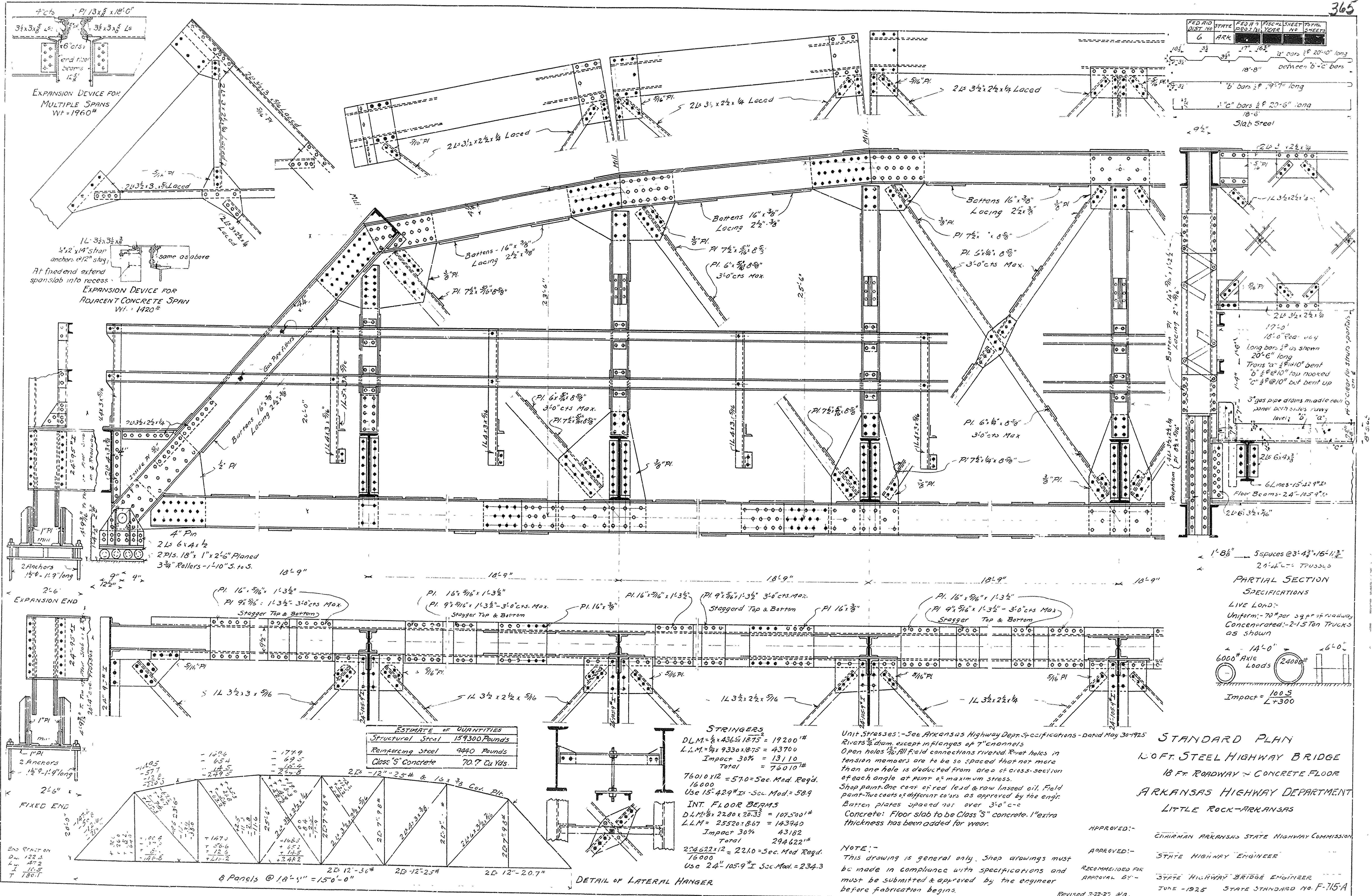


FED. DIST. NO.	STATE	FED. PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.		17	20



ESTIMATE OF QUANTITIES

Structural Steel	159300 Pounds
Reinforcing Steel	9440 Pounds
Class 'S' Concrete	70.7 Cu Yds.

STRINGERS
 $D.L.M. = \frac{1}{2} \times 436 \times 1875 = 19200 \#$
 $L.L.M. = \frac{1}{4} \times 9330 \times 1875 = 43700$
 Impact 30% = 13110
 Total = 76010#
 $76010 \times 12 = 570 = \text{Sec. Mod. Req'd.}$
 16000
 Use 15" 429# I.S. Sec. Mod. = 589

INT. FLOOR BEAMS
 $D.L.M. = \frac{1}{2} \times 2280 \times 20.33 = 107500 \#$
 $L.L.M. = \frac{1}{4} \times 25520 \times 1867 = 143940$
 Impact 30% = 43182
 Total = 294622#
 $294622 \times 12 = 2210 = \text{Sec. Mod. Req'd.}$
 16000
 Use 24" 105.9# I.S. Sec. Mod. = 234.3

Unit Stresses: - See Arkansas Highway Dept. Specifications - Dated May 30, 1925
 Rivets 3/4" diam. except in flanges of 7" channels
 Open holes 3/8" fill 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 of red lead & raw linseed oil. Field paint - Two coats of different colors as approved by the engr.
 Batten plates spaced not over 3'-0" c-c
 Concrete: Floor slab to be Class 'S' concrete. 1" extra thickness has been added for wear.

STANDARD PLAN
 100 FT. STEEL HIGHWAY BRIDGE
 18 FT. ROADWAY - CONCRETE FLOOR
 ARKANSAS HIGHWAY DEPARTMENT
 LITTLE ROCK - ARKANSAS

APPROVED: -
 CHAIRMAN ARKANSAS STATE HIGHWAY COMMISSION

APPROVED: -
 STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL BY -
 STATE HIGHWAY BRIDGE ENGINEER

JUNE - 1925 STATE STANDARD NO. F-715-A

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

PARTIAL SECTION SPECIFICATIONS
 LIVE LOAD:
 Uniform - 70# per sq ft of roadway
 Concentrated - 2-15 Ton Trucks as shown

6000# Axle Loads (24000#)
 Impact = 100.5
 L+300