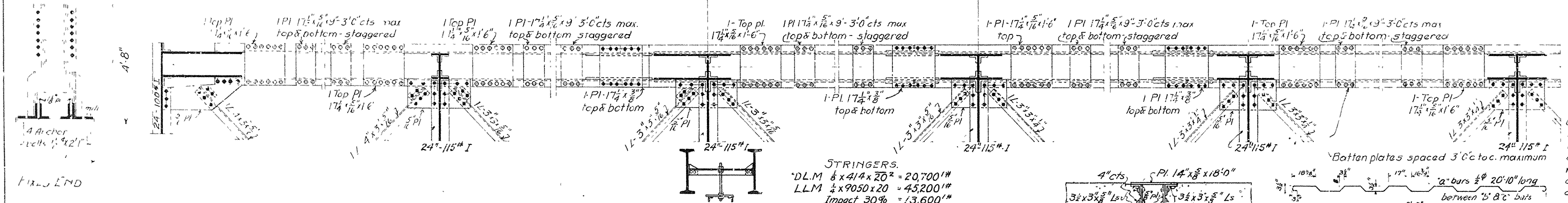


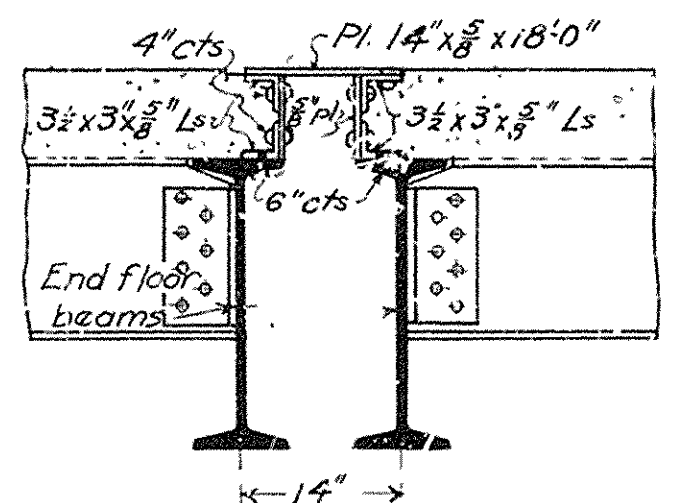
HAIR SECTION SPECIFICATIONS

Live Load Uniform-4 lbs. per square foot of roadway Concentrated 2 1/2 Ton trucks as shown below. Impact = 100% L+300

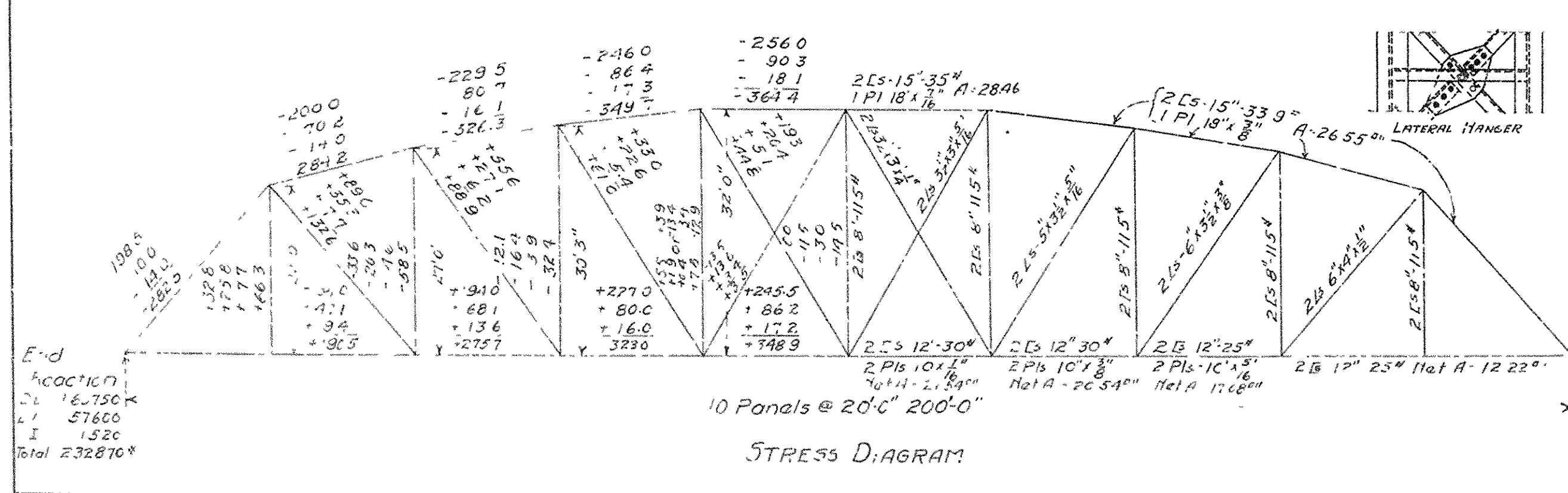
Unit stresses - See Arkansas State Highway Department Specifications Rivets 8 diam & open holes 1/8" in flanges of 8" & 2 1/2" legs of Ls All field sections riveted. Rivet holes in tension members made up of angles are to be so spaced that not more than one hole is deducted from area of cross section of each angle at point of maximum stress. Shop paint - One coat of red lead and raw linseed oil. Field paint - Two coats of different colors as approved by the engineer. Floor slab to be Class 5 concrete. 1" extra thickness has been added for wear.



STRINGERS: D.L.M. 6 x 414 x 20' = 20,700# L.L.M. 1/2 x 9050 x 20 = 45,200# Impact 30% = 13,600# Total = 79,500# 79,500 x 12 / 76000 = 59.6 Sec. Mod. Req'd. Use 15" 42.9# Is Sec Mod = 58.9 INT. FLOOR BEAMS: D.L.M. 2 x 252 1/2 x 20' = 133,000 L.L.M. 2 x 75 x 25800 - 6 - 12900 = 148,600 Impact 30% = 44,590 Total = 326,180 326,180 x 12 / 76000 = 245.0 Sec Mod Req'd. Use 24" 115# Is. Sec Mod = 245.0



CROSS SECTION EXPANSION DEVICE FOR MULTIPLE SPANS. WT = 1990# At fixed end extend span slab into recess. EXP DEVICE FOR ADJACENT CONCRETE SPAN. WT = 1450#



STRESS DIAGRAM

ESTIMATED QUANTITIES: Structural Steel - Lbs 243,300# Reinforcing Steel - Lbs 12,470# Class 5 Concrete - Yds 93.9 Expansion Plate (see sketches)

STANDARD PLAN 200 FT. STEEL HIGHWAY BRIDGE 13 FT. ROADWAY - CONCRETE FLOOR ARKANSAS HIGHWAY DEPARTMENT LITTLE ROCK, ARK.

DESIGNED R.R.A. DRAWN S.C.E. CHECKED REVISIONS 2/2/27 R.U.

APPROVED CHAIRMAN, ARKANSAS STATE HIGHWAY COMMISSION BY STATE HIGHWAY ENGINEER MAY 1924 STATE STANDARD NO. F-720-A