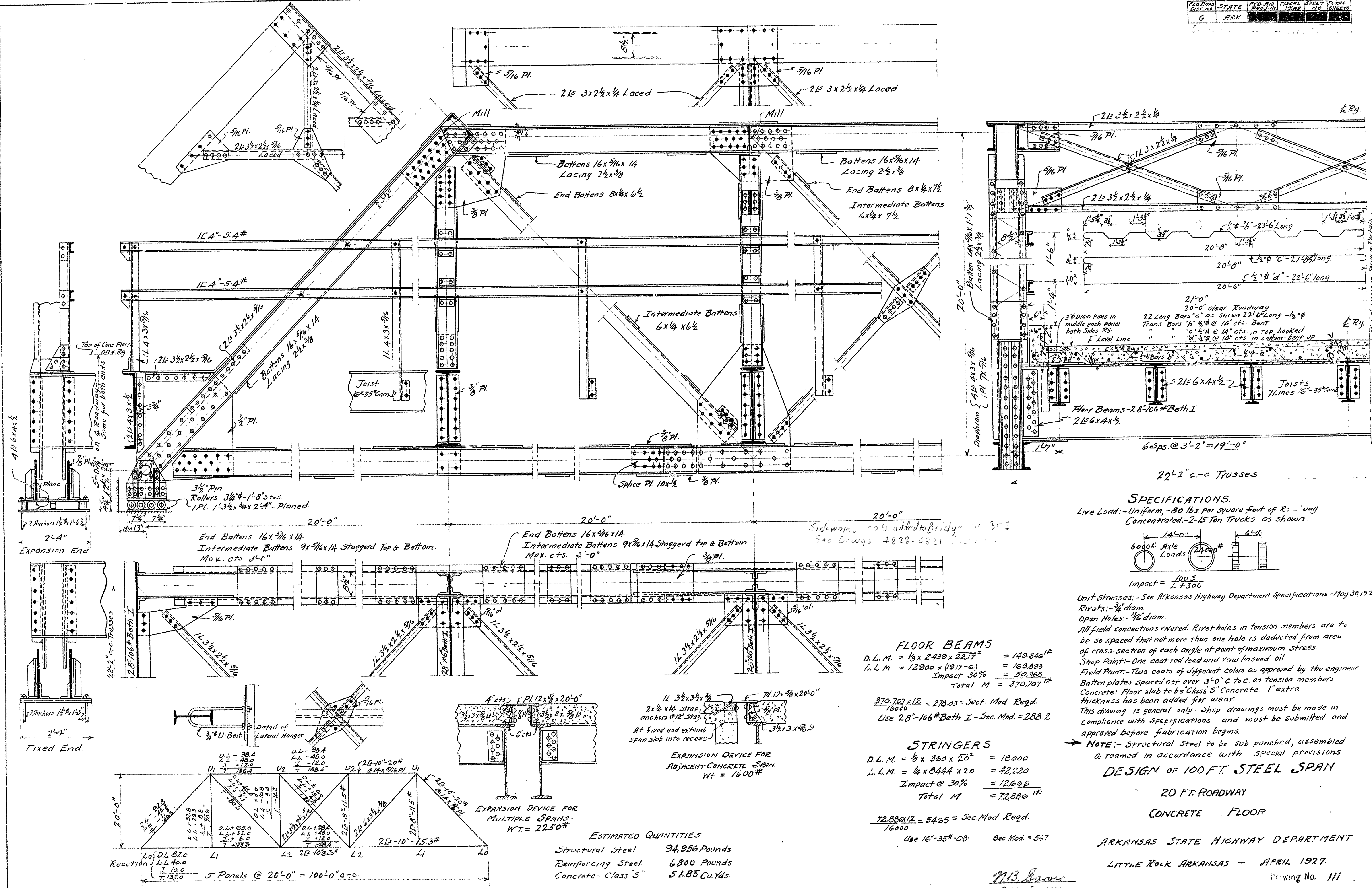


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.				



SPECIFICATIONS.
 Live Load: - Uniform - 80 lbs per square foot of roadway
 Concentrated - 2-15 Ton Trucks as shown.

6000# Axle Loads

Impact = $\frac{100S}{L+300}$

FLOOR BEAMS
 D.L.M. = $\frac{1}{8} \times 2439 \times 22.17^2 = 149,846\#$
 L.L.M. = $12900 \times (18.17-6) = 169,893$
 Impact 30% = 50,968
 Total M = 370,707#

STRINGERS
 D.L.M. = $\frac{1}{8} \times 360 \times 20^2 = 18,000$
 L.L.M. = $\frac{1}{4} \times 8444 \times 20 = 42,220$
 Impact 30% = 12,666
 Total M = 72,886#

ESTIMATED QUANTITIES
 Structural Steel 94,956 Pounds
 Reinforcing Steel 6800 Pounds
 Concrete - Class "S" 54.85 Cu. Yds.

Unit Stresses: - See Arkansas Highway Department Specifications - May 30, 1925
 Rivets: - $\frac{3}{4}$ " diam.
 Open Holes: - $\frac{1}{8}$ " diam.
 All field connections riveted. Rivet holes in tension members are to be so spaced that not more than one hole is deducted from arc of cross-section of each angle at point of maximum stress.
 Shop Paint: - One coat red lead and raw linseed oil
 Field Paint: - Two coats of different colors as approved by the engineer
 Batten plates spaced not over 3'-0" c. to c. on tension members
 Concrete: Floor slab to be Class "S" Concrete. 1" extra thickness has been added for wear.
 This drawing is general only. Shop drawings must be made in compliance with specifications and must be submitted and approved before fabrication begins.

NOTE: - Structural Steel to be sub punched, assembled & reamed in accordance with special provisions

DESIGN OF 100 FT. STEEL SPAN
 20 FT. ROADWAY
 CONCRETE FLOOR

ARKANSAS STATE HIGHWAY DEPARTMENT
 LITTLE ROCK ARKANSAS - APRIL 1927.
 Drawing No. 111

M.B. Weaver
 Bridge Engineer