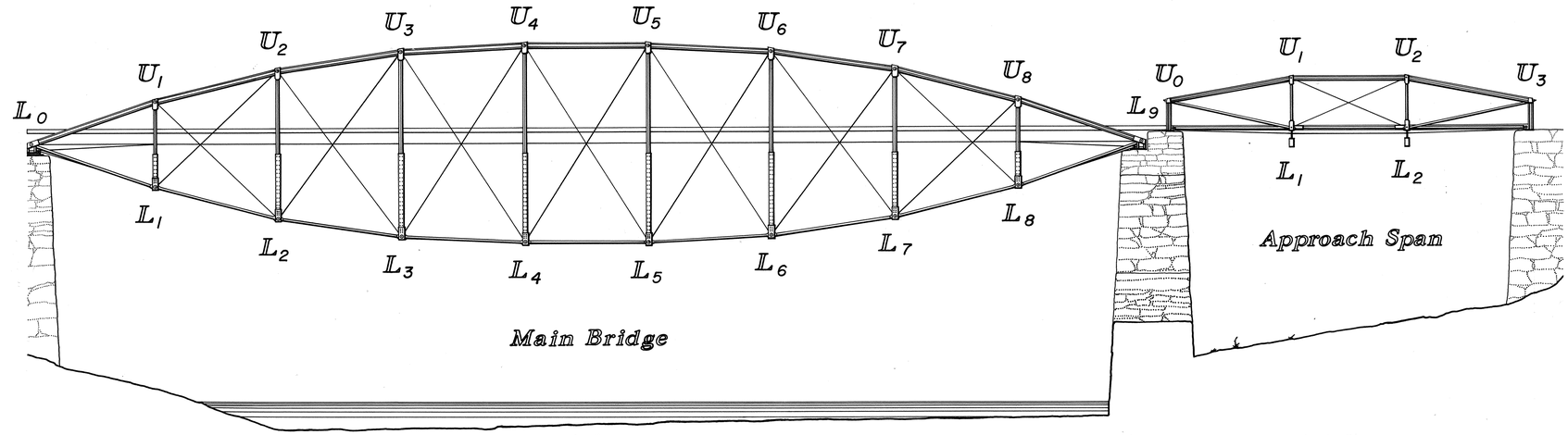
OLD CORINTH ROAD BRIDGE · 1885

HADLEY, NEW YORK

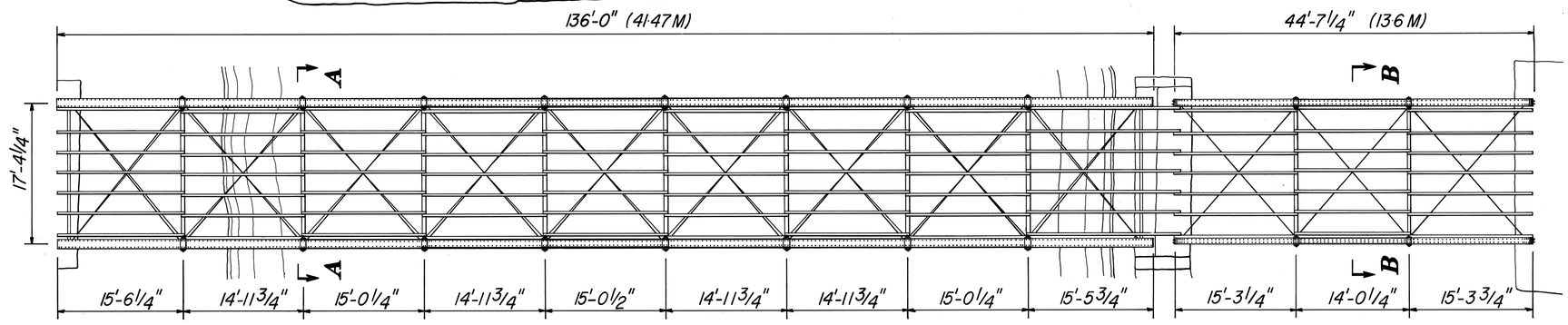


Elevation

Scale 1/8"=1'-0"

0 5 10 20 30 FEET

0 1 2 3 4 5 10 METERS



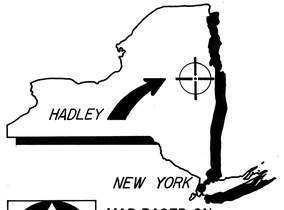
Plan

The Old Corinth Road Bridge is distinguished by the unusual positioning of its "half-through or semi-deck" in relation to the main truss spans, and its dramatic setting in a gorge of the Sacandaga River as it debouches into the Hudson. The bridge is based on an 1878 patent for a lenticular or parabolic truss, granted to William O. Douglas, a West Point-educated engineer, and fabricated by the East Berlin Iron Bridge Company of East Berlin, Connecticut.

While the Berlin Iron Bridge Company was typical of bridge fabricators that dominated bridge building in the last quarter of the 19th century, it was unique in the success of marketing an unusual parabolic design while the industry was moving rapidly to standardized parallel-chord configurations.

This recording project is part of the Historic American Engineering Record (HAER), a long-range program to document historically significant engineering, industrial, and maritime sites in the United States. HAER is administered by the National Park Service, US Department of the Interior. The Cast & Wrought-Iron Bridges (New York) Recording Project was cosponsored by HAER during the summer of 1994 under the general direction of Dr. Robert J. Kapsch, Chief, HABS/HAER, the New York State Department of Transportation, Michael J. Cuddy, assistant commissioner & Chief Engineer, with the assistance of Mary Ivey, Environmental Section, NY DOT; the Office of New York State Parks, Recreation & Historic Preservation, J. Winthrop Aldrich, Deputy Commissioner; and the School of Architecture, Rensselaer Polytechnic Institute, Donald Watson, Dean.

The field work, measured drawings, historical reports, and photographs were prepared under the direction of Eric DeLony, HAER Chief and Project Leader; Karl Bodensiek, field supervisor; Caroline Schweyer, (ICOMOS-France), architect; Wang Bing (ICOMOS-Japan), architect; and William Chamberlin, PE, historian consultant. Large-format photography was done by Jet Lowe, HAER photographer. The project was edited in the Washington Office by Luis Rosario under the direction of Craig Strong HAER Sr Architect.



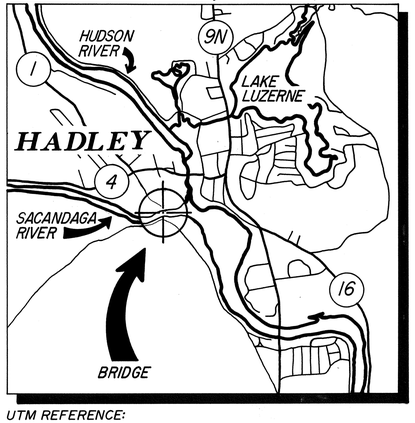
MAP BASED ON USGS 7.5 MINUTE SERIES, LAKE LUZERNE QUADRANGLE, DIGITAL EDITION, 1991.

0 .5 1 MI.

0 .5 1 2 KM

Scale 1" = 2000', 1:24,000

Location Map



UTM REFERENCE:

DELINEATED BY: CAROLINE SCHWEYER 1994 / LUIS G. ROSARIO-LLUVERAS 1995

CAST & WROUGHT IRON BRIDGES RECORDING PROJECT-NEW YORK
NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR

OLD CORINTH ROAD BRIDGE (1885)
SPANNING SACANDAGA RIVER
SARATOGA COUNTY

HADLEY NEW YORK

SHEET 1 OF 4

HISTORIC AMERICAN ENGINEERING RECORD
NY-292

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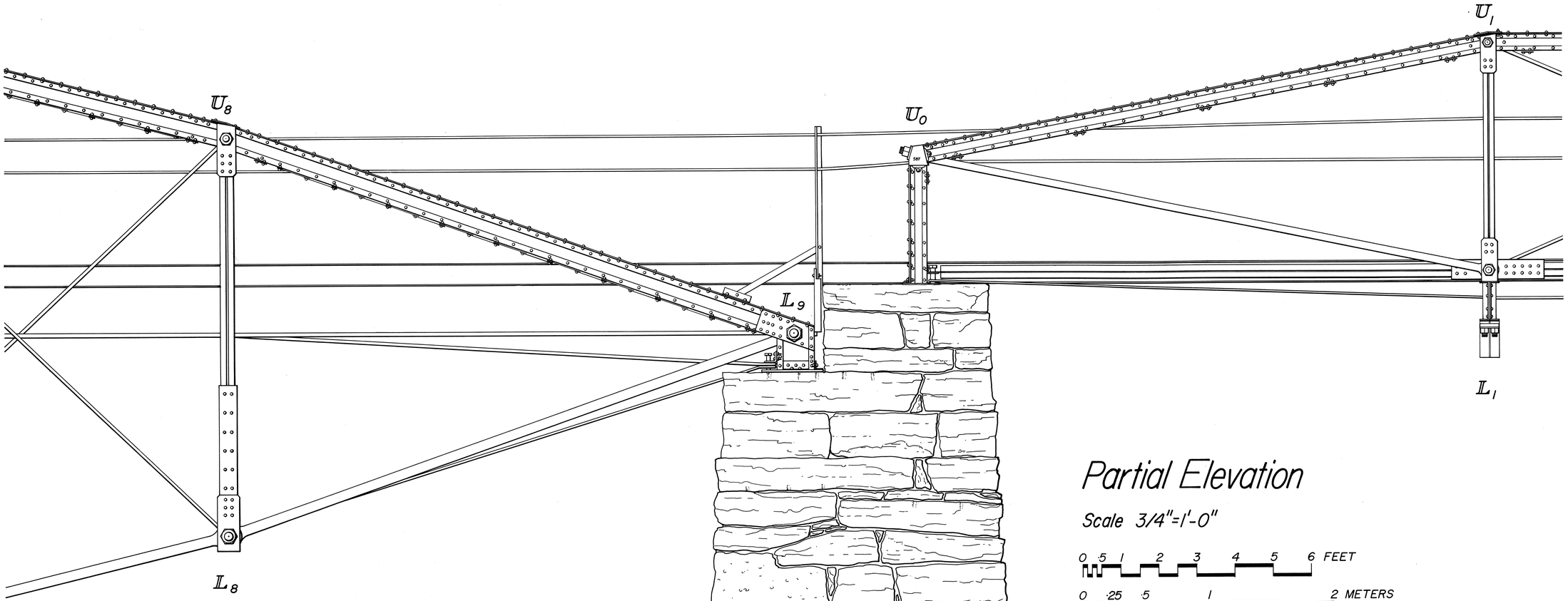
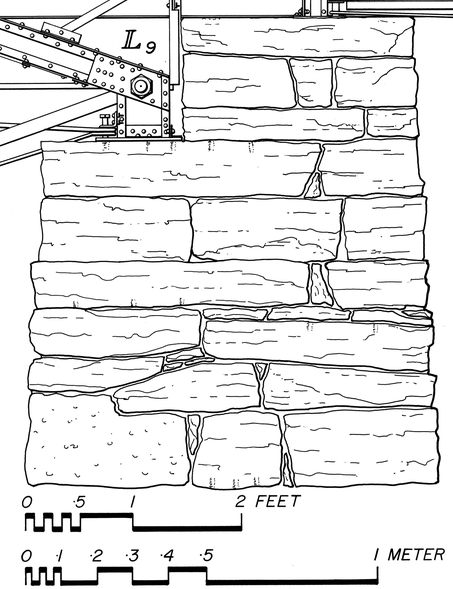


Partial Elevation

Scale 3/4"=1'-0"

0 .5 1 2 3 4 5 6 FEET

0 .25 .5 1 2 METERS



Scale 1 1/2"=1'-0"

Table of members / Main Bridge

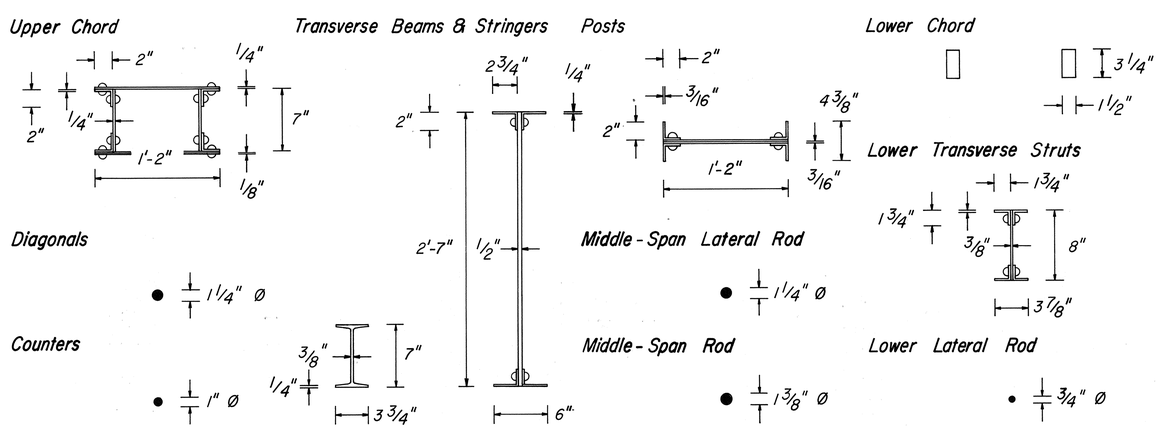
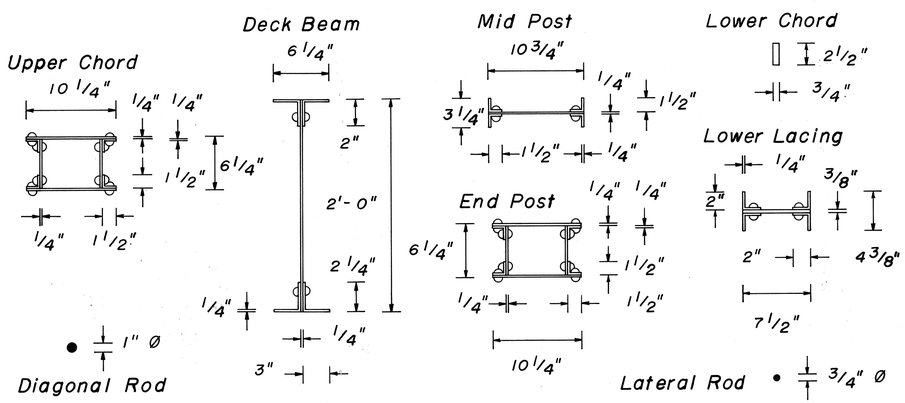


Table of members / Approach Span



DELINEATED BY: KARL BODENSIEK, CAROLINE SCHWEYER 1994 / LUIS G. ROSARIO-LLUVERAS 1995.

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UNITED STATES DEPARTMENT OF THE INTERIOR

HADLEY

OLD CORINTH ROAD BRIDGE (1885)
SPANNING SACANDAGA RIVER
SARATOGA COUNTY

NEW YORK

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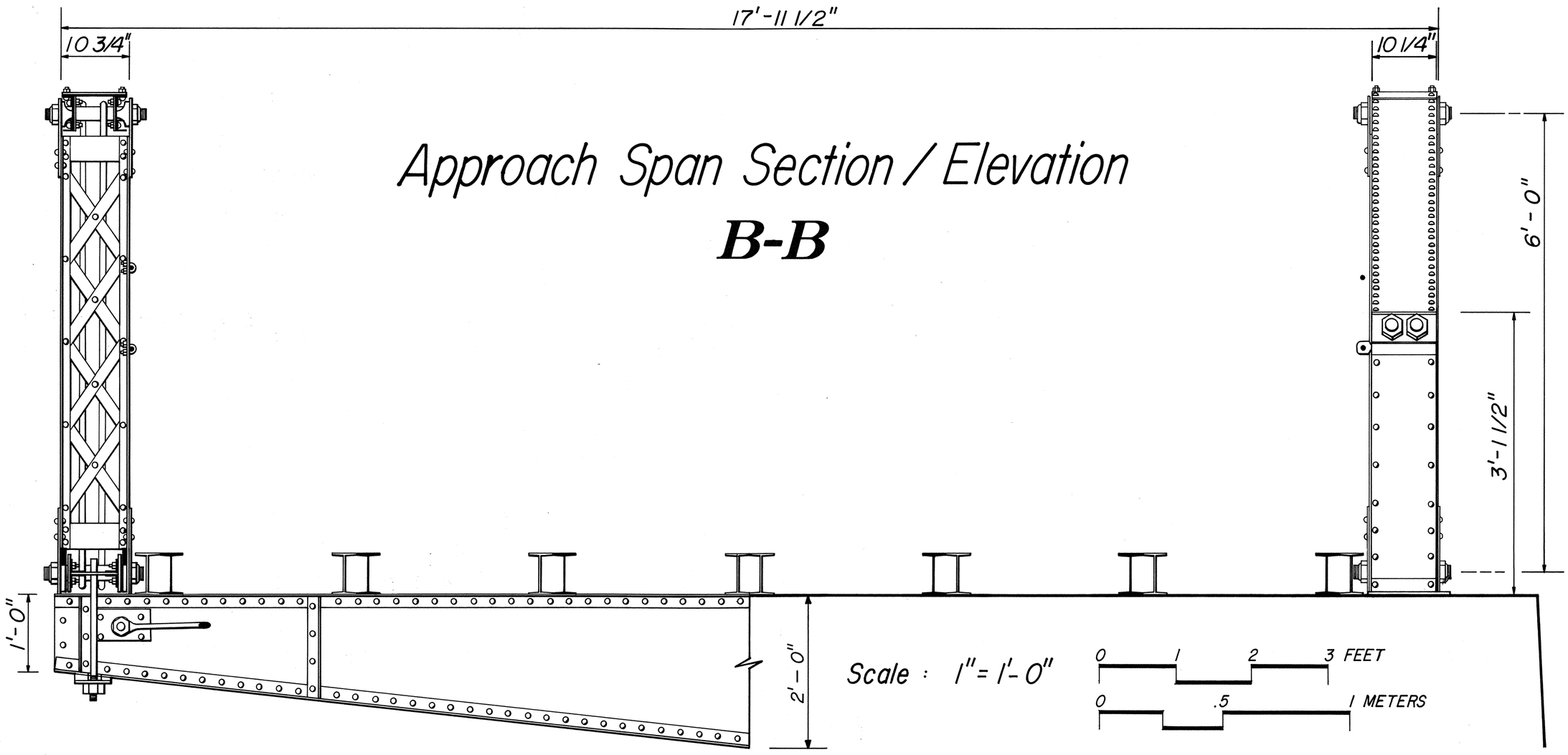
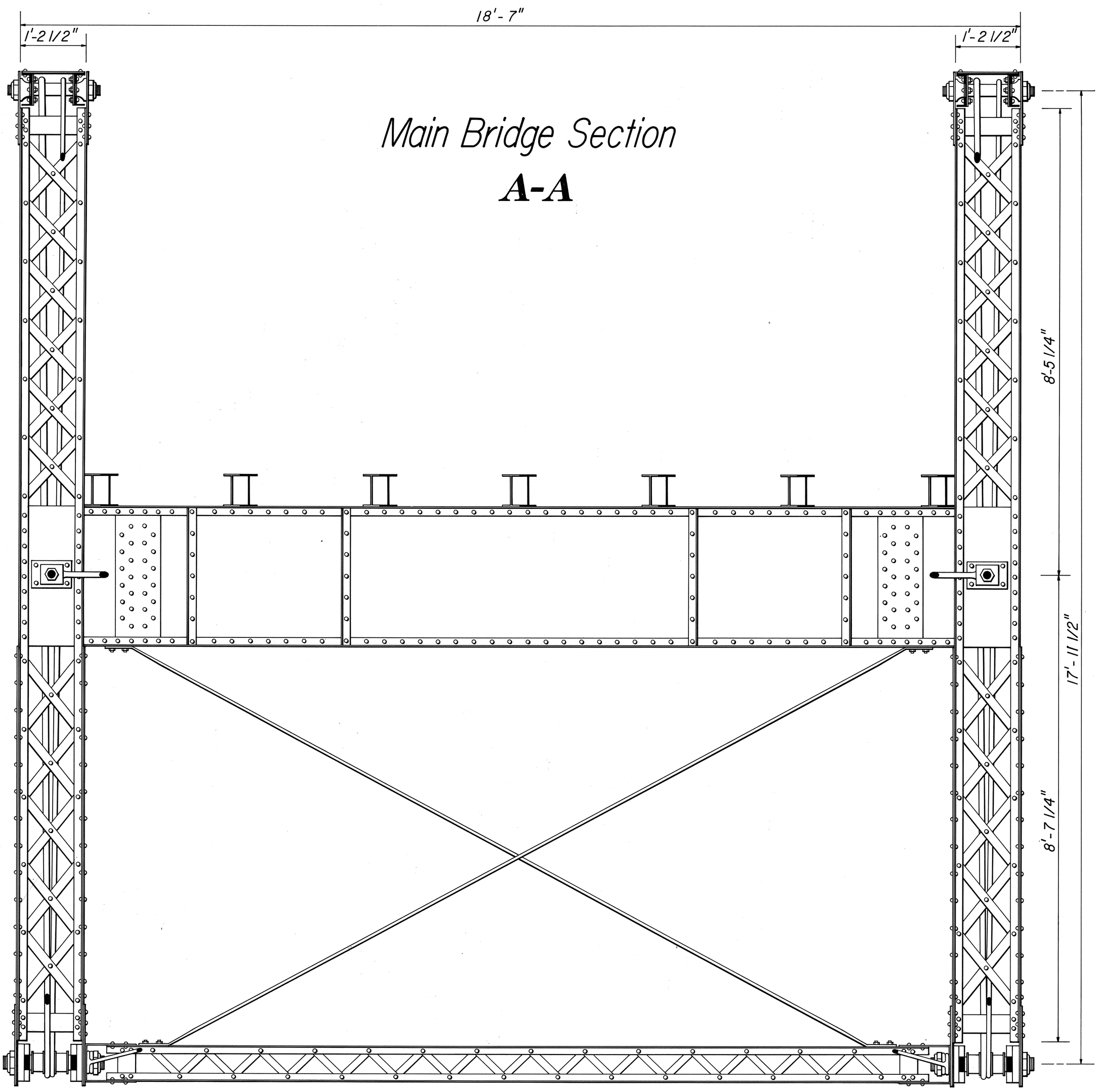


Approach Span Section / Elevation

B-B



Main Bridge Section

A-A

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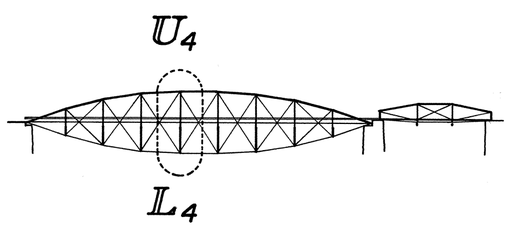
TRIM LINE

TRIM LINE

172753

CONNECTION DETAILS



U_4 UPPER CHORD

2-3/4" Ø Pin
2" Washer
1/4" x 6" x 1'-4" Plate
3 1/4" Hex Nut
7/8" Rivets
1 1/4" Ø Diagonal
2" x 2" Angles
1/4" x 2" x 1'-7-3/16" Lacing Bars
1" Ø Counter

POST

2" x 2" Angles
1/4" x 2" x 8-1/2" Lacing Bars
7" I-Beam
2-3/4" x 2" Angles
1/4" x 2'-7" Steel Plate
4-1/2" x 4-1/2" Plate
8 1/2" Splice
1 1/4" Ø Middle-Span Lateral Rod
1 3/8" Ø Middle-Span Rod

TRANSVERSE BEAM & STRINGERS

1/4" x 6" Plate
1-1/4" x 3-1/4" Eye Bars
3/4" Ø Lower Lateral Rod
1 1/4" Ø Diagonal
1" Ø Counter
2 3/4" Ø Pin
4 1/2" Hex Nut
3/4" Ø Lower Lateral Rods
10-3/4" Spacer
1 3/4" x 1 3/4" Angles
1-1/2" x 3-1/4" Eye Bars
3/16" x 9" x 1-1/2" Lacing Bars

L_4 LOWER TRANSVERSE STRUT

ft 2 60 cm 1 30 .5 10 0 .5 10 30 1 2 ft 60 cm
ft 2 cm 60 1 30 .5 10 .5 10 30 1

Scale: 1 1/2" = 1'-0"

DELINEATED BY: WANG BING, 1994 / LUIS G. ROSARIO-LLUVERAS, Summer 1995.

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