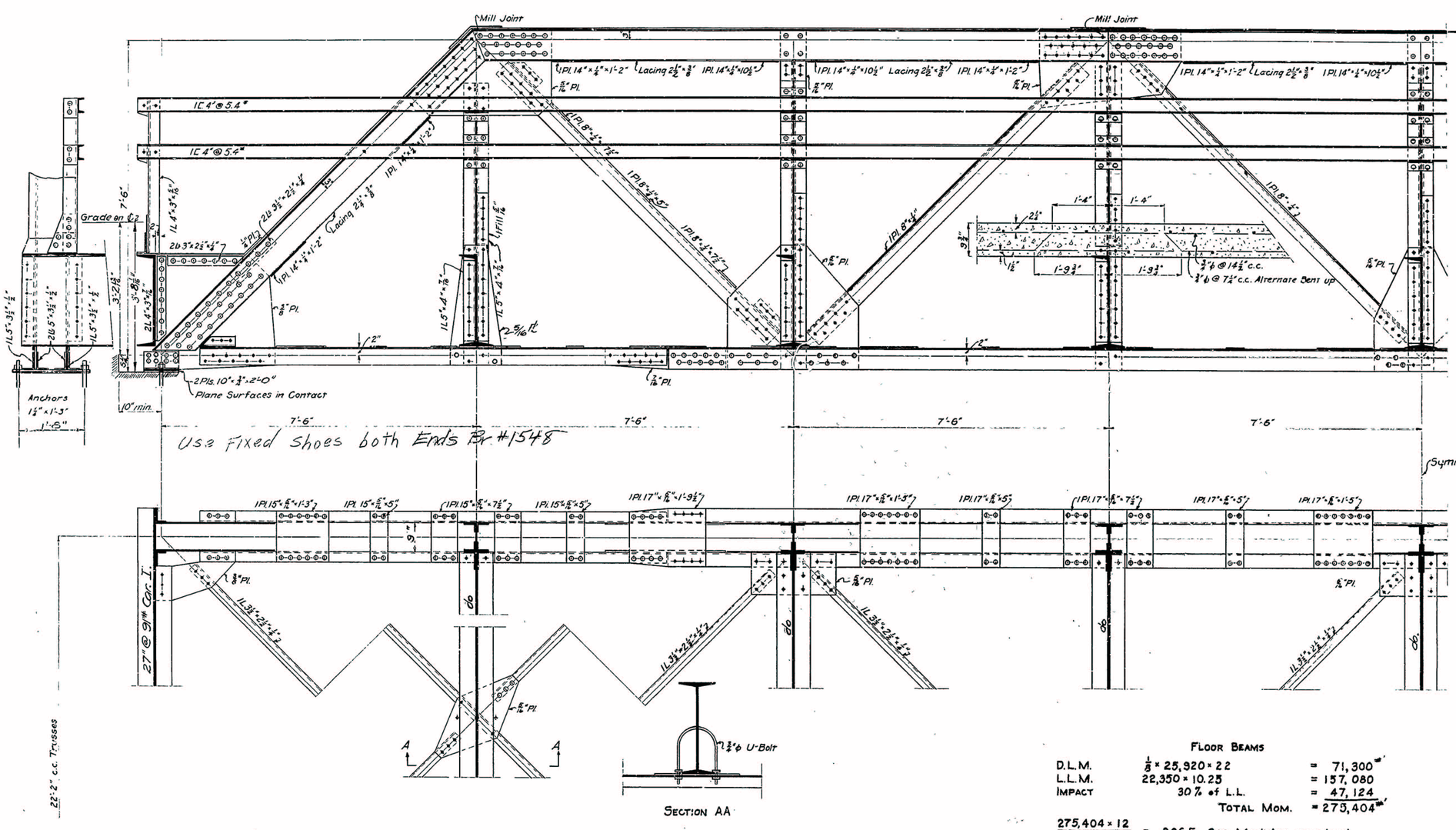
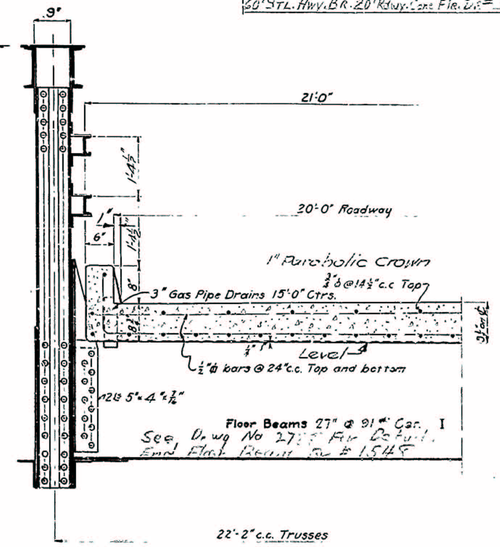
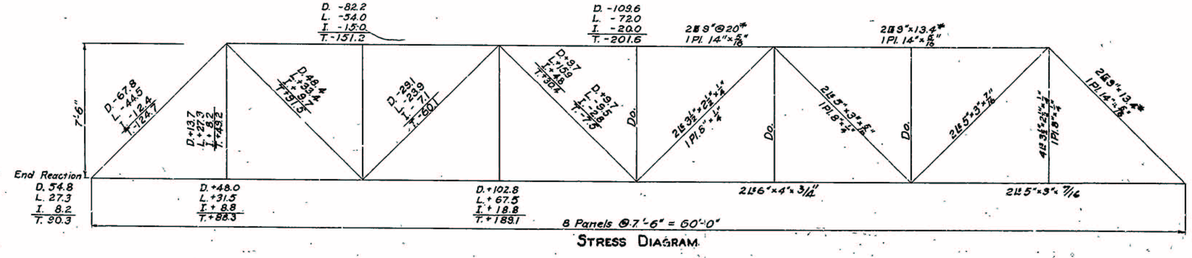
Fed. Road Dist. No.	State	Fed. Aid Proj. No.	Fiscal Year	Sheet No.	Total Sheets
6	ARK.				

60' Stl. Hwy. Br. 20' Rdwy. Conc. Flr. Dr. No. 91





Partial Section



Stress Diagram

Floor Beams

D.L.M.	$\frac{1}{8} \times 25{,}920 \times 22$	= 71,300#
L.L.M.	$22{,}350 \times 10.25$	= 157,080
Impact	30% of L.L.	= 47,124
	Total Mom.	= 275,404#

$\frac{275{,}404 \times 12}{16000}$ = 206.5 Sec. Modulus required

Use: 27" Can. I @ 91#. Sec. Modulus 238.3

Estimated Quantities

Structural Steel - Lbs.	43,100
Reinforcing Steel - Lbs.	6,992
Concrete - Cu. yds. Class "S"	39.3

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

Specifications

Live Load:- Concentrated -- 2-15 Ton Trucks as shown below. Equivalent uniform load -- 130 lbs. per sq. ft. of roadway.

Impact $\frac{100}{L + 300}$. (L = Length)

Unit Stresses:- See Arkansas Highway Department Specifications May 30, 1925.

Rivets:-- ¾" diam., & open holes $\frac{13}{16}$" diameter.

All field connections riveted. Rivet holes in tension members are to be spaced so that not more than one hole is deducted from the area of cross-section of each angle at the 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 engineer.

Concrete floor slab is Class "S". 1 inch has been added for wear. Chamfer exposed edges ¾".

Reinforcing steel to be deformed bars of Structural or Intermediate grade.

Revised Gen. Revi. 7-8-30 F.P.B.

Designed By: R.C.G.
Drawn By: R.E.H.
Checked By:
Date: June 3, 1927
Revisions: 7-23-27

STANDARD PLAN
60 FT. STEEL HIGHWAY BRIDGE
20 FT. ROADWAY ~ CONCRETE FLOOR

ARKANSAS HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.

Approved:- _____ Chairman, Arkansas State Highway Commission.

Approved:- _____ State Highway Engineer

Recommended For Approval:- _____ State Highway Bridge Engineer

June 1927 Drwg. No. 91