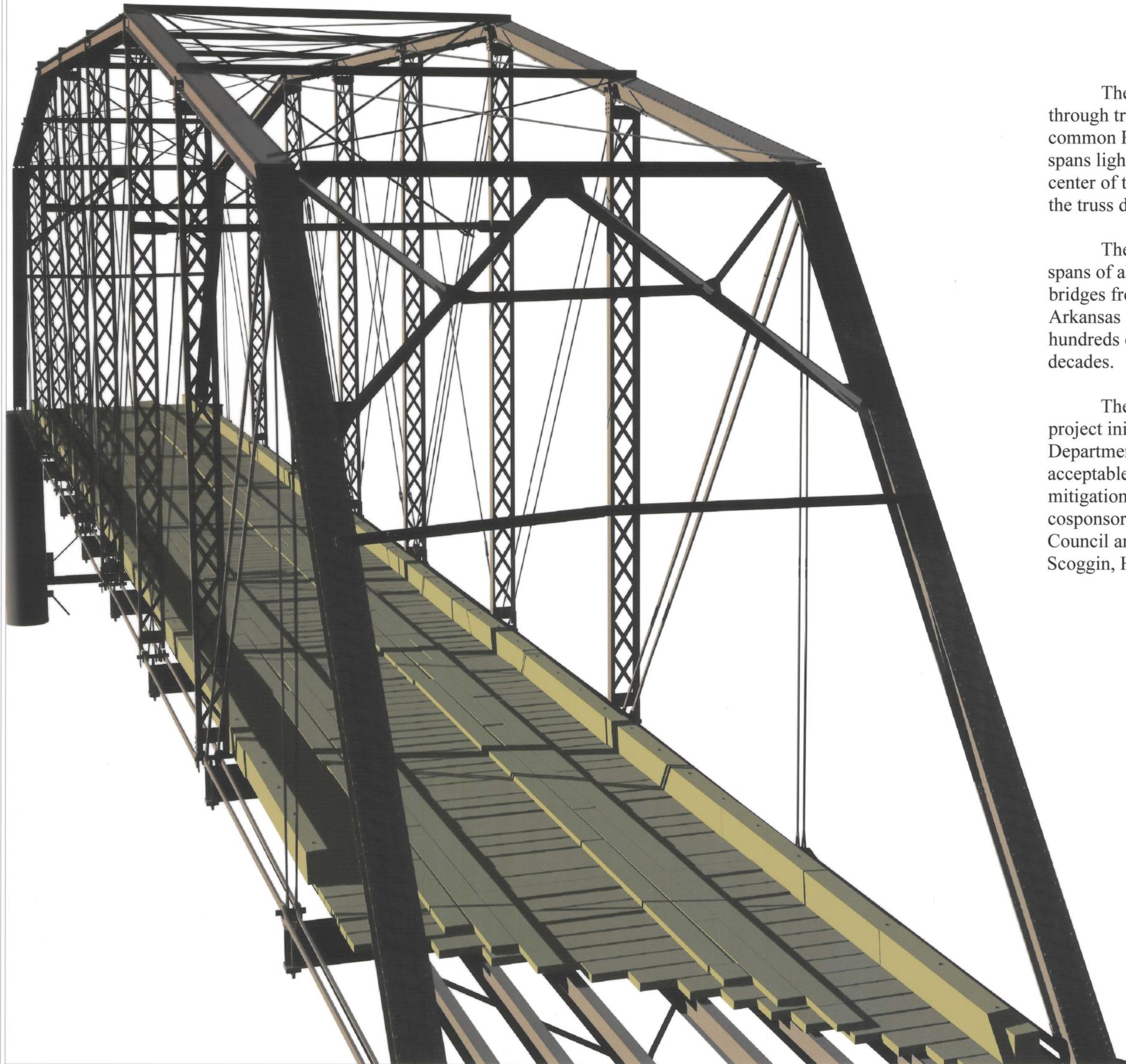


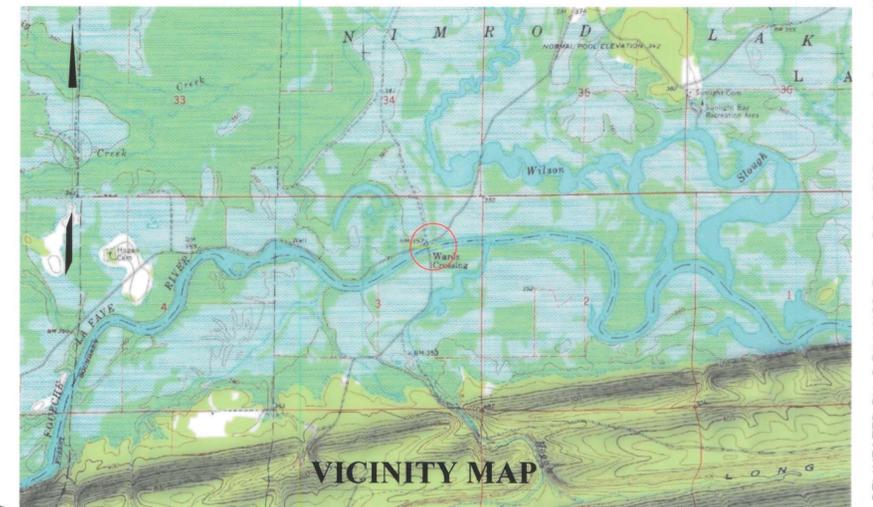
# WARD'S CROSSING BRIDGE, 1905



The Ward's Crossing Bridge is an excellent example of a Camelback through truss. The Camelback truss has the same geometry as the more common Pratt truss, but with a polygonal top chord made longer metal truss spans lighter and more economical by increasing the depth of the truss at the center of the span where the greatest bending moments occur, and reducing the truss depth at the ends of the truss where it isn't necessary.

The Camelback truss was popular well into the twentieth century for spans of about 150 to 200 feet. It is one of only a few surviving metal truss bridges from the period of bridge building prior to the development of the Arkansas State Highway Commission, when counties built and maintained hundreds of metal truss bridges that have all but disappeared in recent decades.

The Historic Bridge Laser Scan Recording Project was a special project initiated by the Arkansas State Highway and Transportation Department (AHTD) to test the viability of developing measured drawings acceptable for Historic American Engineering Record (HAER) Level I mitigation from laser scans of abandoned historic bridges. The project was cosponsored in the spring of 2008 by the Arkansas Transportation Research Council and AHTD, Dan Flowers, Director of Highways and Robert W. Scoggin, Historic Resources Coordinator, Environmental Division.



VICINITY MAP

DELINEATED BY: S BILLINGSLEY IV, PLS; GEOPHYSICAL DATA MANAGEMENT - WINTER 2008

HISTORIC BRIDGE LASER SCAN RECORDING PROJECT  
ARKANSAS STATE  
HIGHWAY AND TRANSPORTATION DEPARTMENT

PLAINVIEW VICINITY

WARD'S CROSSING BRIDGE (WARD'S BRIDGE) 1905  
SPANNING THE FOURCHE-LAFAYETTE RIVER AT SUNLIGHT BAY ROAD (CR 8)  
YELL COUNTY

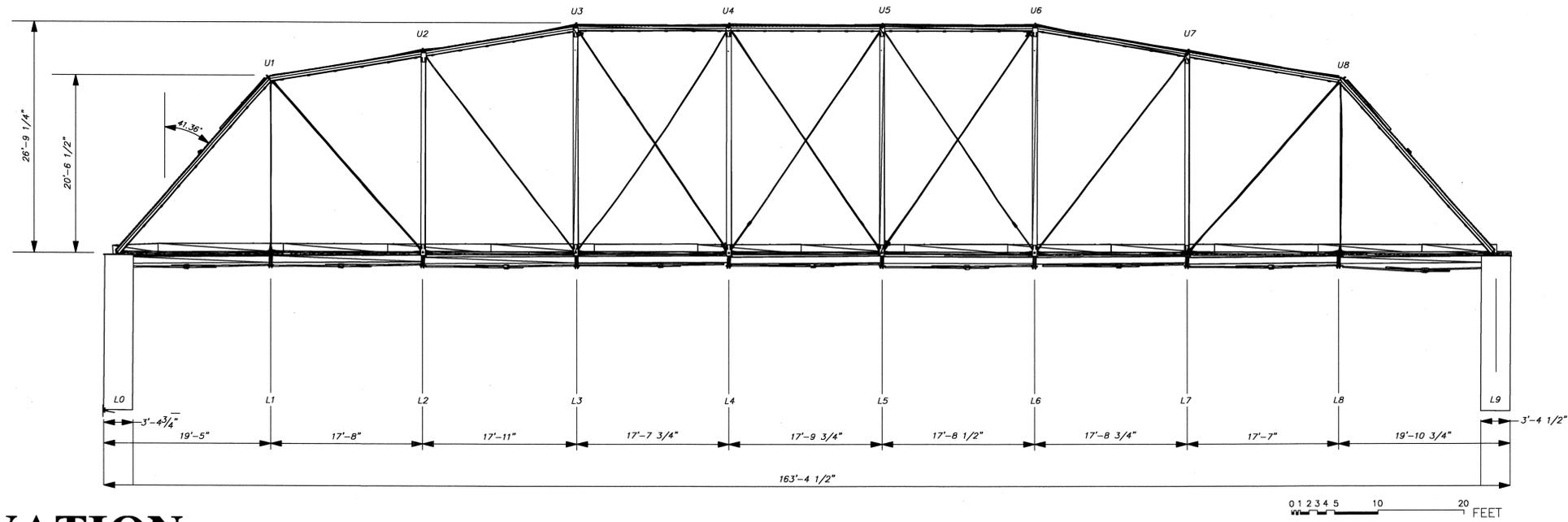
ARKANSAS

SHEET  
1 of 5

HISTORIC AMERICAN  
ENGINEERING RECORD  
AR-70

UNIVERSITY OF CALIFORNIA  
LIBRARY OF CONGRESS  
SERIALS ACQUISITION

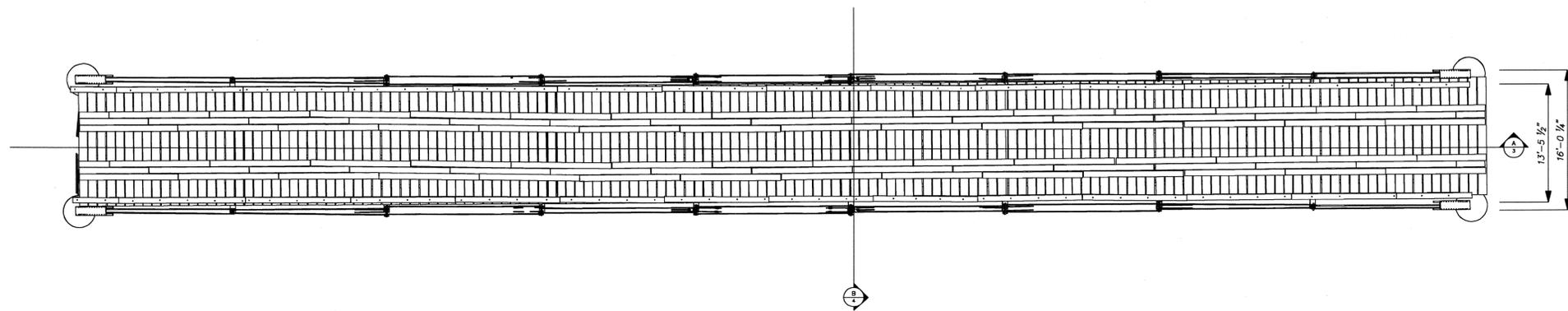
IF REPRODUCED PLEASE CREDIT THE HISTORIC AMERICAN ENGINEERING RECORD, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF DRAWING



# EAST ELEVATION

SCALE  $\frac{1}{8}"=1'$

1: 96

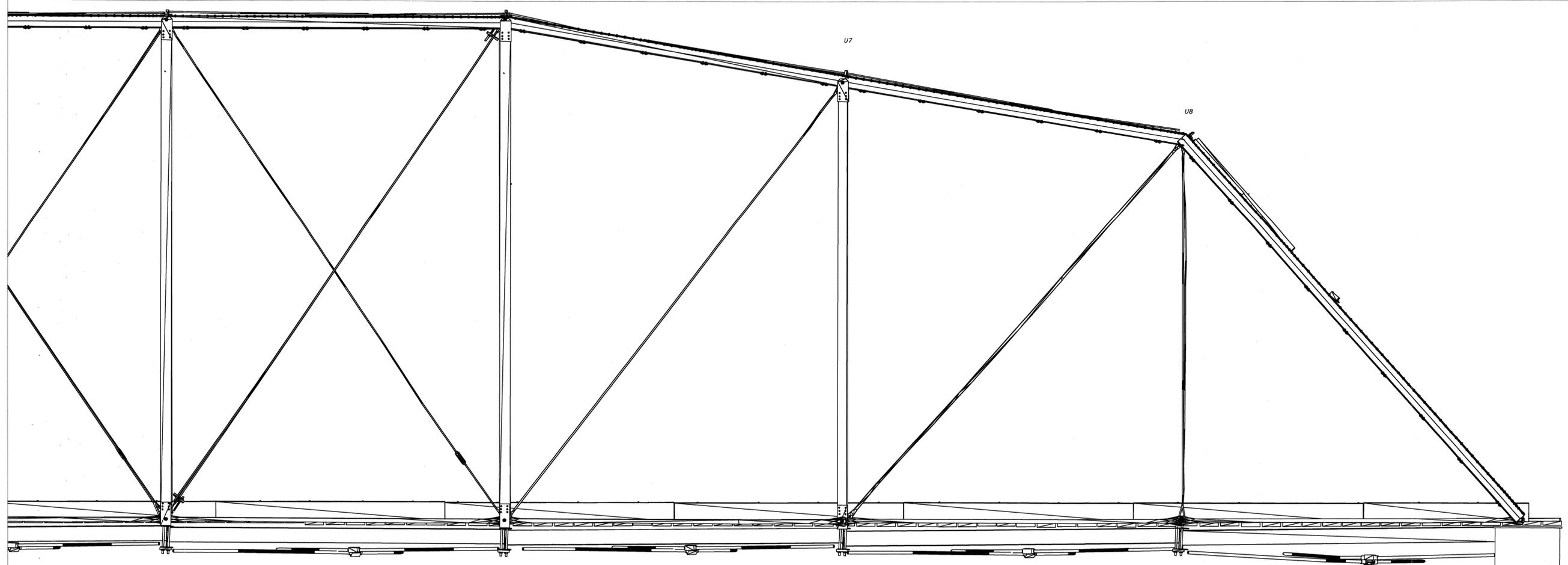


# PLAN VIEW

SCALE  $\frac{1}{8}"=1'$

1: 96

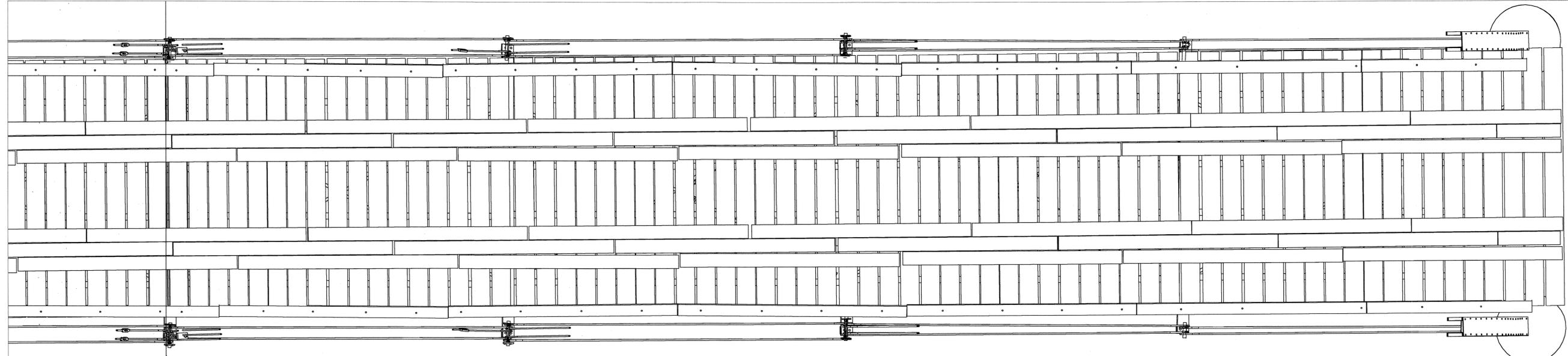




# LONGITUDINAL SECTION A

SCALE  $\frac{3}{8}"=1'$

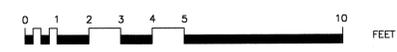
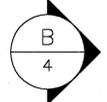
1:32



# PLAN VIEW

SCALE  $\frac{3}{8}"=1'$

1:32



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HISTORIC BRIDGE LASER SCAN  
RECORDING PROJECT  
ARVINGAS STATION  
HIGHWAY AND TRANSPORTATION DEPARTMENT

PLAINVIEW VICINITY

WARD'S CROSSING BRIDGE (WARD'S BRIDGE) 1905  
SPANNING THE FOURCHE LA PINE RIVER AT SUNLIGHT BAY ROAD (CR 8)  
YELL COUNTY

ARKANSAS

SHEET  
3 OF 5

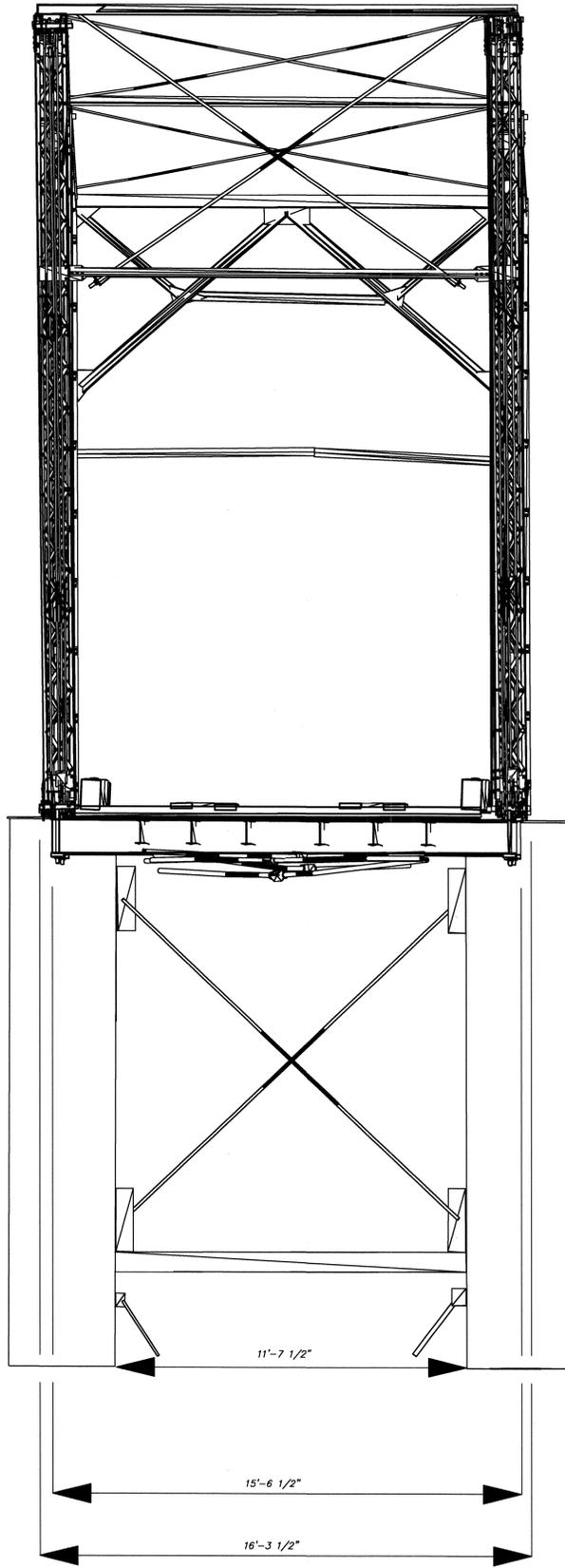
HISTORIC AMERICAN  
ENGINEERING RECORD  
AR-70

LIBRARY OF CONGRESS  
INDEX NUMBER

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

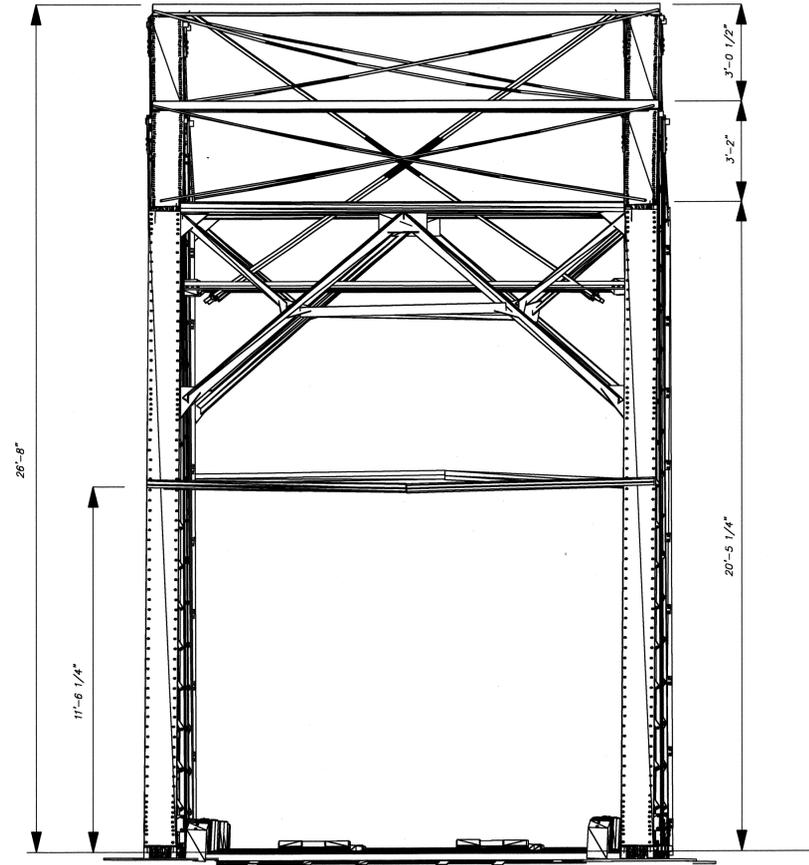
# TRAVERSE SECTION B

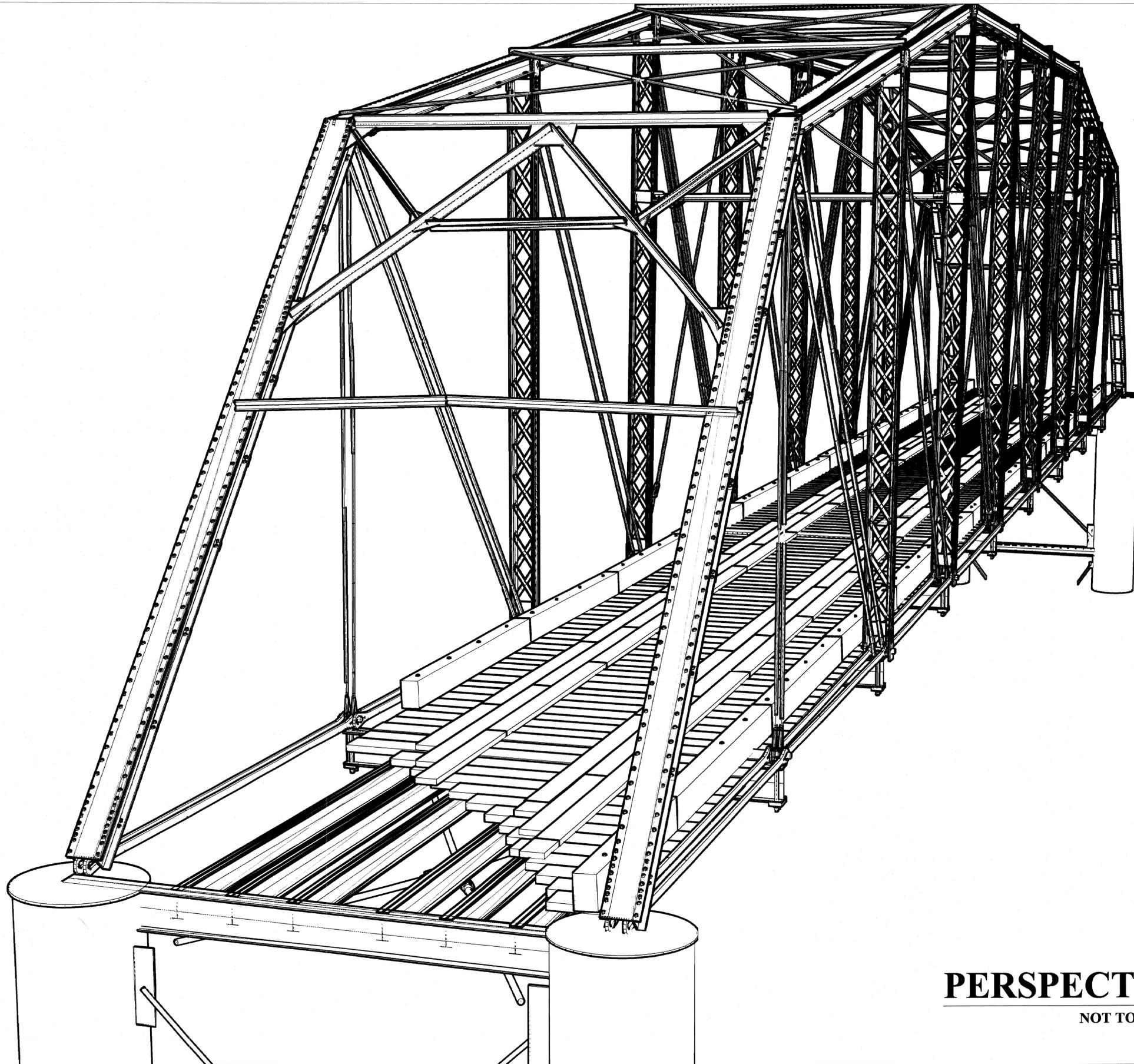
SCALE  $\frac{3}{8}"=1'$  1:32



# NORTH ELEVATION

SCALE  $\frac{3}{8}"=1'$  1:32





# PERSPECTIVE VIEW

NOT TO SCALE

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HISTORIC BRIDGE LASER SCAN  
RECORDING PROJECT  
ARKANSAS STATE  
HIGHWAY AND TRANSPORTATION DEPARTMENT

PLAINVIEW VICINITY

WAR'S CROSSING BRIDGE (WARD'S BRIDGE) 1905  
SPANNING THE FOURCHE LA PEAU RIVER AT SUNLIGHT BAY ROAD (CR 8)  
YELL COUNTY

ARKANSAS

SHEET  
5 OF 5

HISTORIC AMERICAN  
ENGINEERING RECORD  
AR-70

UNIVERSITY OF ARKANSAS  
INDEX NUMBER

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