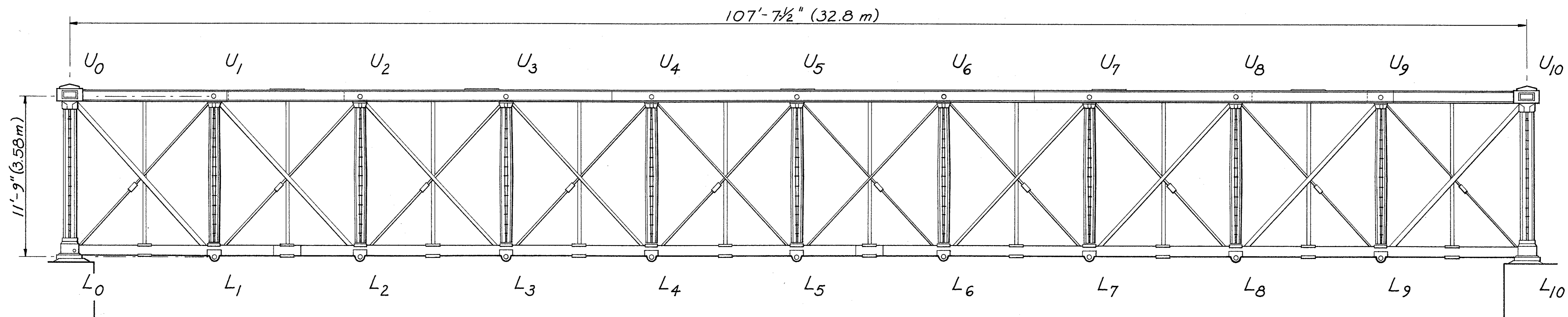


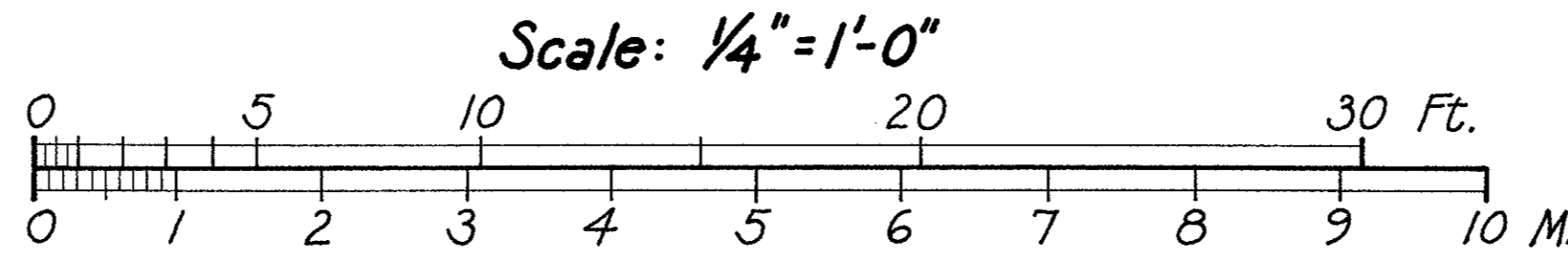
STEWARTSTOWN RAILROAD BRIDGE

STEWARTSTOWN • 1870 • PENNSYLVANIA



North Elevation

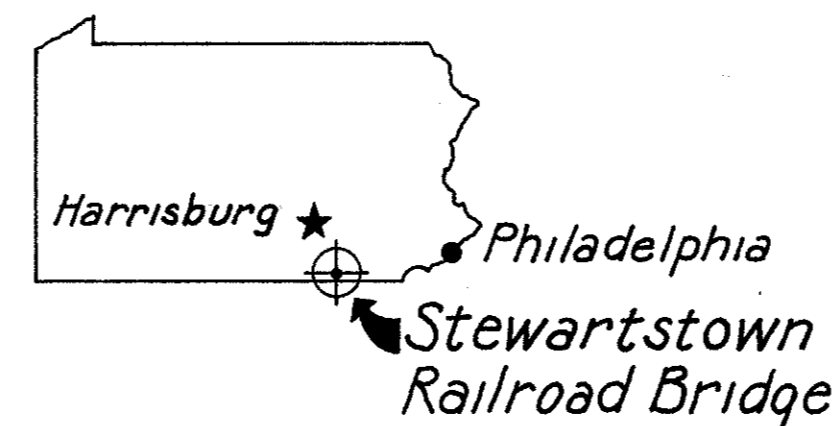
NOTE: Southern Truss, Floor Beams, Stringers, and Ties omitted for clarity



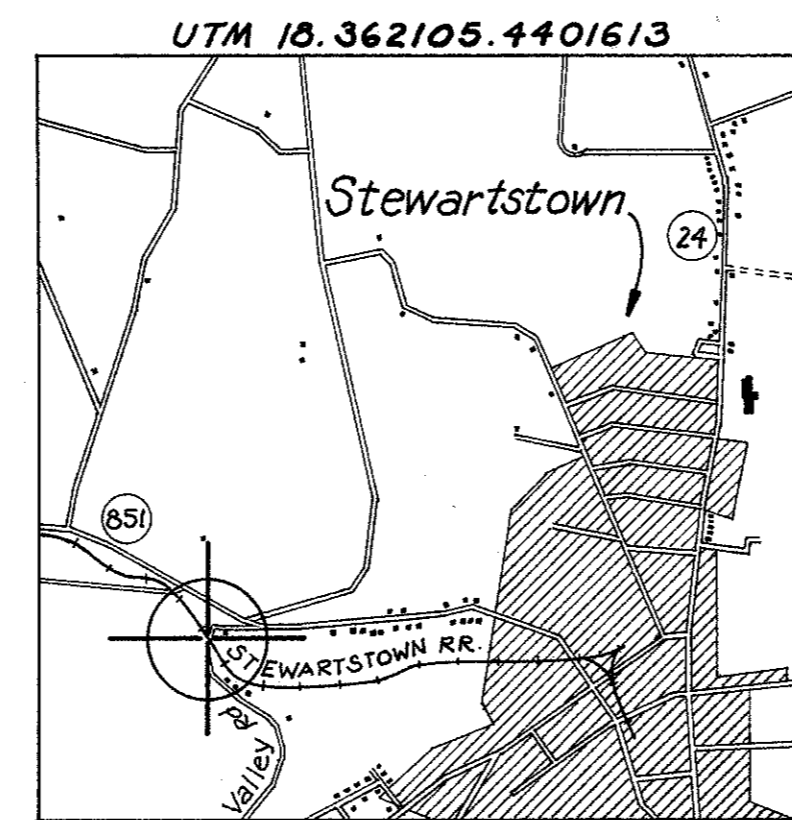
Stewartstown Railroad bridge is one of the oldest all-metal railroad bridges in the United States and one of the earliest composed almost entirely of wrought iron. The Keystone Bridge Company of Pittsburgh, Pennsylvania, organized in 1865 by Andrew Carnegie, fabricated the double-track, two-span structure in 1870 as a railroad crossing over Jones Falls, in Baltimore, on the Northern Central line. Hired by Carnegie as President and Chief Engineer, Jacob H. Linville is attributed as designer.

Bridges fabricated by Keystone under Linville's direction were some of the earliest to use wrought iron for its principal structural parts. Only joint blocks were made of cast iron. The Stewartstown Bridge also displays the hollow, rolled, wrought-iron split column, patented by Linville and J. L. Piper, the company's general manager. This prevented the build-up of corrosive internal debris, a problem common to the more traditional enclosed cast-iron circular column. The bridge was moved to its present location about 1885.

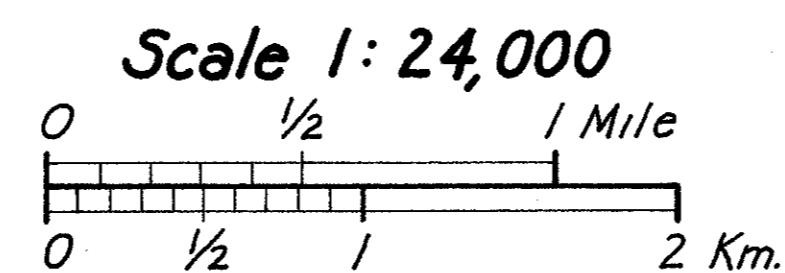
State Map



Site Map



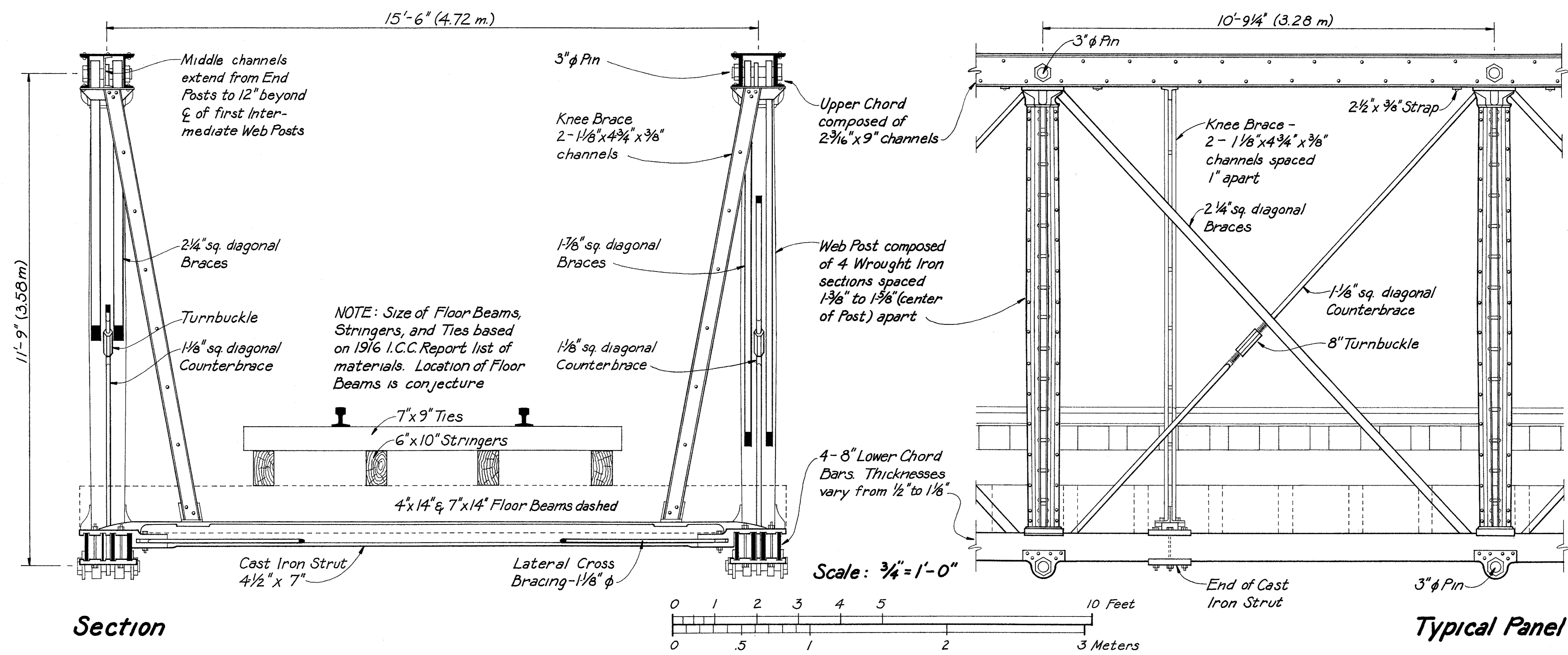
Based on U.S.G.S. 7.5 min. series topographic map - Stewartstown Quadrangle, 1953 (photorevised 1968, 1973)



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.

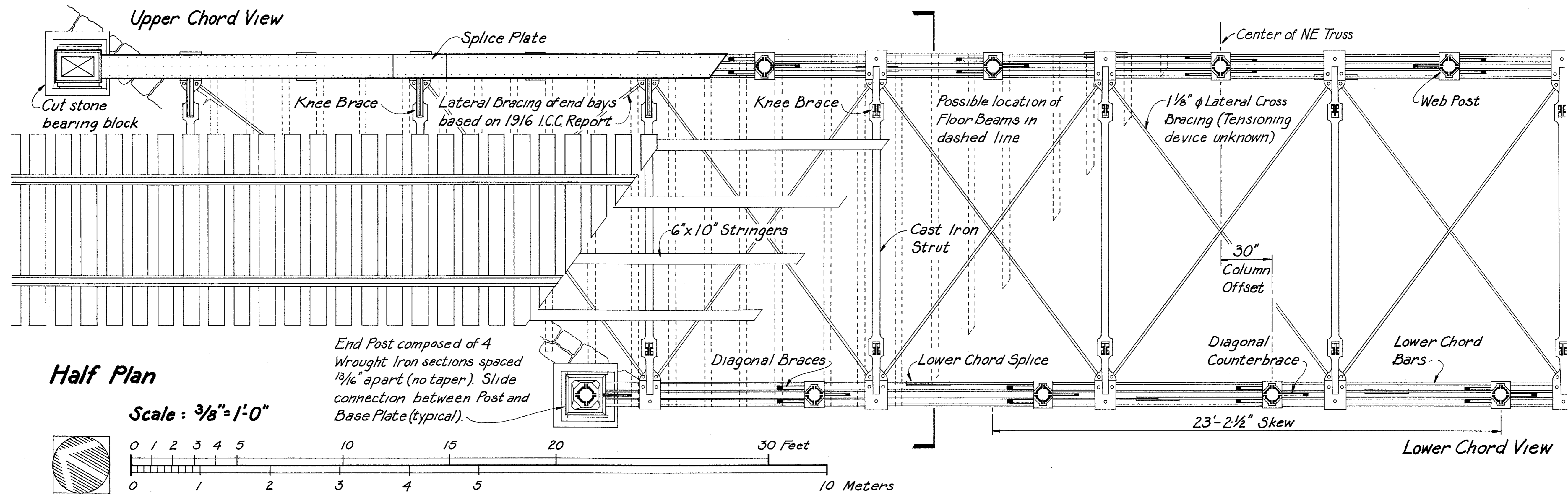
The Cast- and Wrought-Iron Bridges Recording Project was cosponsored in 1991 by the Historic American Engineering Record and the West Virginia University Institute for the History of Technology and Industrial Archeology. Fieldwork, measured drawings, historical reports, and photographs were prepared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

The Recording Team consisted of Christine Ussler (Architecture Faculty, Lehigh University) Architect and Field Supervisor; Christine Theodoropoulos, P.E. (Architecture Faculty, California State Polytechnic University, Pomona); Wayne Chang (University of Notre Dame); Monika Kórsos (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.



Section

Typical Panel



Half Plan

Lower Chord View