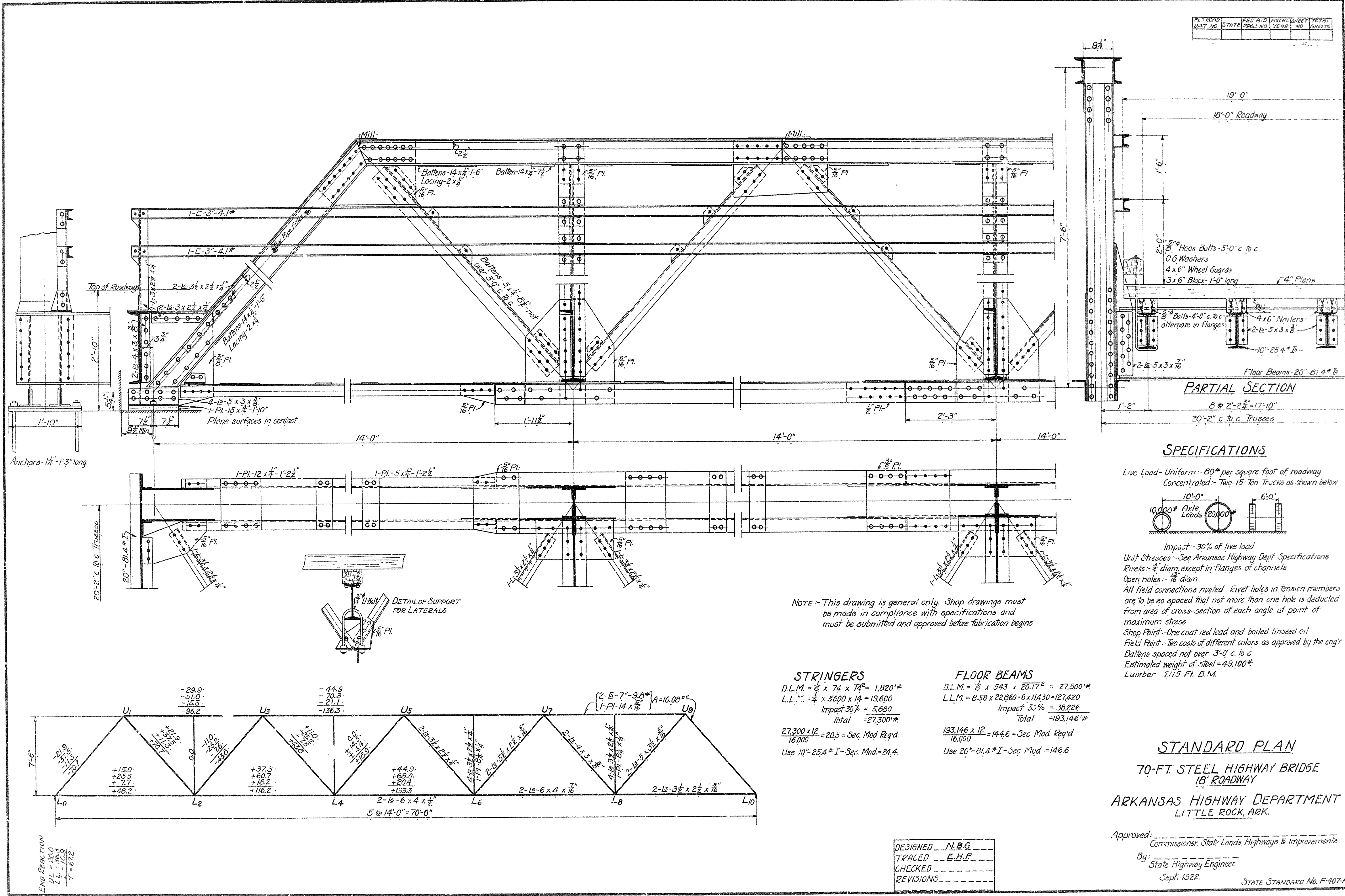


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS



SPECIFICATIONS

Live Load - Uniform - 80# 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 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 eng'r
 Battens spaced not over 3'-0" c. to c.
 Estimated weight of steel = 49,100#
 Lumber 7,115 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.

STRINGERS

D.L.M. = 8' x 74 x 14² = 1,820'#
 L.L.M. = 1/4" x 5500 x 14 = 19,600
 Impact 30% = 5,880
 Total = 27,300'#
 27,300 x 12 = 20.5 = Sec. Mod. Req'd.
 16,000
 Use 10" - 25.4# I - Sec. Mod. = 24.4

FLOOR BEAMS

D.L.M. = 8' x 543 x 20.17² = 27,500'#
 L.L.M. = 8.58 x 22,860 - 6 x 114.30 = 127,420
 Impact 30% = 38,226
 Total = 193,146'#
 193,146 x 12 = 144.6 = Sec. Mod. Req'd.
 16,000
 Use 20" - 81.4# I - Sec. Mod. = 146.6

STANDARD PLAN

70-FT. STEEL HIGHWAY BRIDGE
 18' ROADWAY
 ARKANSAS HIGHWAY DEPARTMENT
 LITTLE ROCK, ARK.

Approved: _____
 Commissioner, State Lands, Highways & Improvements
 By: _____
 State Highway Engineer
 Sept., 1922.

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