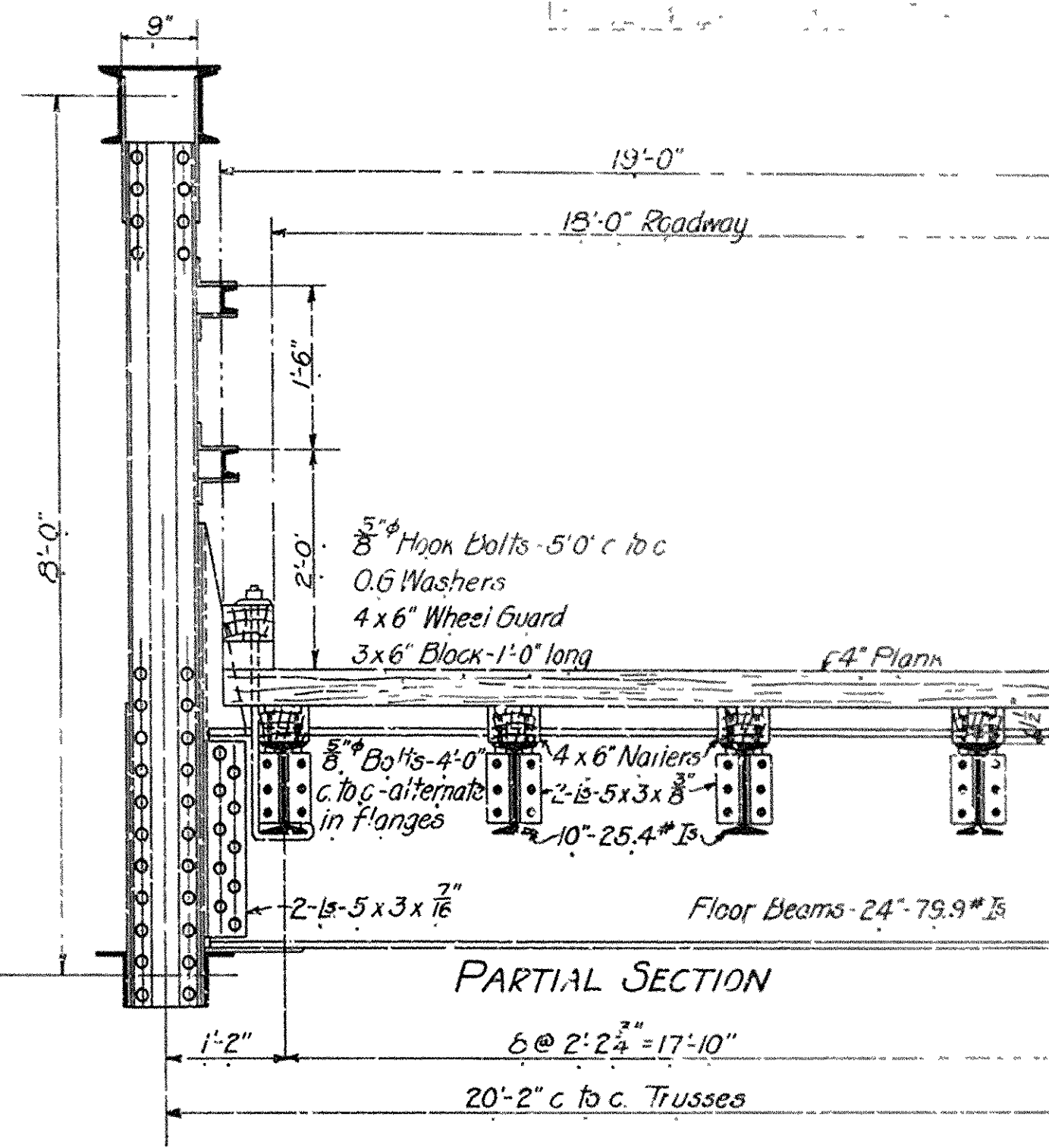
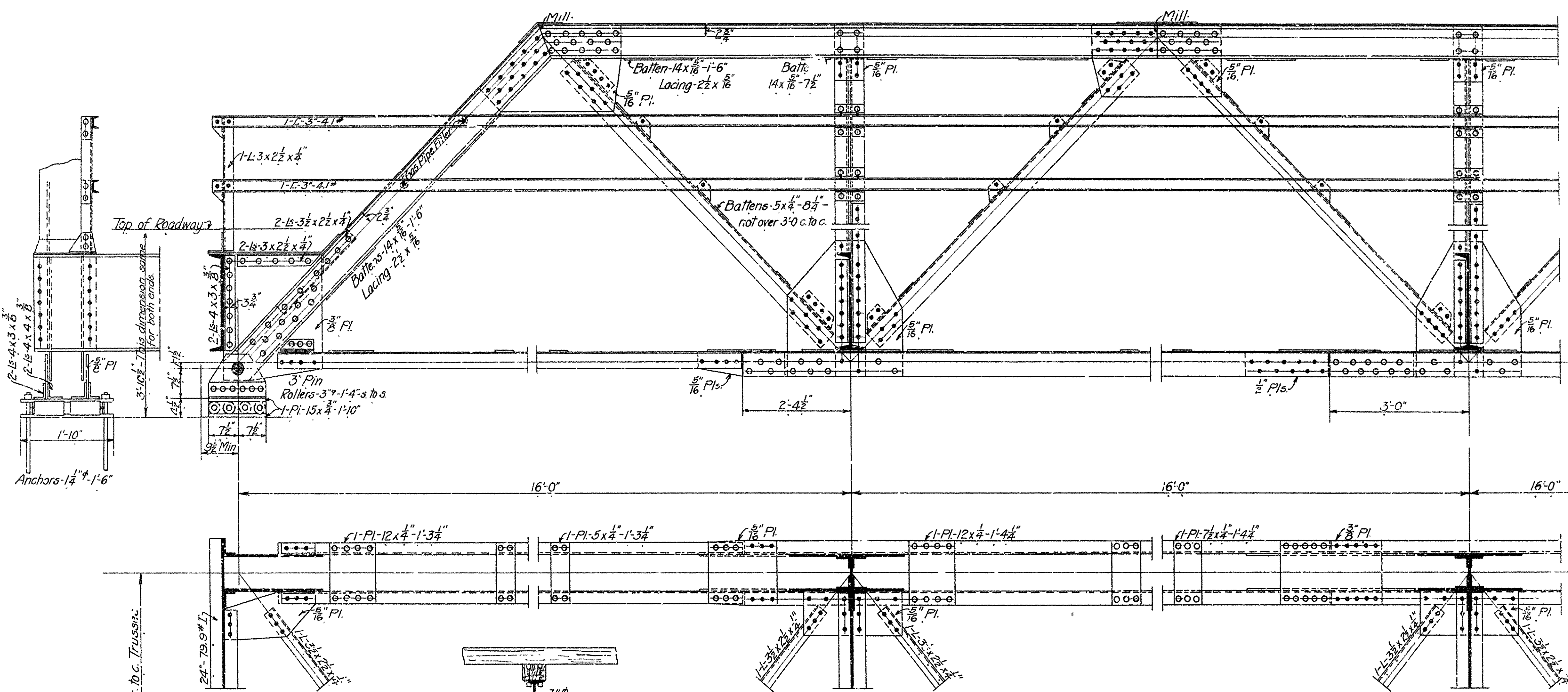


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS



STRINGERS
 D.L.M. = 8/8 x 74 x 16 = 2,370#
 L.L.M. = 8/8 x 5600 x 16 = 22,400
 Impact 30% = 6,720
 Total = 31,490#
 $\frac{31,490 \times 12}{16,000} = 23.6 = \text{Sec. Mod. Reqd.}$
 Use 10'-25.4# I5 - Sec. Mod. = 24.4

FLOOR BEAMS
 D.L.M. = 8/8 x 612 x 20.17 = 31,200#
 L.L.M. = 8.58 x 23,760 - 6 x 11,880 = 132,600
 Impact 30% = 39,780
 Total = 203,580#
 $\frac{203,580 \times 12}{16,000} = 152.7 = \text{Sec. Mod. Reqd.}$
 Use 24'-79.9# I5 - Sec. Mod. = 173.9

SPECIFICATIONS

Live Load - Uniform - 80# per square foot of roadway
 Concentrated - Two 15-Ton Trucks as shown below

10'-0"

10,000# Axle Loads

20,000#

6'-0"

Impact - 30% of live load

Unit Stresses - See Arkansas Highway Department Specifications

Rivets - 3/4" diam

Open Holes - 1/8" 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.

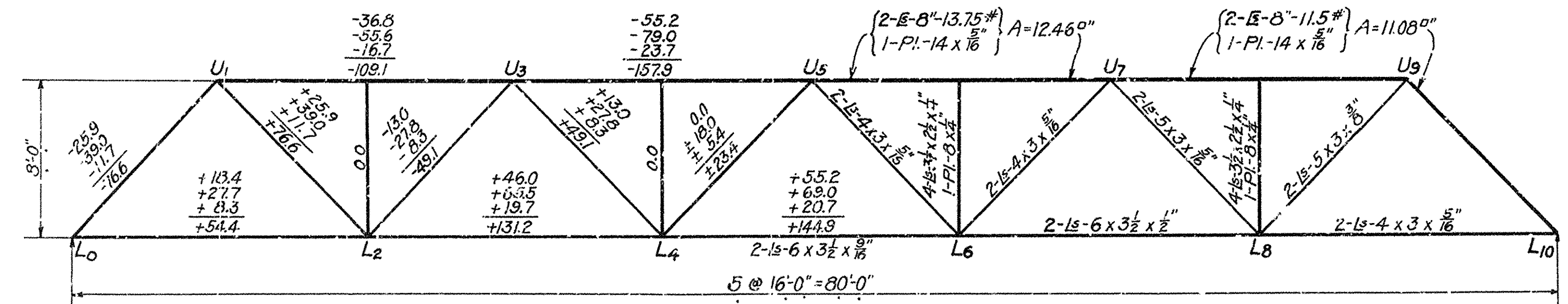
Shop Paint - One coat red lead and boiled linseed oil

Field Paint - Two coats of different colors as approved by the engr

Battens spaced not over 3'-0" c. to c.

Estimated weight of steel - 57,300#; Lumber-8,100 Ft. B.M.

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



END REACTION
 D.L. = 23.0
 L.L. = 103.9
 T = 70.2

STANDARD PLAN
 80-FT STEEL HIGHWAY BRIDGE
 18' ROADWAY
 ARKANSAS HIGHWAY DEPARTMENT
 LITTLE ROCK, ARK.

Approved: _____
 Commissioner State Lands, Highways & Improvements.

By: _____
 State Highway Engineer.
 Oct, 1922.

DESIGNED	N.B.G.
TRACKED	F.H.F.
CHECKED	
REVISIONS	