4 30

SUMMARY OF BRIDGE QUANTITIES CODE NO. X032

ITEM NO.	ITEM	UNIT	BENT NO. 1	PIER NO. 1.	PIER NO. 2	BENT NO. 2	SPAN NO. 1	SPAN NO. 2	SPAN NO 3	BRIDGE TOTAL
SP 801-2	DRY EXCAVATION FOR STRUCTURES	CU. YD.	40	16	16	55				127
SP 801-2	WET EXCAVATION FOR STRUCTURES	CU. YD.		89	79					167
SP 8[illegible]	SOLID ROCK EXCAVATION FOR STRUCTURES	CU. YD.		8	16					24
SP # 802	CLASS A CONCRETE FOR BRIDGES	CU. YD.		58.22	56.08					114.30
SP # 802	CLASS S CONCRETE FOR BRIDGES	CU. YD.	10.90			14.43	[illegible].33	53.98	44.46	140.10
SP # 803	REINFORCING STEEL	LB.	1444	4266	4066	1768	2883	9363	10,620	34,410
SP # 807	STRUCTURAL STEEL IN TRUSS SPANS	LB.						5770	2450	8220
SP # 807	STRUCTURAL STEEL IN BEAM SPANS	LB	490			490	840			1820
SP 807-7	STEEL BEARING PILING (12" BP53)	LIN. FT.	161			198				359
909	RIP RAP	CU. YD.	78			68				146
9[illegible]	BRIDGE NAME PLATES (TYPE C)	EACH.	1							1
SP	ERECTION OF STRUCTURAL STEEL FURNISHED BY THE STATE	COMP. ITEM.								100 %

BRIDGE NAME PLATE TITLE - POINT REMOVE CREEK

SUMMARY OF QUANTITIES
BRIDGE OVER POINT REMOVE CREEK
CONWAY COUNTY
ROUTE 124 SEC. 3
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

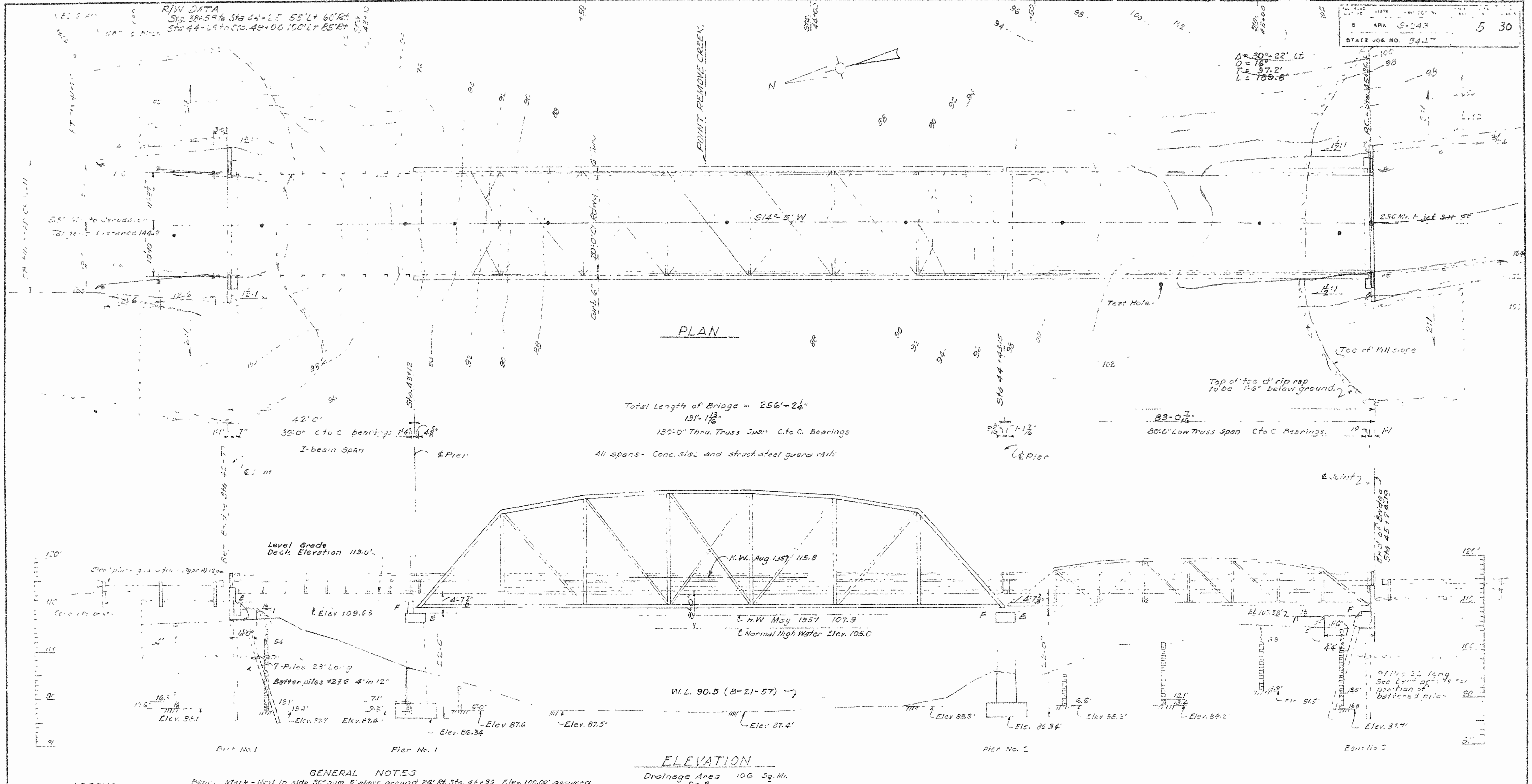
DRAWN BY [illegible] DATE [illegible]
TRACED BY ______ DATE ______ SCALE ______
CHECKED BY J.E.M. DATE 9-30-57

[illegible]
BRIDGE DESIGN ENGINEER

BRIDGE NO. 3139 DRAWING NO. 9476

FED. ROAD DIV. NO.	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
6	ARK.	S-243	5	30

STATE JOB NO. 8413



LEGEND

Fine sandy gravel wet

GENERAL NOTES

Benc. Mark - Nail in side 30" gum 5' above ground 24' Rt. Sta. 44+36 Elev. 100.00' assumed.
For details of substructure see drwgs. Nos. 9478 & 9479
For details of superstructure see drwgs. Nos. 9478 & 9480

All piling shall be 12" BP53 driven to refusal or to a minimum depth of 2 feet into the material designated as shale with a minimum bearing capacity of 36 tons. Order lengths shown. Payment for cut-off or build-up where necessary to be in accordance with SP 807-7
All piling in end bents to be driven after embankment is in place.

Specifications - New Work - Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction adopted March 1, 1940.

Loading: H-15 A.A.S.H.O. (1953)

Stresses:		
Class S Concrete	(n=10)	1,200 #/□"
Class A Concrete	(n=15)	840 #/□"
Reinforcing steel		20,000 #/□"
Structural Steel		18,000 #/□"

NOTE -
The existing detour bridge approximately 50 feet downstream from the proposed new bridge will be maintained and removed by the State.

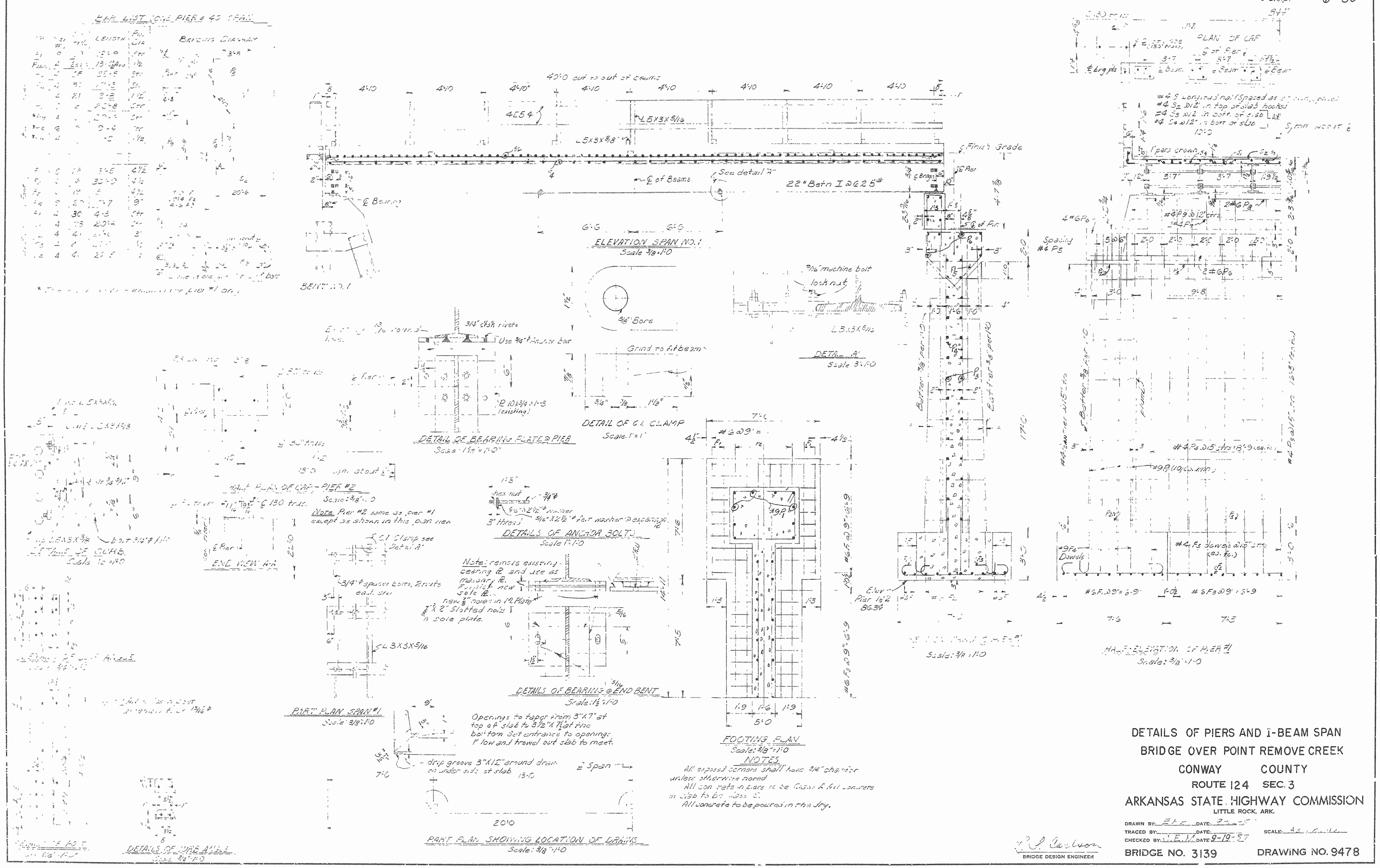
REVISION
Roadway curve location and data changed to agree with sheet No. 3. 10-30-57 W.E.W.

LAYOUT OF BRIDGE OVER POINT REMOVE CREEK
CONWAY COUNTY
ROUTE 124 SEC. 3
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.E.W. DATE: 9-13-57
TRACED BY: DATE:
CHECKED BY: J.E.M. DATE: 9-18-57
SCALE: ONE INCH = TEN FEET

BRIDGE DESIGN ENGINEER

BRIDGE NO. 3139 DRAWING NO. 9477



NOTES

All exposed corners shall have 3/4" chamfer unless otherwise noted.
All concrete in piers to be Class A. All concrete in slab to be Class S.
All concrete to be poured in the dry.

DETAILS OF PIERS AND I-BEAM SPAN
BRIDGE OVER POINT REMOVE CREEK
CONWAY COUNTY
ROUTE 124 SEC. 3
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

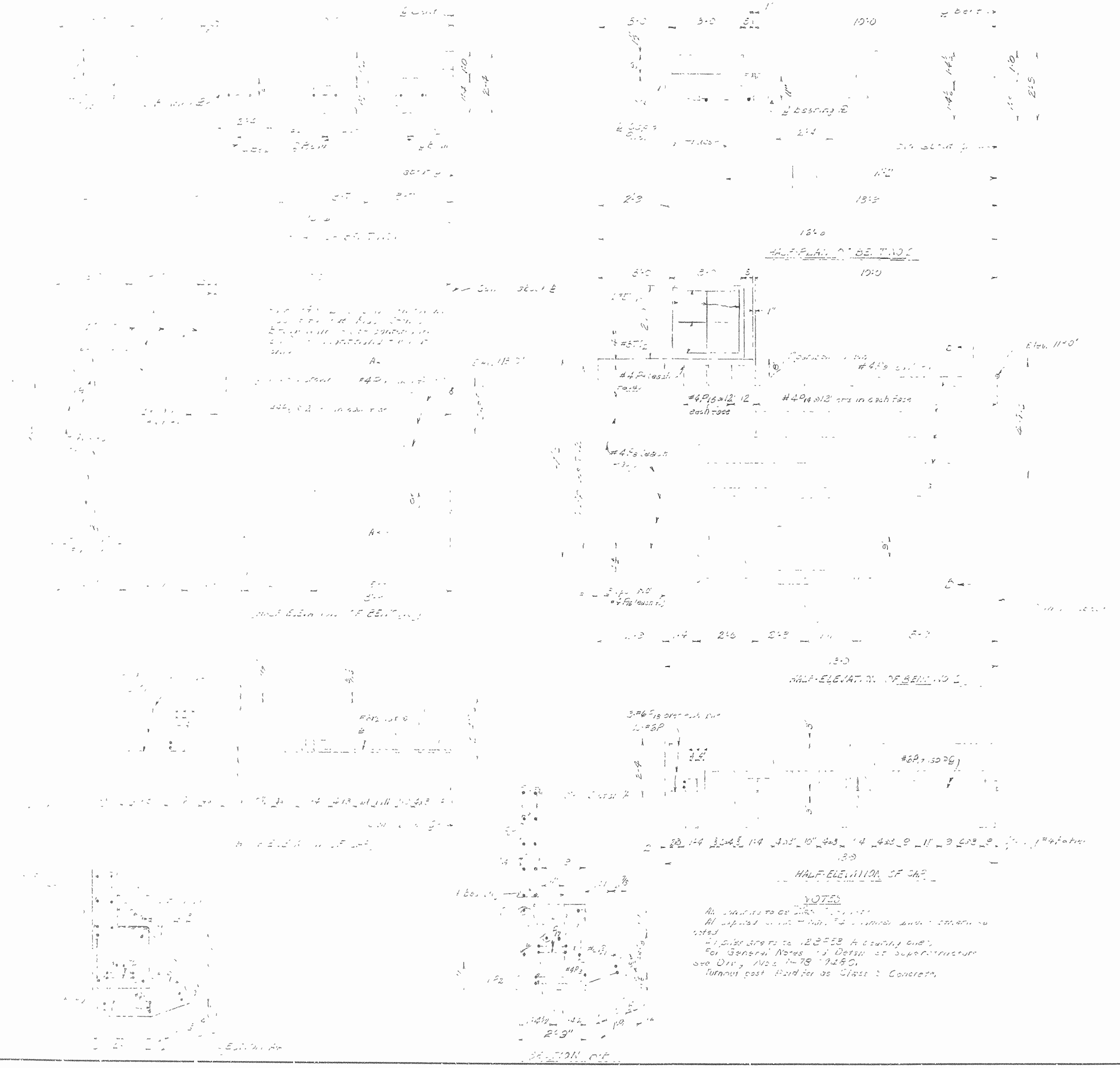
DRAWN BY: DATE:
TRACED BY: DATE:
CHECKED BY: J.E.M. DATE: 9-19-57
SCALE: As Noted

R. L. Carlson
BRIDGE DESIGN ENGINEER

BRIDGE NO. 3139
DRAWING NO. 9478

66

7 30



NOTES

Turnout post paid for as Class [illegible] Concrete.

DETAILS OF END BENTS
BRIDGE OVER POINT REMOVE CREEK
CONWAY COUNTY
ROUTE 124 SEC. 3
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY [illegible] DATE [illegible]
TRACED BY [illegible] DATE [illegible] SCALE
CHECKED BY [illegible] DATE [illegible]

BRIDGE DESIGN ENGINEER

BRIDGE NO. 3139 DRAWING NO. 9479

8 30

DETAILS OF FLOOR SLABS
FOR TRUSS SPANS
BRIDGE OVER POINT REMOVE CREEK
CONWAY COUNTY

ROUTE 124 SEC. 3

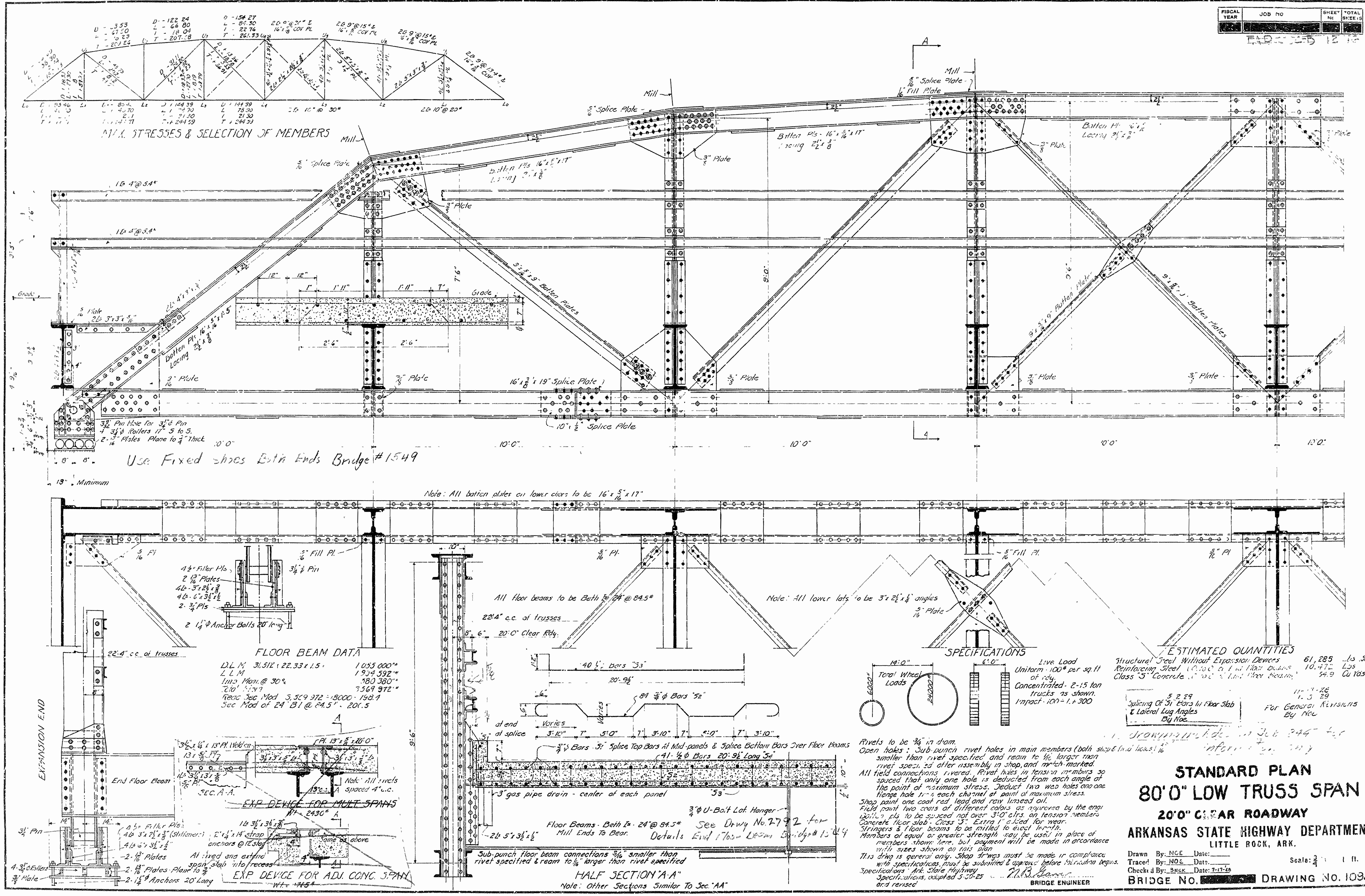
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY _____ DATE 9-24-57
TRACED BY _____ DATE _____ SCALE _____
CHECKED BY J.E.M. DATE 9-24-57

BRIDGE NO. 3139 DRAWING NO. 9480

BRIDGE DESIGN ENGINEER

FISCAL YEAR	JOB NO	SHEET No	TOTAL SHEETS
[redacted]	[redacted]	[redacted]	[redacted]



FLOOR BEAM DATA

D.L.M. 31,512 x 22.33 x 1.5 =	1 055 000"#
L.L.M.	1 934 592"#
Imp. Mom. @ 30%	580 380"#
Total Mom.	3 569 972"#
Req. Sec. Mod. 3,569 972 ÷ 18000 = 198.4	
Sec. Mod of 24" BI @ 84.5# = 200.5	

SPECIFICATIONS

Live Load
Uniform - 100# per sq. ft of rdy.
Concentrated - 2-15 ton trucks as shown.
Impact - 100 ÷ L + 300

Total Wheel Loads 6000# 24000#

Rivets to be ¾" in diam.
Open holes: Sub-punch rivet holes in main members (both shop & field holes) 3/16" smaller than rivet specified and ream to 1/16" larger than rivet specified after assembly in shop, and match-marked.
All field connections riveted. Rivet holes in tension members so spaced that only one hole is deducted from each angle at the point of maximum stress. Deduct two web holes and one flange hole from each channel 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 engr.
Batten pls to be spaced not over 3'0" ctrs. on tension members.
Concrete floor slab - Class "5". Extra 1" added for wear.
Stringers & floor beams to be milled to exact length.
Members of equal or greater strength may be used in place of members shown here, but payment will be made in accordance with sizes shown on this plan.
This drwg is general only. Shop dr'wgs must be made in compliance with specifications, must be submitted & approved before fabrication begins.
Specifications: Ark. State Highway Specifications, adopted 5-30-25 and revised

ESTIMATED QUANTITIES

Structural Steel Without Expansion Devices	61,285	Lbs
Reinforcing Steel	10,472	Lbs
Class "5" Concrete	54.9	Cu Yds

5.2.29 Splicing Of "51" Bars In Floor Slab & Lateral Lug Angles By Noe

11-13-28
1-5-29
For General Revisions By Noe

... drawing ... Job 344 ... for information only

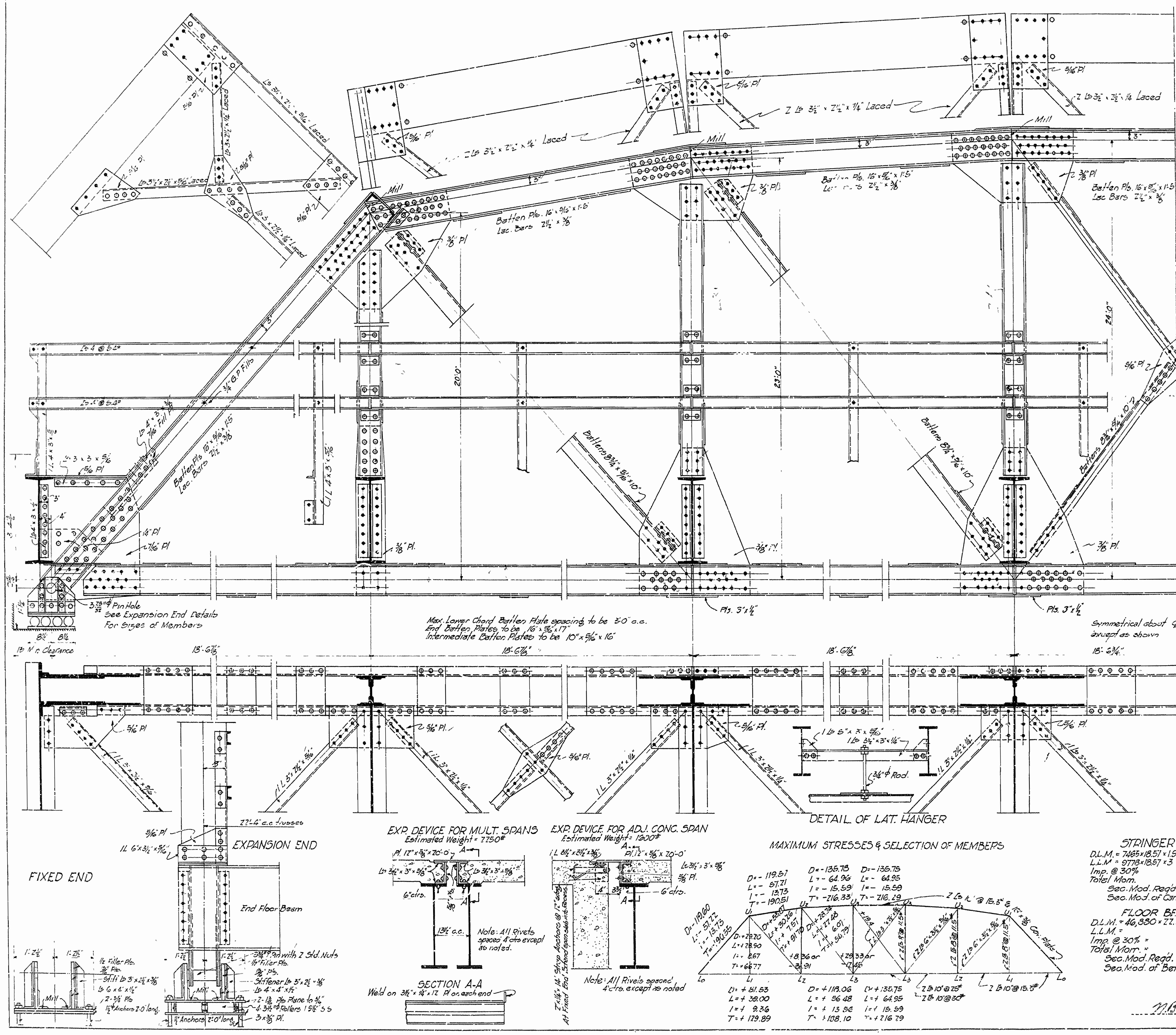
STANDARD PLAN
80'0" LOW TRUSS SPAN
20'0" CLEAR ROADWAY
ARKANSAS STATE HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.

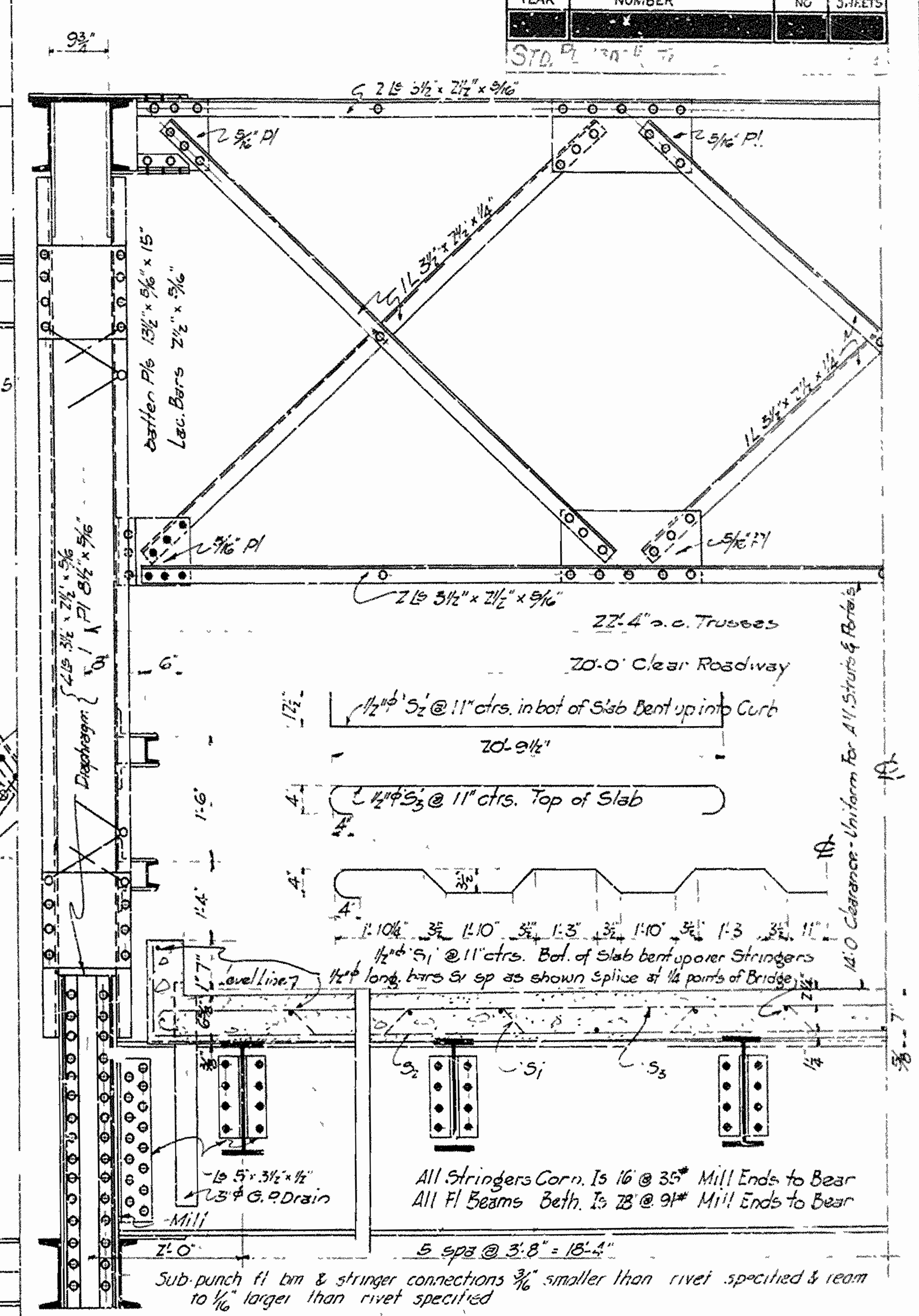
Drawn By: NOE Date:
Traced By: NOE Date:
Checked By: BECK Date: 7-17-28
Scale: ¾" = 1 ft.

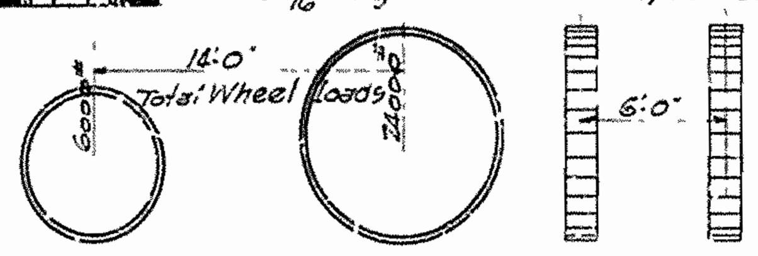
N. B. Garver
BRIDGE ENGINEER

BRIDGE NO. [redacted] DRAWING NO. 1093

FISCAL YEAR	JOB NUMBER	SHEET NO.	TOTAL SHEETS
[redacted]			







SPECIFICATIONS

Live Load

Uniform Load - 75.2 lbs per sq ft of rdy

Concentrated - 2 15 ton trucks as shown

Impact = 100 - L+300

Unit Stresses

Concrete (Class "S") 810 #/□"

Structural & Reinforcing Steel - 18000 #/□"

Rivets to be ¾" in diameter.

Rivet Holes: Sub punch both shop & field holes in main truss connections 3/16" smaller than rivet specified & ream to 1/16" larger than rivet specified during shop assembly.

Members shall be match marked and a suitable diagram furnished for erection.

All field connections to be riveted.

Rivet holes in tension members so spaced that only one hole is deducted from each angle at point of max stress. Deduct 2 web holes & 1 flange hole from each channel.

Shop paint: 1 coat red lead and raw linseed oil.

Field paint: 2 coats of different colors as approved by the engineer.

Batten plates shall be spaced not over 3-0" ctrs. on tension members.

Concrete Floor Slab to be Class 'S' concrete. Extra 1" is added for wear.

Stringers & Floor Beams to be milled exact length.

Members of equal or greater strength may be used in place of members shown here but payment will be made in accordance with sizes shown.

This drawing is general only. Shop drawings must be made in accordance with Specifications, must be submitted and approved before fabrication is begun.

Specifications: Ark State Hwy. Dept. Specifications adopted May 30th, 1925 and revised.

STRINGER DATA

D.L.M. = 7465 x 18.57 x 1.5 = 207,938 "#

L.L.M. = 9778 x 18.57 x 3 = 544,732 "#

Imp. @ 30% = 163,420 "#

Total Mom. = 916,090 "#

Sec. Mod. Req'd = 916,090 ÷ 18000 = 50.89

Sec. Mod. of Carn. Is 16" @ 35# = 54.68

FLOOR BEAM DATA

D.L.M. = 46,880 x 22.33 x 1.5 = 1,570,246 "#

L.L.M. = 2,054,436 "#

Imp. @ 30% = 616,331 "#

Total Mom. = 4,241,013 "#

Sec. Mod. Req'd. = 4,241,013 ÷ 18000 = 235.61

Sec. Mod. of Beth. Is 28" @ 91# = 246.85

ESTIMATED QUANTITIES

Struct. Steel (Not Including Exp. Devices) =	123,350 lbs
Reinforcing Steel =	8,230 lbs
Class "S" Concrete (Edge to Edge End Floor Beams) =	62.93 Cu. Yds

N.B. Garver

BRIDGE ENGINEER

STANDARD PLAN

130'-0" HIGH TRUSS SPAN

20'-0" CLEAR RDY.

ARKANSAS STATE HIGHWAY DEPARTMENT

LITTLE ROCK, ARK.

Drawn By: Noe Date: 4-25-29

Traced By: Noe Date: 5-3-29

Checked By: Dunn Date: 5-23-29

Scale: ¾ in. = 1 ft.

BRIDGE No. [redacted] **DRAWING No 1084**