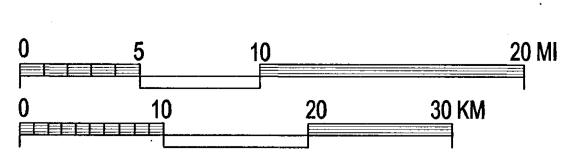
The Aldrich Towing-path Change Bridge, a cast- and wrought-iron truss with a curved upper chord, was one of two spans built in 1858 by John Hutchinson of Troy, New York, for use over the enlarged Erie Canal at the Rochester weighlock. It was moved in 1880 to replace a timber change bridge that had collapsed at Palmyra, New York. In 1915 the bridge was sold to a local farmer when the Palmyra segment of the Erie Canal was abandoned during construction of the New York State Barge Canal. The bridge was donated to the Town of Macedon in 1997 for use as a historical monument, after high water and ice had washed it from its Ganargua Creek abutments the previous year.

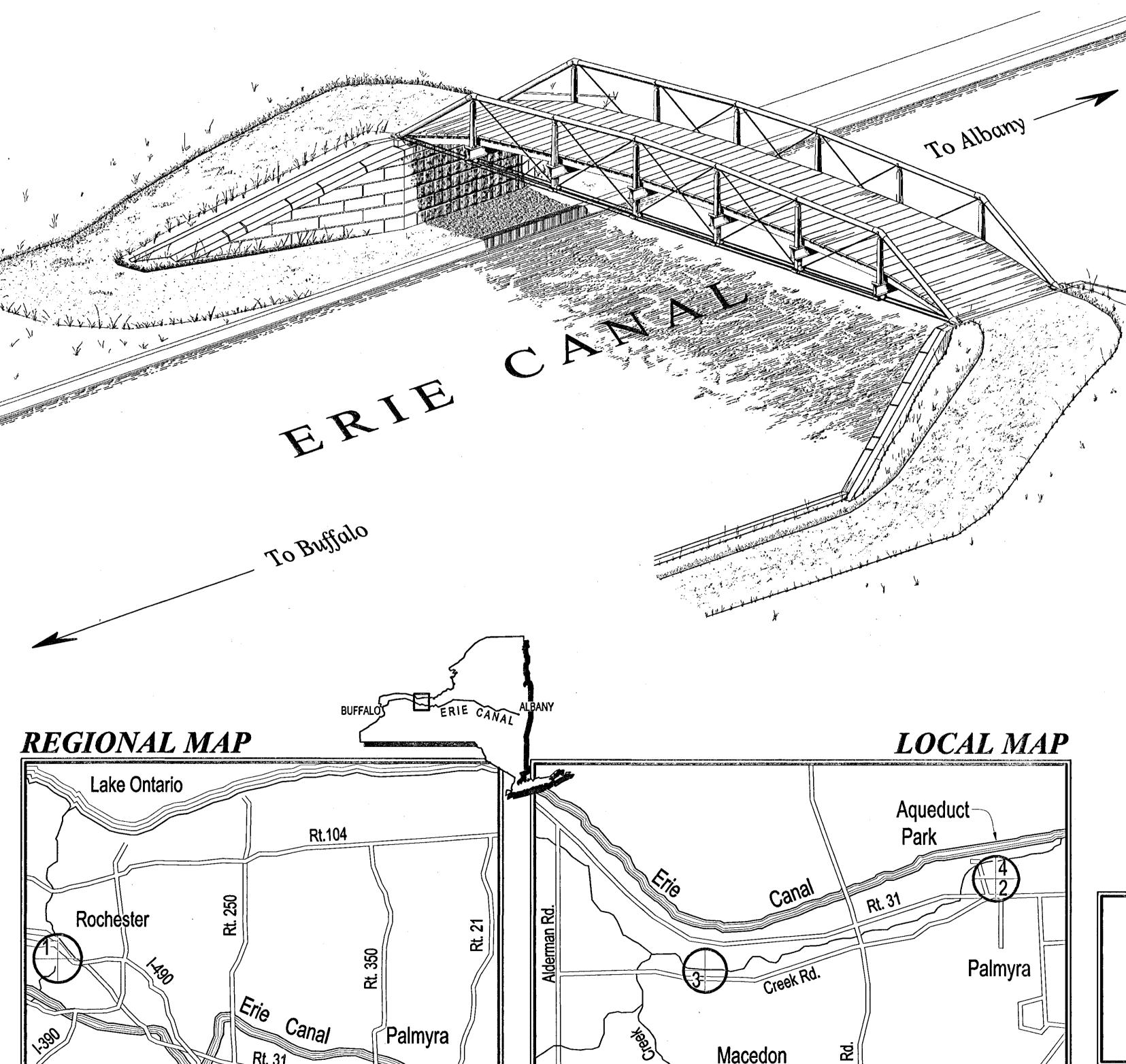
The change bridge was a special-use structure designed to allow efficient passage of the towmaster, team, whiffle-tree, and tow lines from one side of the canal to the other. Most change bridges were combined with highway or farm bridges but a small number, including the Aldrich Change Bridge, were built as single-purpose structures.

The Aldrich Change Bridge is presently the oldest dated iron bridge in New York State and one of only two bridges known to survive the first enlargement of the Erie Canal. In addition to its importance as an artifact of one of the nation's earliest and most significant public works undertakings, it draws attention to one of the lesser known, and largely overlooked, designs of Squire Whipple, nineteenth-century America's foremost theoretician-practitioner of metal truss bridge design. Whipple's change bridge was a modification of his "trapezoidal truss" and it demonstrated the same understanding of load distribution and sizing of individual truss members observable in his better-known designs.

Fabricated in the Waterford Iron Works of George W. Eddy and erected by John Hutchinson of Troy, the Aldrich Change Bridge was a product of the rich industrial complex then flourishing at the confluence of the Mohawk and Hudson Rivers in eastern New York. Hutchinson had emerged as a prominent contractor for iron bridge superstructures during the years of the canal's enlargement, competing directly with Whipple himself. After his death, his son John D. Hutchinson was successful in his own right building iron bridges of Whipple design.







TRIMLINE

Macedon/

This recording project is part of a local effort to restore the Aldrich Change Bridge and relocate it to a local park. Measured drawings, prepared to Historic American Engineering Record (HAER) standards, are a critical first step in this process. Once completed, the drawings will serve as baseline documentation for the restoration effort and will be donated to the HAER collection at the Library of Congress. The Aldrich Change Bridge Recording Project was co-sponsored during the summer and fall of 1998 under the general direction of E. Blaine Cliver, Chief, HABS/HAER; State University of New York (SUNY) at Buffalo, School of Architecture and Planning, Bruno B. Freschi, Dean; Dennis A. Andrejko, Interim Chair; and Beth Tauke, Interim Associate Chair.

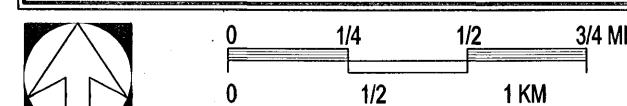
The Aldrich Change Bridge Restoration Committee, Jay Harding, Coordinator, extends thanks to Palmyra Mayor Pete Wilson, Wayne County Senior Planner Jim Coulombe, Canal Corridor Initiative (CCI) Administrator/ Wayne County Stuart I. Brown, Bill Rider, and Trica Lynn for their enthusiasm, support, and assistance.

The fieldwork, measured drawings, historical report, and photographs were prepared under the direction of Eric DeLony, HAER chief. Architect Bradley Wales, SUNY Buffalo lecturer, led SUNY students Nicholas Cameron, Anthony Caputo, Jason Dobbs, and Michael Worden in the field measurement and drawing documentation work. The Project Historian was William Chamberlin, PE, Schenectady, New York. Jet Lowe, HAER photographer, produced the large-format photographs.

Funding for this project came from the Department of Housing and Urban Development (HUD) as a grant for the Canal Corridor Initiative program.

## HISTORIC LOCATIONS: 12 34

- I. Rochester spanning Erie Canal (1858)
- 2. Palmyra spanning Erie Canal (1880)
- 3. Macedon spanning Ganargua creek (1915)
- 4. Palmyra Aqueduct Park (projected 2000)



E BRIDGE (1858) AQUEDUCT PARK

ALDRICH NEW YORK ERIE CANAL: /



