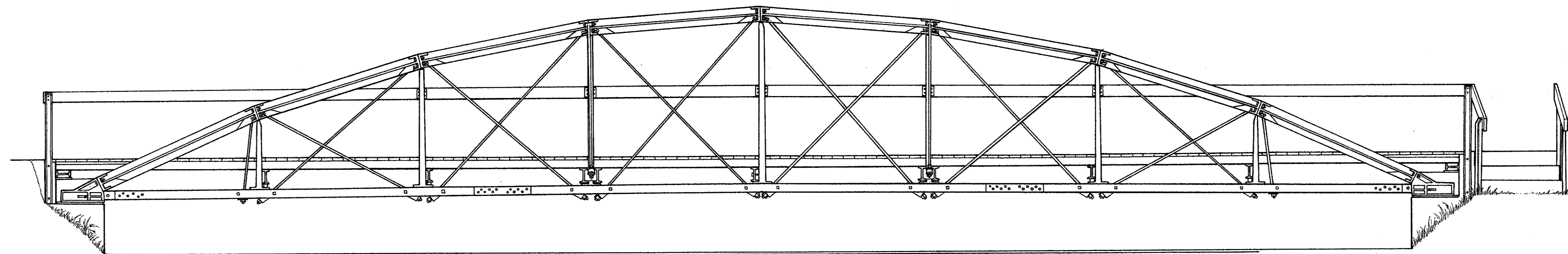


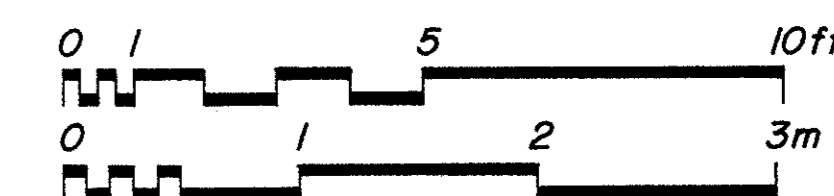
BLACKHOOF STREET BRIDGE

• 1864 •

NEW BREMEN, OHIO



ELEVATION
SCALE: 3/8" = 1' - 0"



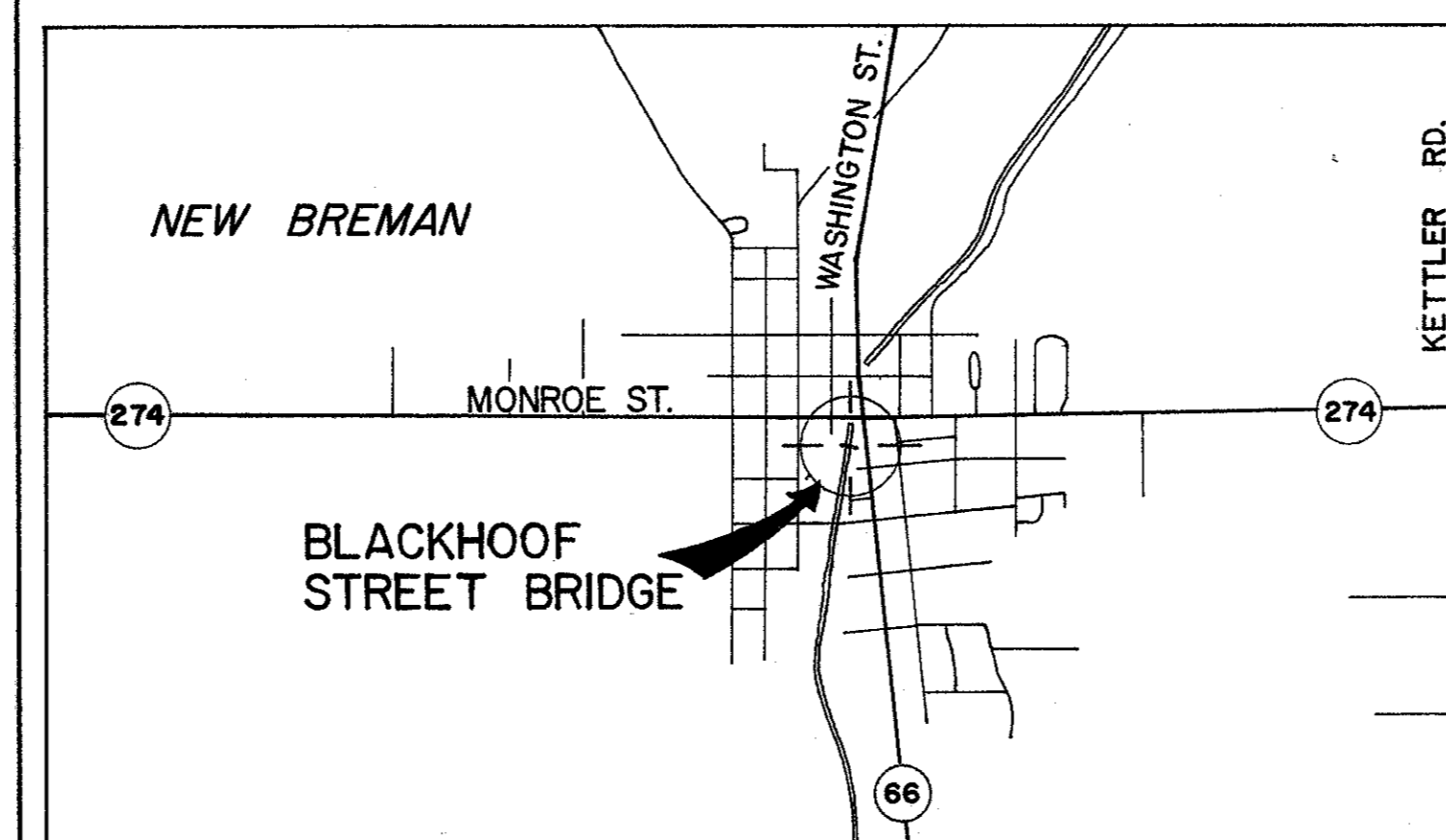
The Blackhoof Street Bridge is one surviving section of a three-span bridge over the Auglaize River in Wapakoneta, Ohio. Built in 1864, it is the work of David H. Morrison, founder of the Columbia Bridge Works of Dayton, Ohio. A bowstring arch truss, the members of the arch are cruciform cast-iron sections. The cast-iron posts, similar to an I-beam in section, were cast with oval holes in the webs to reduce mass.

David H. Morrison, one of Ohio's most prolific bridge builders in the mid-nineteenth century, was responsible for several bridge types during his career. These included Burr trusses, a wire suspension bridge, a timber and iron suspension bridge and this cast-iron bowstring bridge as well as other bridges in stone and timber.

The bridge was moved from its original location to the Moulton Angle Road over the Center branch of the Auglaize River, near New Knoxville, Ohio in 1894. It was moved to its present position in New Bremen in 1984, at which time the inside to inside dimension was narrowed from twenty-two feet to seven feet six and three-quarter inches. Its flooring has been replaced several times and it appears that the floor structure is not original. It is likely that the original floor consisted of closely spaced wooden cross beams that rested upon the bottom chord of the truss.

Location Maps

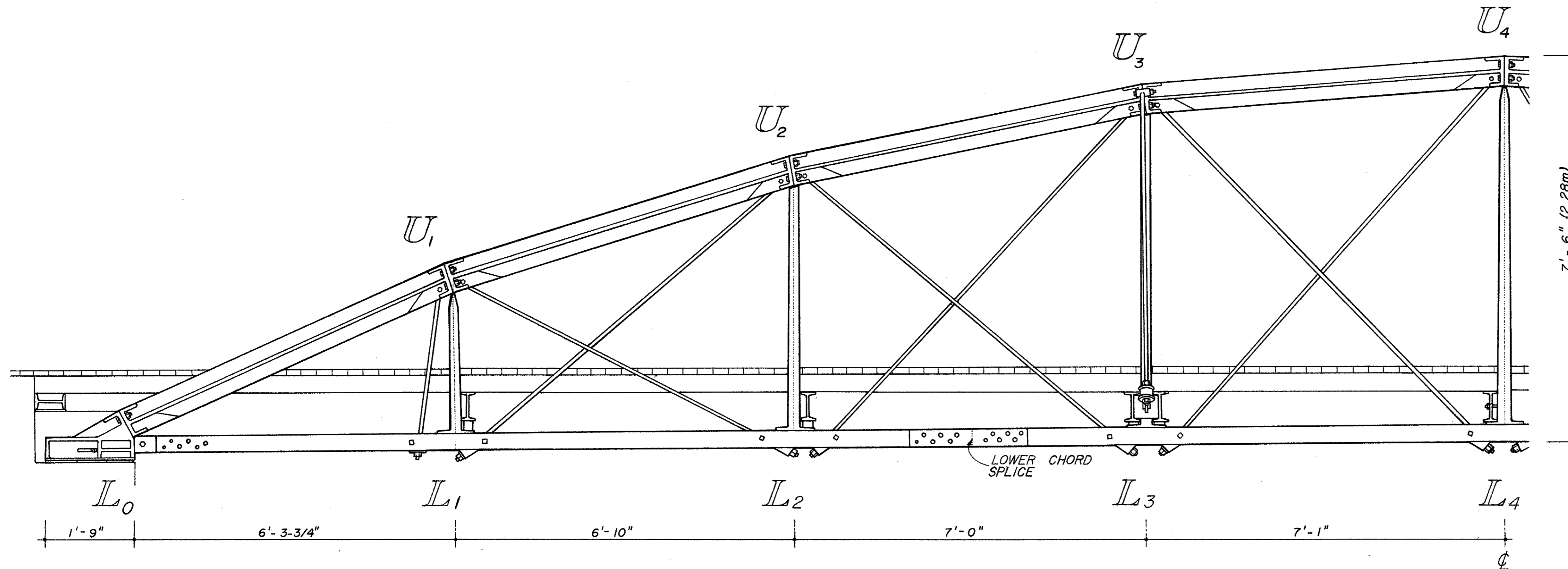
UTM 16. 455640. 4515205
Based on U.S.G.S. 7.5 x 15 min. series topographic map
New Bremen quadrangle 1961



SCALE: 1:24,000
0 0.25 0.5 1.0 2.0 mi.
0 0.5 1.0 2.0 3.0 4.0 km.

The Ohio Cast-and Wrought-Iron Bridges Project, OH is part of the Historic American Engineering Record (HAER), a long-range program to document historically significant engineering and industrial works in the United States. The HAER program is administered by the Historic American Buildings Survey/Historic American Engineering Record Division (HABS/HAER) of the National Park Service, U.S. Department of the Interior. The Ohio Cast-and Wrought-Iron Bridges Project was cosponsored during the summer of 1993 by HAER under the general direction of Dr. Robert J. Kapsch, Chief; and the Institute for the History of Technology and Industrial Archaeology, Dr. Emory L. Kemp, Director; with the assistance of the Ohio Historical Society, Gary Ness, Director, and David A. Simmons, historic bridge specialist; and the Department of Architecture and Ohio State University, José Oubrierie, Chairman.

The field work and measured drawings were prepared under the direction of Eric N. DeLony, Chief of HAER, Project Leader. The recording team consisted of Elaine Pierce (Auburn University), architectural field supervisor; and Daron Fender (Miami University), Julie Willis (US/ICOMOS - University of Melbourne, Australia) and Troy Zimmermann (California Polytechnic State University at San Luis Obispo), architectural technicians.



HALF ELEVATION
SCALE: 3/4" = 1'-0"

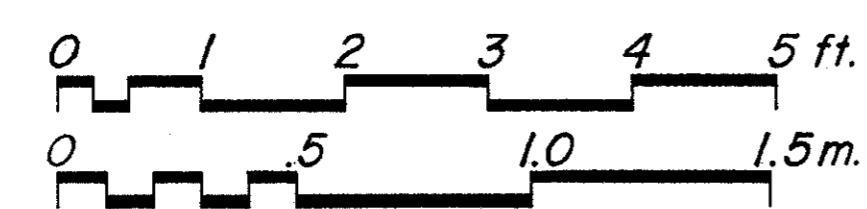
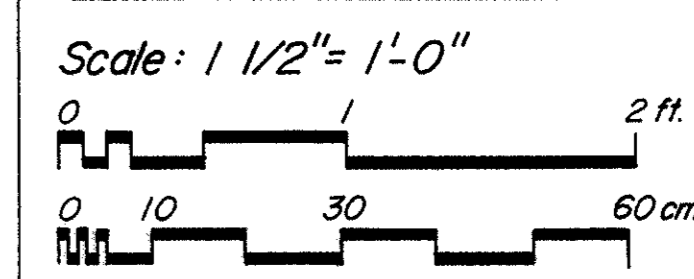
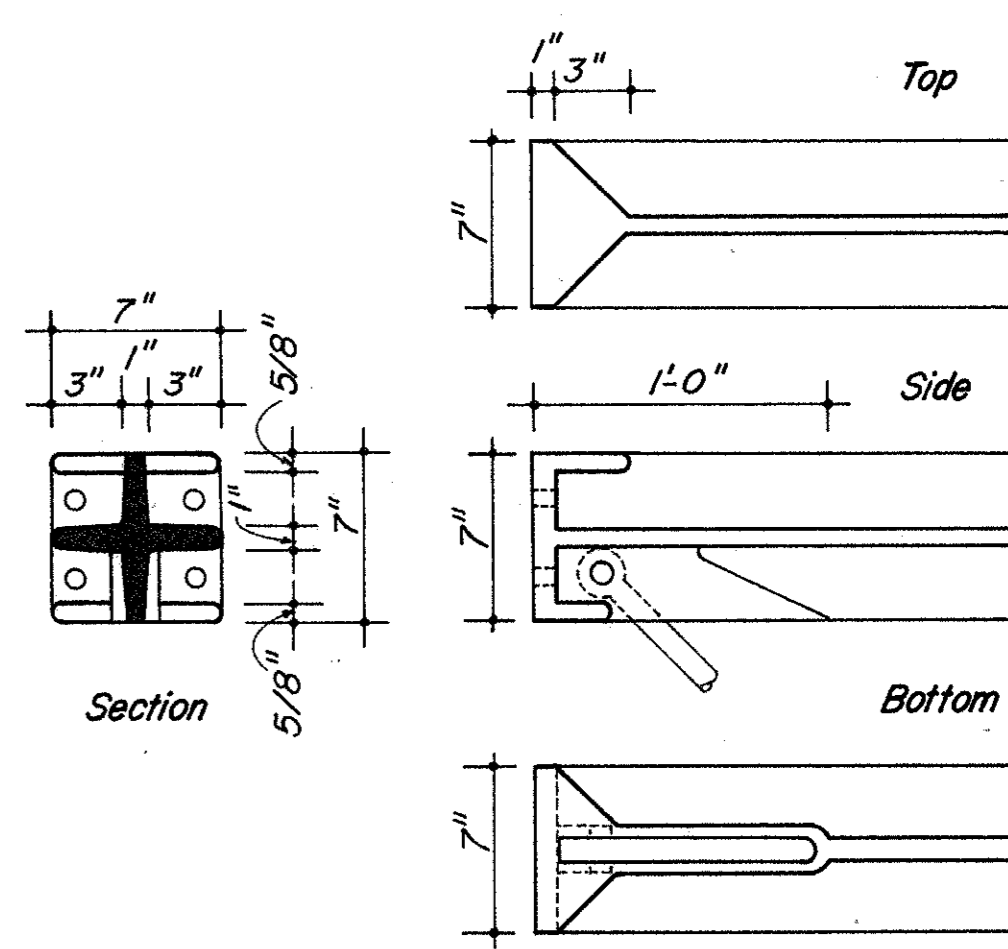


TABLE of MEMBERS



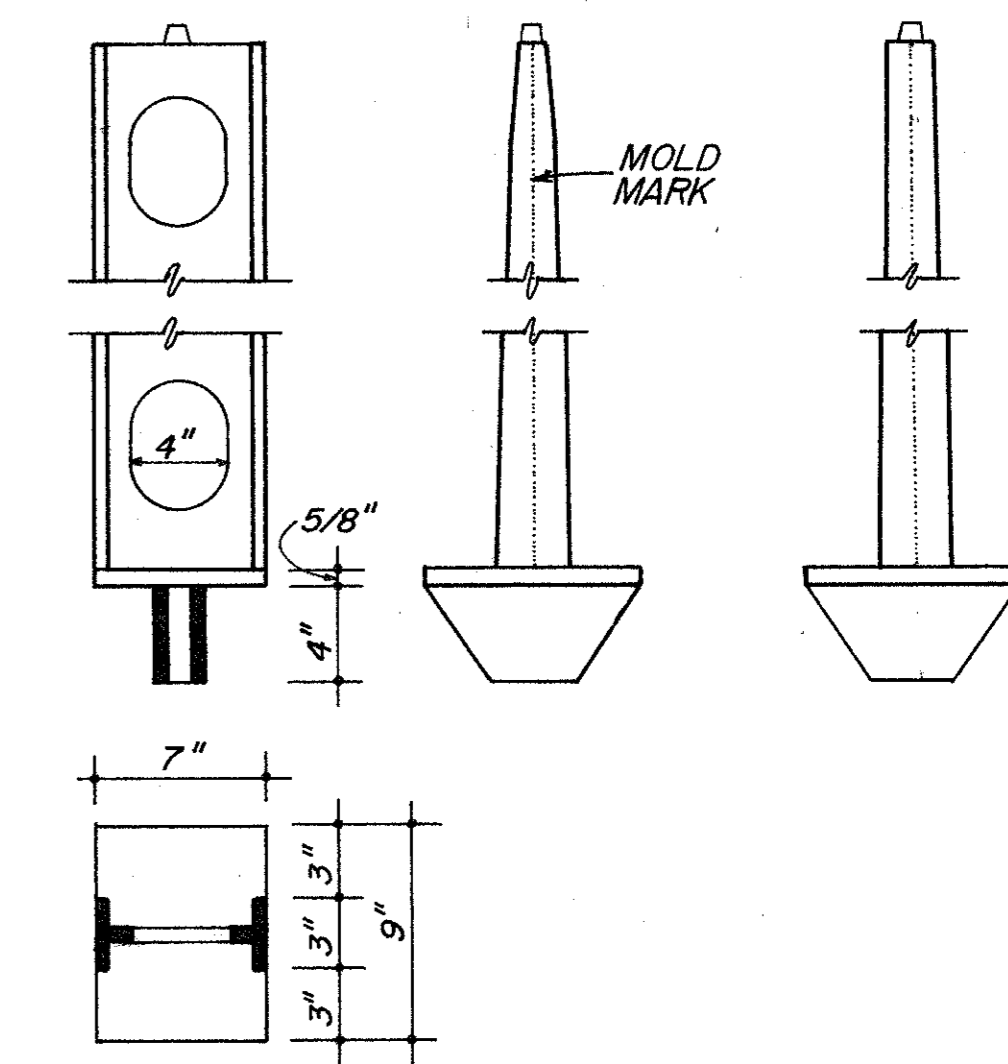
UPPER CHORD

L₀U₁ U₁U₂ U₂U₃ U₃U₄ U₄U₅ U₅U₆ U₆U₇ U₇U₈



CAST VERTICALS

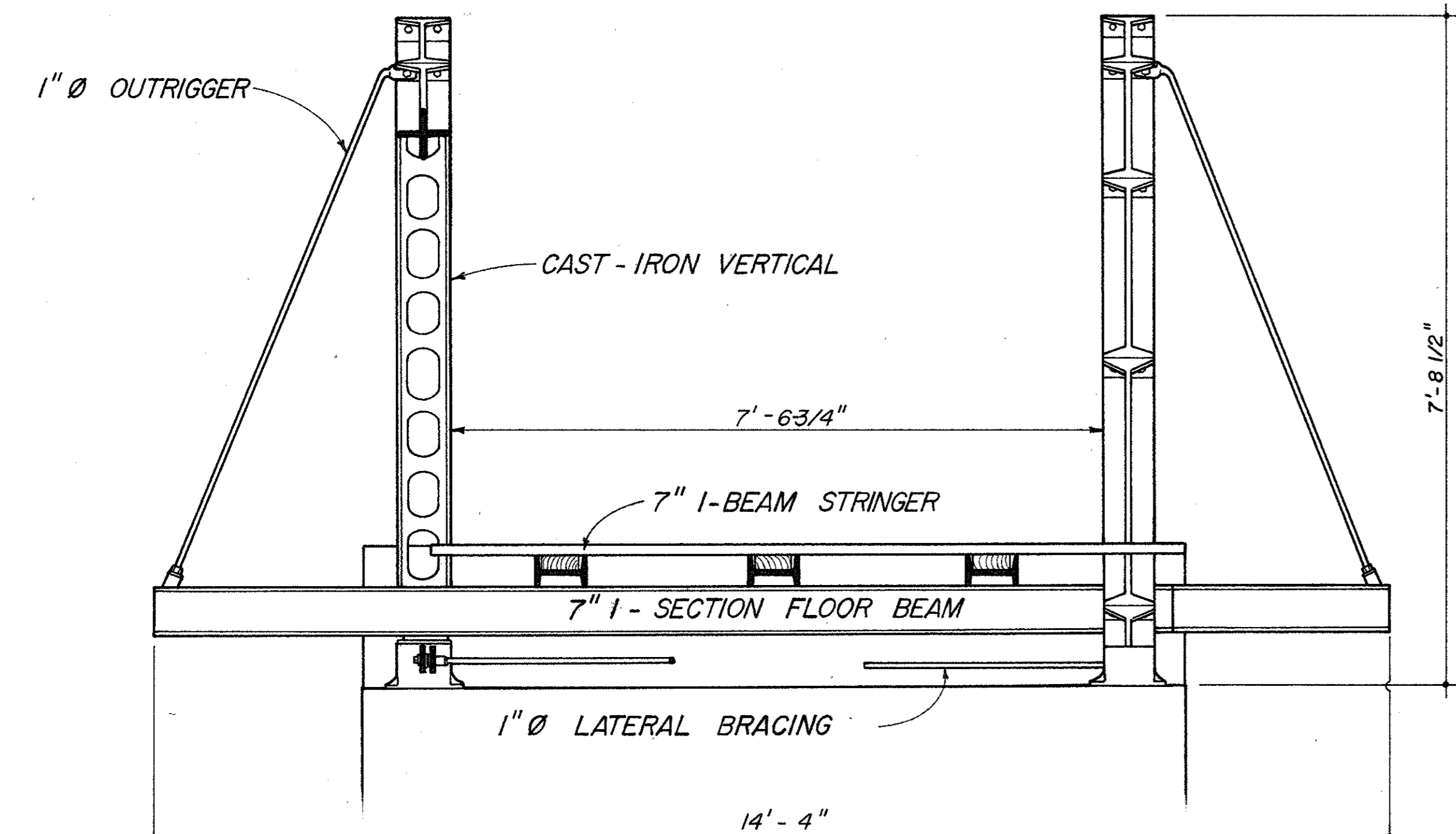
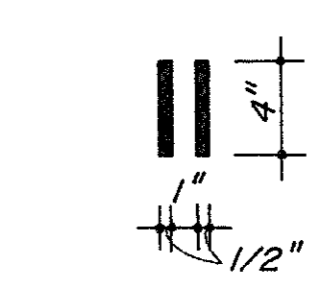
U₁-L₁, U₂-L₂, U₃-L₃, U₄-L₄, U₅-L₅, U₆-L₆, U₇-L₇, U₁-L₁, U₂-L₂, U₃-L₃, U₄-L₄, U₅-L₅



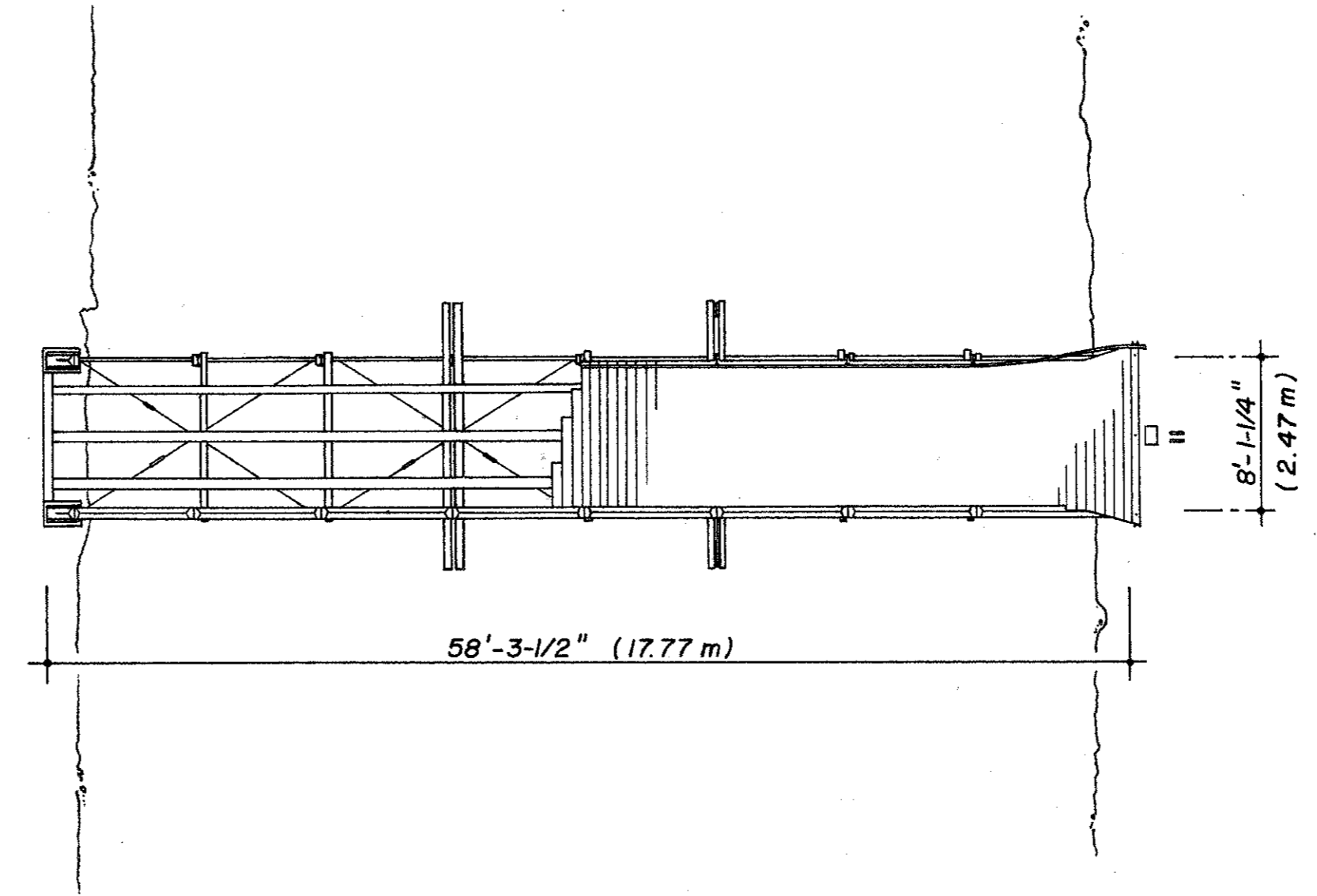
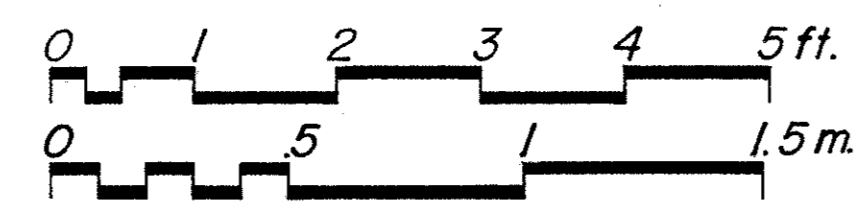
DIAGONALS

1" Ø U₁L₁ U₁L₂ U₂L₁ U₂L₃ U₃L₂ U₃L₄ U₄L₃ U₄L₅ U₅L₄ U₅L₆ U₆L₅ U₆L₇ U₇L₆ U₇L₇

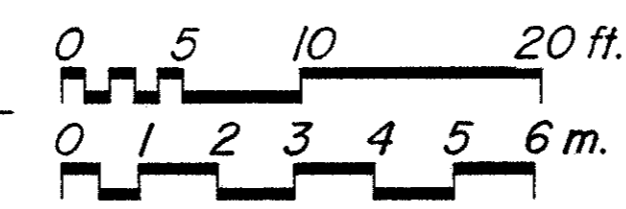
LOWER CHORD



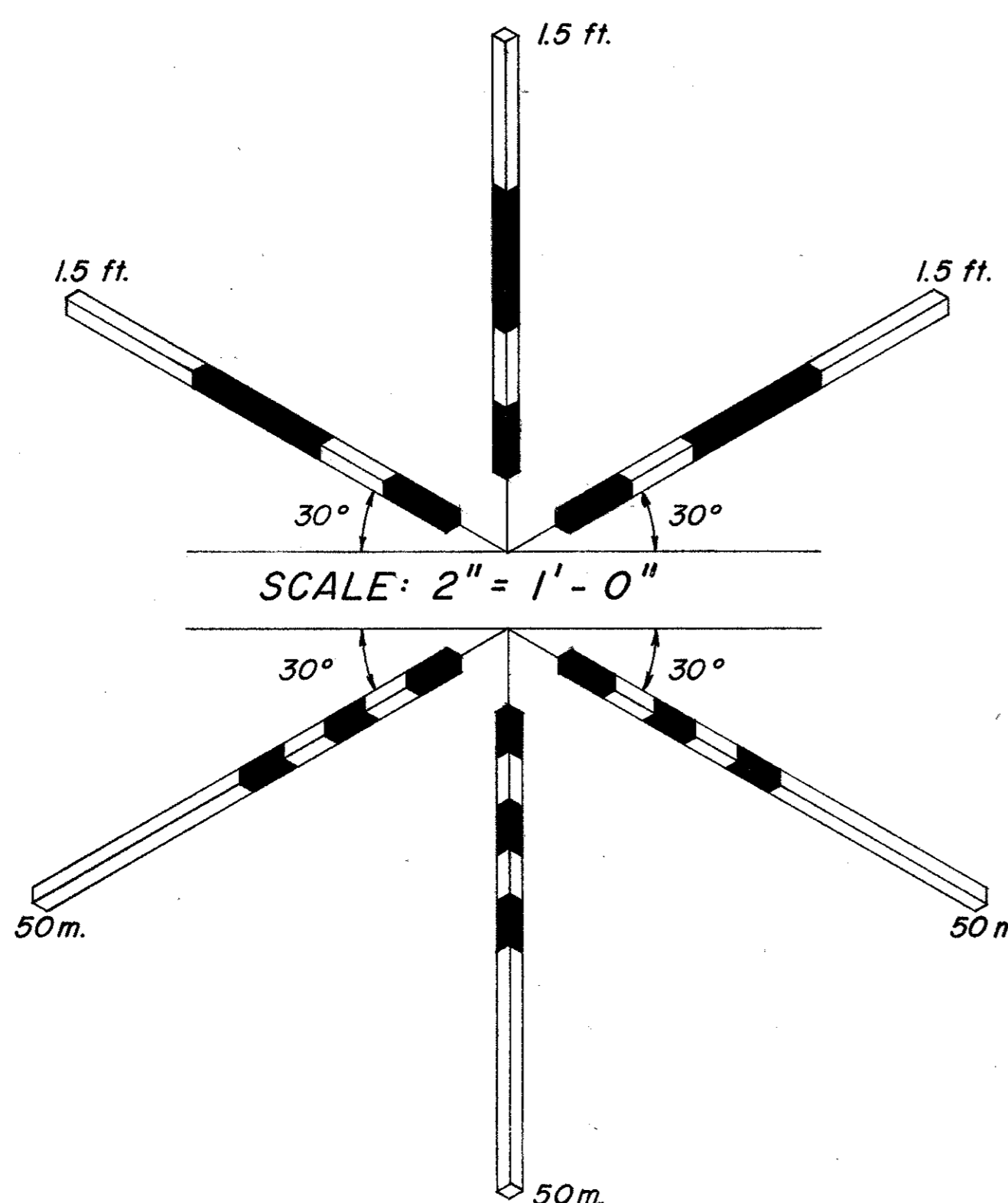
SECTION / ELEVATION
SCALE: 3/4" = 1'-0"



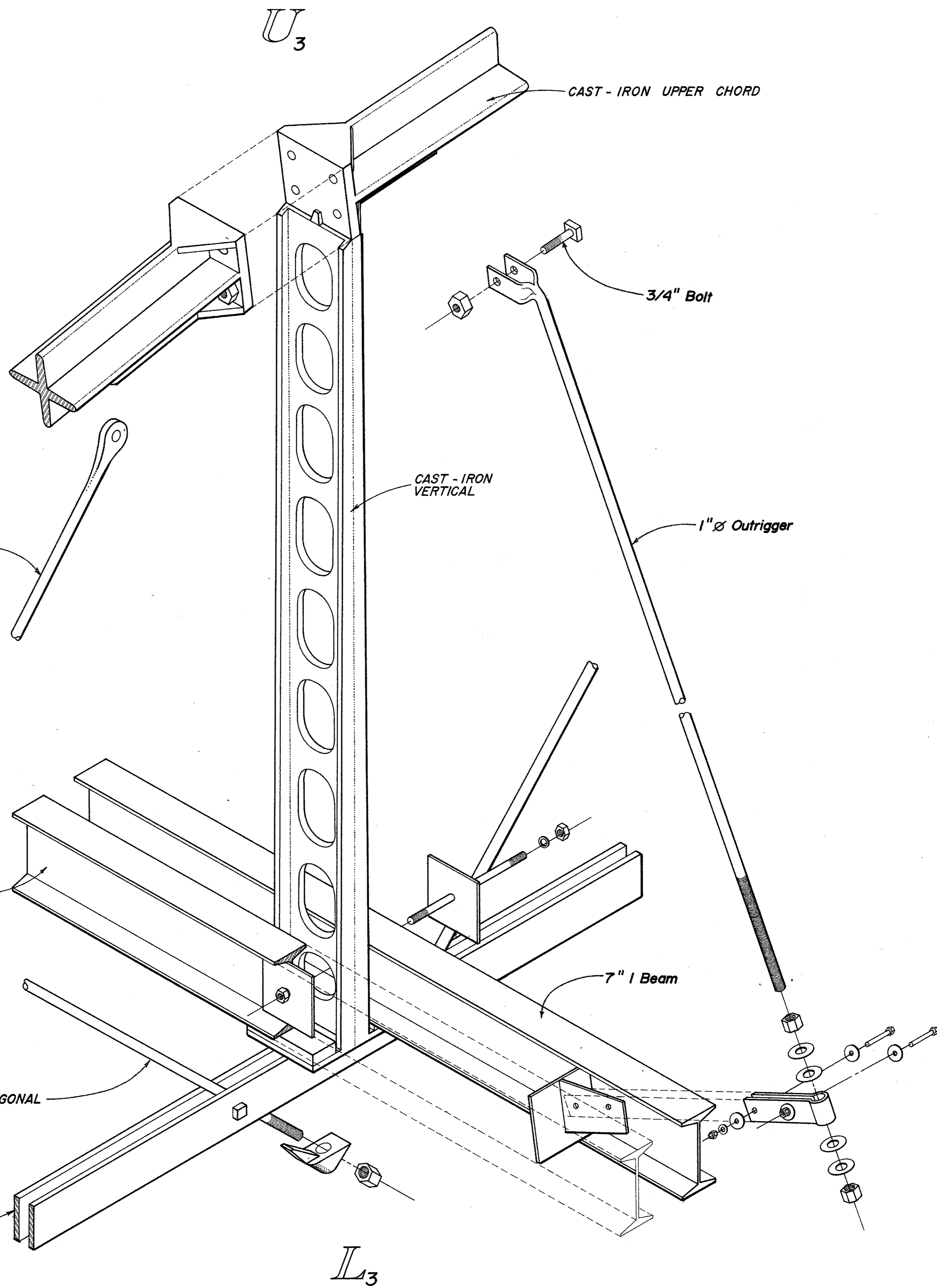
PLAN
SCALE: 1/8" = 1'-0"



CONNECTION DETAILS



UPPER CHORD



BOTTOM CHORD

DELINEATED BY: Elaine Pierce 1993
 CAST AND WROUGHT IRON BRIDGES
 RECORDING PROJECT OH
 UNITED STATES DEPARTMENT OF THE INTERIOR

NEW BREMEN
 OHIO

BLACKHOOF STREET BRIDGE - 1864
 SPANNING THE MIAMI - ERIE CANAL
 AUGLAIZE COUNTY

HISTORIC AMERICAN
 ENGINEERING RECORD
 OH - 86

SHEET
 3 OF 3

IF REPRODUCED, PLEASE CREDIT: HISTORIC AMERICAN ENGINEERING RECORD, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING