

FED. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	E271F	1933	1	13

INDEX OF SHEETS

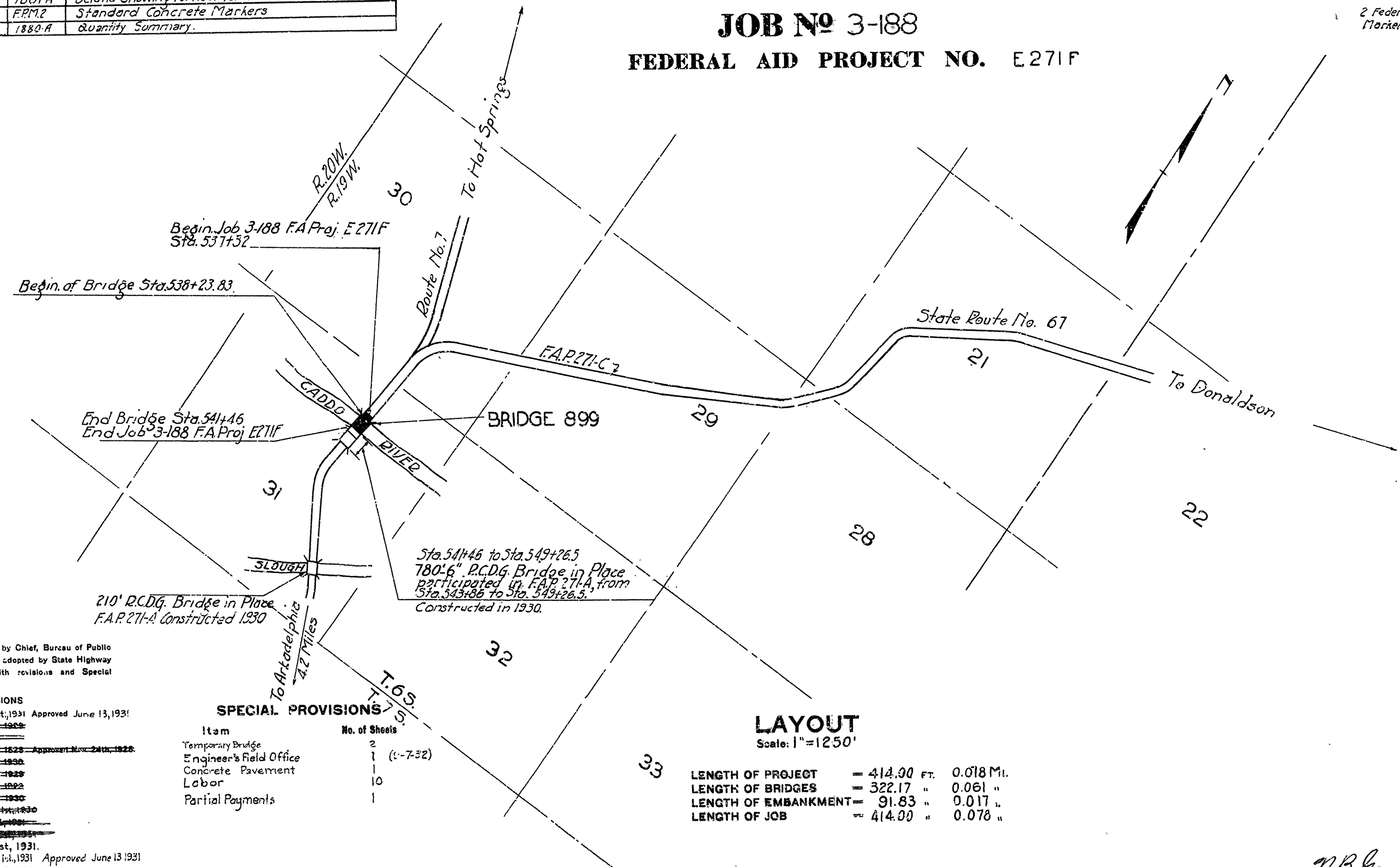
Sheet	Dr. No.	Title Sheet
1	1879	Title Sheet
2	1880	Layout of Bridge No. 899
3	1881	Details of Abut. No. 1 Bridge No. 899
4	1882	Details of Piers Bridge No. 899
5	2272	Details of 30' R.C.D.G. Span 20' Roadway
6	3336	200 Ft. Steel Truss - 20' Roadway
7	3337	200 Ft. Steel Truss Details
8	1883	Plan for Temporary Bridge
9	F51	Typical Embankment Cross Sections
10	CP12	Typical Section Concrete Pavement
11	CD7A	Structural Approach Slab
12	CP1	Detail Sheet Concrete Pavement
13A	1881A	Details Showing Turnout for Memorial Marker
13	FBM2	Standard Concrete Markers
14	1880-A	Quantity Summary

STATE OF ARKANSAS
STATE HIGHWAY COMMISSION
PLAN OF PROPOSED BRIDGES
OVER
CADDO RIVER
CLARK COUNTY
ROUTE 67 SEC. 6
JOB NO 3-188
FEDERAL AID PROJECT NO. E271F

QUANTITIES

Item No.	Description	Quantity	Unit
12	Common Excavation	127	Cu Yds.
13	Dry Excavation for Structures	176.8	Cu Yds.
13	Wet Excavation for Structures	1159.2	Cu Yds.
91	Seal Concrete for Bridges	187.0	Cu Yds.
91	Class "A" Concrete for Bridges	462.53	Cu Yds.
91	Class "S" Concrete for Bridges	221.2	Cu Yds.
92	Reinforcing Steel for Bridges	9148.2	Lbs.
96	Structural Steel	287,000	Lbs.
98	Untreated Timber Piling	3604	Lin. Ft.
94	Concrete Piling for Bridges	215	Lin. Ft.
5R	Concrete Pavement (SP for Job 3-188)	214.7	Sq. Yds.
95	Rip Rap	46.0	Cu Yds.
SR	Construction of Temporary Bridge	1	Only

2 Federal Aid Project markers to be placed by the contractor Bronze Marker Plates to be furnished by the State.



Specifications approved by Chief, Bureau of Public Roads, September 28, 1925, and adopted by State Highway Commission May 30, 1925 with revisions and Special Provisions as follows:

REVISIONS

Pamphlet A Revised March 1st, 1931 Approved June 13, 1931

B Revised Nov. 1st, 1929

C Revised July 1st, 1928 Approved Nov. 24th, 1928

D Revised Jan. 1st, 1930

E Revised Aug. 1st, 1929

F Revised June 1st, 1929

G Revised Jan. 1st, 1930

H Revised Jan. 1st, 1930

I Revised Nov. 1st, 1931

M Revised March 1st, 1931 Approved June 13, 1931

N Revised Sept. 1st, 1932

O Revised Sept. 1st, 1932

P Revised Sept. 1st, 1932

Item	No. of Sheets
Temporary Bridge	2
Engineer's Field Office	1 (1-7-32)
Concrete Pavement	10
Labor	1
Partial Payments	1

LAYOUT
Scale: 1"=1250'

LENGTH OF PROJECT	= 414.90	FT.	0.018	MI.
LENGTH OF BRIDGES	= 322.17	"	0.061	"
LENGTH OF EMBANKMENT	= 91.83	"	0.017	"
LENGTH OF JOB	= 414.00	"	0.078	"

APPROVED

CHIEF ENGINEER - U. S. BUREAU OF PUBLIC ROADS

APPROVED

DISTRICT ENGINEER - U. S. BUREAU OF PUBLIC ROADS

APPROVED

CHIEF - S. BUREAU OF PUBLIC ROADS

APPROVED

CHIEFMAN STATE HIGHWAY COMMISSION

APPROVED

STATE HIGHWAY ENGINEER

N.B. Lerner
BRIDGE ENGINEER

BRIDGES No. 89

DRAWING No. 1879

FISCAL YEAR		SHEET No	TOTAL SHEET

RIGHT OF WAY				
Sta.	Stgy.	Width Rt. E	Width Lr. E	Total Width
535	545	40'	40'	80'

Rid-rap shall be laid to form a gutter as indicated here. The gutter shall conform to section shown immediately to right and shall be placed on both sides of roadway dump (as staked by the Engineer) for conducting water from the curb lines to the bottom of the slope. The gutter shall be well grooved with 1" 2 cement mortar. Full payment for these gutters will be included in price bid for RID RAP.

Move Present Bridge downstream and maintain traffic during construction
 1. See Drawing No. 1883

GENERAL NOTES

All exposed corners on concrete to be chamfered $\frac{3}{4}$ " unless otherwise noted. All superstructure concrete, except rails, to be class "S". All substructure concrete to be class "A" except seal concrete. All class "A" conc. to be placed in dry. Reinforcing steel to be deformed bars of structural or intermediate grade. Shop lists and bending diagrams must be submitted by the Contractor before fabrication is begun. All dimensions given on these plans for reinforcing steel are from the face of bar. The shoes for steel span are to be finally seated on mat or pad composed of six layers of burlap soaked with red lead paint. Foundation piling shall have minimum computed bearing capacity of 15 tons per pile, and a minimum penetration of 14 ft. below bottom of seal. In case refusal is reached before desired penetration is attained, the driving shall be facilitated by the use of a water jet, and continued until the 14 ft. minimum penetration is reached. It is desired that the North abutment and backfill for same be placed as soon as practicable after beginning the job in order that fill may settle before paving slab is placed. The fill material shall be jetted and otherwise compacted while being placed to obtain a maximum of stability. The approach dump shall also be brought to standard section early after the job is begun so the material will be well settled before paving. The subgrade shall be thoroughly compacted by hand tamping but no rolling will be required.

QUANTITIES

Item No. 12	Common Excavation	127 Cu. Yds.
" " 13	Dry Excavation for Struct.	776.8 Cu.Yds.
" " 13	Wet Excavation for Struct.	1152.2 Cu.Yds.
" " 91	Seal Concrete for Bridges	187.0 Cu.Yds.
" " 91	Class "A" Concrete for Bridges	462.53 Cu.Yds.
" " 91	Class "S" Concrete for Bridges	221.2 Cu.Yds.
" " 92	Reinforcing Steel for Bridges	31,492 Lbs.
" " 96	Structural Steel	237,000 Lbs.
" " 96	Untreated Timber Piling	3604 Lin.Ft.
" " 34	Concrete Railing for Bridges	275.0 Lin.Ft.
" " 47	Concrete Pavement (S.P. Job 3188)	214.7 Sq. Yds.
" " 95	Rip & Rep.	40.0 Cu.Yds.

P.C.D.G. CONSTRUCTION 20'-0" ROADWAY 780'-6" IN PLACE

30' of handrail included in summary
for replacing gap to be opened here
for temporary connection.

LAYOUT
FOR CADDO RIVER BRIDGE
CLARK COUNTY
STA. 583+23 TO STA. 541+46

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: _____ Date: _____
Traced By: Rich Date: 8-30-37
Checked By: _____ Date: _____
BRIDGE NO. 899

Scale: 1 in. = 20' _____
DRAWING NO. 1880

DRAWING NO. 1880

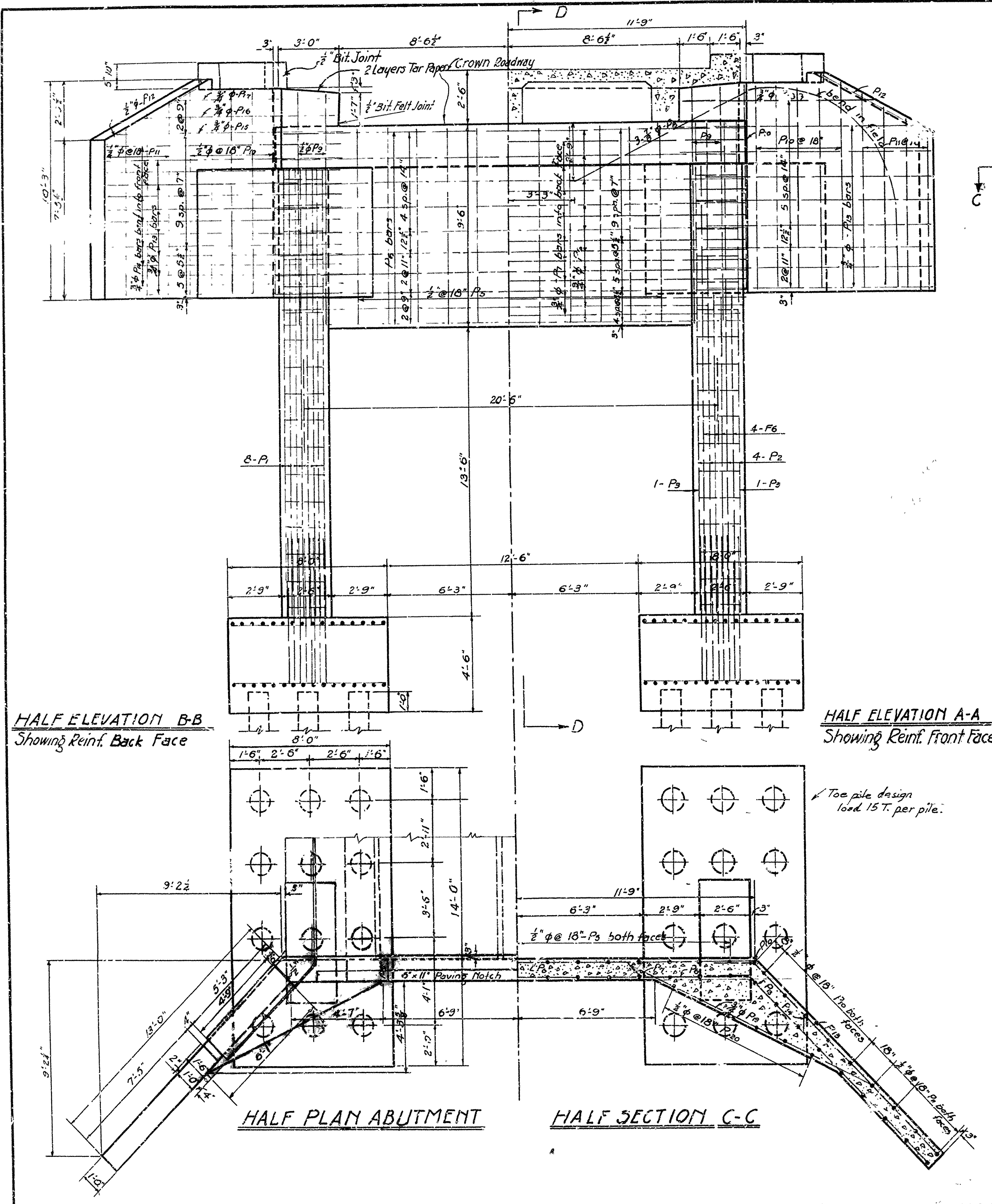
W.B. Garner
BRIDGE ENGINEER

FISCAL YEAR		SHEET No	TOTAL SHEETS		
1933	Job- 3188	24	13		
FED. ROAD DIST No.	STATE	FED AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	E271F	1933	24	13.

F.A.P E-271F				SUMMARY OF QUANTITIES										JOB # 3188			
STRUCTURAL		BID	LUMP	COMMON	DRY EXC	WET EXC.	SEAL	CLASS A	CLASS B	REINFORCING	STRUCT.	UNTR.	CONC.	CONC	RIP-		
ITEMS		SUM	EXC.	FOR STRUCT.	FOR STRUCT.	FOR BRIDGES	FOR BRIDGES	FOR BRIDGES	FOR BRIDGES	FOR BRIDGES	STEEL	STEEL	T.M. PILING	FOR BRIDGES	PAVEMENT	RAP	
UNITS		UNIT	ONLY	CU.YD	CU.YD	CU.YD.	CU.YD	CU.YD	CU.YD	CU.YD	LB.	LB.	LIN. FT	L. FT.	SQ.YD	CU.YD	
TEMPORARY BRIDGE		1															
EARTH APPROACH		127										1156		2147 40.			
ABUT NO. 1		351.8				692		72.0		11731		432					
PIER NO. 1		119.7				64.7		47.8		4696		270					
" " 2		122.3				488.9		935		147.4		10637		1316			
" " 3		734				476.7		935		147.4		10637		1316			
" " 4		1096				597		475		4696		270					
NORTH CONC. APR												63.0 14947		1206			
SOUTH " "												60.9 14947		1244			
STEEL SPAN												97.3 18030		287,000			
F.A. MARKER												0.13		15			
REPLACE CONC. RAIL														30.0			
TOTALS		1.	127.	776.8	1159.2	1870	462.53	2212	91492	287,000.		3604.	275.	2147	400		

ROUTE 67 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: ELG Date: 10-22-32 Scale: 1 in. = 10 ft.
Traced By: _____ Date: _____
Checked By: _____ Date: _____
BRIDGE NO. 899- DRAWING NO. 1880A

A.B. Green
BRIDGE ENGINEER

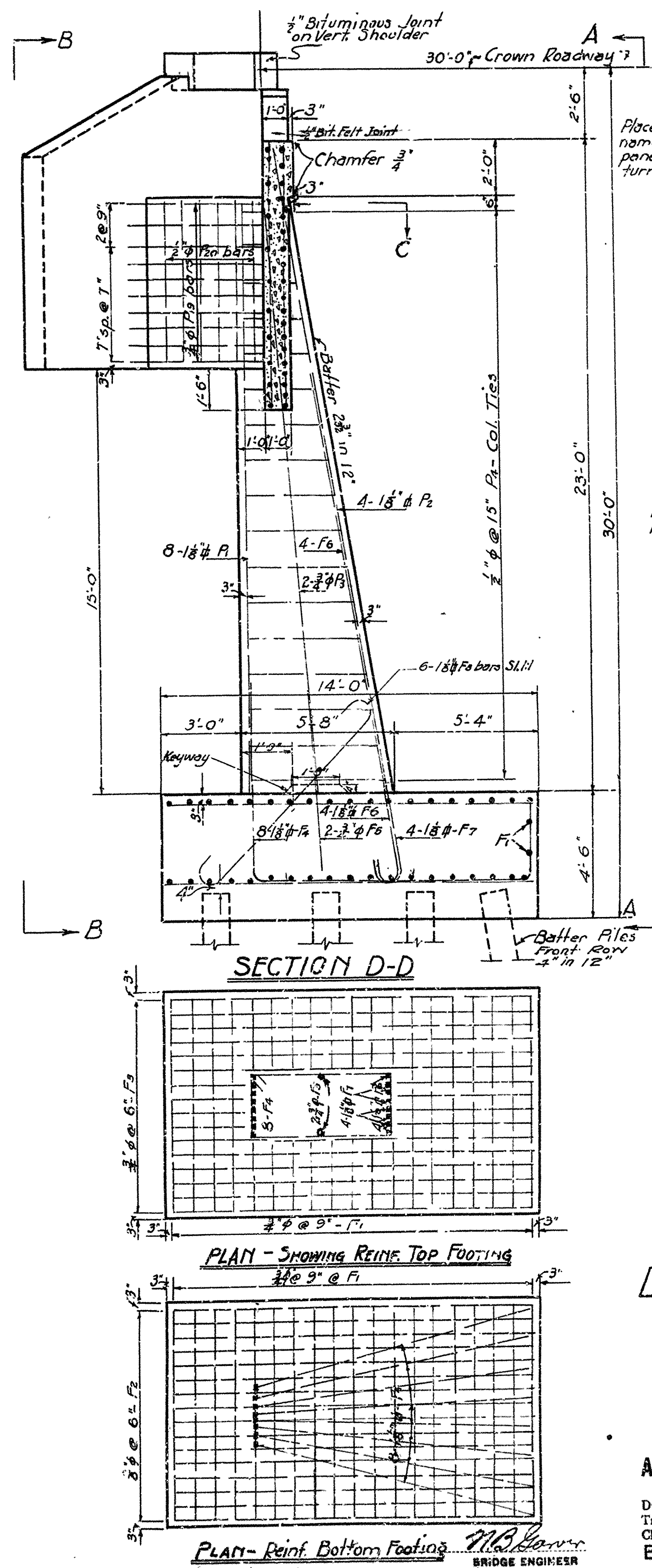


HALF ELEVATION B-B
Showing Reinf. Back Face

HALF ELEVATION A-A
Showing Reinf. Front Face

HALF PLAN ABUTMENT

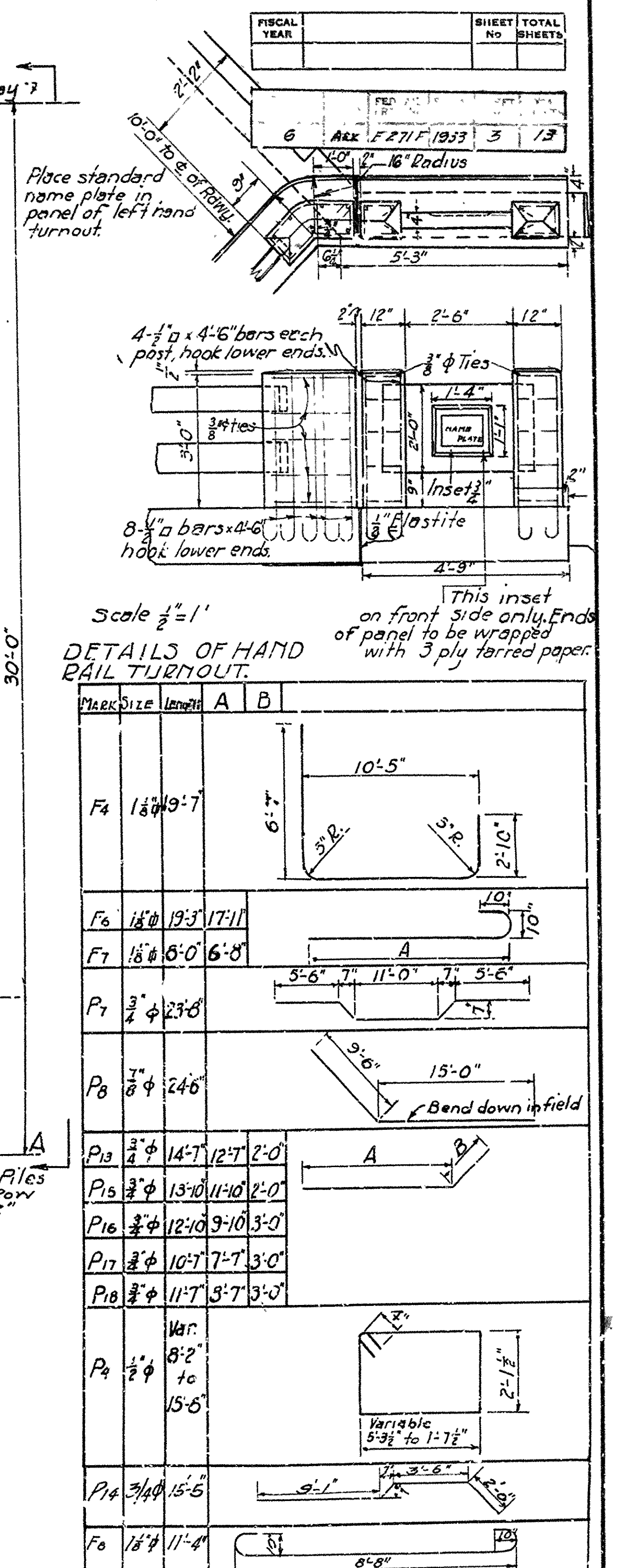
HALF SECTION C-C



SECTION D-D

PLAN - SHOWING REINF. TOP FOOTING
30' 9" @ Fl

PLAN - Reinf. Bottom Footing *M.B. Garver*
BRIDGE ENGINEER

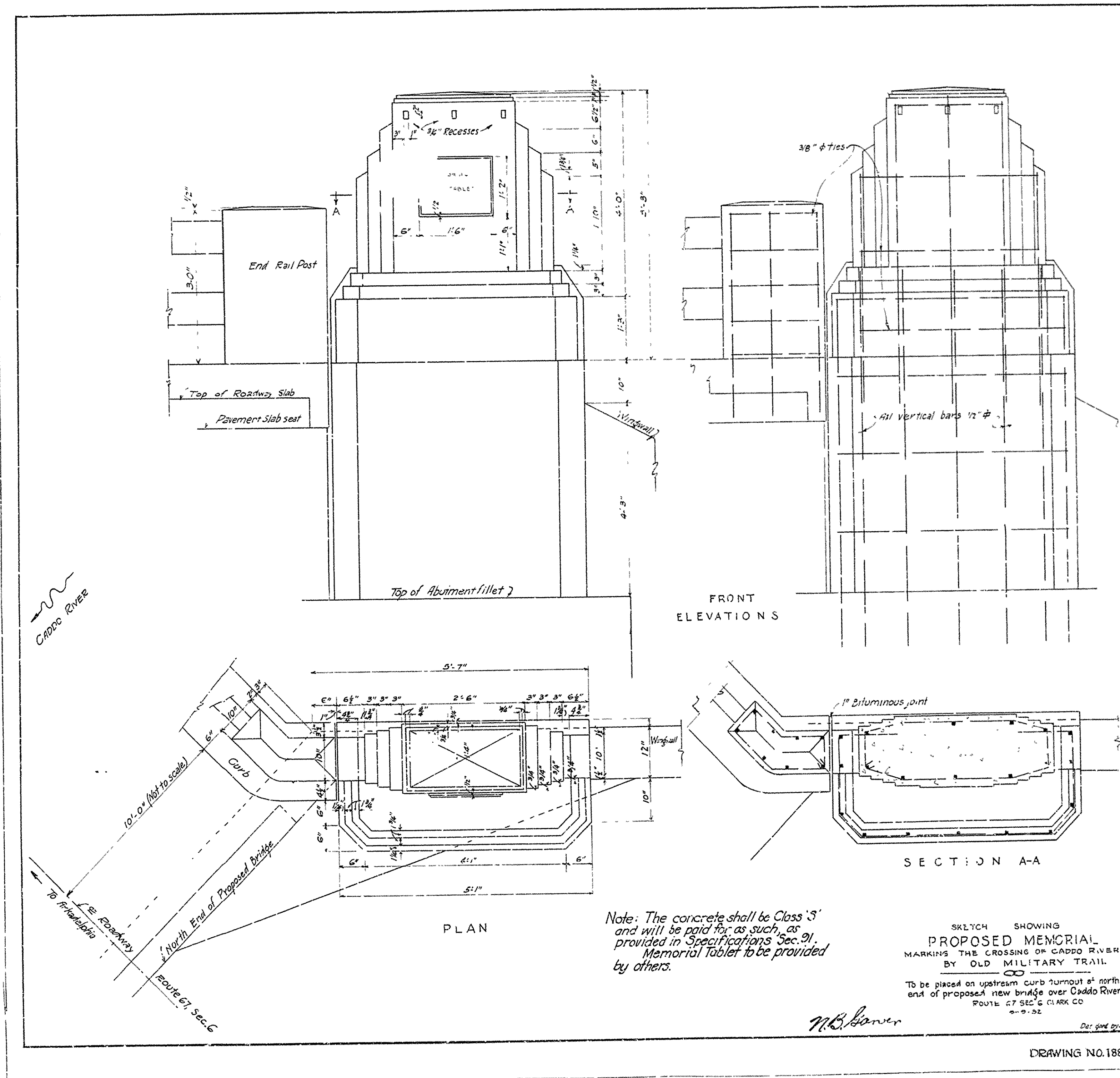


DETAILS ABUTMENT NO. 1
CADDO RIVER BRIDGE
CLARK COUNTY

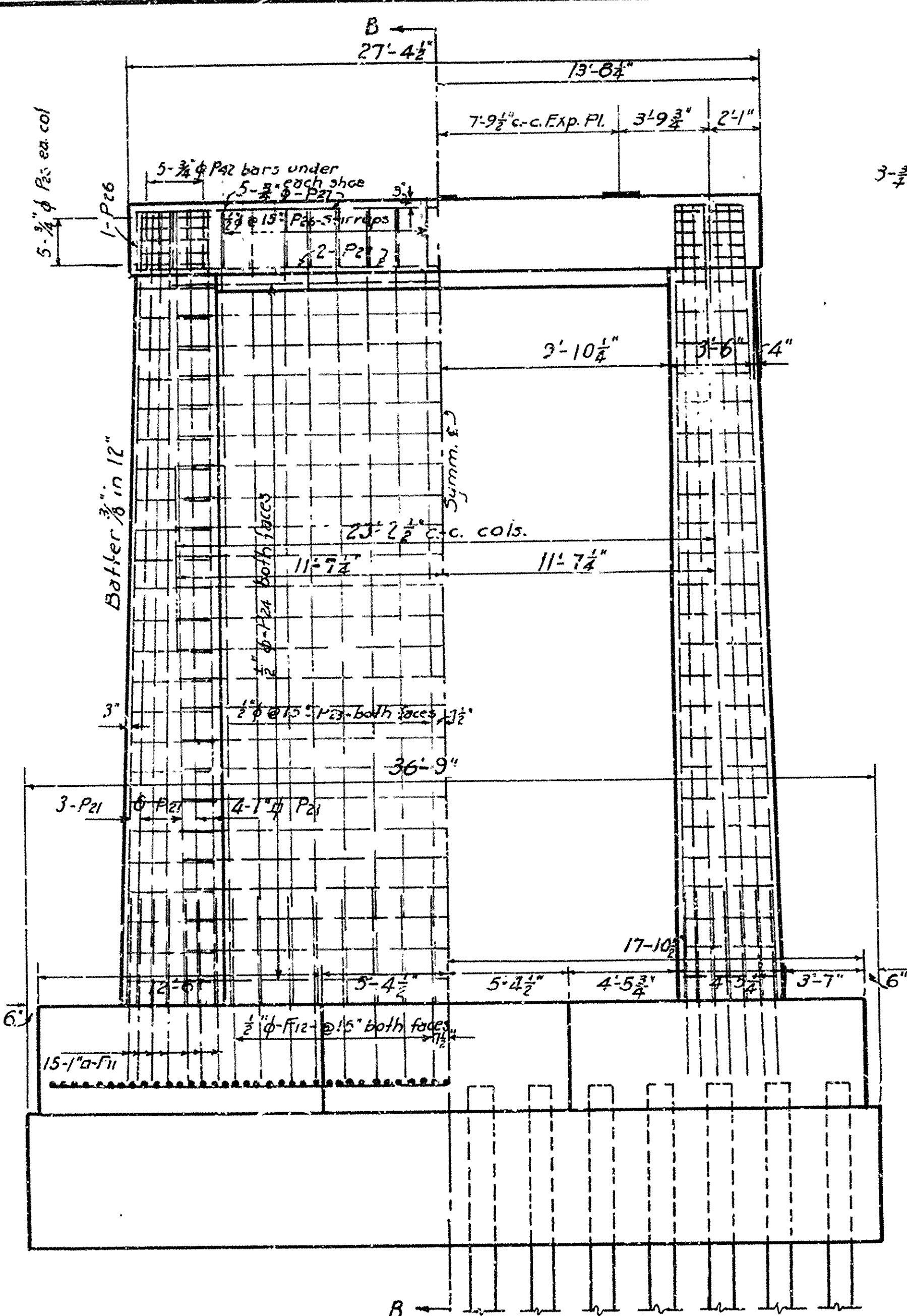
ROUTE 67 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: _____ Date: _____
Traced By: Nichols Date: 8-23-32
Checked By: _____ Date: _____
BRIDGE NO. 899
Scale: $\frac{3}{8}$ in. = 1 ft.
DRAWING NO. 1881

293

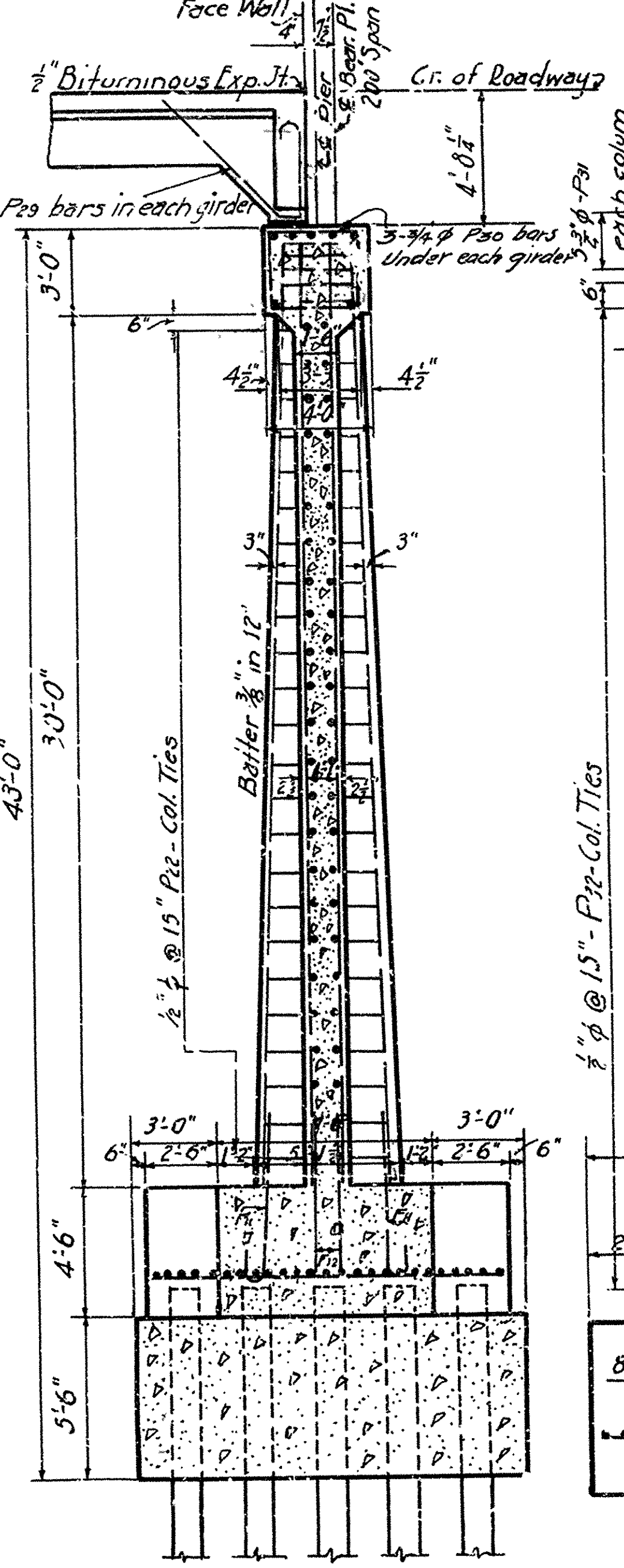
Attach to Sheet No. 3



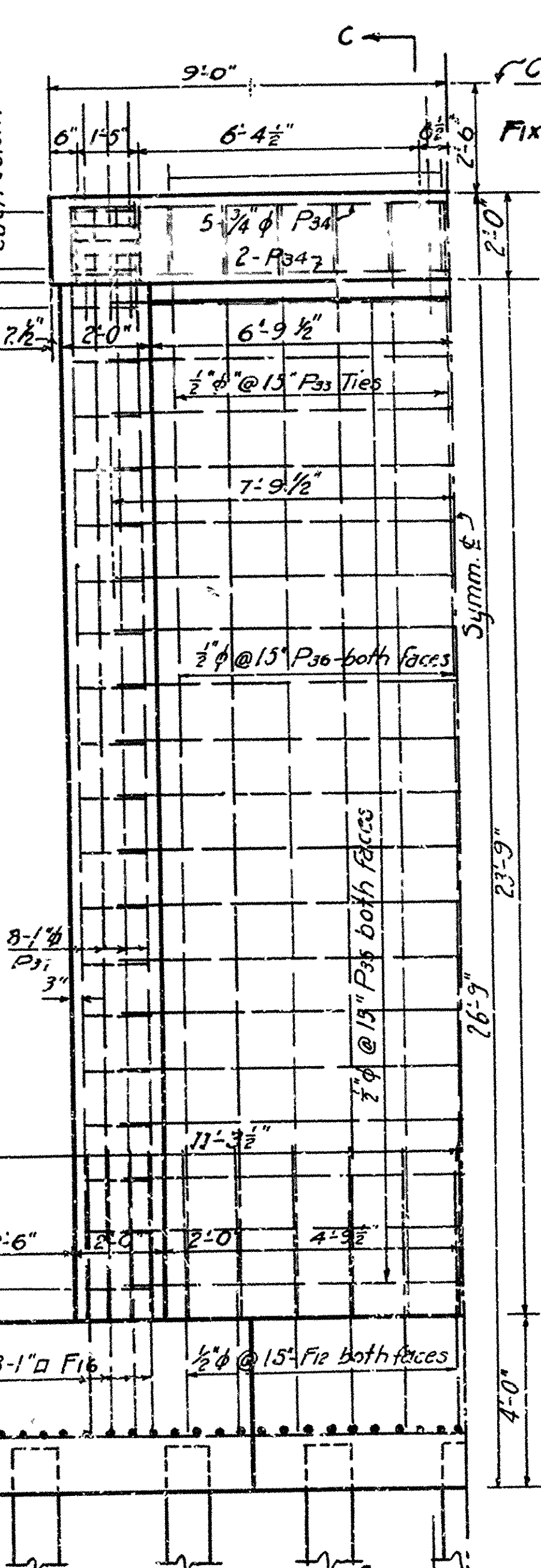
FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1933	6	13



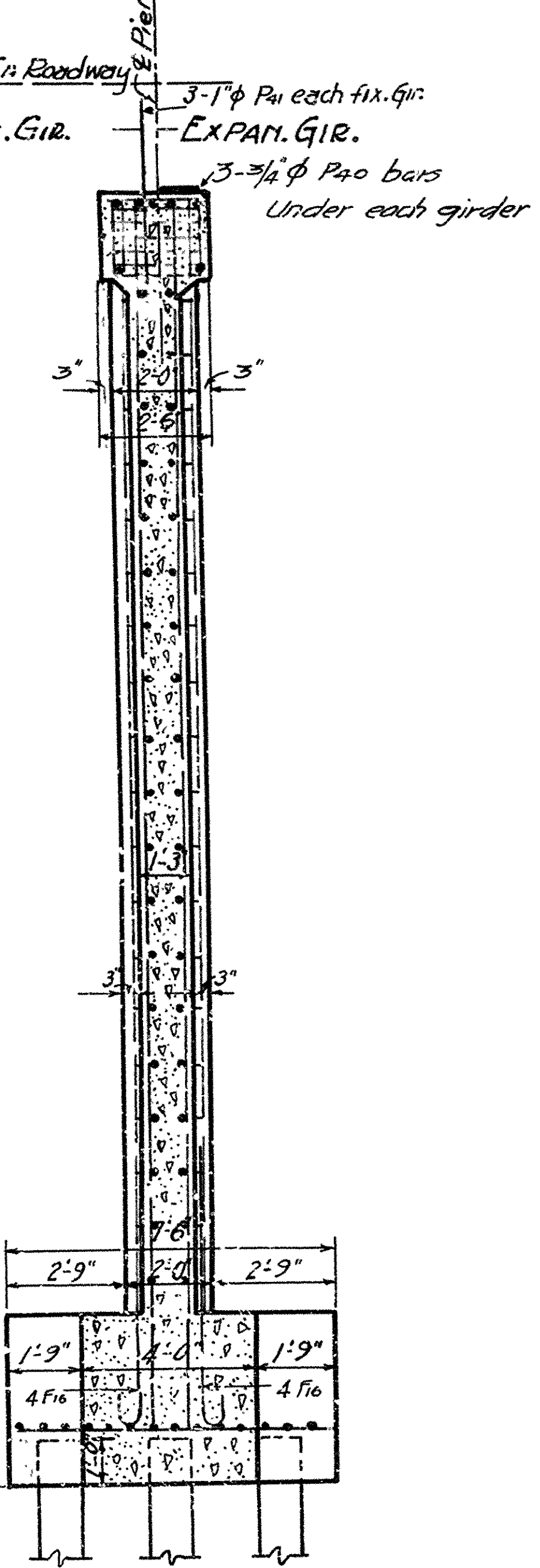
HALF ELEV. A-A
Showing Reinf. Steel



SECTION B-B

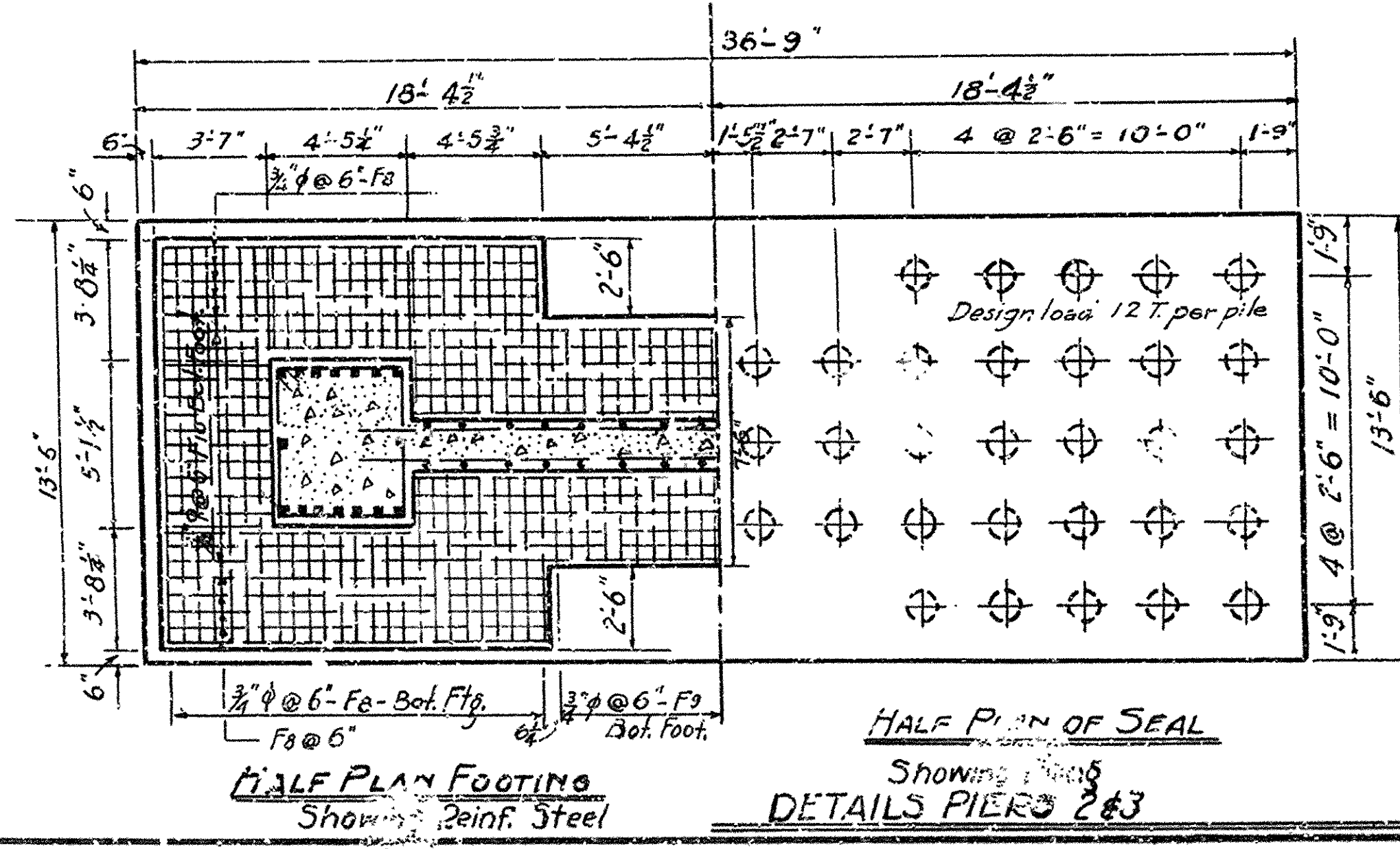


HALF ELEV. PIERS 1 & 4

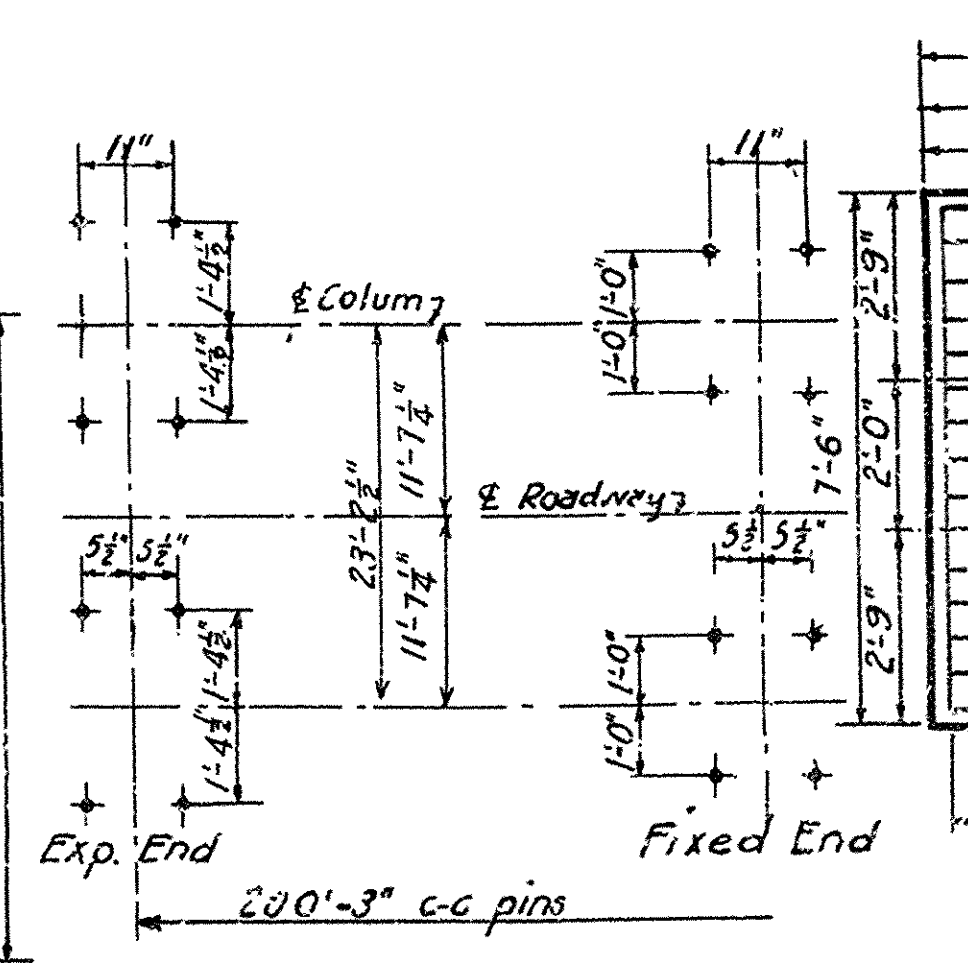


SEC. C-C

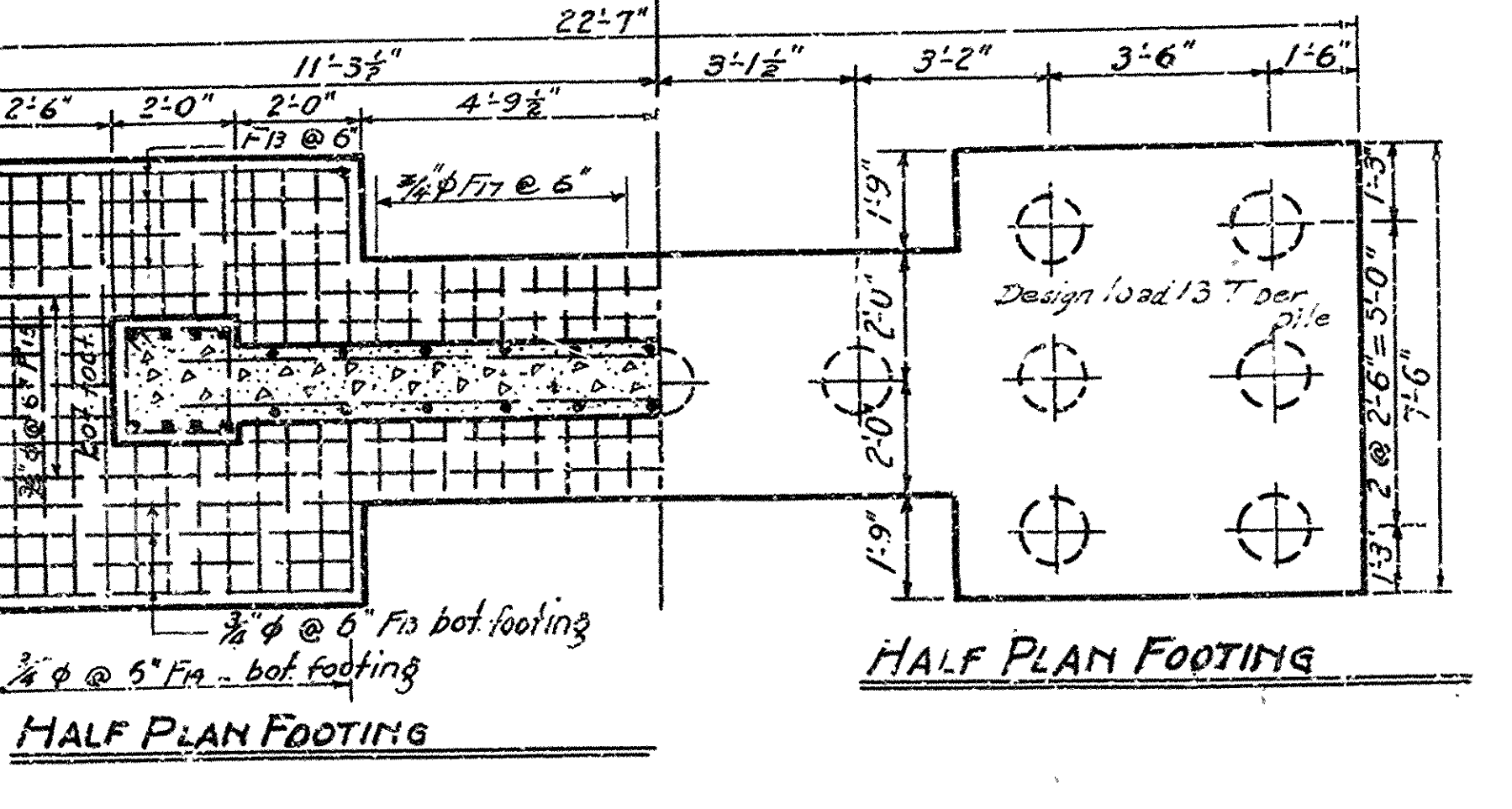
MARK	SIZE	LENGTH	A	B	Bending Diagram
P22	1/2" φ	12'-3"	2'-11"	5'-1 1/2"	
P25	3/4" φ	13'-5"	2'-10 1/2"	3'-5 1/2"	
P26	1/2" φ	13'-2"	2'-7 1/2"	3'-7 1/2"	
P31	3/4" φ	7'-2"	1'-7 1/2"	1'-7 1/2"	
P32	1/2" φ	7'-2"	1'-7 1/2"	1'-7 1/2"	
P33	1/2" φ	8'-2"	1'-7 1/2"	2'-1 1/2"	
P42	3/4" φ	8'-3"	2'-6"	3'-7 3/4"	
P23	3/4" φ	10'-6"			
P40	3/4" φ	8'-2"	1'-7 1/2"	2'-1 1/2"	
P30	3/4" φ	13'-2"	2'-7 1/2"	3'-7 1/2"	
F11	1" φ	7'-11"	6'-11"		
F16	1" φ	7'-0"	6'-0"		



HALF PLAN OF PIER 2
Showing Reinf. Steel



ANCHOR BOLT PLAN
For Piers 2 & 3



HALF PLAN FOOTING

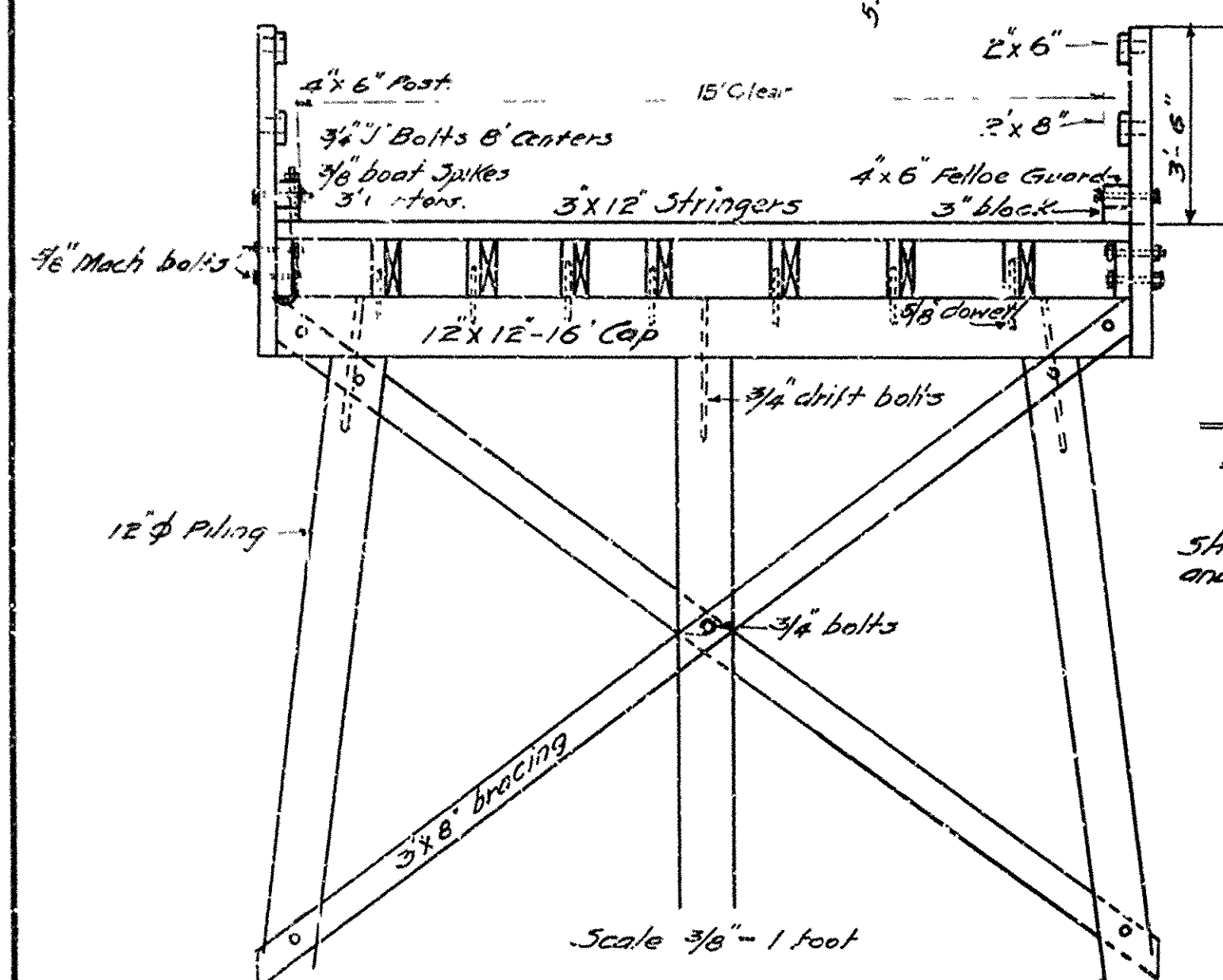
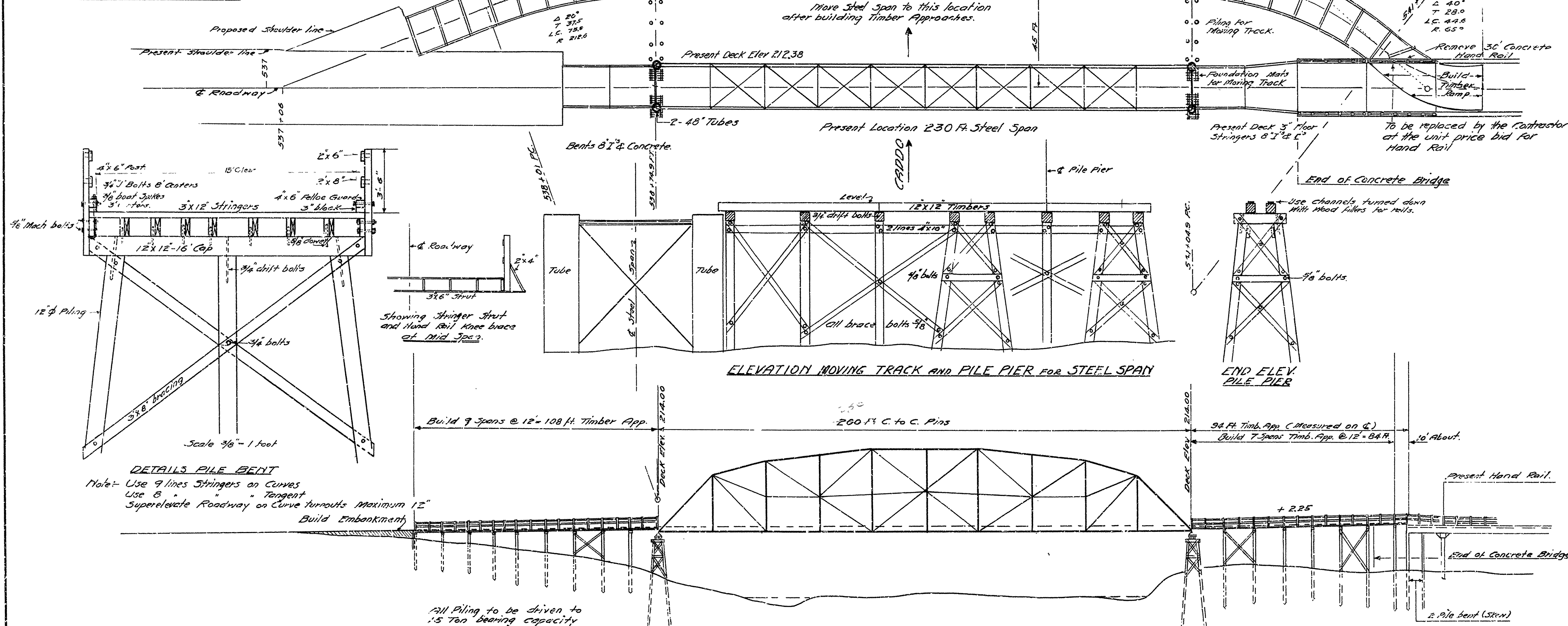
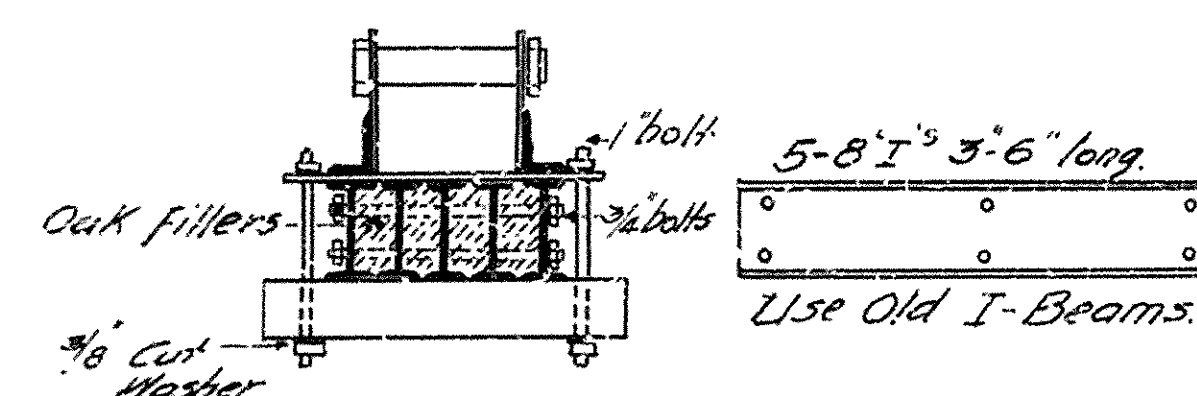
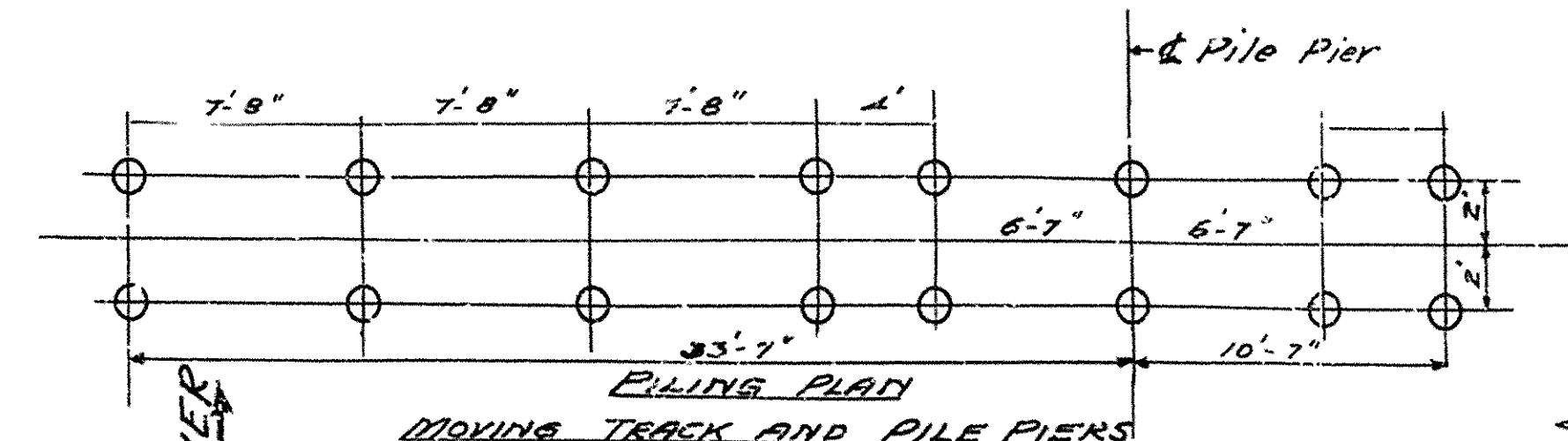
DETAILS OF PIERS 1,2,3, & 4 BRIDGE OVER CADDO RIVER CLARK COUNTY

ROUTE 67 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: W.A.P. Date: 8-22-32
Traced By: H.C. Date: 8-26-32
Checked By: _____ Date: _____
BRIDGE NO. 899 DRAWING NO. 1882

M.B. Lewis
BRIDGE ENGINEER

FISCAL YEAR		SHEET No	TOTAL SHEETS

6 ARK. E 271 F 1933 8



DETAILS PILE BENT
Note:- Use 9 lines Stringers on Curves
Use 8 " " " Tangent
Superelevate Roadway on Curve.

All Piling to be driven to
15 Ton bearing capacity

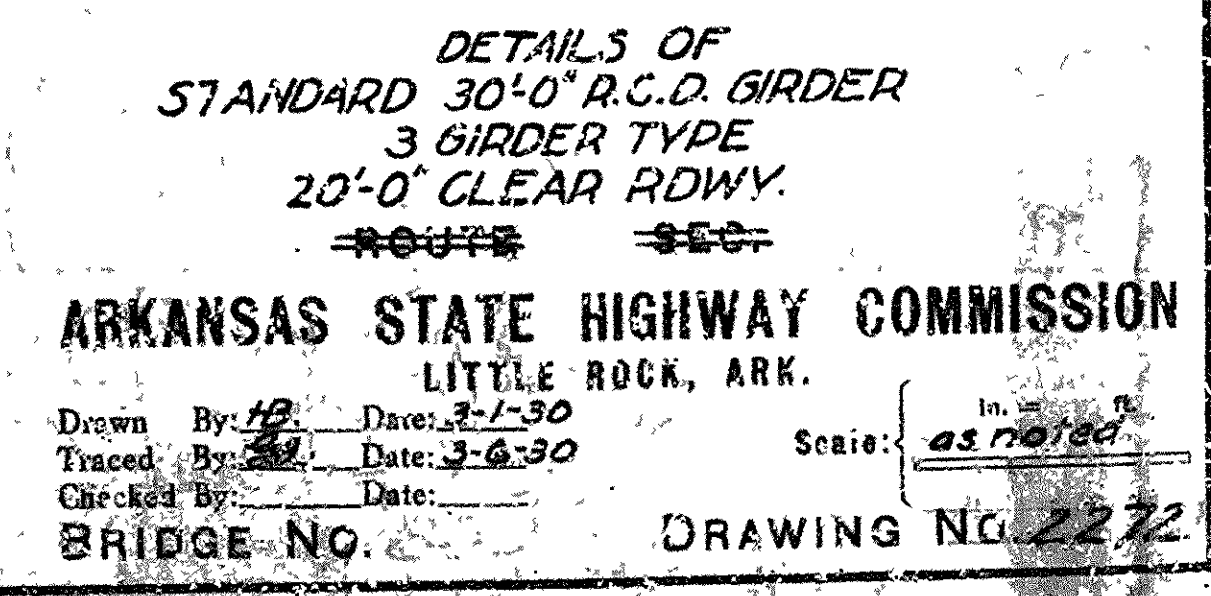
$B^{\#1} B^{\#2} B^{\#3} B^{\#4} B^{\#5} B^{\#6} B^{\#7} B^{\#8} B^{\#9}$ Pier-*

PLAN
FOR
MOVING 230 FT. STEEL SPAN
AND
BUILD TIMBER TRESTLE and EARTH APPROACHES
CADDO RIVER BRIDGE
ROUTE 67 SEC. 6

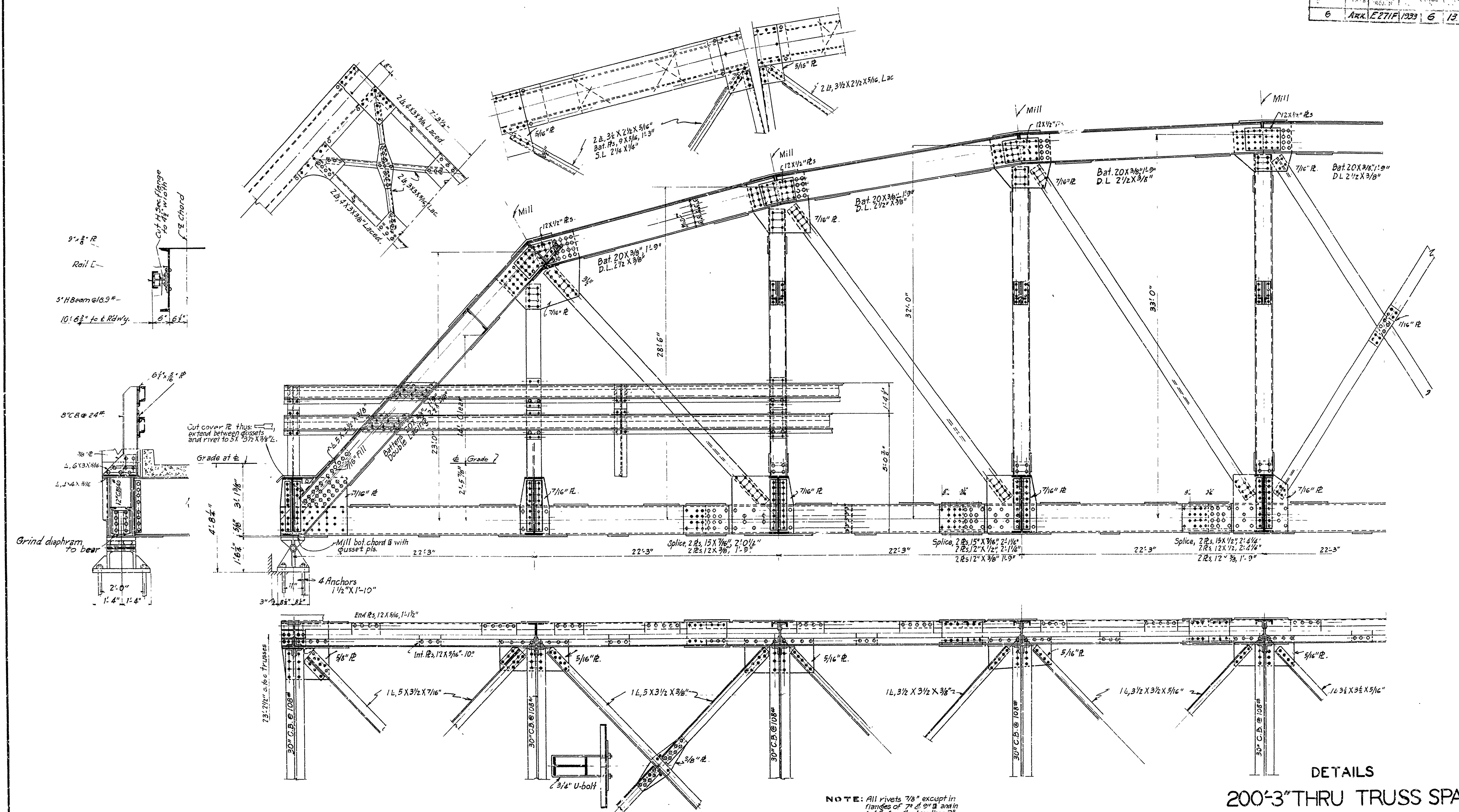
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: WAR Date: 8-21-32 / in. = 20 ft.
Traced By: _____ Scale: _____
Checked By: _____ Date: _____
BRIDGE NO. 899 DRAWING NO. 1883

H. B. Garrow
BRIDGE ENGINEER



YEAR	STATE	FED. A.C.	DATE	SHEET	TOTAL
6	ARK.	E 271 F	1933	6	13



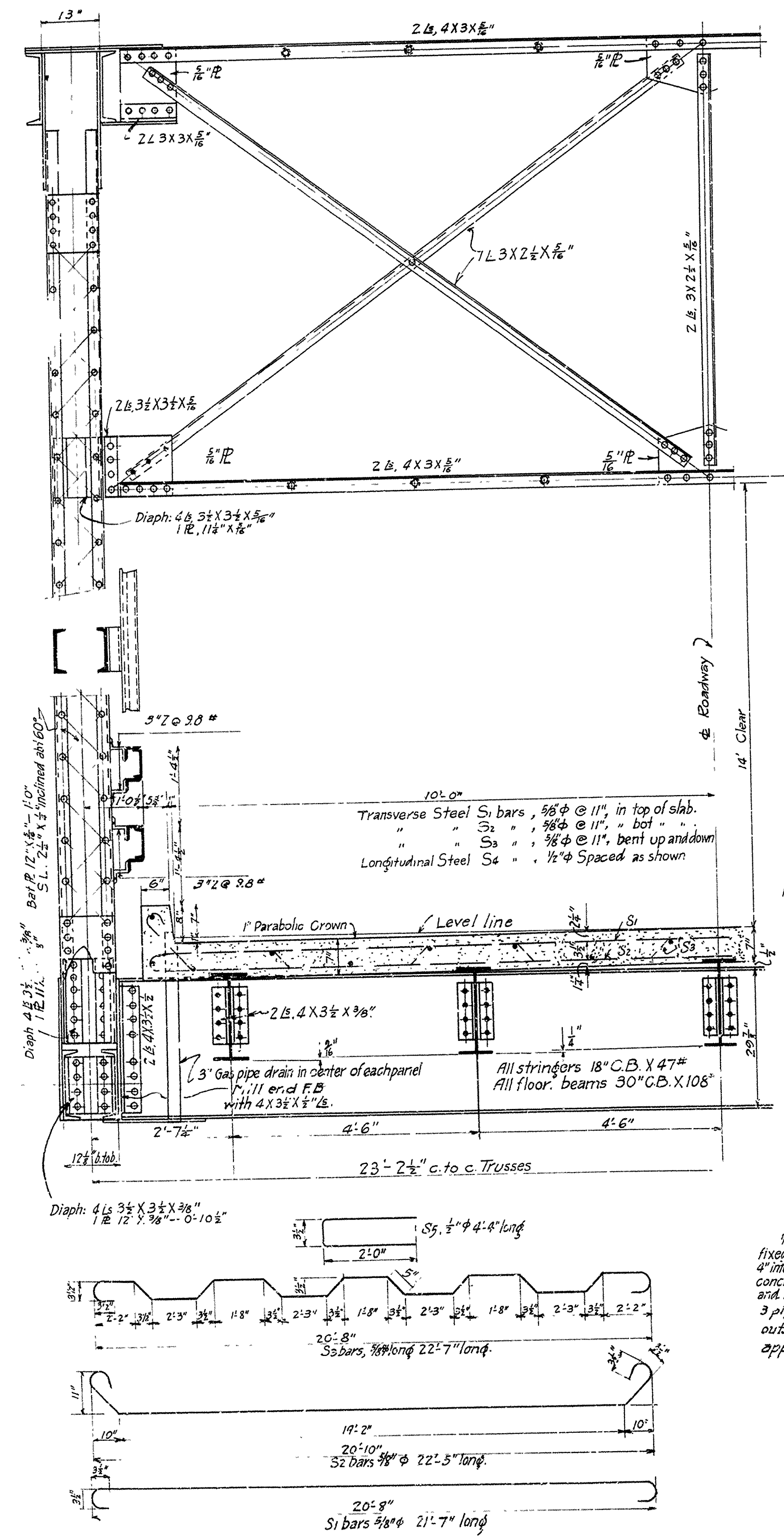
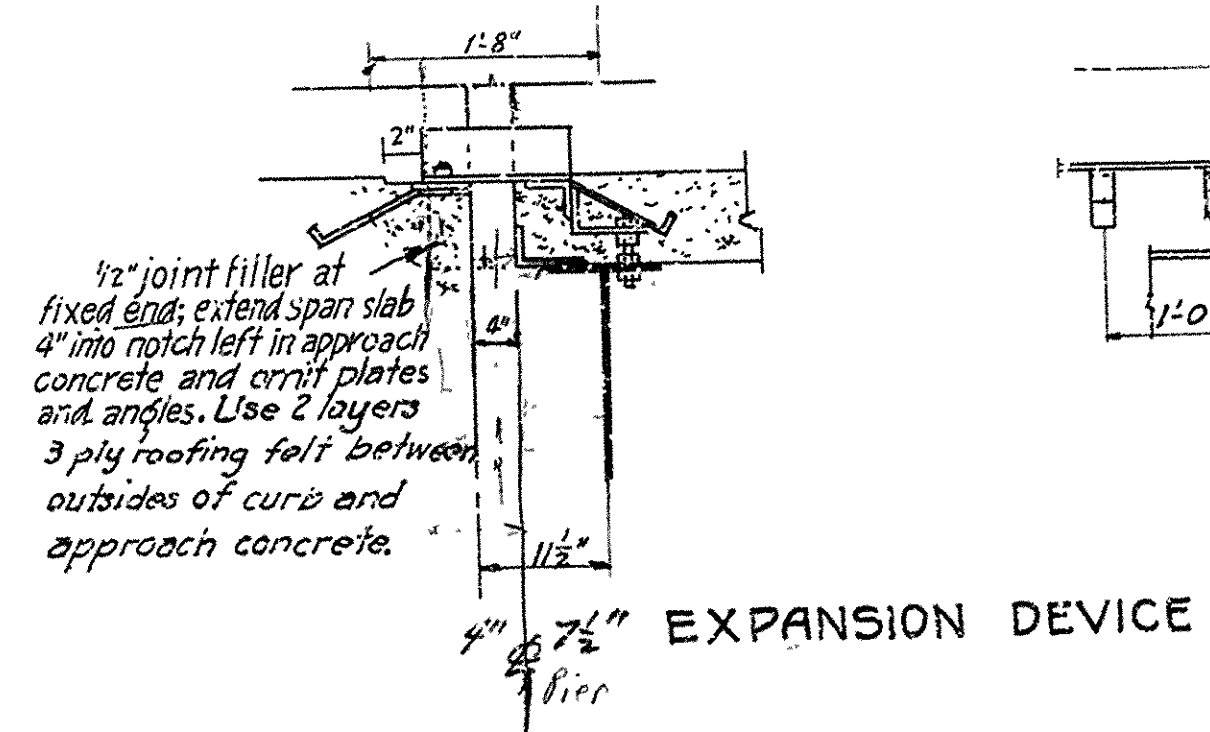
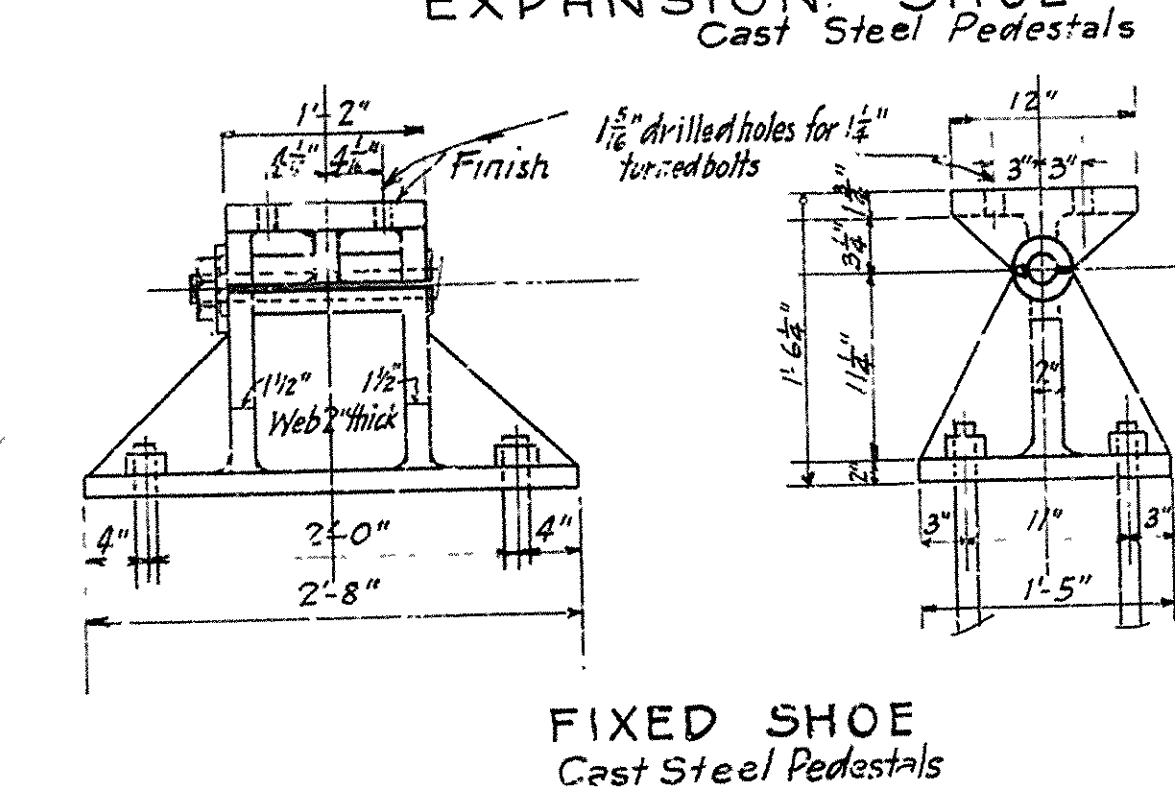
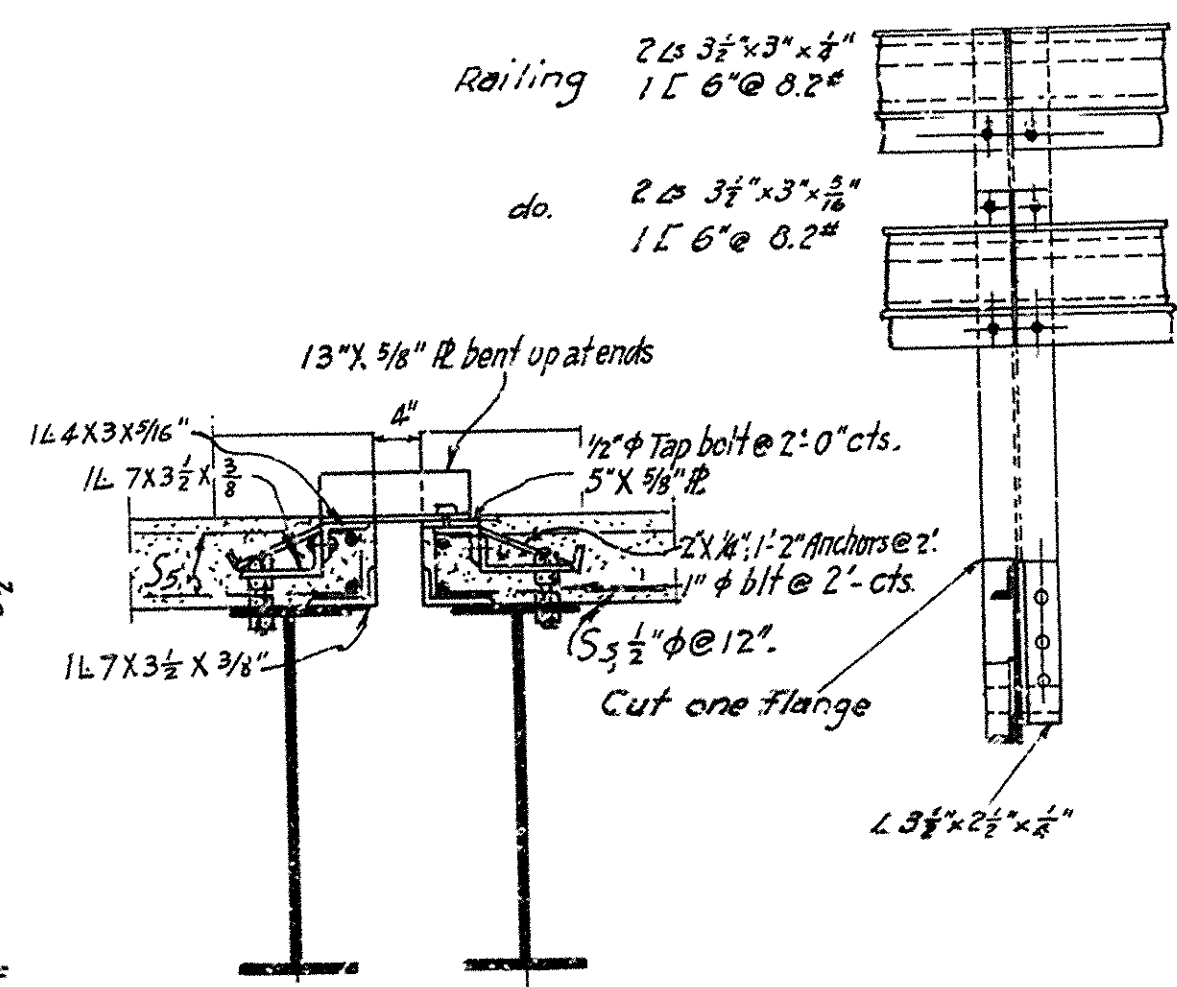
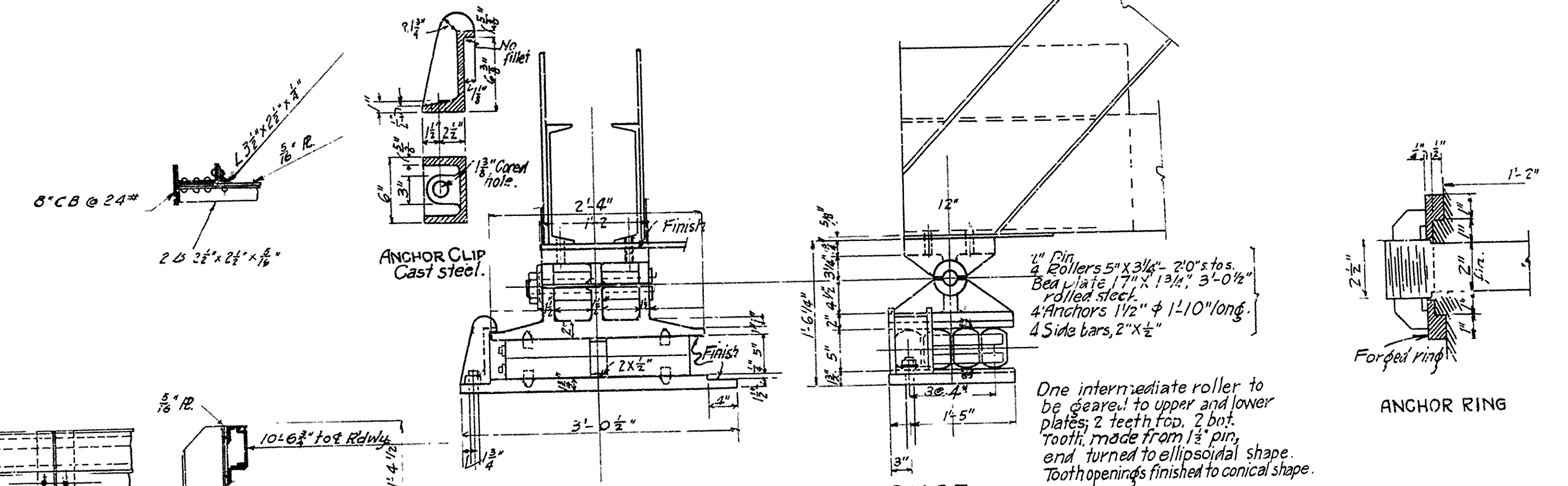
NOTE: All rivets 7/8" except in
ranges of 7' & 9' B and in
legs of angles less than 3".
See notes on Drawing No. 3537.

DETAILS
200'-3" THRU TRUSS SPAN
20 CLEAR ROADWAY
ROUTE 67 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: _____ Date: _____
Traced By: _____ Date: _____
Checked By: _____ Date: _____
BRIDGE NO. 335
DRAWING NO. 3536
1 of 2 Drawings

M. B. Blum
BRIDGE ENGINEER

FISCAL YEAR		SHEET NO.	TOTAL SHEETS

	ED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK. EEFH	1933	7	13

[illegible]

NOTES:
All rivets to be $\frac{7}{8}$ " (open holes $\frac{15}{16}$ ") except $\frac{3}{4}$ " rivets in flanges of 9" and 7" B, and in legs of & less than 3". All holes in truss connections to be punched $\frac{1}{16}$ " and reamed to size while truss is assembled; this applies to both field and shop connections. Floor beam and stringer connections; to be sub-punched and reamed to size thru a metal template.
All field connections to be riveted.
All floor beams and stringers to be milled to exact length after framing angles have been riveted.
Shapes of equal or greater strength may be substituted for structural shapes showing, payment, however, will be made in accordance with sizes given herewith.
Shop paint: After complete assembly and shop work finished, all pieces shall be given one coat of red lead and raw linseed oil.
Field paint: Apply two coats, See Specifications, P 96.36
Floor slab: Concrete shall be class "C". One inch has been added for wear.
This drawing shows general features of design only. Shop drawings shall be made in compliance with specifications; submitted and approved before fabrication is begun.
Specifications: Arkansas Standard Road and Bridge Specifications
adopted May 30, 1925, and revised.

DESIGN DATA

Unit Stresses: Concrete 750 lbs. per sq. in.
Reinforcing steel 16000 " " " "
Structural Steel 16000 " " " "
Live load: 4-15 loading.

ESTIMATED QUANTITIES

Concrete Class "S": 97.3 Cu. yds.
Reinforcing Steel: 18030 lbs.
Structural Steel: 287,000 lbs
Cast Steel to be allowed as structural.

DETAILS

200'3" THRU TRUSS SPAN

20 CLEAR ROADWAY

ROUTE 67 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

Drawn By: _____ Date: Sept 1 1932

Traced By: _____ Date: 62

Checked By: _____ Date: _____

Scale: { $\begin{matrix} \text{in.} = & \text{ft.} \\ \text{As dimensioned} \end{matrix}$

BRIDGE NO. 239 DRAWING NO. 3537

1 of 2 Drawings