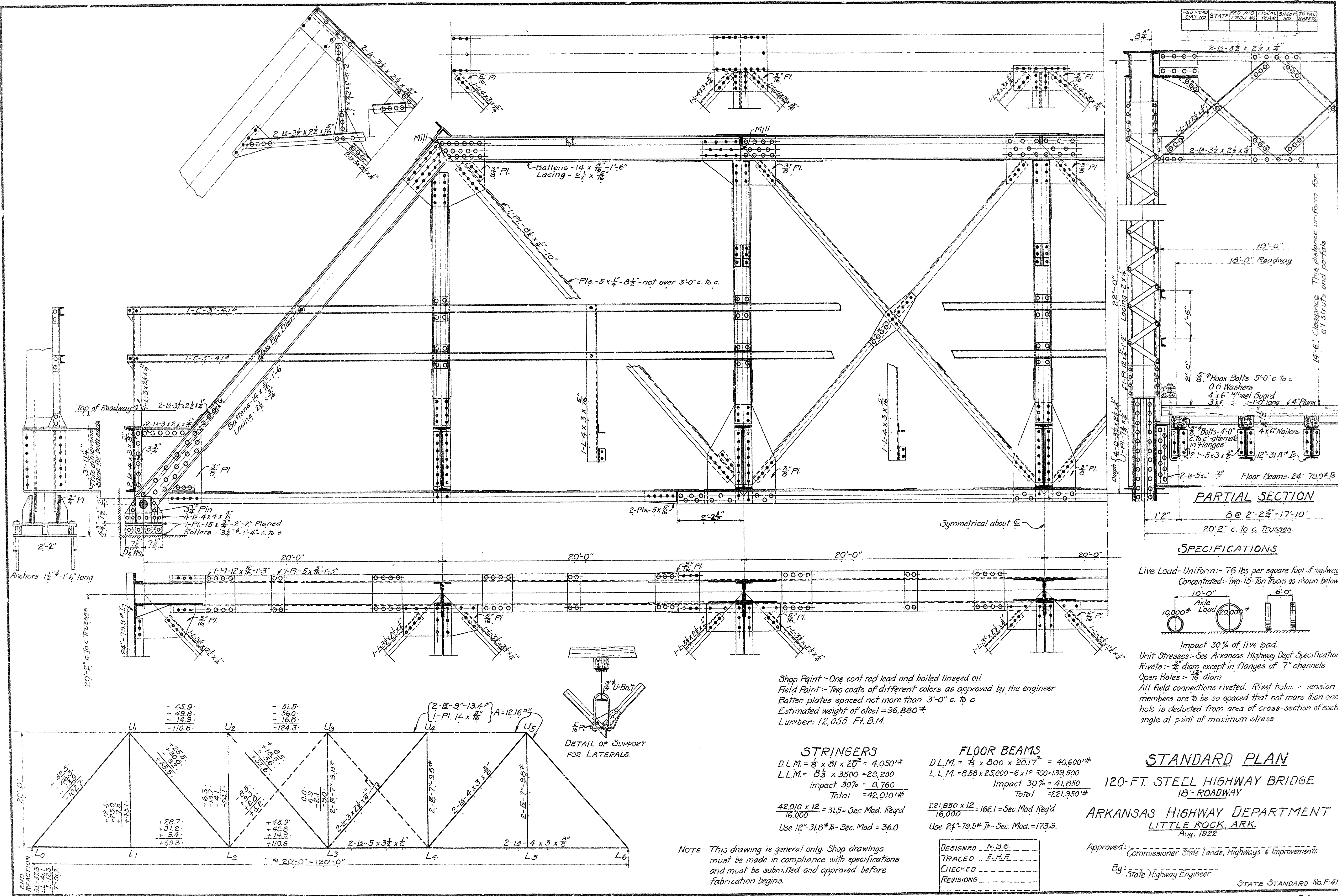


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

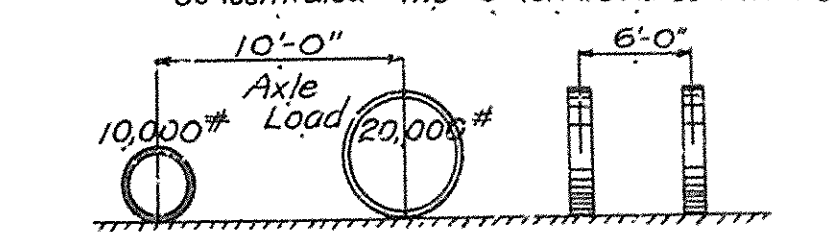


PARTIAL SECTION

19'-0"
18'-0" Roadway
1'-6"
2'-0"
5/8" Hook Bolts 5'-0" c to c
0.6 Washers
4 x 6" Wheel Guard
3 x 3" L-10" Iron F4' Plym
Bolts-4'-0" c to c alternate in flanges
4 x 6" Nailers
12'-31.8" I_b
2-15-5 x 3/8" Floor Beams-24" 79.9# I_b

SPECIFICATIONS

Live Load-Uniform:- 75 lbs per square foot of roadway
Concentrated:- Two 15-Ton Trucks as shown below



Impact 30% of live load.
Unit Stresses:- See Arkansas Highway Dept Specifications
Rivets:- 3/4" diam, except in flanges of 7" channels
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 engineer
Batten plates spaced not more than 3'-0" c. to c.
Estimated weight of steel = 36,880#
Lumber: 12,055 Ft. B.M.

STRINGERS
D.L.M. = $\frac{1}{2} \times 81 \times 20^2 = 4,050\#$
L.L.M. = $83 \times 3500 = 29,200$
Impact 30% = 8,760
Total = 42,010#
 $\frac{42,010 \times 12}{16,000} = 31.5 = \text{Sec Mod. Req'd}$
Use 12"-31.8" I_b - Sec. Mod. = 36.0

FLOOR BEAMS
D.L.M. = $\frac{1}{2} \times 800 \times 20.17^2 = 40,600\#$
L.L.M. = $8.58 \times 25,000 - 6 \times 17^2 \times 300 = 139,500$
Impact 30% = 41,850
Total = 221,950#
 $\frac{221,950 \times 12}{16,000} = 166.1 = \text{Sec. Mod. Req'd}$
Use 24"-79.9" I_b - Sec. Mod. = 173.9.

STANDARD PLAN
120-FT. STEEL HIGHWAY BRIDGE
18'-ROADWAY
ARKANSAS HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.
Aug. 1922.

Approved: _____
Commissioner State Lands, Highways & Improvements
By: _____
State Highway Engineer

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

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

