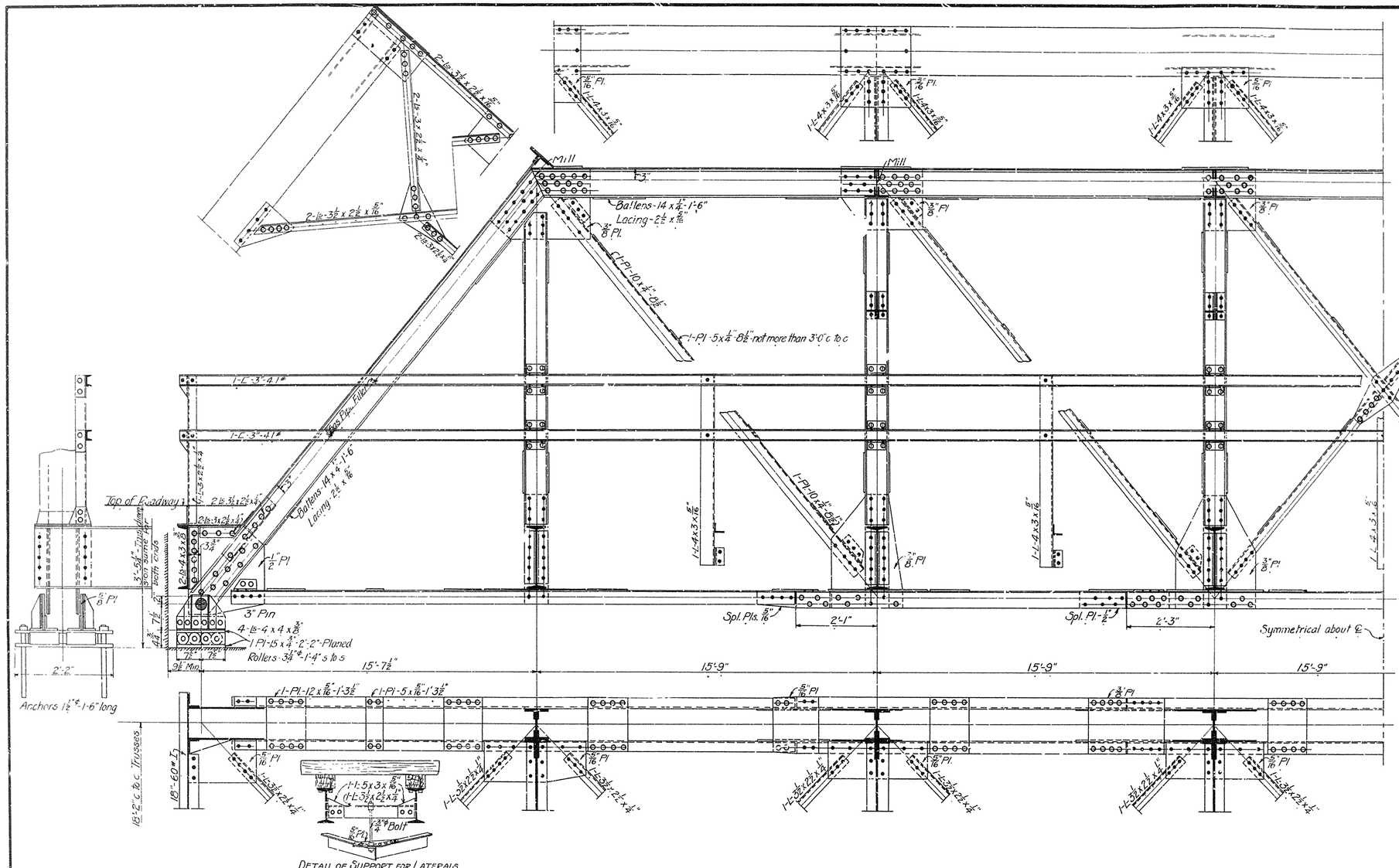
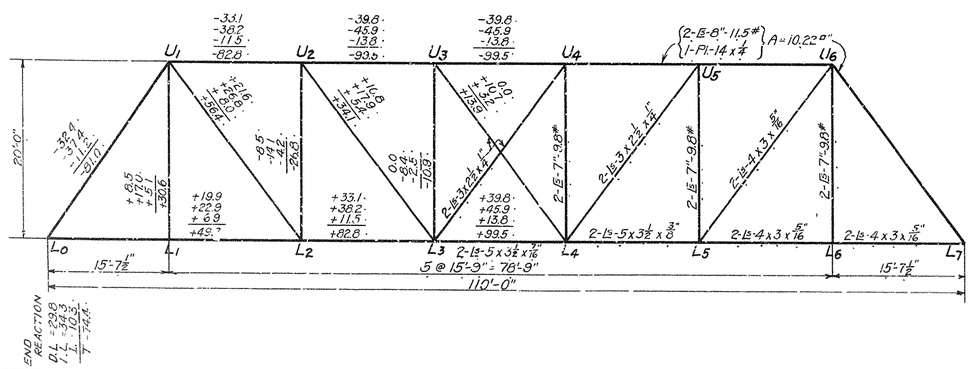
FED ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET No.	TOTAL SHEETS





STRINGERS

D L.M = 1/8 x 75 x 15.75² = 2,330'#
L L.M = 1/4 x 5620 x 15.75 = 22,120
Impact 30% = 6,636
Total = 31,086'#

31,086 x 12 / 16,000 = 23.3 = Sec Mod Req'd

Use 10"-25.4#-I-Sec Mod = 24.4

FLOOR BEAMS

D.L.M. = 1/8 x 5.75 x 18.17² = 23,700'#
L.L.M. = 7.58 x 9900 = 75,042
Impact 30% = 22,500
Total = 121,242'#

121,242 x 12 / 16,000 = 30.5 = Sec. Mod Req'd.

Use 18"-60#-I-Sec. Mod. = 93.1

NOTE - This drawing is general only. Shop drawings must be made in compliance with specifications and must be submitted and approved before fabrication begins.

DESIGNED	N.B.G.
TRACED	E.H.E.
CHECKED	
REVISIONS	

SPECIFICATIONS

Live Load.- Uniform :- 79 lbs per square foot of roadway
Concentrated :- 15-Ton Truck as shown below

Impact :- 30% of live load
Unit Stresses :- See Arkansas Highway Department Specifications
Rivets :- 7/8" diam except in flanges of 7" channels
Open Holes :- 13/16" diam
All field connections riveted. Rivet holes in tension members are to be so spaced that not more than one hole is deducted from area of cross-section of each angle at point of maximum stress.
Shop Paint :- One coat red lead and boiled linseed oil
Field Paint :- Two coats of different colors as approved by the engineer.
Batten plates spaced not over 3'-0" c. to c
Estimated weight of steel = 71,900#. Lumber = 9,935. F.B.M.

STANDARD PLAN

110-FT. STEEL HIGHWAY BRIDGE
16' ROADWAY

ARKANSAS HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.

Approved _____
Commissioner State Lands, Highways & Improvements.

By: _____
State Highway Engineer.
Oct., 1922.

STATE STANDARD No. F-311-A.