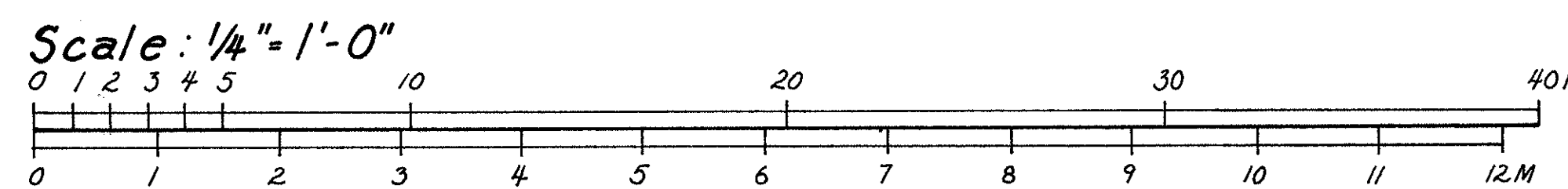
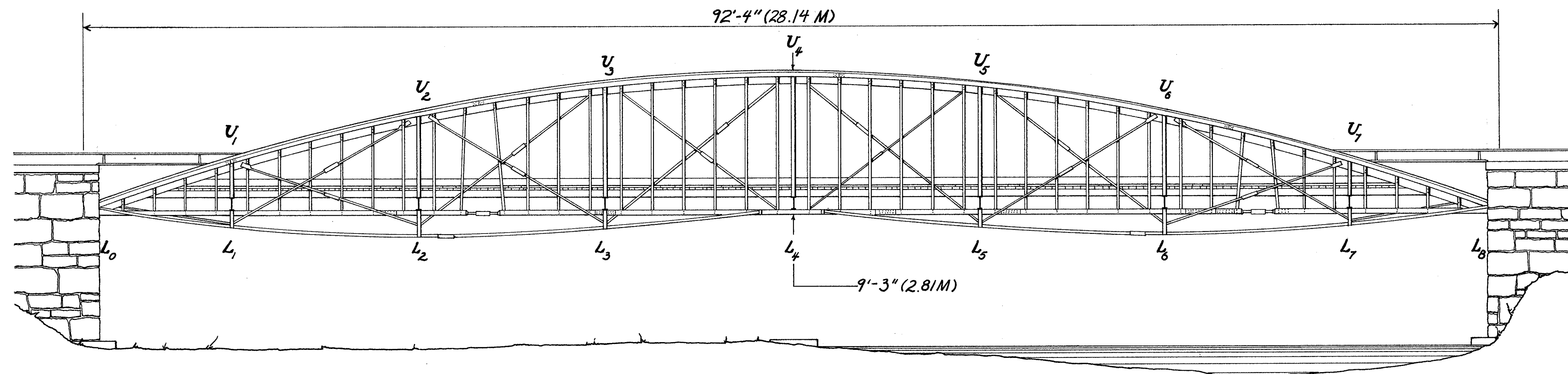


# HENSZEY'S WROUGHT-IRON ARCH BRIDGE

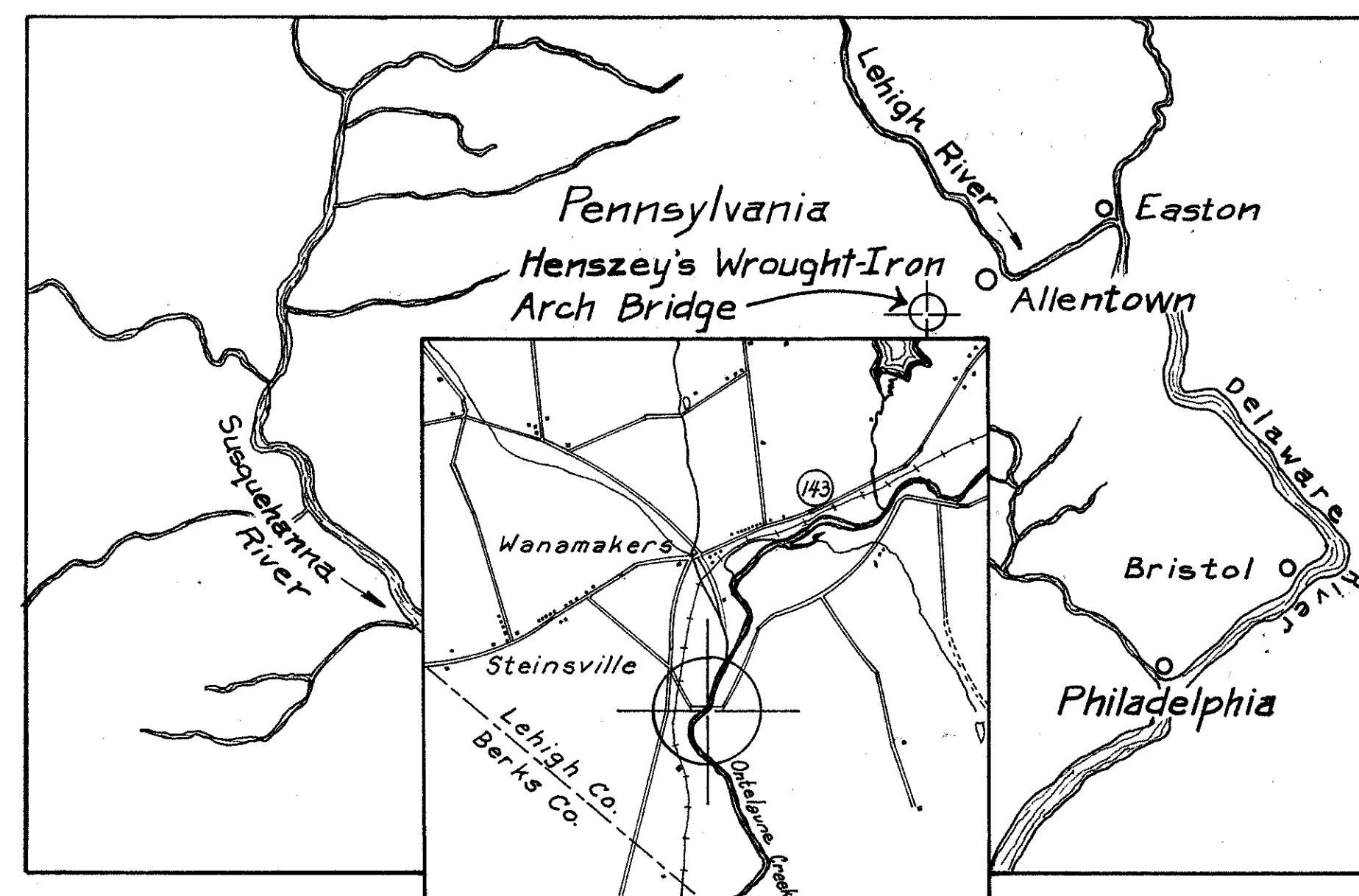
## WANAMAKERS (1869) PENNSYLVANIA



Henszey's Wrought-Iron Arch Bridge is a single span bowstring truss based on the 1869 patent of Joseph G. Henszey of Philadelphia, Pennsylvania. It is the only known surviving example of bridges built between 1869 and 1878 by the Continental Bridge Company of Philadelphia. Henszey's Bridge is also an excellent example of the vernacular designs that competed in the highway bridge market during the years immediately following the American Civil War. Its relocation in 1900 from its original site in nearby Slatington reflects the mobility of these small structures and the economic advantage in their reuse.

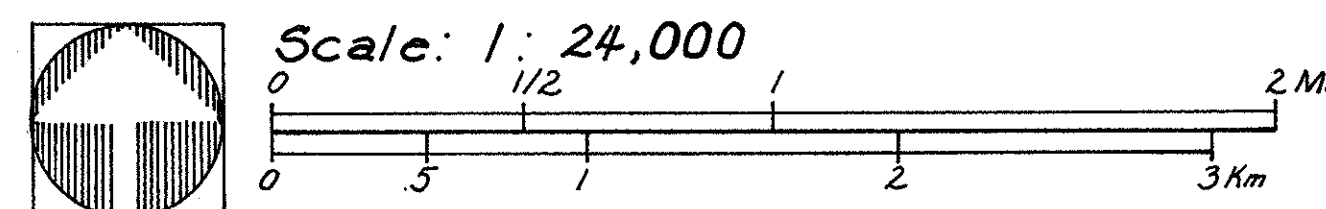
Although the Henszey Bridge is related generically to the 1841 design of the New York engineer and inventor Squire Whipple, evidence suggests that Henszey was influenced more by the Boston bridge builder Thomas W.H. Moseley. Moseley had recently opened an office in Philadelphia and was marketing his bridges in the surrounding counties. One unusual feature that distinguishes Henszey's design from those of Moseley is the lower chord assembly consisting of horizontal bars and rods that sag below the bars from endsupports to midspan.

Henszey's Bridge was among the first iron bridges built in Lehigh County and is among the oldest surviving wrought-iron truss bridges.



Based on U.S.G.S. 7.5 min. series topographic map - New Tripoli Quadrangle 1456 (Photorevised 1969 and 1976)

Site Map



This recording project is part of the Historic American Engineering Record (HAER), National Park Service. It is a long-range program to document historically significant engineering and industrial works in the United States.

The Cast-and Wrought-Iron Bridges Recording Project was co-sponsored in 1991 by the Historic American Engineering Record and the West Virginia University Institute for the History of Technology and Industrial Archaeology. Fieldwork, measured drawings, historical reports, and photographs were prepared under the general direction of Dr. Robert J. Kapsch, Chief, HABS/HAER; Eric N. DeLony, Chief and Principal Architect, HAER; Emory Kemp, Director, Institute for the History of Technology and Industrial Archaeology; and Dean Herrin, HAER Staff Historian.

The recording team consisted of Christine Ussler, (Architecture Faculty, Lehigh University) Architect and Field Supervisor; Christine Theodoropoulos, (Architecture Faculty, California State Polytechnic University of Pomona) Engineer; Wayne Chang (University of Notre Dame), Monika Korsós (Technical University of Budapest, Hungary, US/ICOMOS), Architectural Technicians; Robert W. Hadlow (Washington State University), William Chamberlin, P.E., Historians; and Joseph E.B. Elliott (Muhlenberg College), Photographer.

UTM(18.428500.4500530)

DELINEATED BY: Wayne Chang 1991, Shannon Barras 1992

CAST-AND WROUGHT-IRON BRIDGES RECORDING PROJECT

HENSZEY'S WROUGHT-IRON ARCH BRIDGE, 1869  
KINGS ROAD SPANNING ONTELAUNEE CREEK  
LEHIGH COUNTY

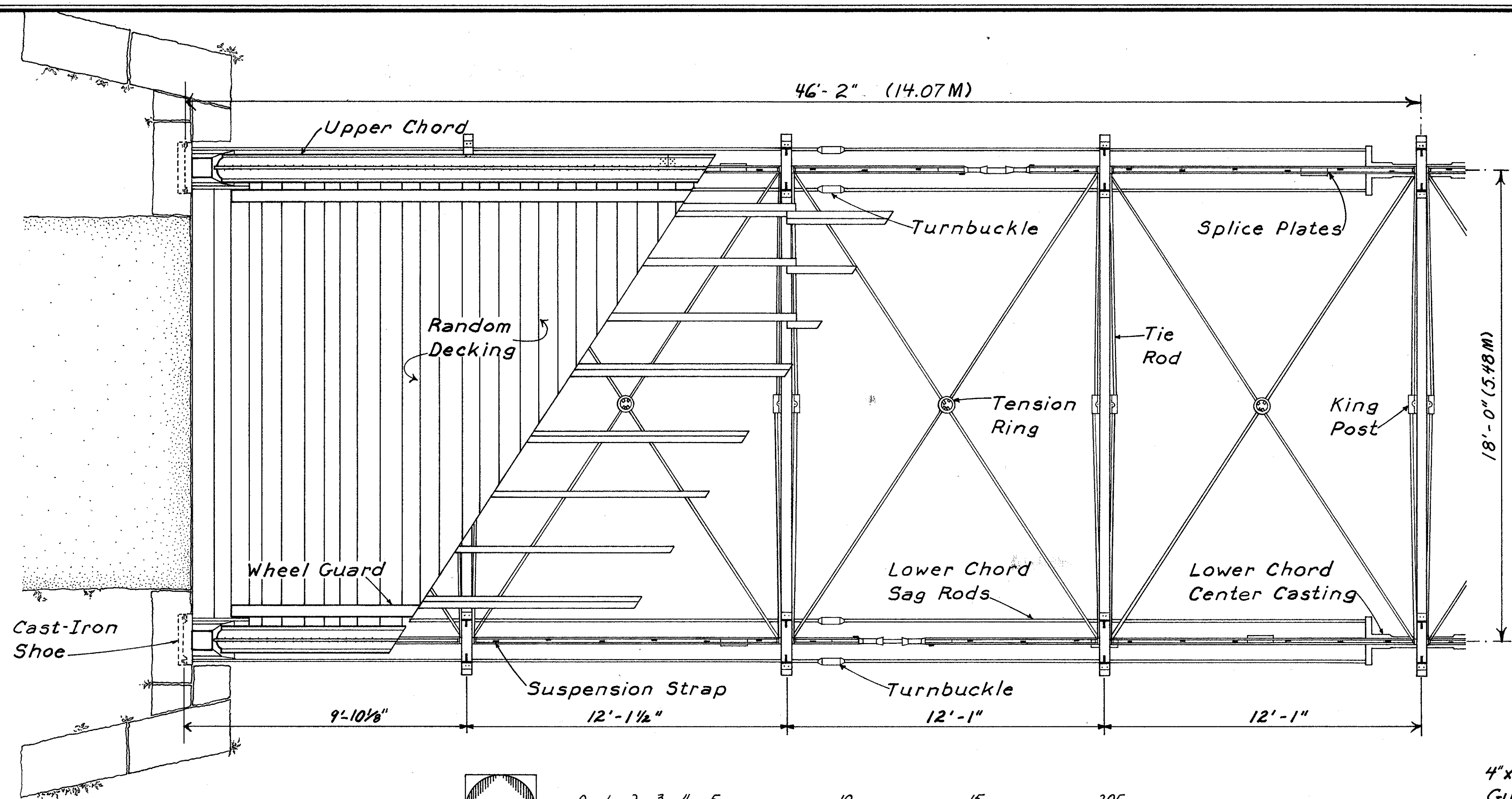
PENNSYLVANIA

HISTORIC AMERICAN ENGINEERING RECORD

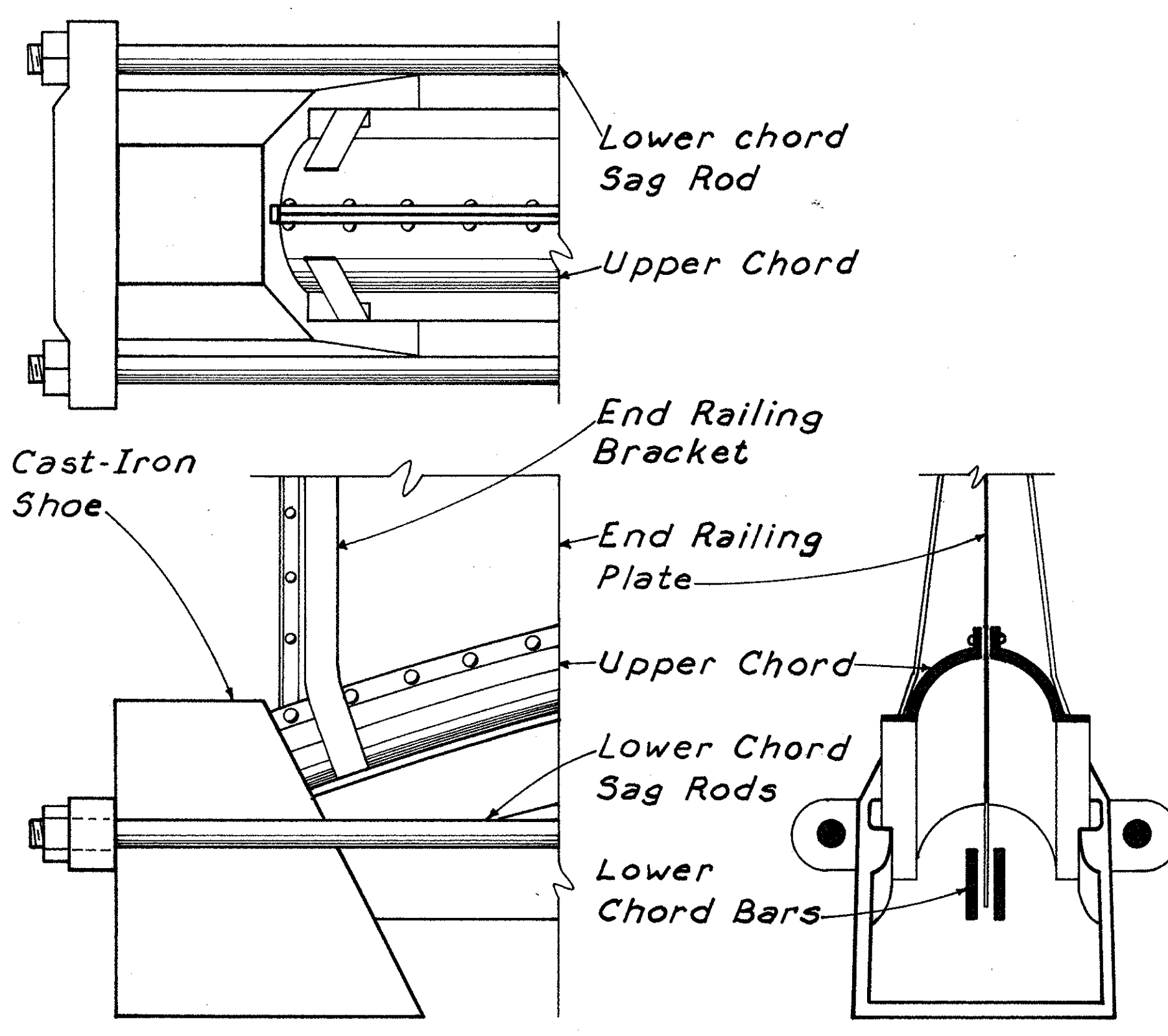
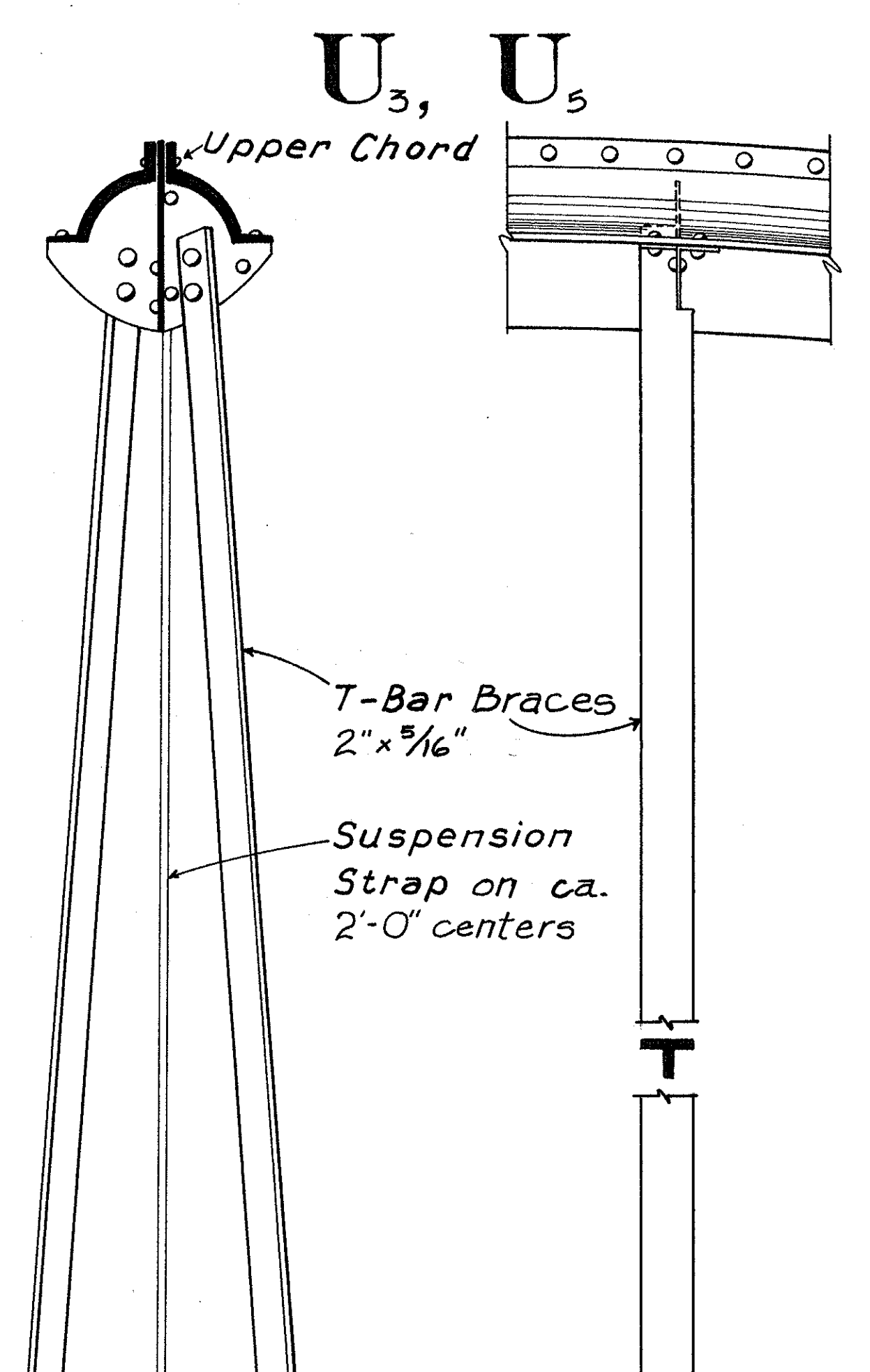
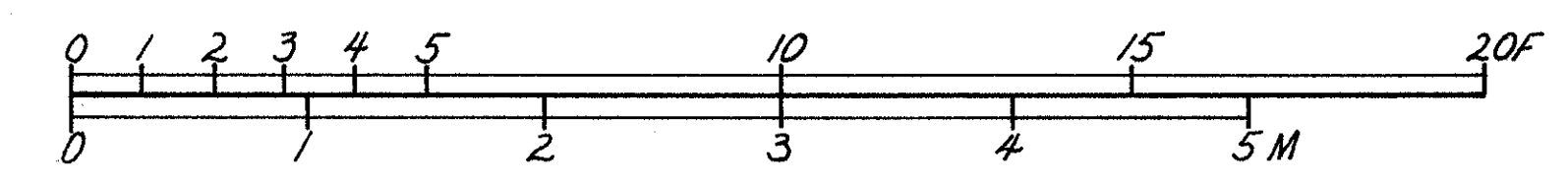
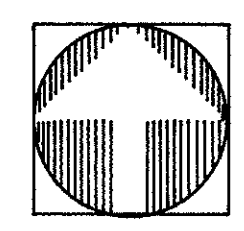
SHEET 1 OF 2

PA-209

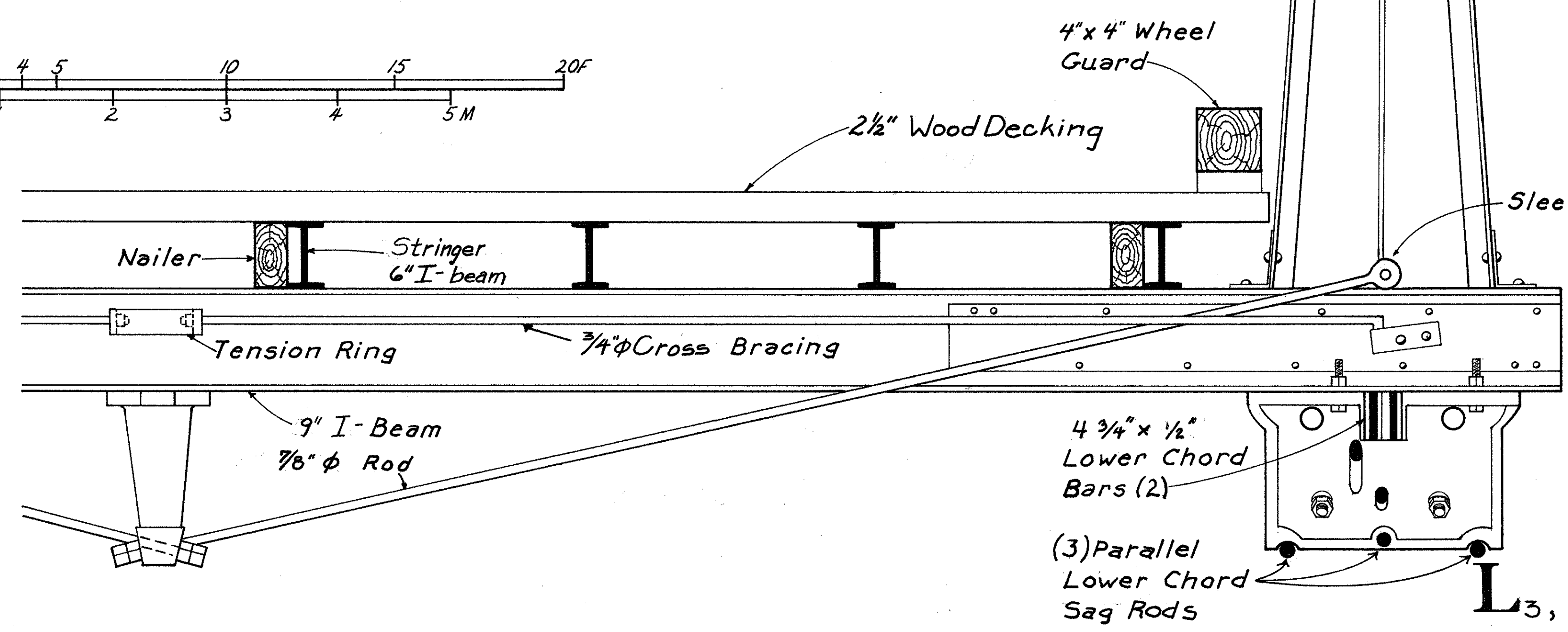
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Half Plan

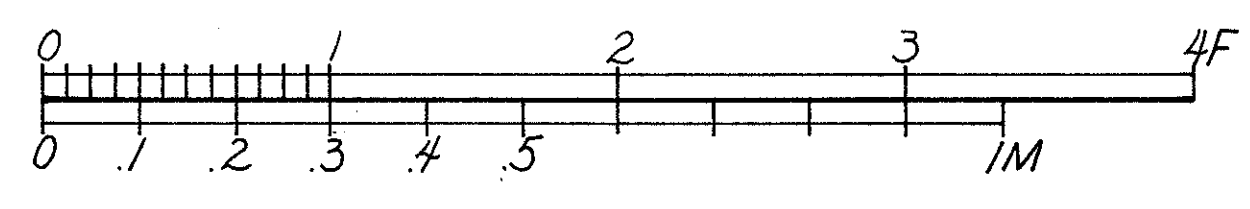


End Support

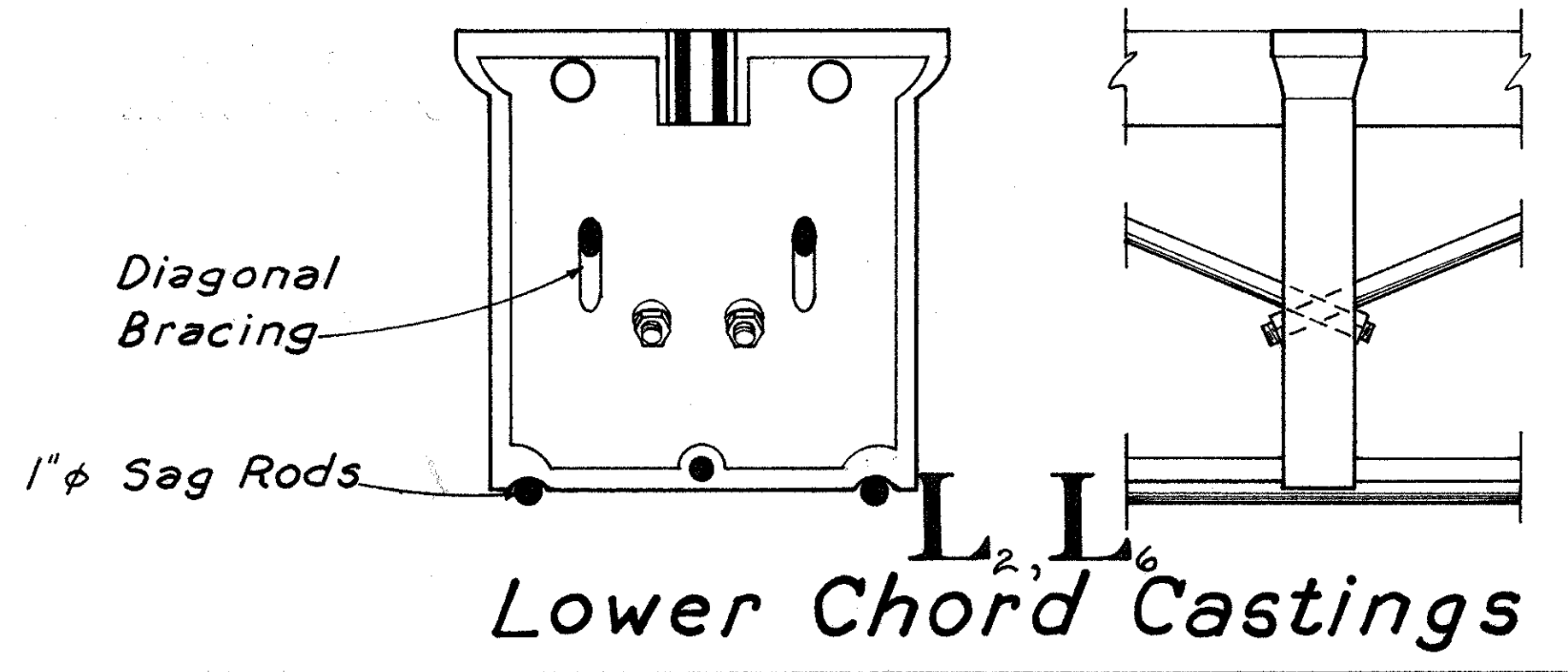
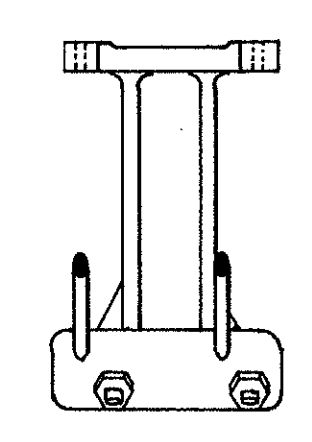


Half Section

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



King Post



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 CAST-IRON WROUGHT-IRON BRIDGES RECORDING PROJECT  
 UNITED STATES DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT  
 WANAMAKERS  
 HENSZEY'S WROUGHT-IRON ARCH BRIDGE, 1869  
 KINGS ROAD SPANNING ONTELAUNEE CREEK  
 LEHIGH COUNTY  
 PENNSYLVANIA  
 SHEET 2 of 2  
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