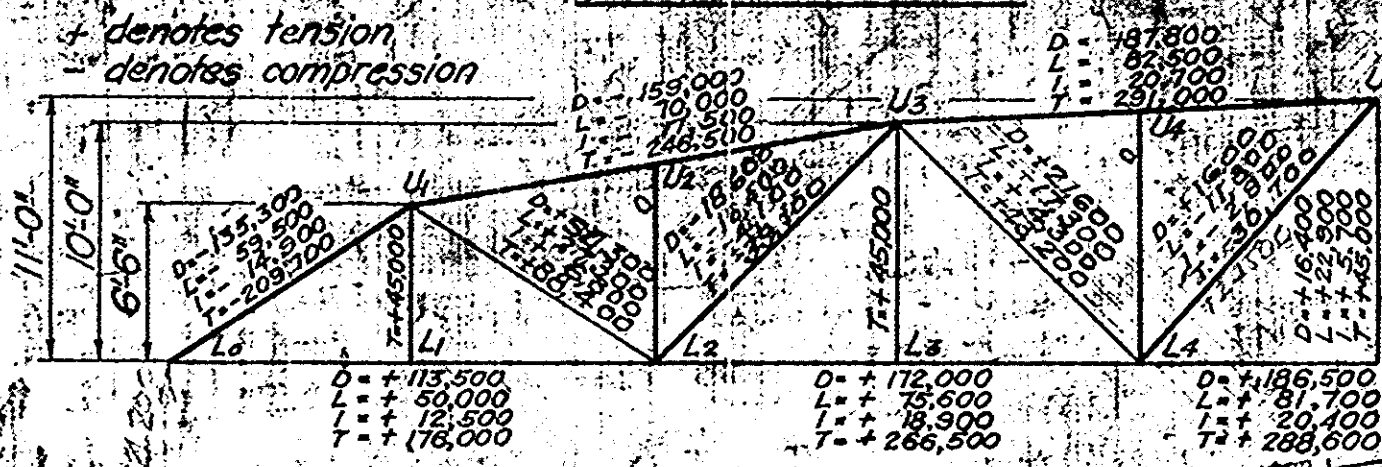
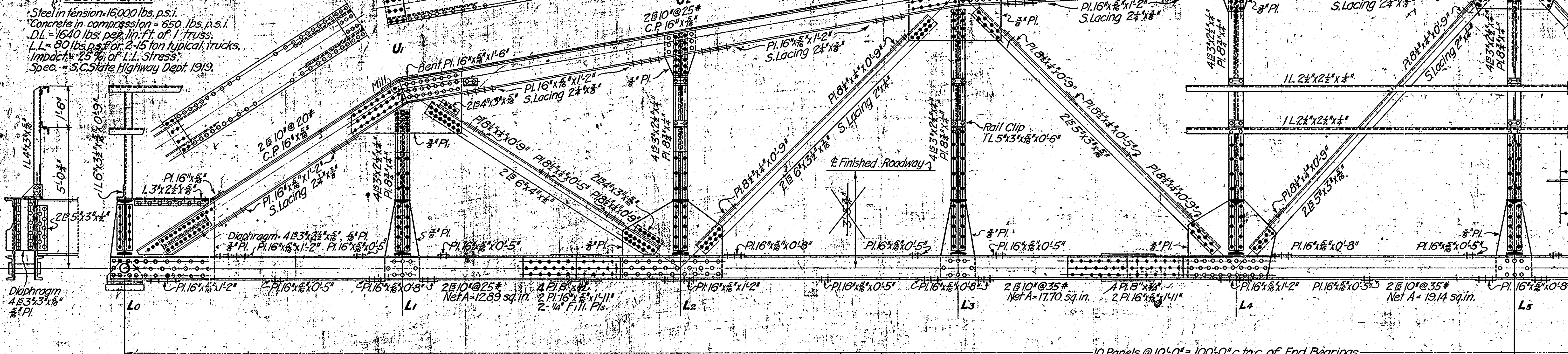


STRESS DIAGRAM



DESIGN DATA

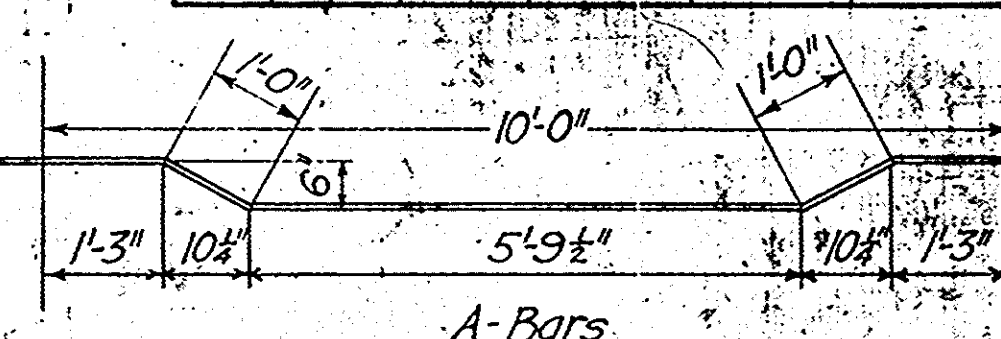
Steel in tension 16,000 lbs. p.s.i.
 Concrete in compression = 650 lbs. p.s.i.
 D.L. = 1640 lbs. per lin. ft. of 1 Truss.
 L.L. = 80 lbs. p.s.f. for 2-15 ton typical trucks.
 Impact = 25% of L.L. Stress.
 Spec. = S.C. State Highway Dept. 1919.



STEEL TABLE

For Floor Reinforcing Bars

Bar	No.	Size	Length	Weight	Remarks
A	15	3/4"	112'-0"	2523#	Bent
B	34	3/4"	109'-0"	5567#	Strut
C	41	1/2"	106'-9"	654	"
D	4	1/2"	106'-0"	361	"
				Total =	9105#



Notes

Steel table includes allowance for 2" laps of 40 diam. for A, B and D Bars in length of bridge.
 A and B Bars are to be hooked at ends of bridge.
 Laps of reinforcing bars are to be at least 40 diam. and staggered.
 Specifications - S.C. State Highway Dept. 1919.
 Rivets 3/4" open holes 1/2" Pin - See Spec.
 Immediately before placing masonry plates on piers, thoroughly swab the masonry with a coat of red lead paint and then place upon it 3 layers of 12 oz. duck, each layer being thoroughly swabbed on its top surface with red lead paint. Place the masonry plate while the paint is plastic.

ESTIMATED QUANTITIES

Structural Steel and Castings	72,360 lbs.
Reinforcing Bars	9,105 lbs.
Glass A Concrete Paving	30,000 cu. yd.

WEST FORK LITTLE RIVER

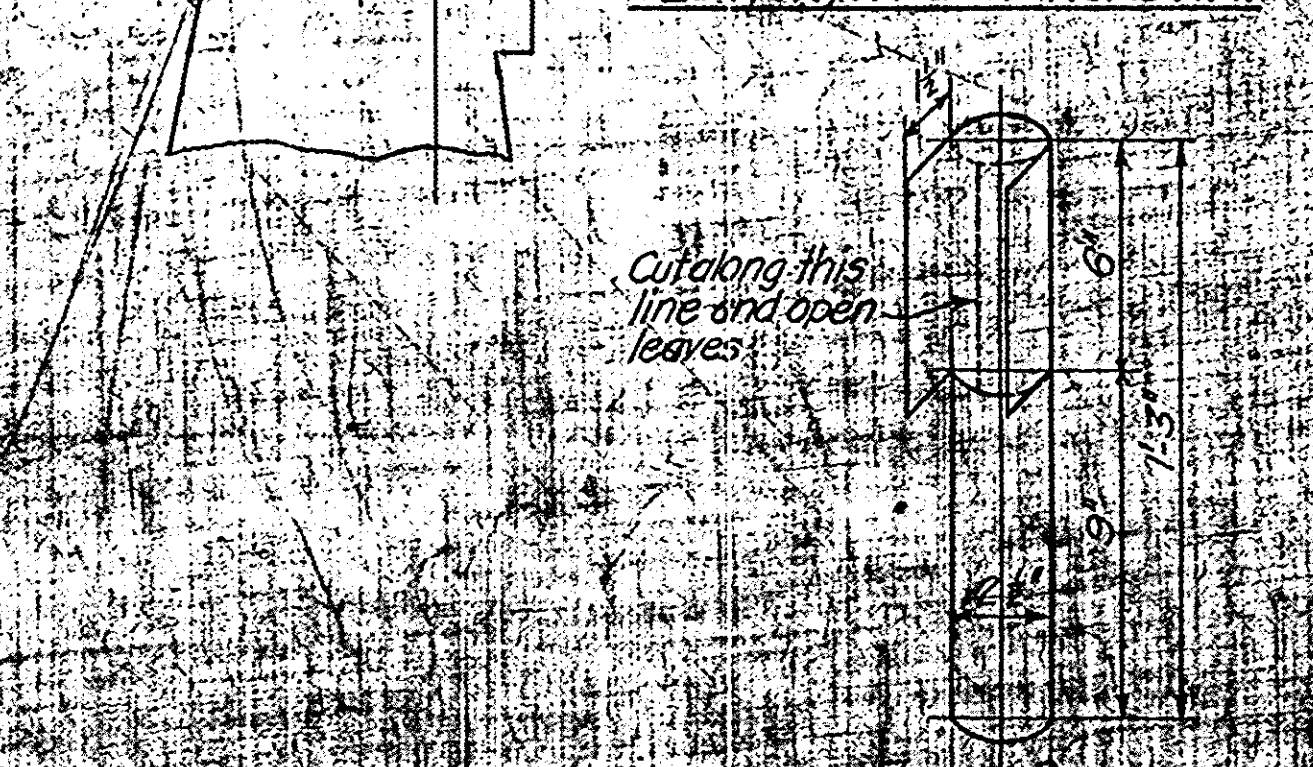
DOCKET: 375003 OCONEE CO.
 ROUTE: 271 April 1955

S.C. STATE HIGHWAY DEPARTMENT

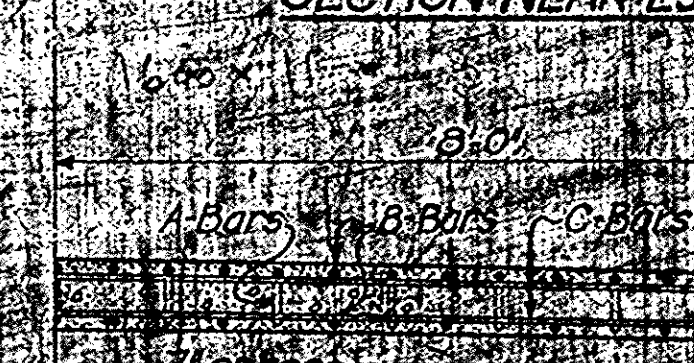
100 FT. LOW TRUSS

SALVAGED FROM SHAW'S CREEK

SECTION ON E OF ROADWAY



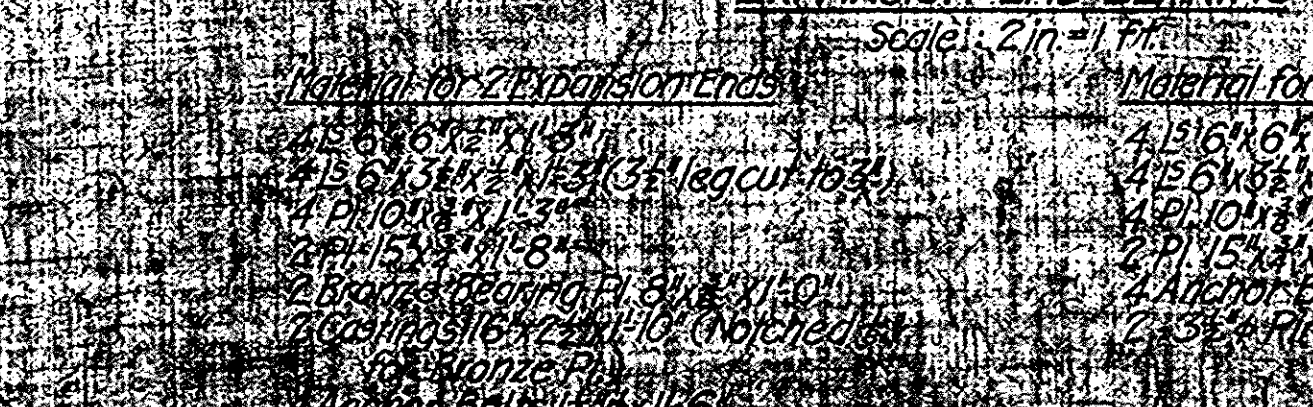
SECTION NEAR L1



CROSS SECTION OF FLOOR SLAB



EXPANSION END BEARING



Notes

Holes for Anchor Bolts to be 2 1/2" x 1 1/2" at Exp. End, and 1 1/2" x 1 1/2" at Fixed End.
 Lower Flange of Channels of Bottom Chord to be notched to clear Anchor Bolts.
 Plane bottom of PL 1/2" x 1/8" at exp. end.

DESIGNED BY: W. G. R. 1921
 DRAWN BY: 1921
 TRACED BY: 1921
 CHECKED BY: 1921