	1850 ft
Length of Detroit side span	973 ft
Length of Windsor side span	817 ft
Length of Detroit approach viaduct	1431 ft
Length of Windsor approach viaduct	1419 ft
Total length abutment to abutment	6490 ft
Width of roadway	47 ft
Clear height at mid span	152 ft



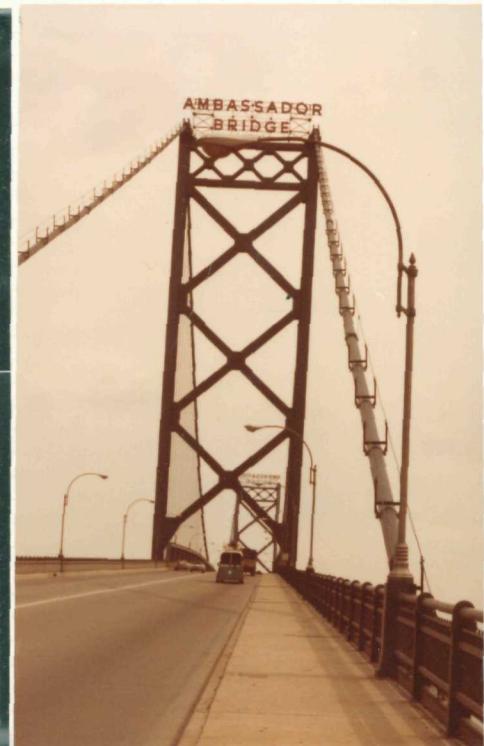
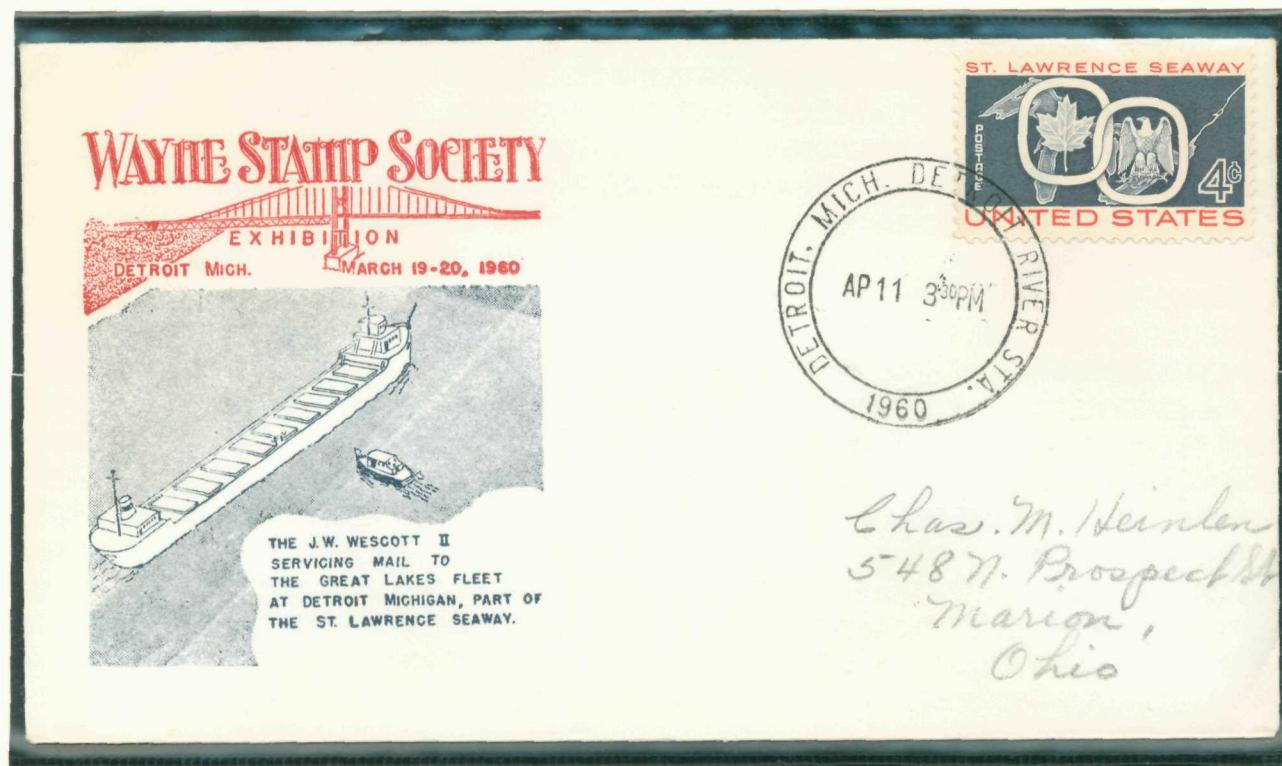


AMBASSADOR BRIDGE

DETROIT INTERNATIONAL BRIDGE COMPANY

P. O. BOX 32666

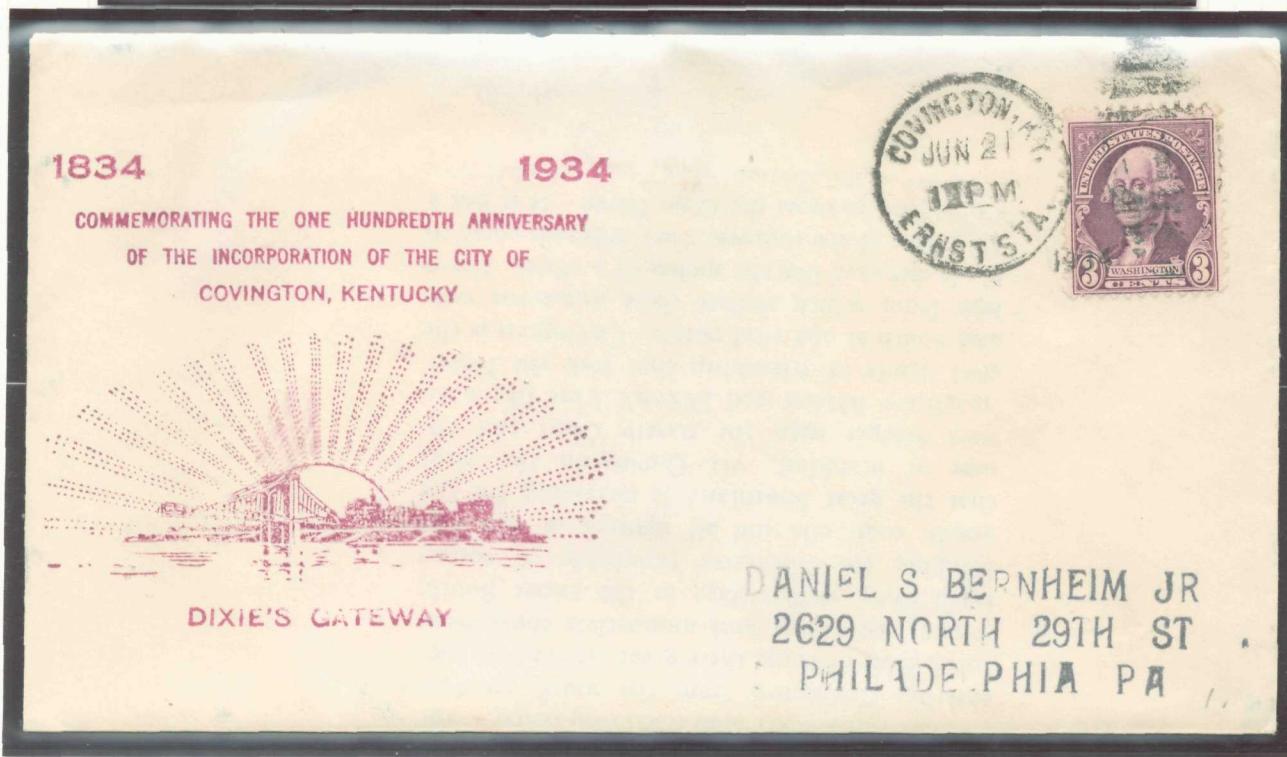
Detroit, Michigan 48232



60th Anniversary of Ambassador Bridge - Cachet shows picture of Golden Gate Bridge

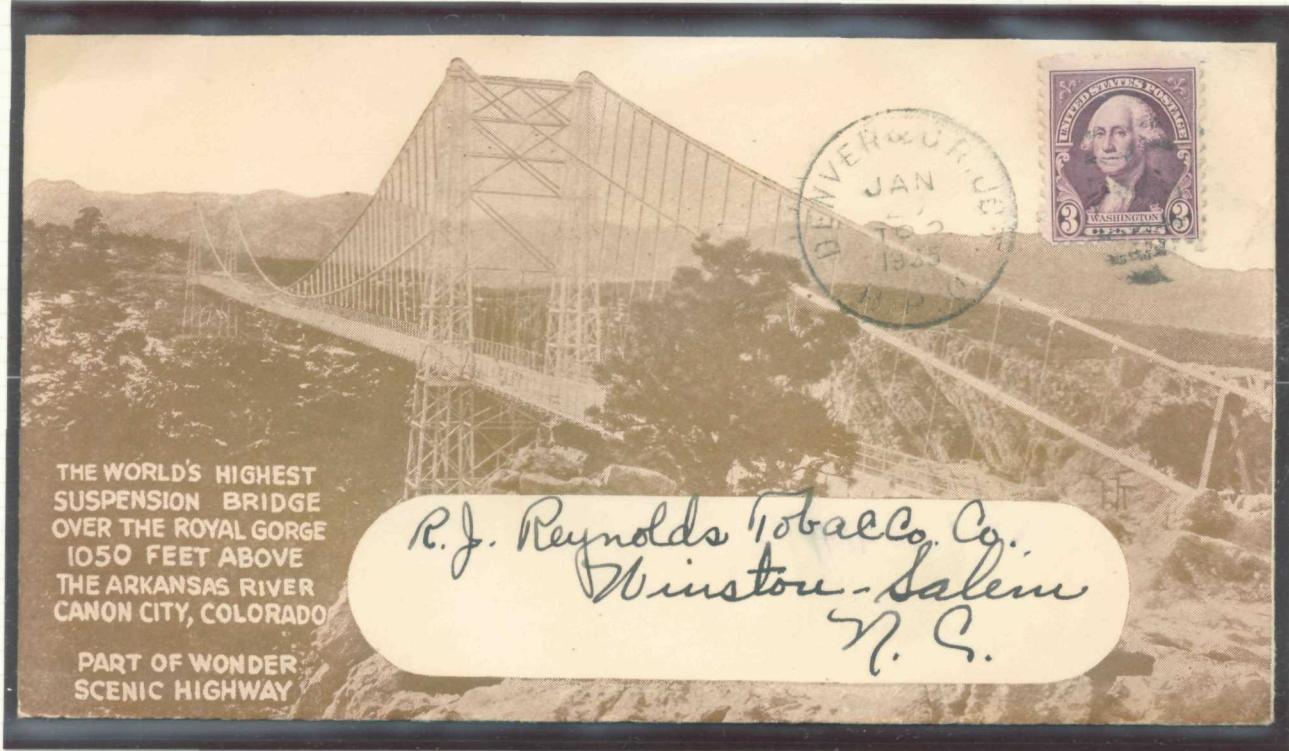
CINCINNATI - COVINGTON BRIDGE

This bridge, built by John A. Roebling, spans the Ohio River between Cincinnati, Ohio, and Covington, Kentucky. It was opened on December 1, 1866, and with a main span of 1,057 feet it was the biggest bridge in the world. It served as model for the Brooklyn Bridge.



Royal Gorge Bridge

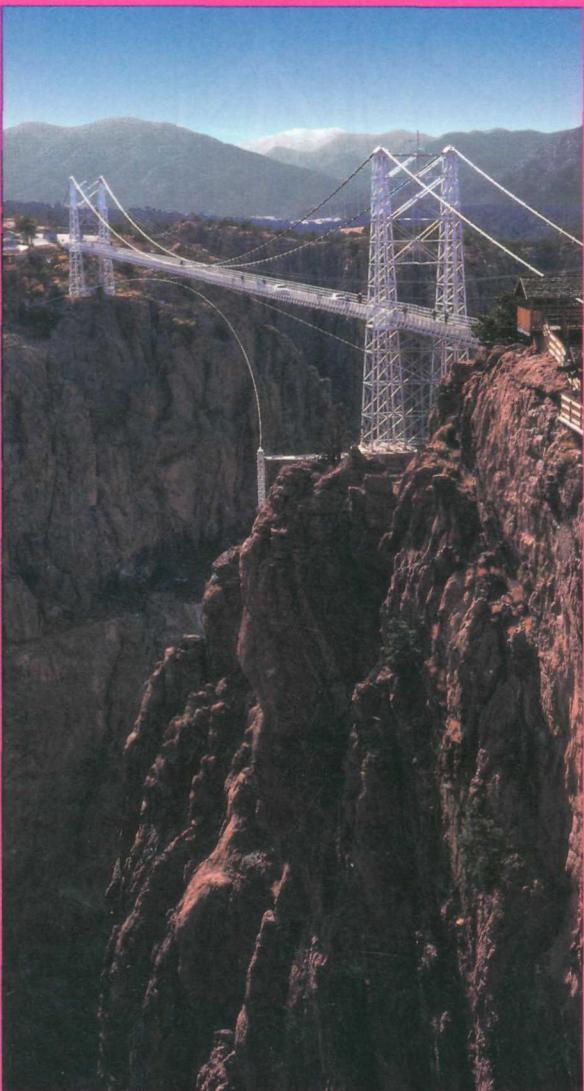
Canon City, Colorado



The Royal Gorge Bridge is considered the world's highest suspension bridge at 1,053 ft above the Arkansas River. The unstiffened bridge was designed and built by George F. Cole in 1929 with a main span of 880 ft, side spans of 130 and 190 ft, and a total length of 1,200 ft. The photograph shows the bridge after extensive rehabilitation in 1985, with the added wind cable stiffening system.

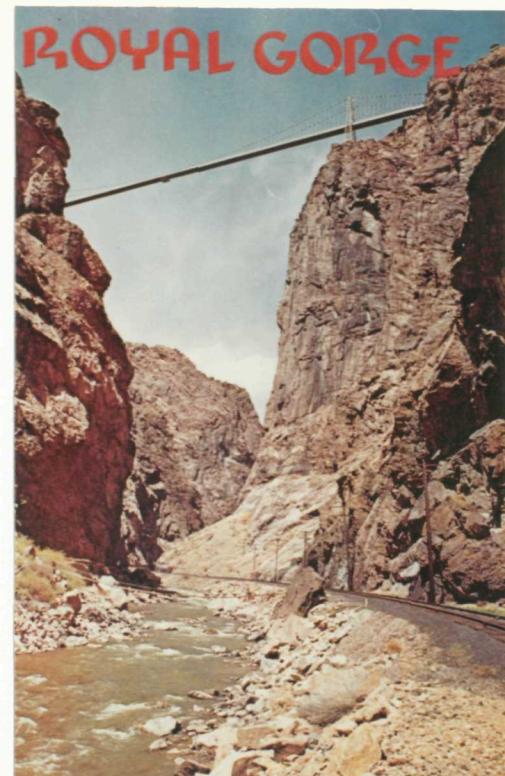
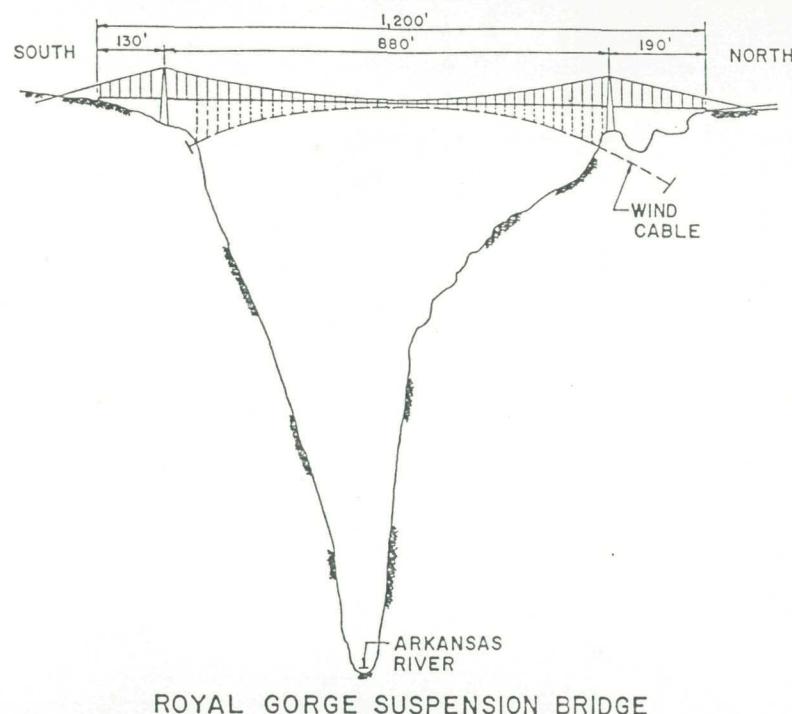


ROYAL GORGE B R I D G E

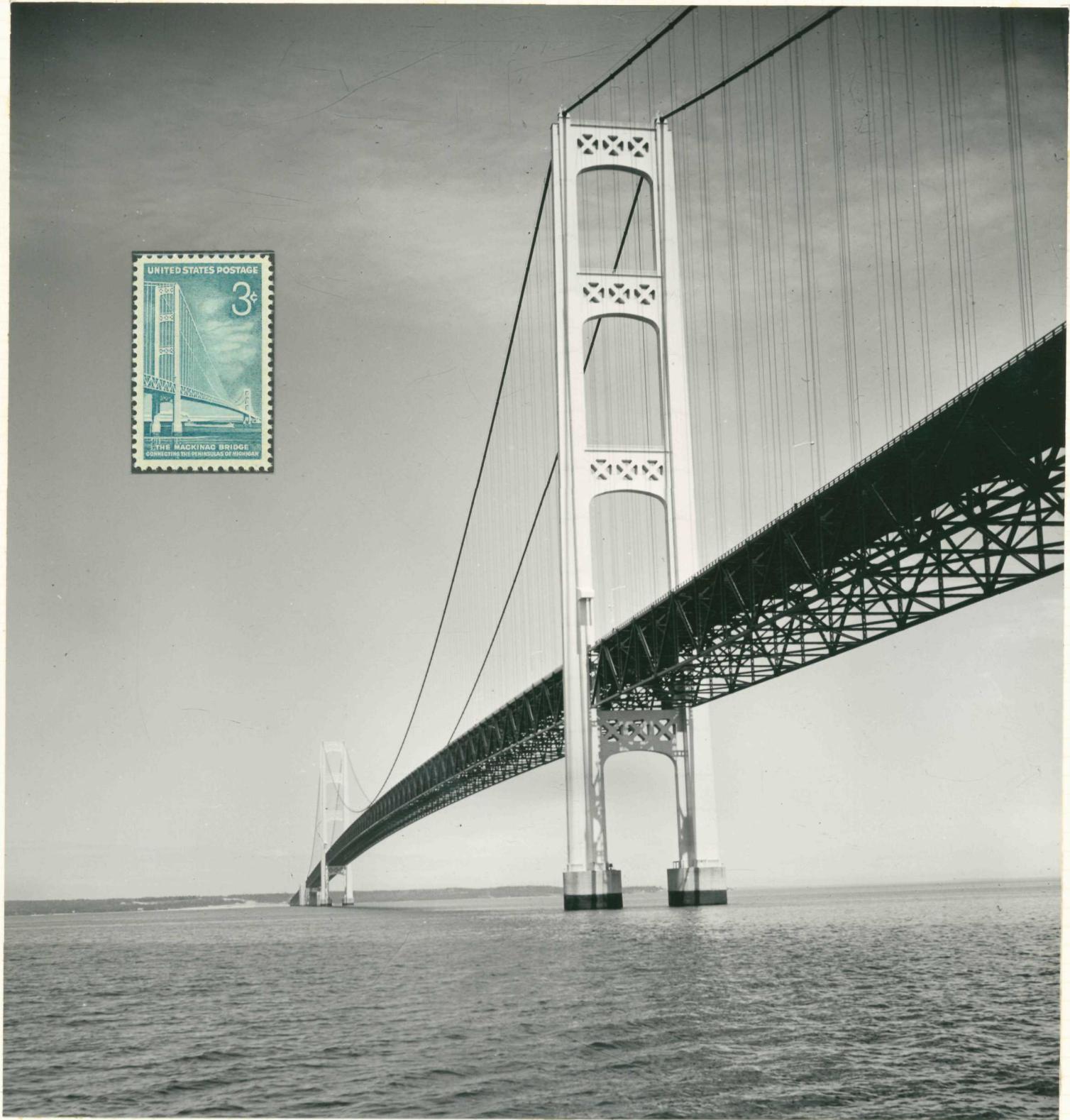


COLORADO'S PREMIER
SCENIC WONDER

Cañon City, Colorado



MACKINAC BRIDGE



Designed by D.B. Steinman

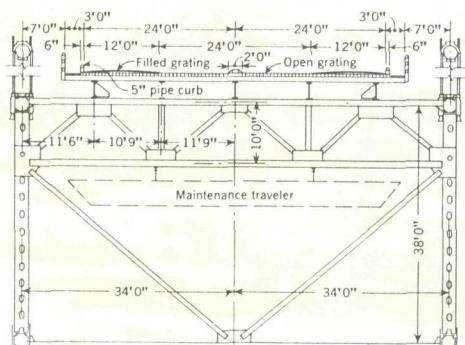
Completed 1958

Built by American Bridge Div. U.S.S. and Merritt-Chapman & Scott Corp.

Main span 3,800 ft - Side spans 1,800 ft. - Total length 17,913 ft.

Mackinac Straits Bridge

The Mackinac Bridge Center Span



CROSS SECTION, SUSPENDED SPAN

Center Span THE MACKINAC BRIDGE

The center span of a five-mile bridge being constructed across the Straits of Mackinac, connecting Michigan's two great peninsulas at Mackinaw City on the lower, and St. Ignace on the upper. Designed by Dr. D. B. Steinman, this bridge has been engineered to withstand many times the recorded stresses of ice pressure, wind velocity, gravity and so forth.

Overall length of bridge is 5 miles, has four lanes for traffic. Center span 3800 feet long between two 565-foot towers, water clearance of 150 feet. Construction started in May 1954, scheduled for opening late in 1957.

Mackinac Straits Bridge

THE BRIDGE AT MACKINAC

By D. B. Steinman

In the land of Hiawatha,
Where the white man gazed with awe
At a paradise divided
By the Straits of Mackinac —

Men are dredging, drilling, blasting,
Battling tides around the clock,
Through the depths of icy water,
Driving caissons down to rock.

Fleets of freighters bring their cargoes
From the forges and the kilns;
Stone and steel — ten thousand barge loads —
From the quarries, mines and mills.

Now the towers, mounting skyward,
Reach the heights of airy space.
Hear the rivet-hammers ringing,
Joining steel in strength and grace.

High above the swirling currents,
Parabolic strands are strung;
From the cables, packed with power,
Wonder-spans of steel are hung.

Generations dreamed the crossing;
Doubters shook their heads in scorn.
Brave men vowed that they would build it
From their faith a bridge was born.

There it spans the miles of water,
Speeding millions on their way;
Bridge of vision, hope and courage,
Portal of a brighter day."



THE MACKINAC BRIDGE

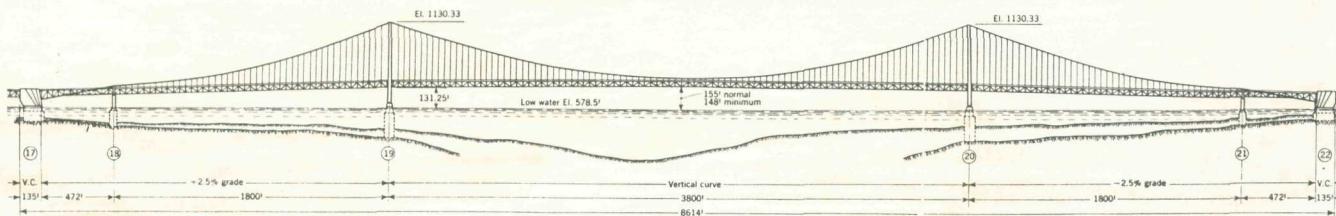
State of Michigan

Spanning the Straits of Mackinac, with southern terminals at Mackinaw City and northern terminal at St. Ignace. Designed by Dr. D. B. Steinman, an internationally eminent bridge engineer, this bridge is the world's largest and one of the most beautiful. Located in one of the country's most beautiful areas. This poem by Dr. Steinman is a fitting tribute to the courage and faith of those who made possible The Bridge at Mackinac...

"In the land of Hiawatha,
Where the white man gazed with awe
At a paradise divided
By the Straits of Mackinac"



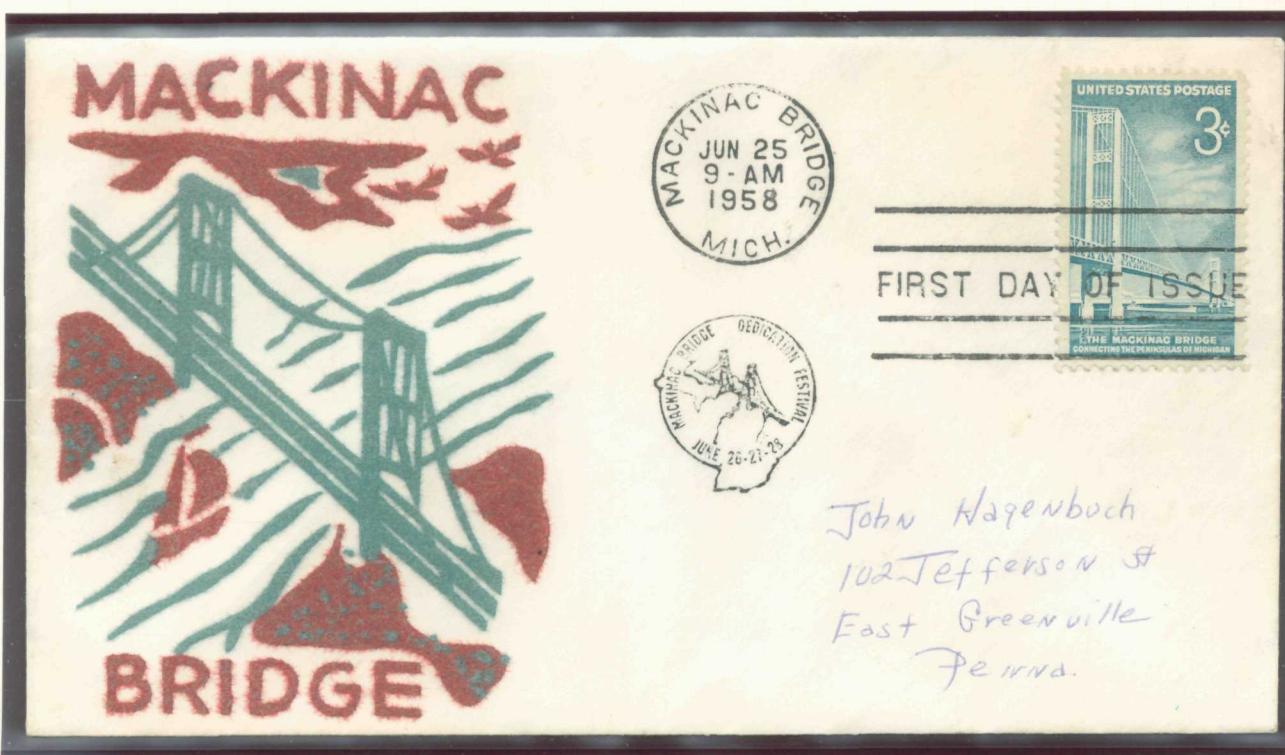
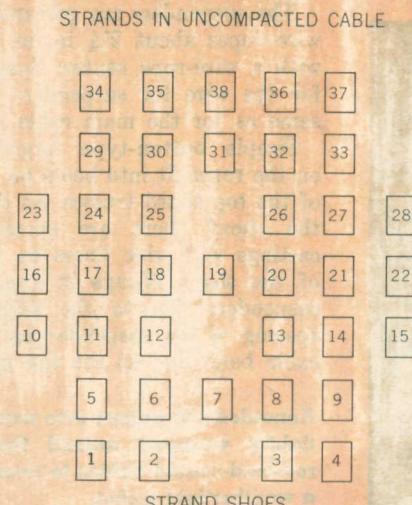
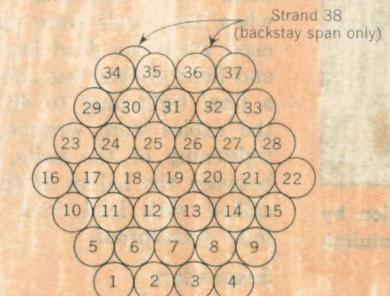
Mackinac Straits Bridge



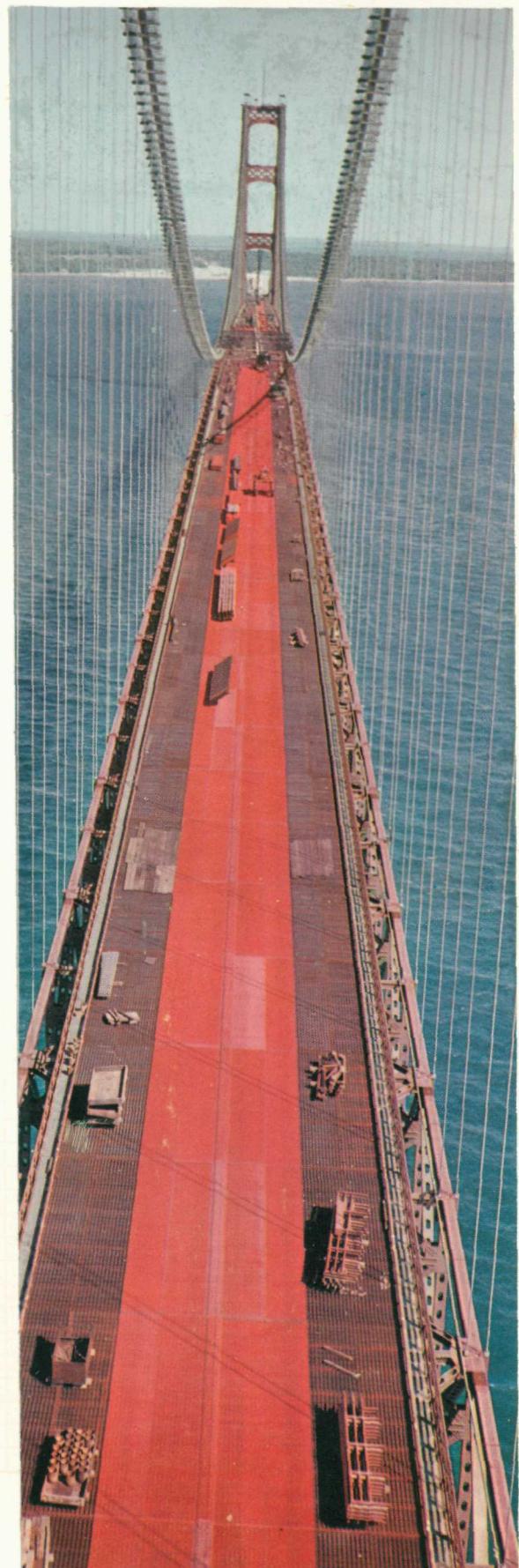
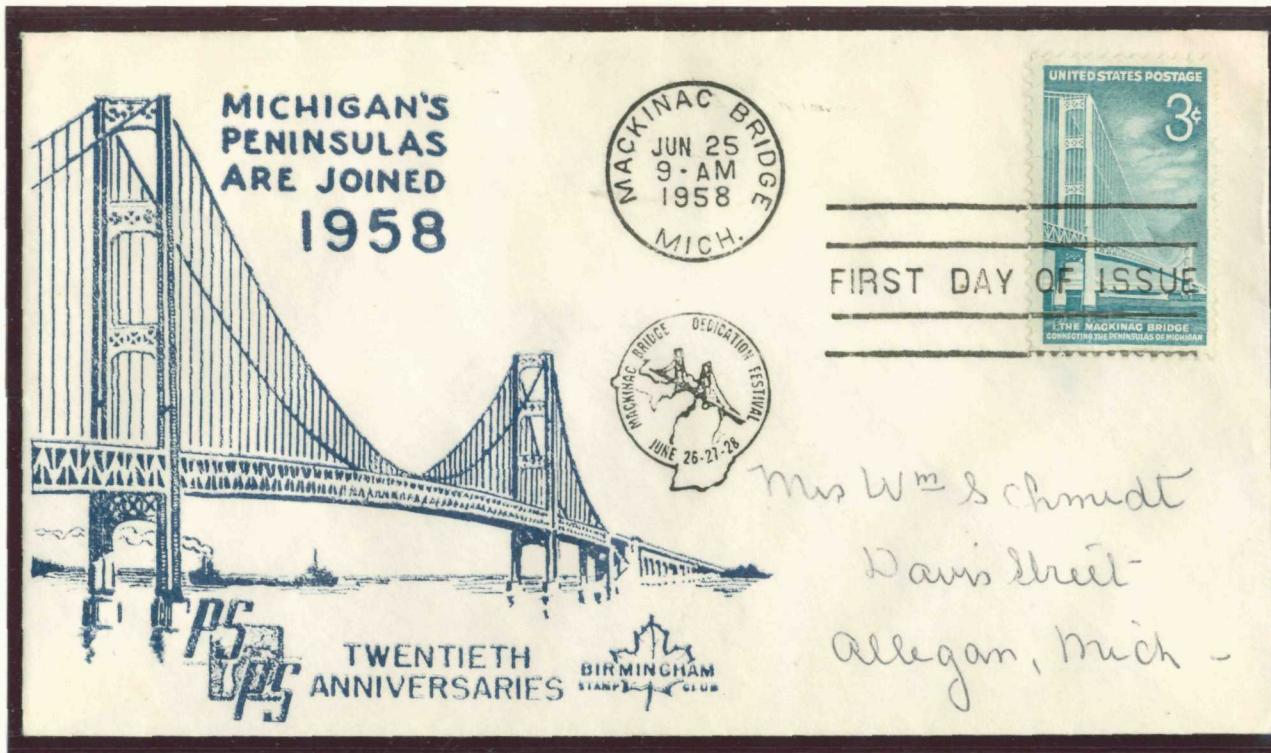
Mackinac Straits Bridge



FIG. 1. Strands in uncompacted cable (immediately below) and strand shoes in anchorage (bottom) are arranged as shown.



The Mackinac Bridge

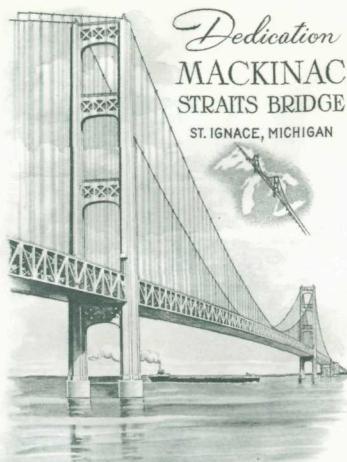




Mr. George L. Wren III
2 Louisburg Square
Boston 8, Mass.

Mackinac Bridge





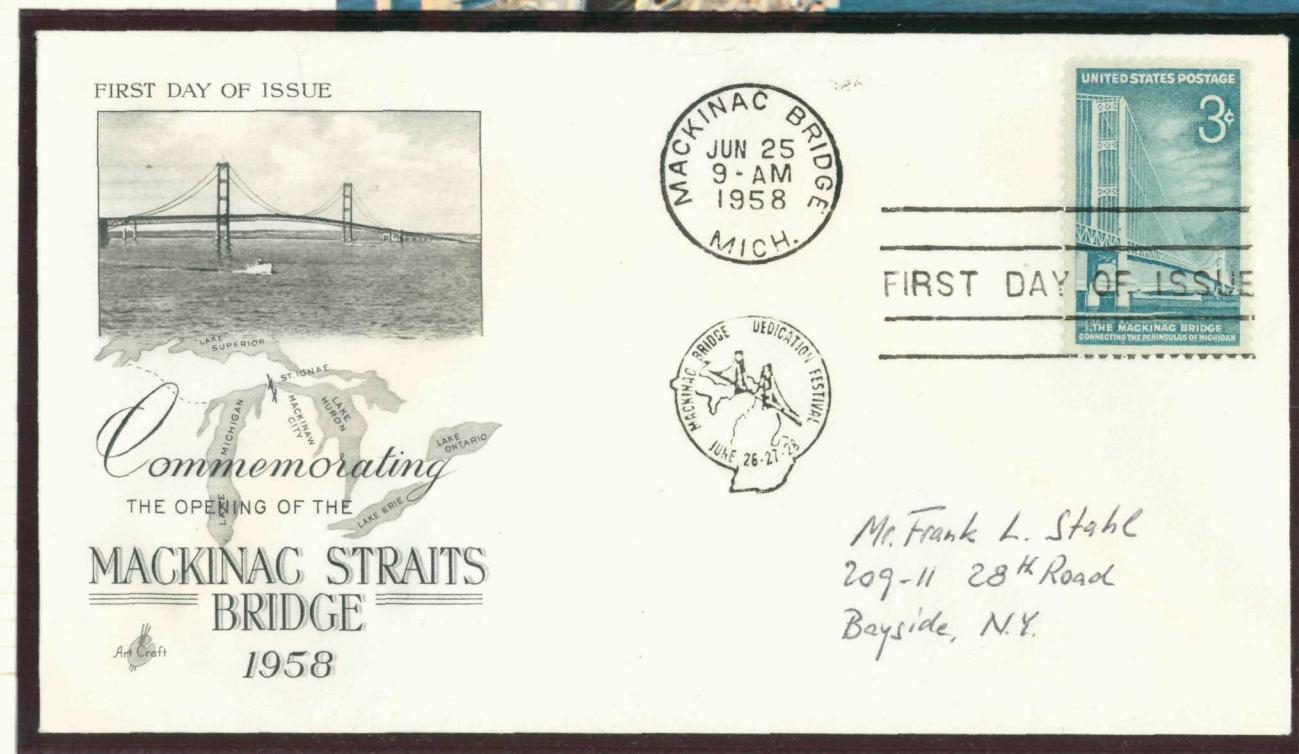
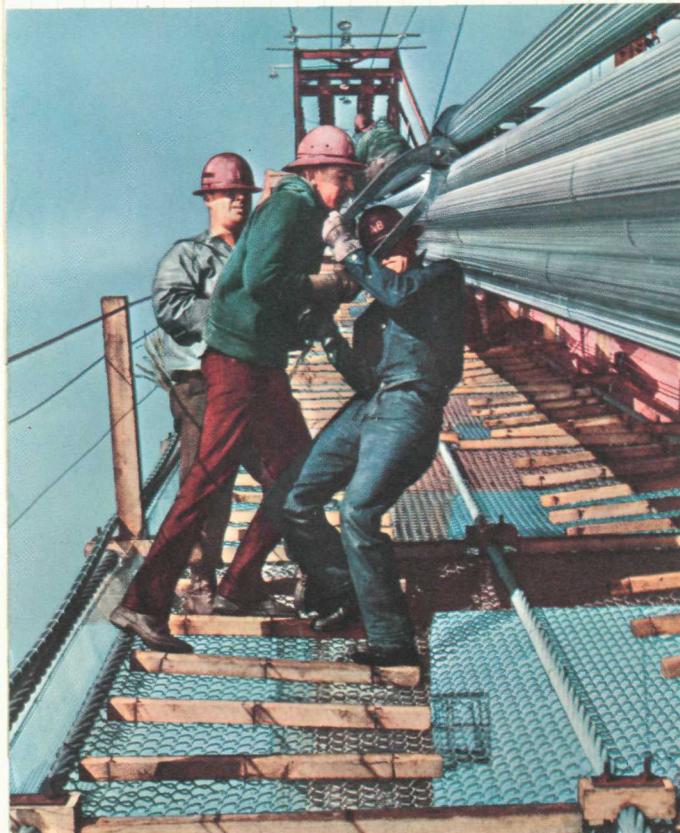
Dedication
MACKINAC
STRAITS BRIDGE
ST. IGNACE, MICHIGAN

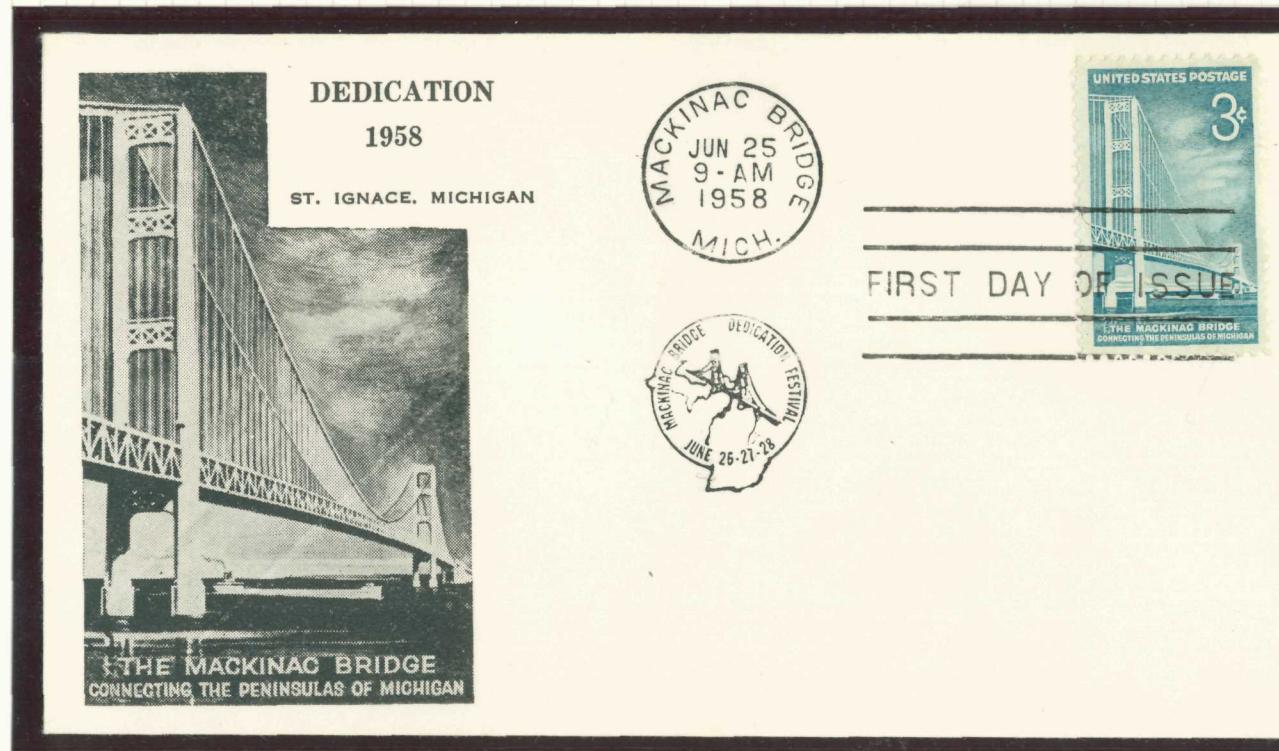
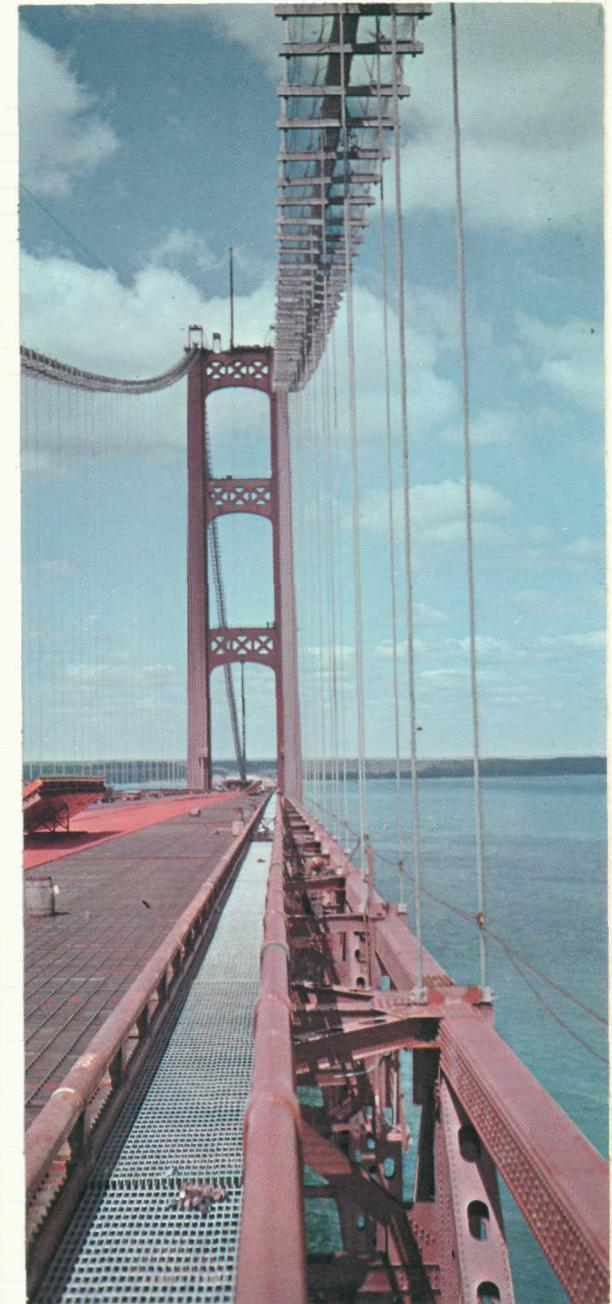


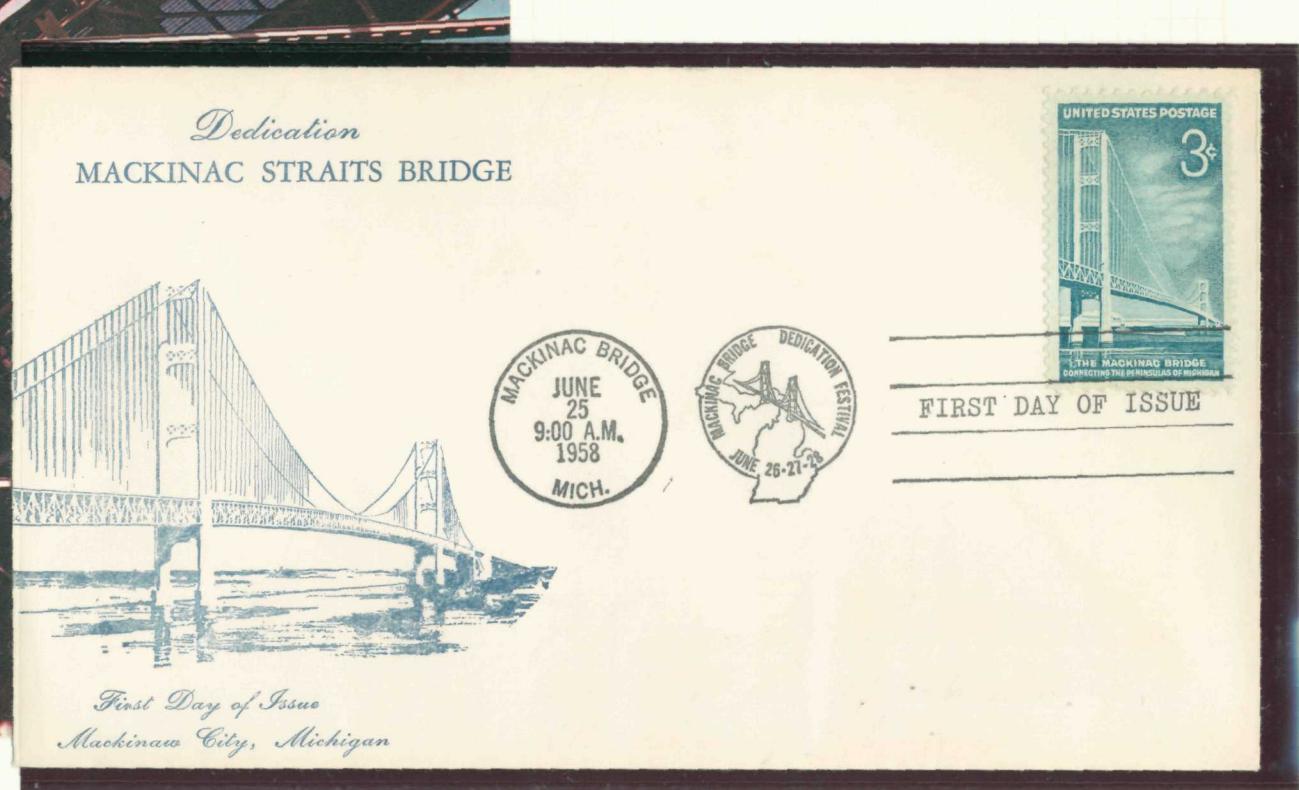
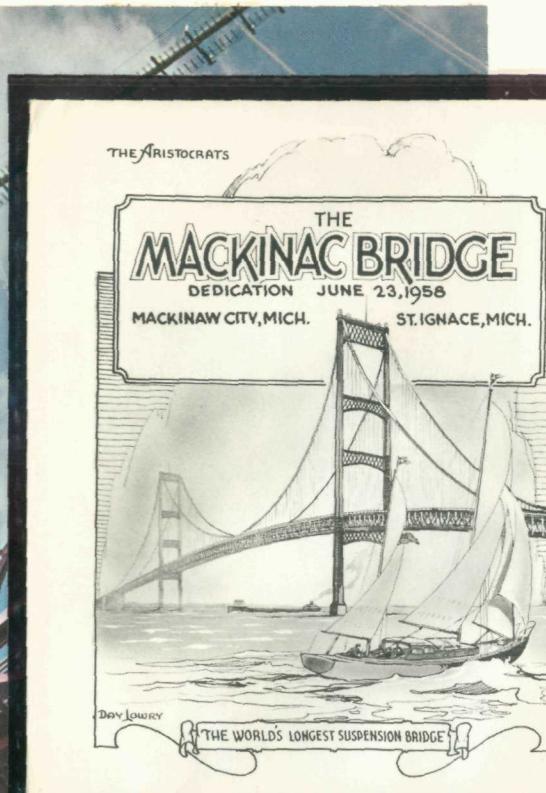
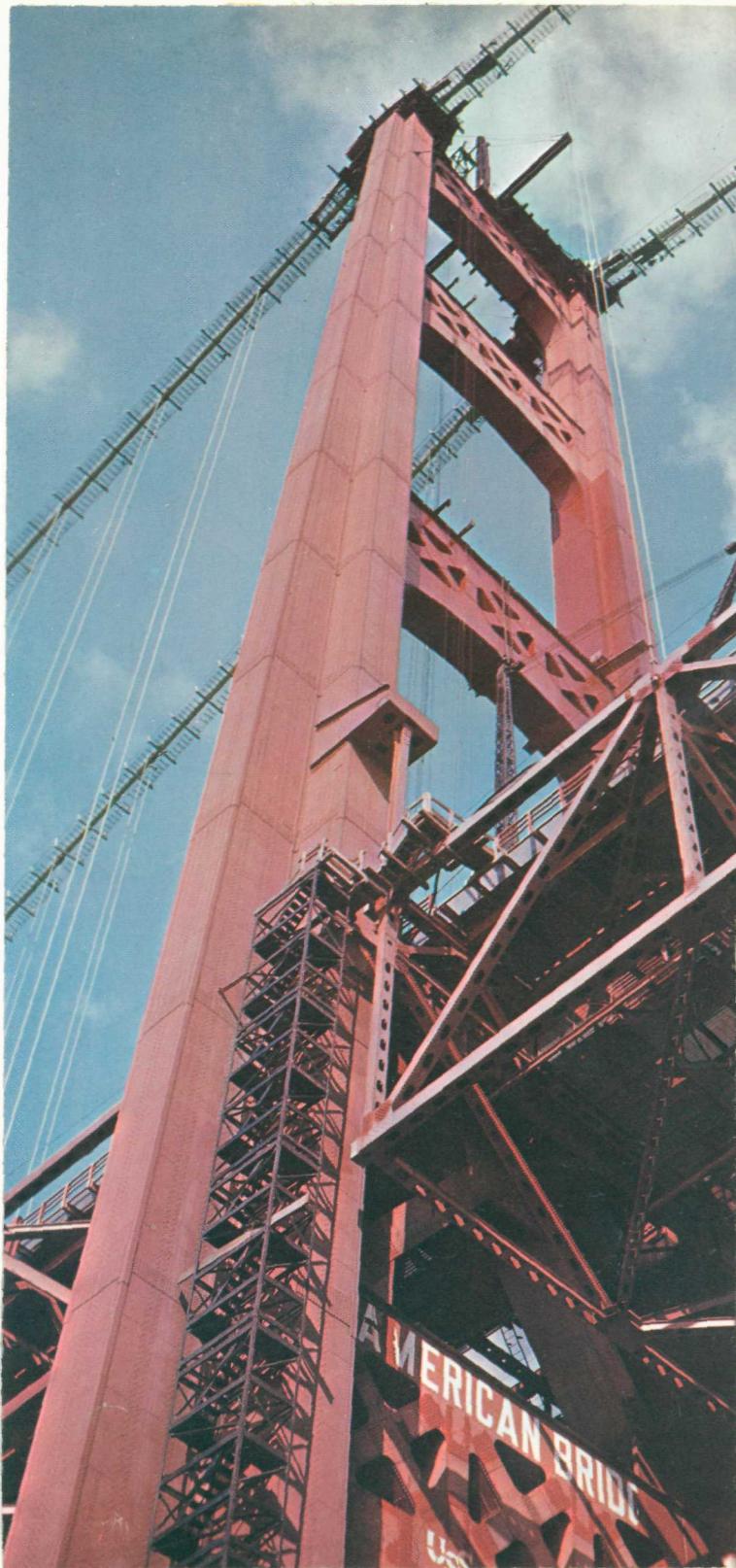
First Day of Issue

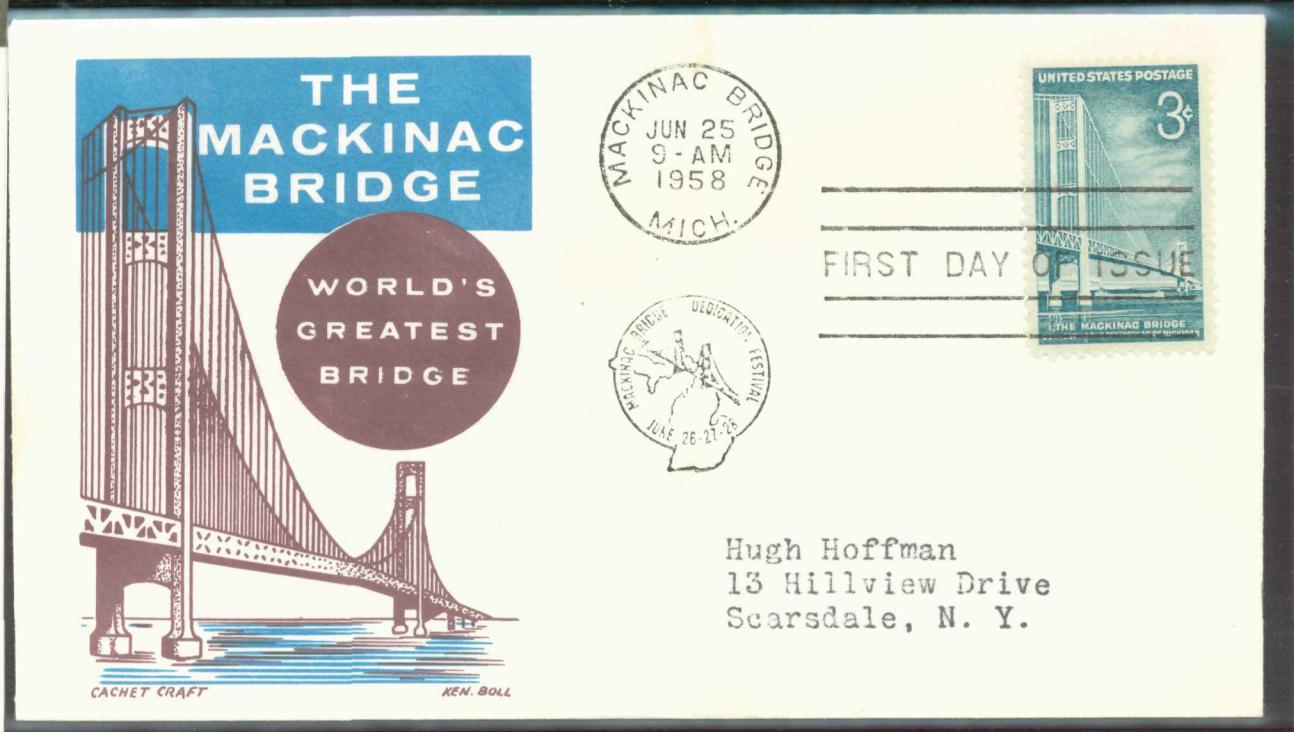
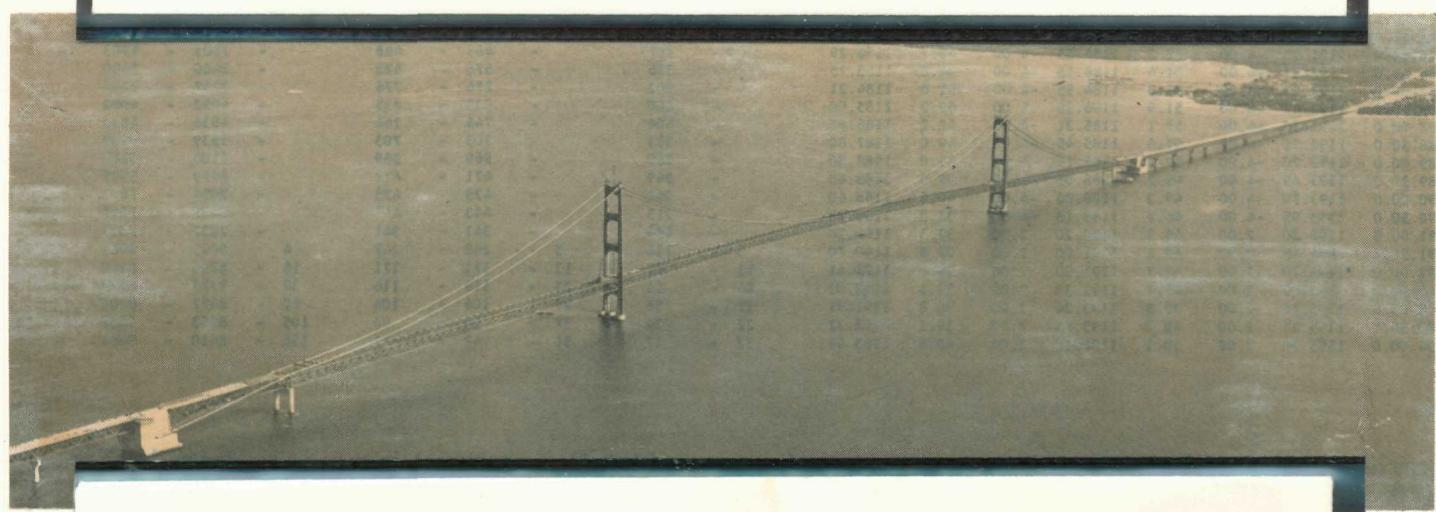
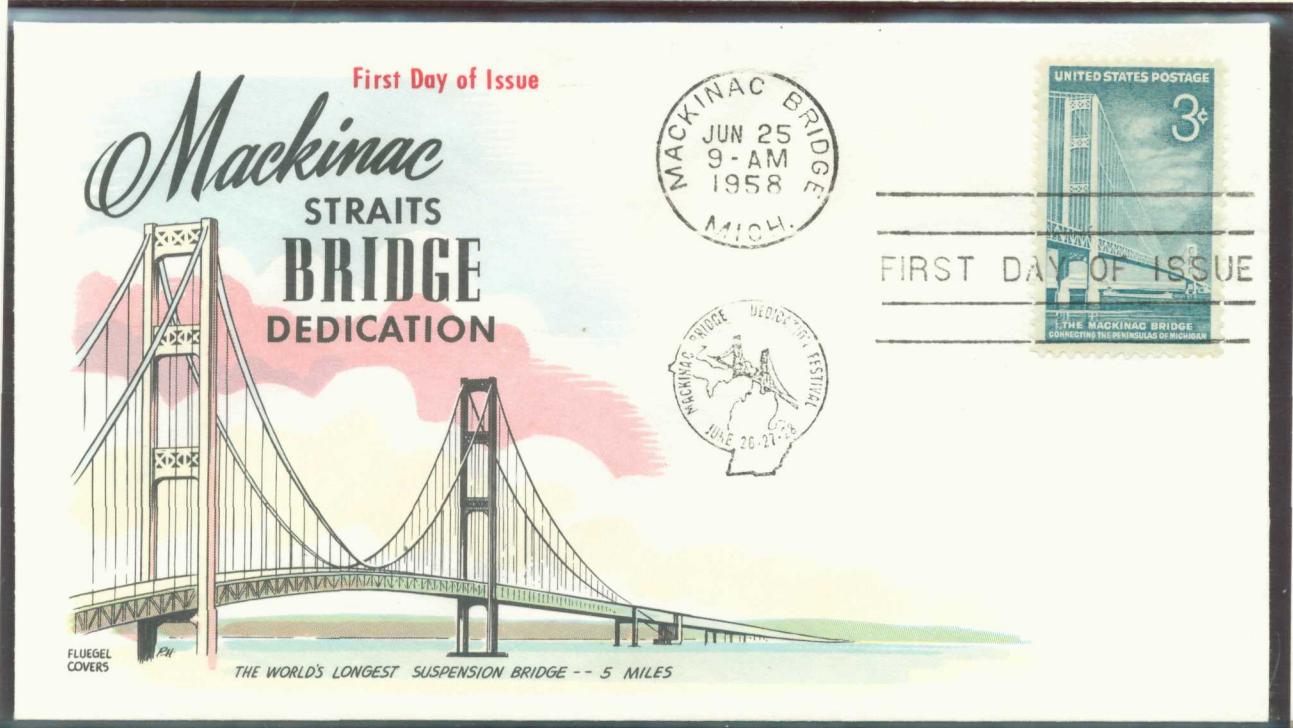
Automaister

JOSEPH M. BALOGA
11829 Nashville Drive
Detroit 5, Michigan









STATE OF MICHIGAN

MACKINAC

BRIDGE

OPEN NOV 1, 1957

Total length including approaches (5 miles)

26,444 Ft.

Length of suspension span (with anchorages)

8,614 Ft.

Length of main span

3,800 Ft.

Height of main tower above water

552 Ft.

Piers below water

206 Ft.

Minimum clearance

148 Ft.

Cables 24½" diameter, 12,580 wires in each cable.

42,000 Miles

Total length of cable wire

\$100,000,000.

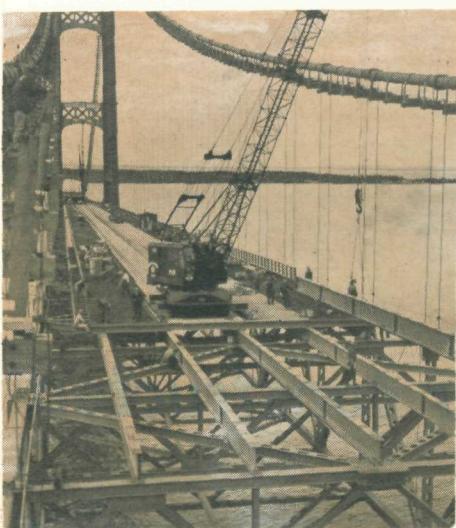
Total cost

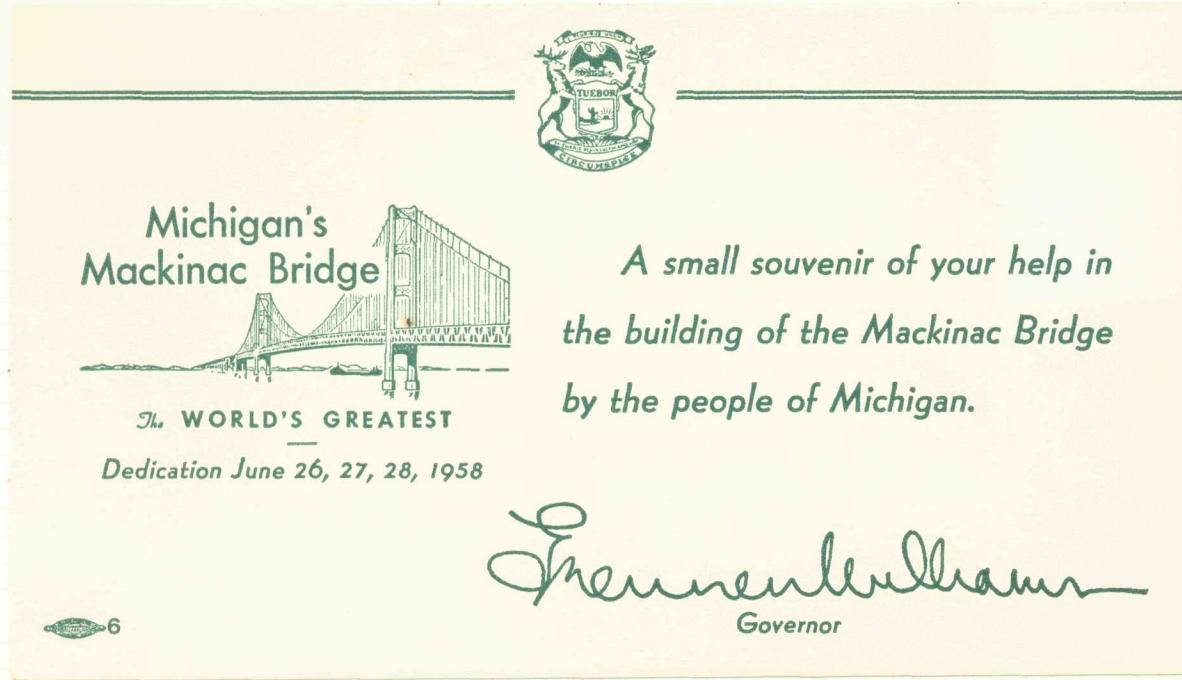
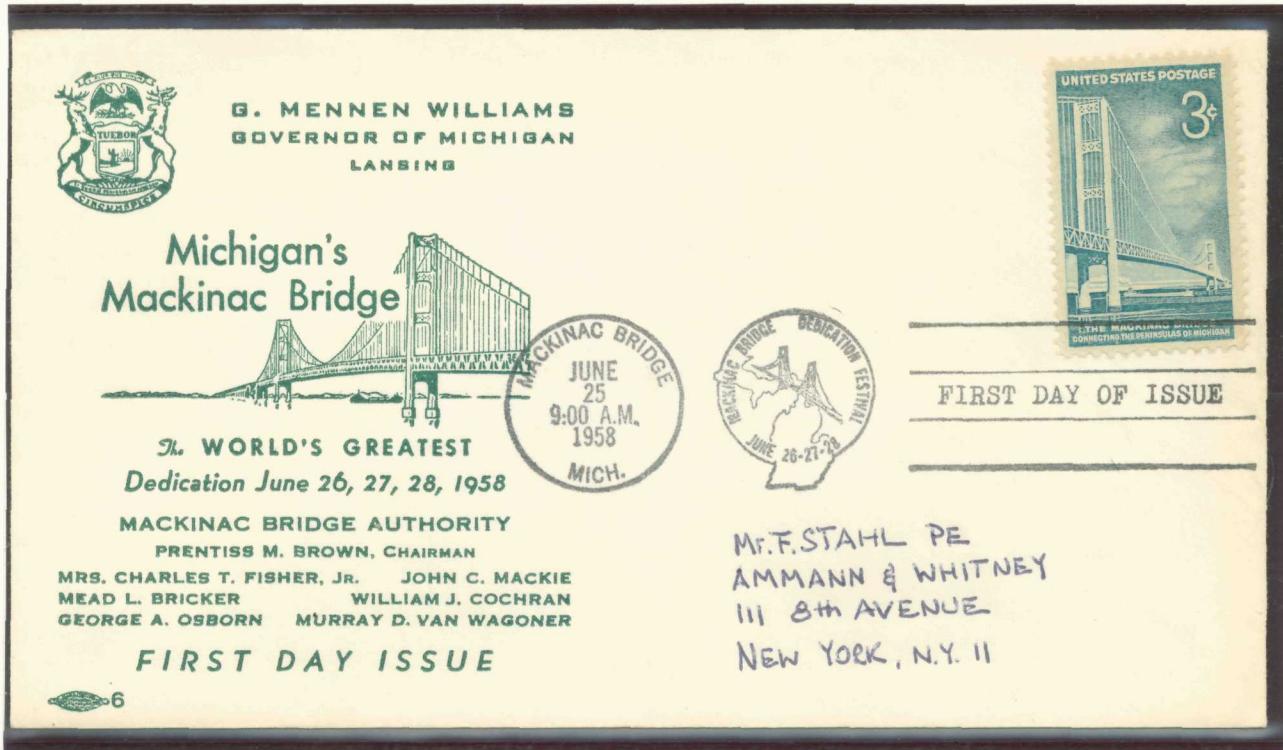
Total length including approaches (5 miles)	26,444 Ft.
Length of suspension span (with anchorages)	8,614 Ft.
Length of main span	3,800 Ft.
Height of main tower above water	552 Ft.
Piers below water	206 Ft.
Minimum clearance	148 Ft.
Cables 24½" diameter, 12,580 wires in each cable.	
Total length of cable wire	42,000 Miles
Total cost	\$100,000,000.

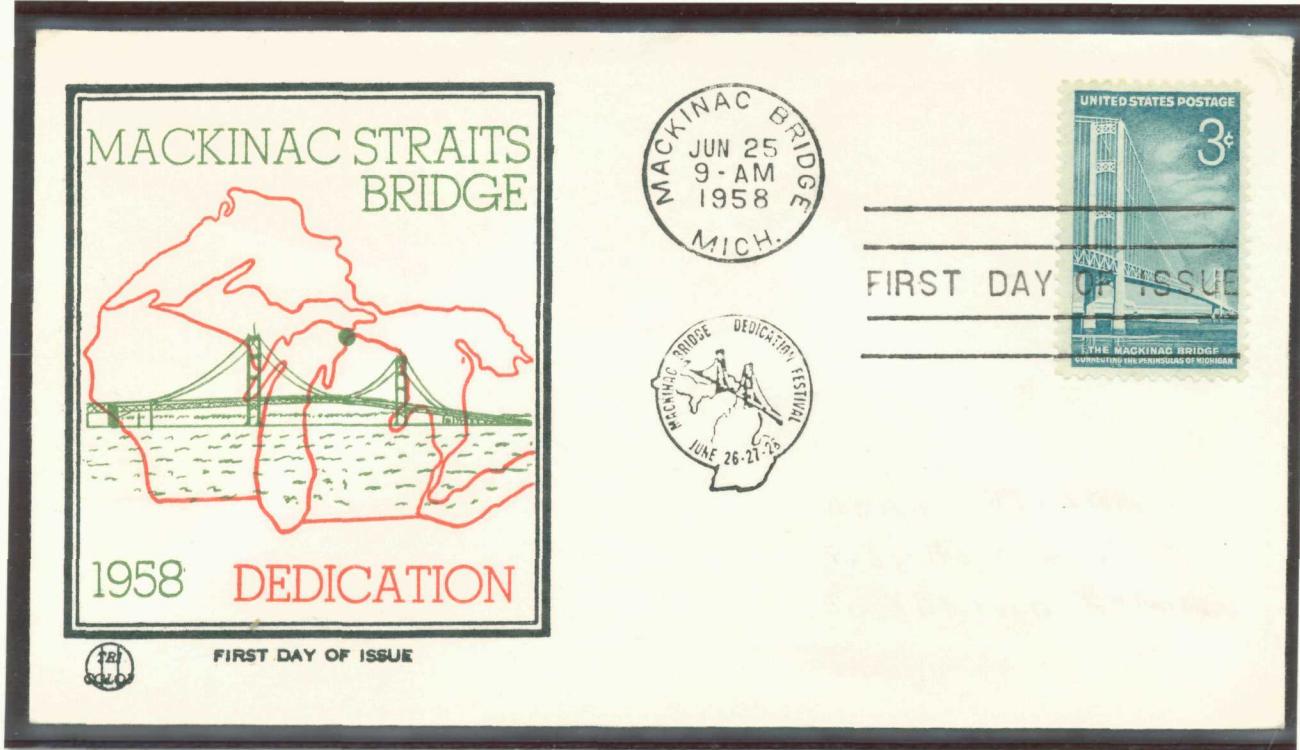
MACKINAC — PRONOUNCED MAC-KINAW



FIRST DAY OF ISSUE





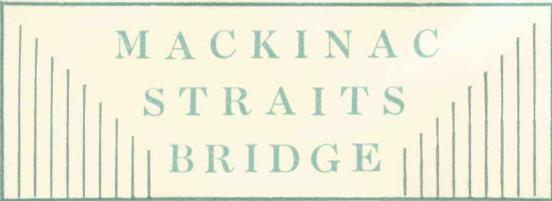


Facts and figures:

Location: Straits of Mackinac—between Mackinaw City and St. Ignace, Michigan	
Erection of Steel Superstructure Began on July 2, 1955	Opened to Traffic, November 1, 1957
Total Length of Steel Superstructure	19,205 ft.
Total Length of Suspension Bridge	8,614 ft.
Length of Main Span	3,800 ft.
Length of North Approach (Steel)	4,310 ft.
Length of South Approach (Steel)	6,281 ft.
Total Length of Bridge and All Approaches	26,444 ft.
Height of Main Towers Above Water	552 ft.
Depth of Tower Piers Below Water	206 ft.
The bridge provides a minimum clear height at center of main span of 148 ft.—sufficient to allow passage of the largest Great Lakes ships.	
Width of Roadway	48 ft.
Number of Main Cables—2	24½ inches
Total Estimated Weight of Superstructure	67,300 tons
Cost	\$96,400,033.33



Mackinac Straits Bridge



It is the longest suspension bridge in the world, between anchorages—that is, between the ends of the cables that hold up the roadway. This distance is 8,614 feet, or 1.64 miles. It crosses Lakes Huron and Michigan, four miles of water, to connect the main part of Michigan and its forest-covered northern peninsula. The Bridge is five miles in length. Its suspension span is the second largest in the world—3,800 feet. The cables are anchored at each end in concrete foundations each bigger than a football field. About 100 men working under Dr. David B. Steinman designed the Mackinac Bridge. It cost more than any other bridge thus far—\$99,800,000.



FIRST DAY OF ISSUE



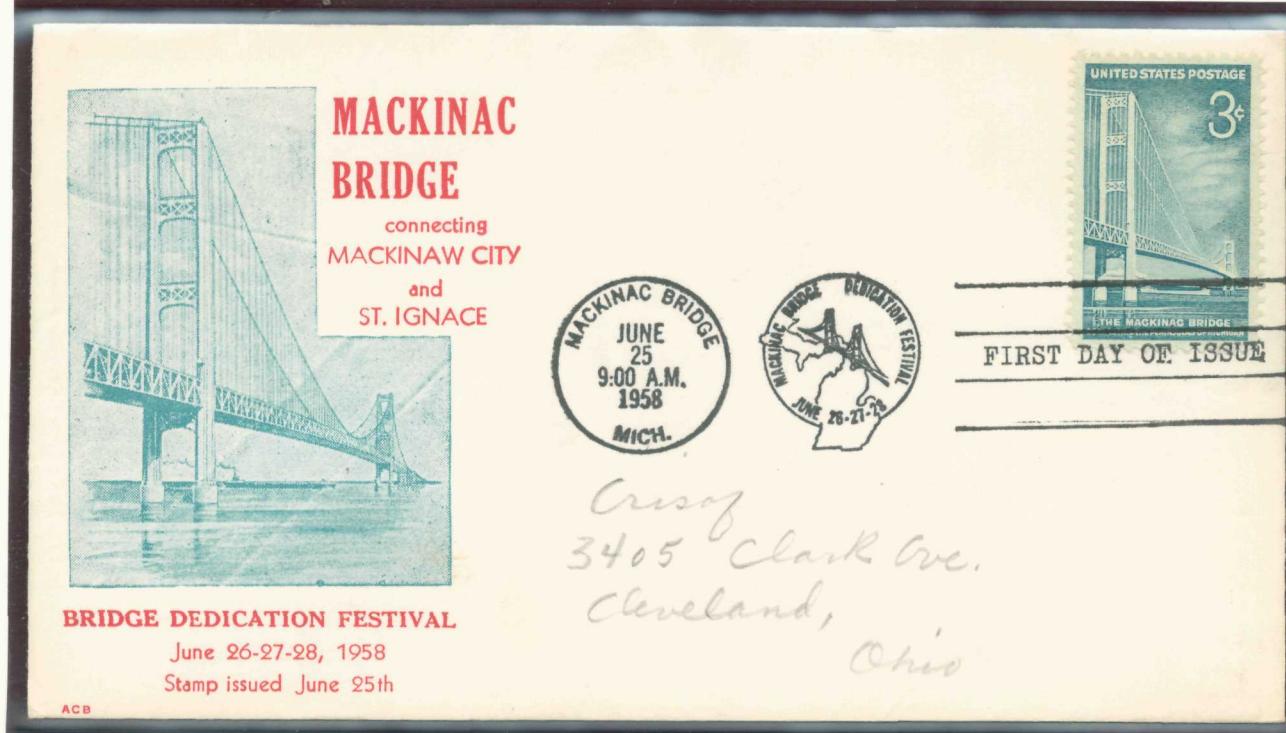
HUGO IFFERT
73 CHESTNUT STREET
EMERSON, N. J.



Center Span THE MACKINAC BRIDGE

The center span of a five-mile bridge being constructed across the Straits of Mackinac, connecting Michigan's two great peninsulas at Mackinaw City on the lower, and St. Ignace on the upper. Designed by Dr. D. B. Steinman, this bridge has been engineered to withstand many times the recorded stresses of ice pressure, wind velocity, gravity and so forth.

Overall length of bridge is 5 miles, has four lanes for traffic. Center span 3800 feet long between two 565-foot towers, water clearance of 150 feet. Construction started in May 1954, scheduled for opening late in 1957.



ANNUAL KENT PHILATELIC STAMP SHOW
and BOURSE

October 25-26, 1958



MORTON HOUSE

GRAND RAPIDS, MICHIGAN

Mackinac Bridge



TEANECK STAMP CLUB
TOWN HOUSE



TEANECK NEW JERSEY

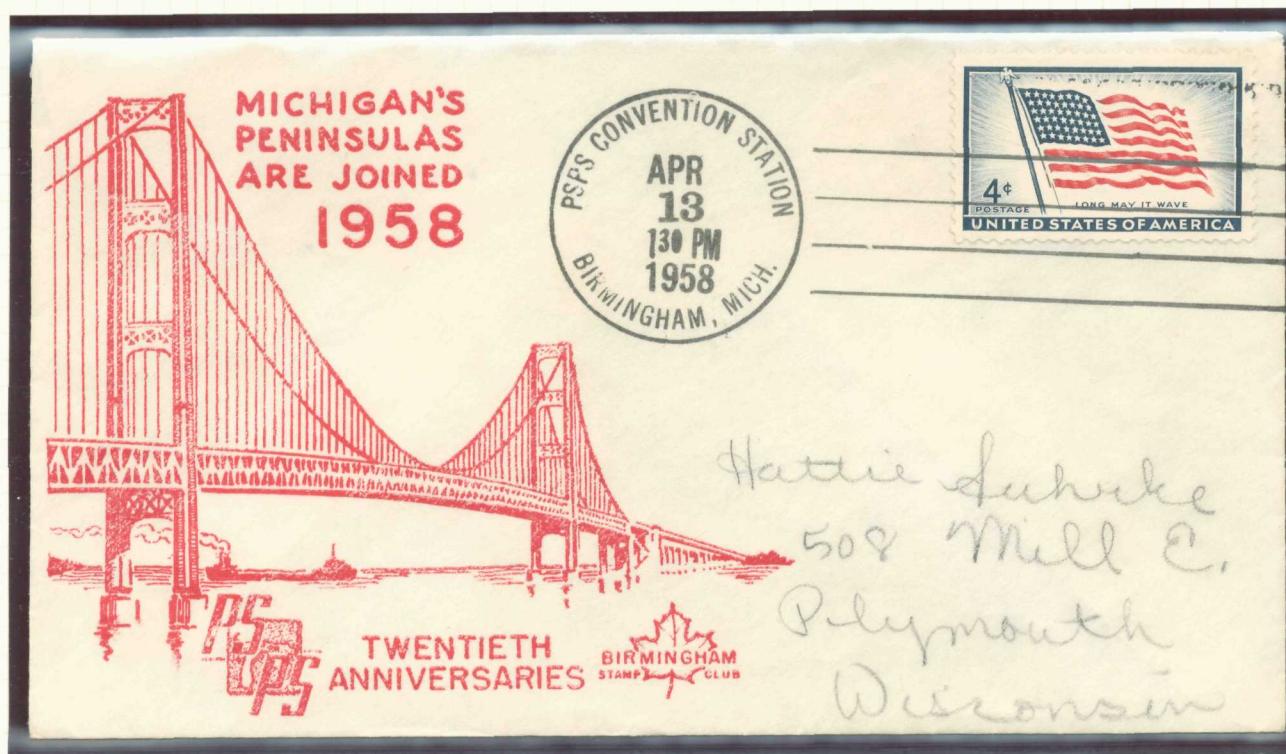
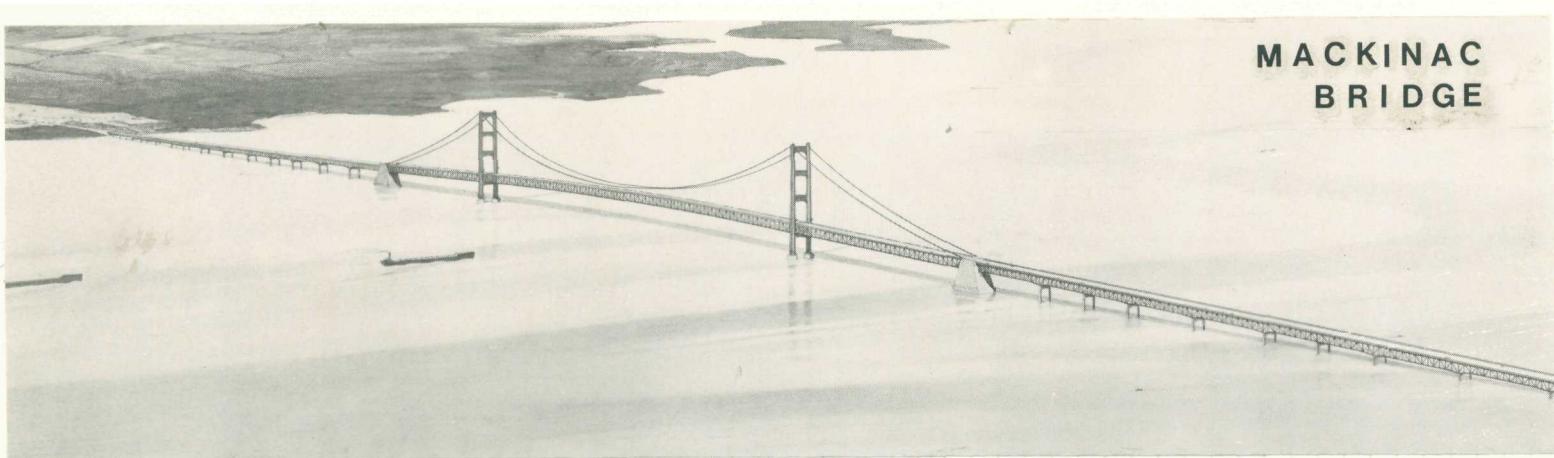


FIRST DAY OF ISSUE

IVAR N.
160 BOGERT RD.
RIVER EDGE, N.J.

The COLLECTOR'S CLUB
of BERGEN COUNTY

MACKINAC
BRIDGE



Tacoma Narrows Bridge

Washington Toll Bridge Authority.

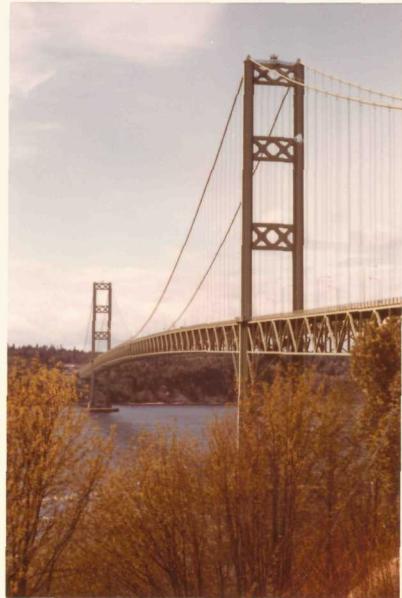
Charles E. Andrew, Chief Engineer.

Bridge across Puget Sound, built on foundations of structure which collapsed under wind action in 1940.

Mainspan 2,800ft; Side spans 1,100ft.
Completed 1950.

Towers and suspended structure by Bethlehem Steel Corp.

Cables by J.A. Roebling's Sons Corp.



Stamp pictures old Niagara Railway Suspension Bridge.