

STATE OF ARKANSAS
STATE HIGHWAY DEPARTMENT

FISCAL YEAR	JOB NO.	SHEET NO.	TOTAL SHEETS
1925	679	1	16

PLAN OF PROPOSED BRIDGE
OVER
OUACHITA RIVER
HOT SPRING COUNTY

INDEX OF SHEETS

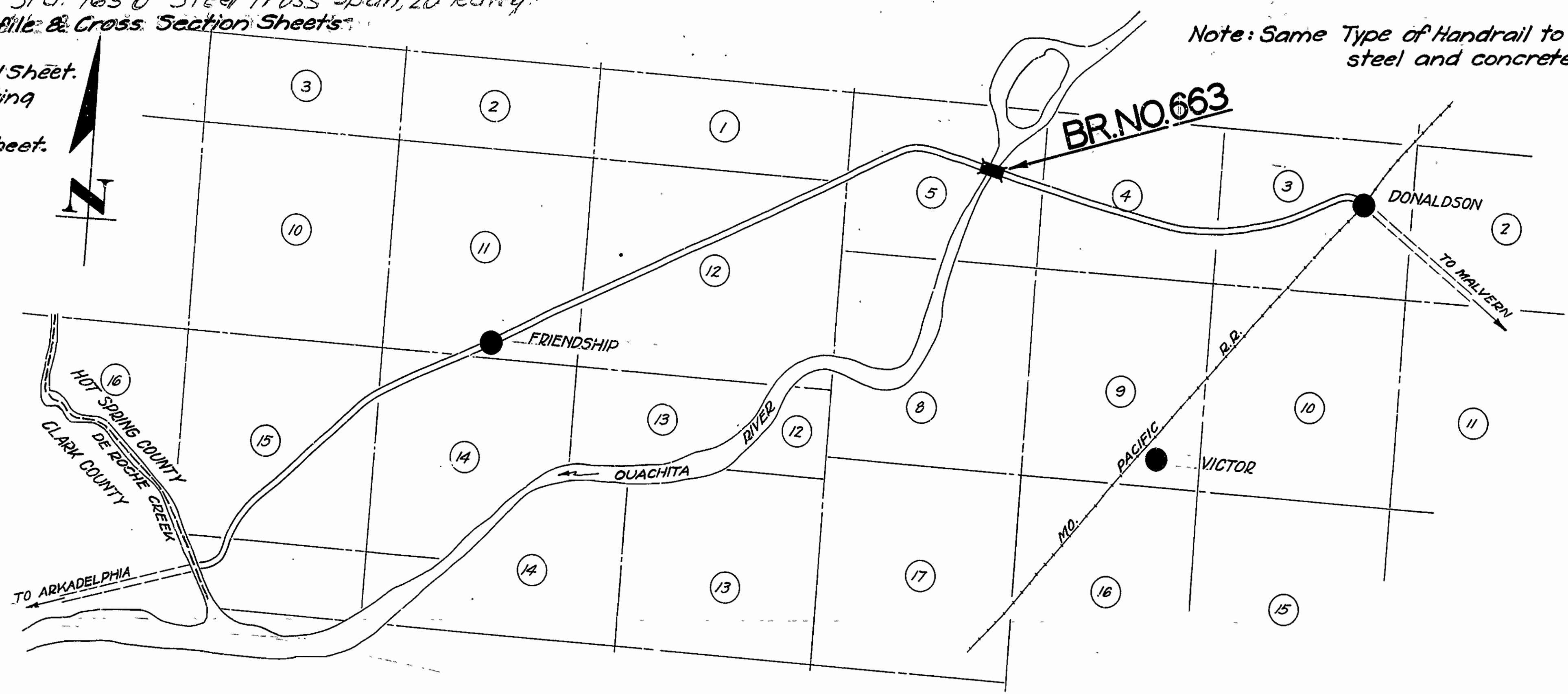
Sheet No.	Drwg. No.	Title Sheet
1	1448	Title Sheet
2	1449	Layout Ouachita River Bridge, Arch Alternate
3	1450	" " " " " " " "
4	1451	Details of Arch Span No. 1
5	1452	" " " " " " " 2
6	1453	" " " " " " " 3
7	1454	Details of Handrail & Approach Substructure for Arch Alt.
8	1019	" " Standard 35'-0" R.C.D. Girder, Pile Trestle, 20' Rdwy.
9	1455	Layout of Ouachita River Bridge Steel Alt.
10	1456	" " " " " " " "
11	1457	Details of Piers No. 1 & 3
12	1458	" " Pier No. 2, End Bent & Pile Bent
13	1088	" " Std. 165'0" Steel Truss Span, 20' Rdwy.
14-16		Plan, Profile & Cross Section Sheets

ROUTE 51 SEC. 3
JOB No 679
FEDERAL AID PROJECT No.

Concrete Arch Bridge	Steel Bridge
Item No. 12 Common Excav. 2463 Cu.Yds.	Item No. 12 Common Ex. 3875 C.Yds.
" " 13 Dry Ex. for Strucs. 775 " "	" " 13 Dry Ex. for Strucs 493 " "
" " 13 Wet " " " 180 " "	" " 13 Wet " " " 79 " "
" " 13 Rock " " " 105 " "	" " 13 Rock " " " 49.9 " "
" " 17 Borrow 1374 " "	" " 17 Borrow 1250 " "
" " 54 Class "A" Conc. 518.22 " "	" " 54 Class "S" Conc. 1102.30 " "
" " 54 " " " 1565.86 " "	" " 54 " " " 387.01 " "
" " 55 Reinf'g Steel 380,756 Lbs.	" " 55 Reinf'g Steel 276,525 Lbs.
" " 68 Precast Conc. Piling 1740 Lin. Ft.	" " 56 Struct. Steel in Trusses 354.110 "
" " 69 Rip Rap 125 Sq. Yds.	" " 68 Precast Conc. Piling 1852 Lin. Ft.
" " 74 Conc. Railing 2368 Lin. Ft.	" " 69 Rip Rap 125 Sq. Yds.
S.P. Remove Old Bridge Lump. Sum	" " 74 Conc. Railing 1699.5 Lin. Ft.
	S.P. Remove Old Bridge Lump. Sum

Note: Same Type of Handrail to be used on concrete portion of both steel and concrete alternates.

Special Provisions
Revisions to Paragraphs 17.2 & 17.3 - 1 Sheet.
Precast Concrete Piling, Supplementing Sect. 68 - 2 Sheets.
Removal of Existing Structure - 1 Sheet.



LAYOUT

LENGTH OF PROJECT ARCH 1177'-0" = 0.223 MI.
STEEL 1184'-6" = 0.224 "

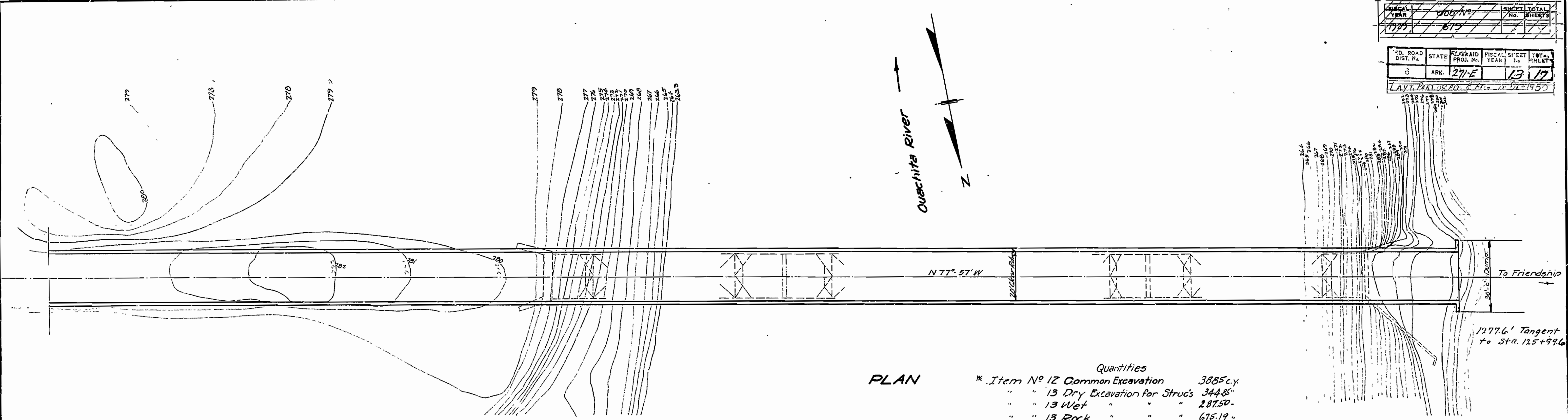
APPROVED
COMMISSIONER - STATE LANDS, HIGHWAYS AND IMPROVEMENTS
APPROVED
STATE HIGHWAY ENGINEER
RECOMMENDED FOR APPROVAL
DISTRICT ENGINEER - U. S. BUREAU OF PUBLIC ROADS
RECOMMENDED FOR APPROVAL
CHIEF ENGINEER - U. S. BUREAU OF PUBLIC ROADS
APPROVED
DIRECTOR - U. S. BUREAU OF PUBLIC ROADS

M.B. Sawyer
BRIDGE ENGINEER

YEAR	JOB No.	SHEET	TOTAL SHEETS
1977	675	13	17

CD. ROAD DIST. No.	STATE	FISCAL YEAR	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	ARK.	271-E	13	17	

L.A.T. PLAN SCALE: 1" = 100' DATE: 1957

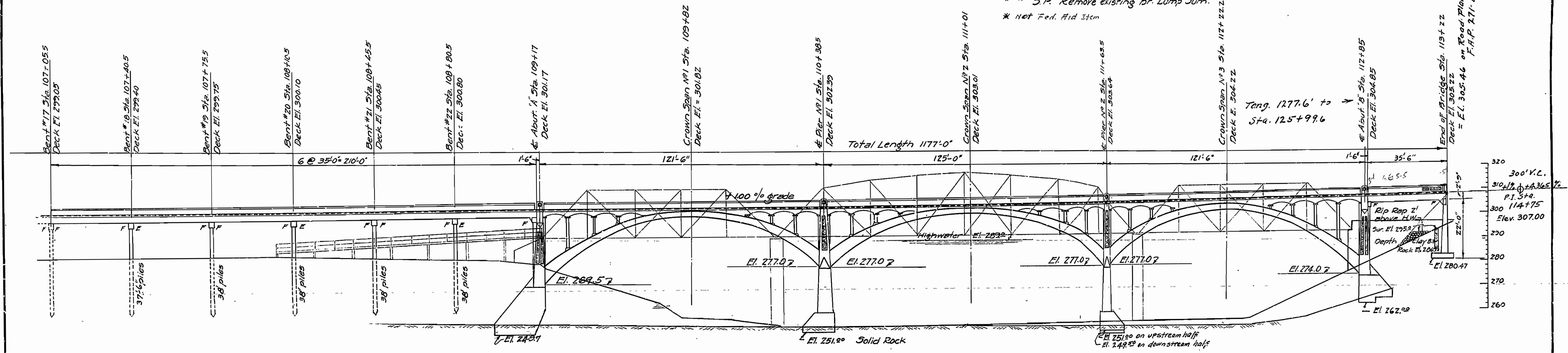


PLAN

Item	Quantity
* Item No 12 Common Excavation	3885 c.y.
" " 13 Dry Excavation for Strucs	344.85 "
" " 13 Wet " " "	287.50 "
" " 13 Rock " " "	675.19 "
" " 54 Cl. A Concrete	542.82 "
" " 54 " " 5	1570.35 "
" " 55 Reinforcing Steel	353,565 lbs.
" " 60 Precast Conc. Piling	2848.5 lin. ft.
" " 69 Rip Rap	283.5 sq. y.
" " 74 Concrete Railing	2368 lin. ft.
" " 5 P. Remove existing Br. Lump Sum	

* Not Fed. Aid Item

Bridge Contractor to do grading to Sta. 120+75



ELEVATION

Superstructure Details of Appr. Drwg. 1019
 Substructure " " " 1434
 Details of Arch Spans " " 1451-1452-1453

Drainage Area 1700 Sq. Mi. Hilly
 B.M. El. 287.03 on bridge seat, west Abut. north side.

Revised E.A.P. No. 5-27-52
 Final Elev. _____

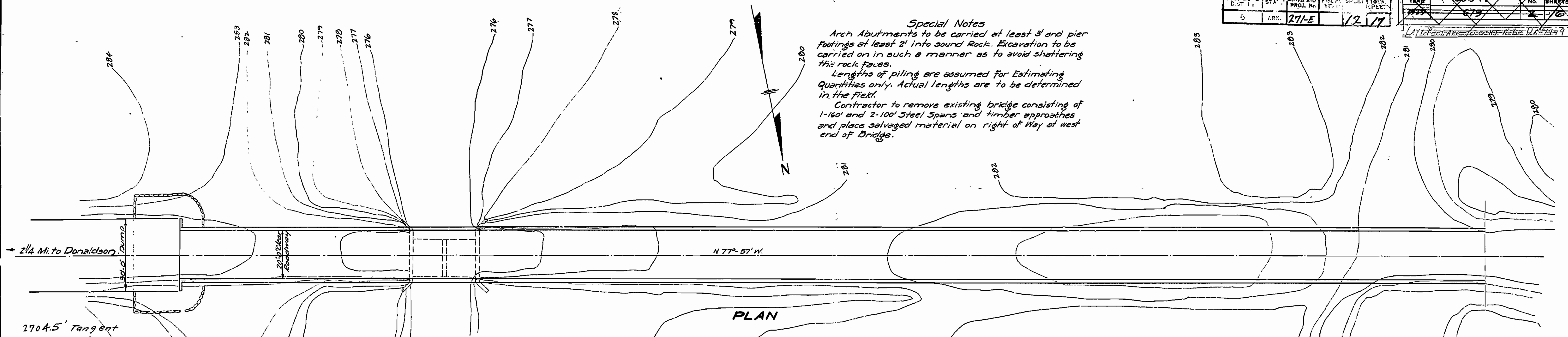
M.B. Lane
 BRIDGE ENGINEER

LAYOUT OF PART OF APPR. AND ARCH SPANS BRIDGE OVER OUACHITA RIVER DONALDSON FRIENDSHIP Hot Spngs. Co., ROUTE 67 SEC 7

ARKANSAS STATE HIGHWAY DEPARTMENT
 LITTLE ROCK, ARK.

Drawn By: E.O.G. Date: 12/20/50
 Traced By: E.O.G. Date: 3/9/50
 Checked By: E.O.G. Date: 3/13/50
 Scale: 1" = 20' ft.
 BRIDGE No. 663 DRAWING No. 1450

PROJ. NO.	ST. NO.	SECTION	SHEET NO.	TOTAL SHEETS
271-E	12	17		



Special Notes
 Arch Abutments to be carried at least 3' and pier footings at least 2' into sound Rock. Excavation to be carried on in such a manner as to avoid shattering the rock faces.
 Lengths of piling are assumed for Estimating Quantities only. Actual lengths are to be determined in the field.
 Contractor to remove existing bridge consisting of 1-160' and 2-100' Steel Spans and timber approaches and place salvaged material on right of Way at west end of Bridge.

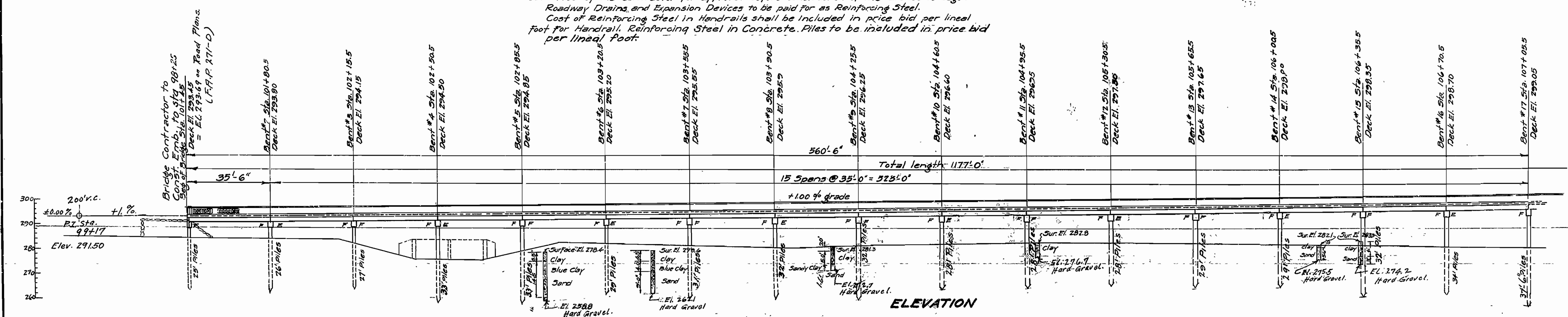
PLAN

General Notes.
 All exposed corners to have 3/4" Chamfer unless otherwise noted.
 Panels on Piers and Rail Posts to be recessed 1" and bush hammered.
 All concrete in piling, columns, caps and Superstructure of East approach to be Class 'S'. Concrete in footings of special Bents No 9 to 14 to be Class 'A'.
 All concrete in Arch Spans above springing lines to be Class 'S' concrete.
 All concrete in Arch Abutments and piers below springing lines to be Class 'A'.
 All concrete in West Approach above bottom of Girder to be Class 'S'.
 Concrete in bent No 25 below bridge seat to be Class 'A'.
 Cast in place hard Rails to be Class 'S' concrete.
 All concrete to be cast in the dry.
 Reinforcing Steel to be deformed bars of Structural or Intermediate Grade.
 Shop List and Bending Diagram of reinforcing steel must be submitted by the Contractor for approval before fabrication is begun.
 Drawings showing details of arch centering and proposed order of concreting must be submitted by the contractor for approval before construction of the arches is begun.
 Roadway Drains and Expansion Devices to be paid for as Reinforcing Steel.
 Cost of Reinforcing Steel in Handrails shall be included in price bid per lineal foot for Handrail. Reinforcing Steel in Concrete. Piles to be included in price bid per lineal foot.

Cost of Steel Shoes on piles, where required, shall be included in price bid per lineal foot for Precast Concrete Piling in place, the length of pile being measured to the point of the shoe.
 Specifications: Arkansas Standard Road & Bridge Specifications adopted May 30, 1925, revised Jan. 1, 1928 with special provisions.

R. of W
 103' Each Side of Sta. 101+00 to Sta. 109+00 in Arch Abutments and piers below springing lines to be Class 'A'.
 40' Each Side of Sta. 109+00 to Sta. 145+50

2704.5' Tangent between bridges To Sta. 74+40.5



ELEVATION

Contractor to Remove existing Timber bridge

Revised Cal. Bents to Pile Bents, & P.A.P. on 2-28-33. E.L.C.

Lengths of Piling shown are assumed for Estimating Quantities only. Actual lengths to be determined in the field. Bearing capacity 36 tons.

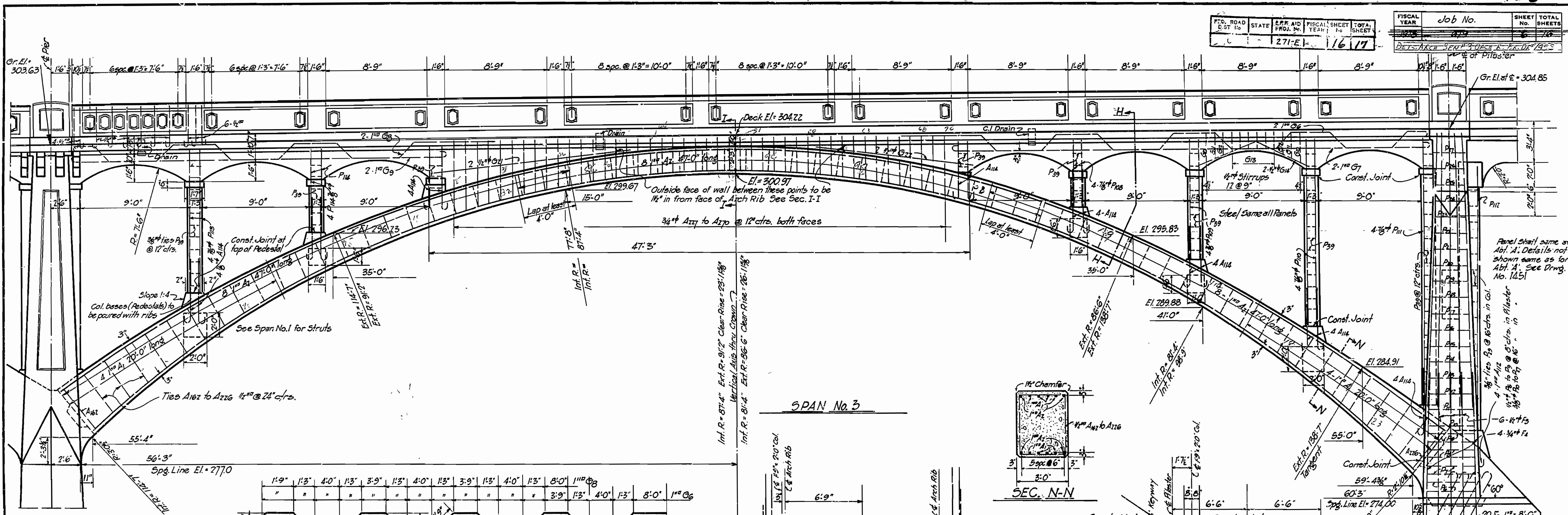
For Superstructure Details See Drwg. # 1019
 " Substructure " " " # 1454

Drainage Area 1700 sq. Mi. Hilly
 B.M. El. 287.83
 On bridge seat west Abut. north side.

LAYOUT OF PART OF APPROACH TO BRIDGE OVER OUACHITA RIVER DONALDSON FRIENDSHIP ROUTE 67 SEC. 7 ARKANSAS STATE HIGHWAY DEPARTMENT LITTLE ROCK, ARK.
 Drawn By: E.O.G. Date: 1/28/28
 Traced By: M.G. Date: 3/6/28
 Checked By: E.O.G. Date: 4/13/28
 BRIDGE NO. 663 DRAWING NO. 1449

N.B. Lamm BRIDGE ENGINEER

FISCAL YEAR	Job No.	SHEET No.	TOTAL SHEETS
1938	603	16	16

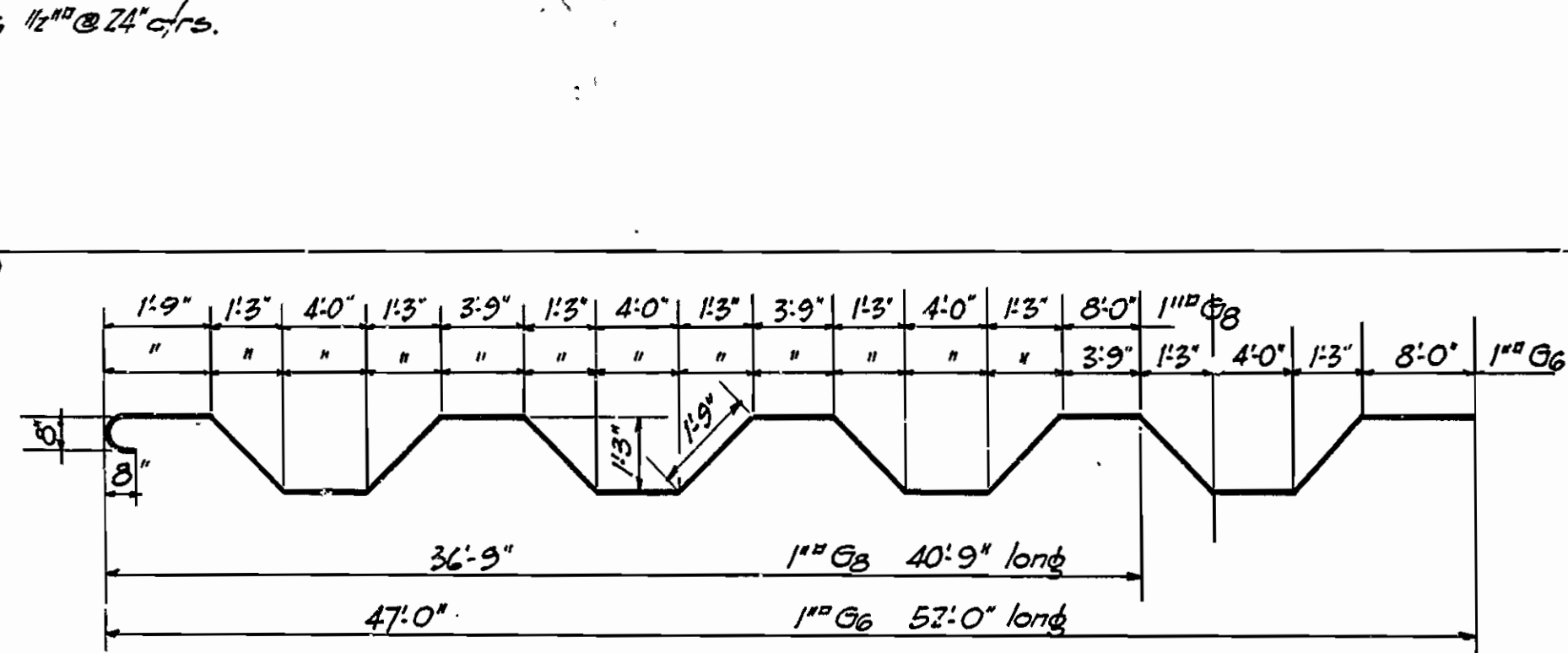


PIER No. 2

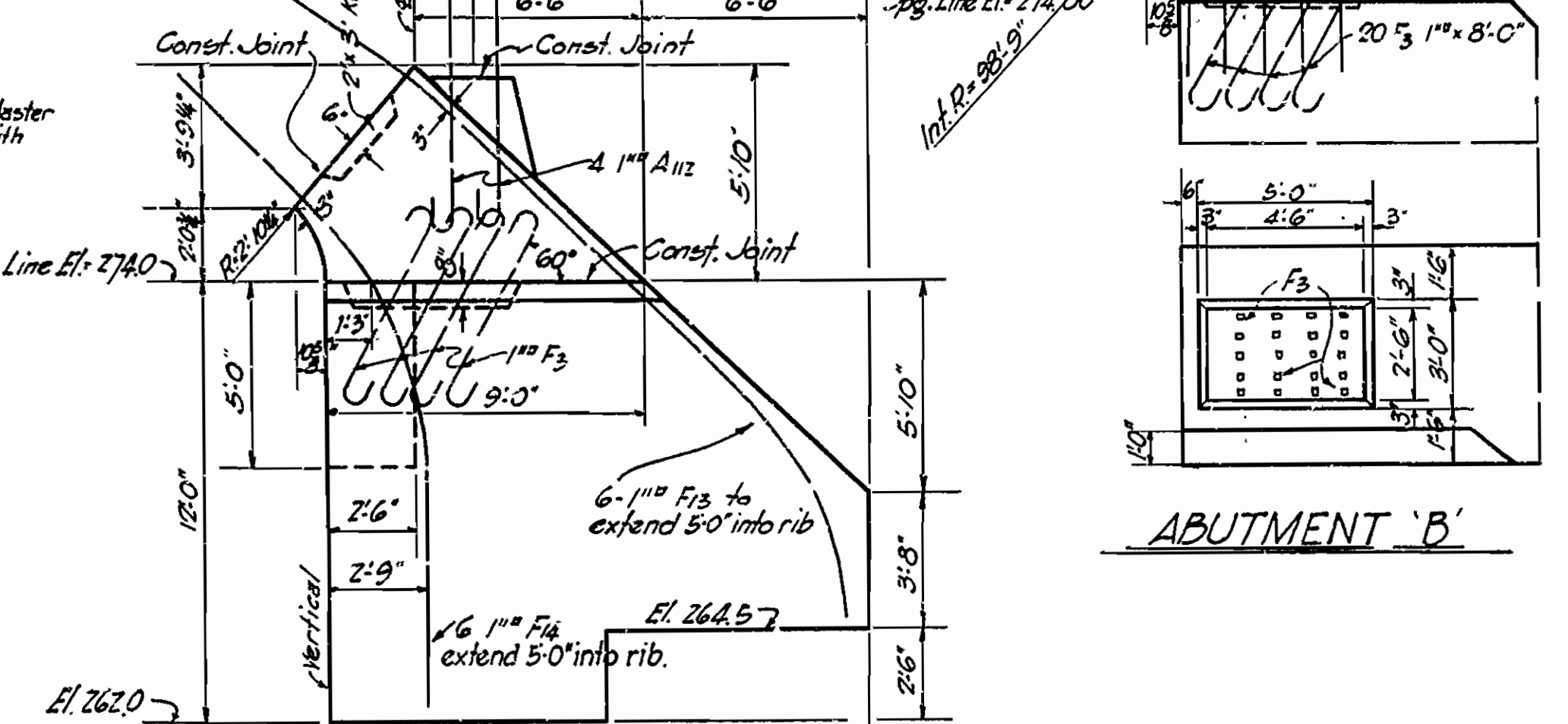
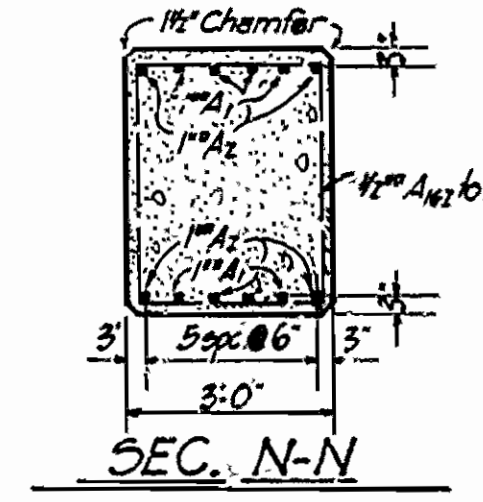
No.	Size	Mark	Length	A	B
130	1/4"	A3-A67	Var.	2'-7"	Var.
60	7/8"	A16	7'-8"	1'-8"	1'-8"
100	"	A17	5'-8"	1'-2"	1'-2"
130	1/2"	A18-A20	Var.	2'-7"	Var.
130	"	A21-A26	"	2'-7"	"
10	"	F7	14'-6"	2'-1/2"	4'-7/8"
12	3/8"	P16-P27	10'-2"	2'-8"	1'-11"
64	1/2"	P21	6'-6"	1'-1/2"	1'-7/8"
514	3/8"	P29	4'-9"	1/4"	1 1/4"
24	1/2"	P31	5'-0"	10 1/2"	1'-1 1/4"
26	3/8"	P36-P38	Var.	Var.	3 1/2"
28	"	P41-P47	"	"	8 1/2"

No.	Size	Mark	Length	A	B
26	1/2"	P36	6'-3/4"	7'-1 1/2"	1'-2 1/4"
124	"	G3	5'-9"	2'-2"	5 1/2"
223	"	G10-G13	Var.	Var.	1'-0 1/2"
33	"	G19	6'-3/4"	2'-2"	1 1/2"

No.	Size	Mark	Length	A	B
32	1/2"	P3-P9	Varies	Varies	2'-6"
20	1/2"	P1-P15	"	"	2'-6"
20	1/2"	P20-P23	"	"	2'-6"
434	3/4"	S2	22'-6"	20'-6"	1'-0"
10	1/2"	S6	22'-6"	20'-6"	1'-0"



BENDING DIAGRAMS FOR ARCH SPANS 1-2 & 3



For Approach Details See Drawing No. 1019 & 1454
 For Pier " " " " " 1452
 For Handrail " " " " " 1452
 For Drain " " " " " 1019
 For Sections and Elevations not shown on this sheet see Drawg. No. 1451 & 1452

Revised By: FB 13-4 to 17-0
 No. of Feet: P.P. 4-12-29
 Added: F.S.W.
 P.A.R. Co. 5-24-32 846

Arch Span #1 for Job #1318
 This drawing included in Job #1318
 for reference only.

DETAILS OF ARCH SPAN No. 3

BRIDGE OVER OUACHITA RIVER

ROUTE 67 SEC. 7

ARKANSAS STATE HIGHWAY DEPARTMENT

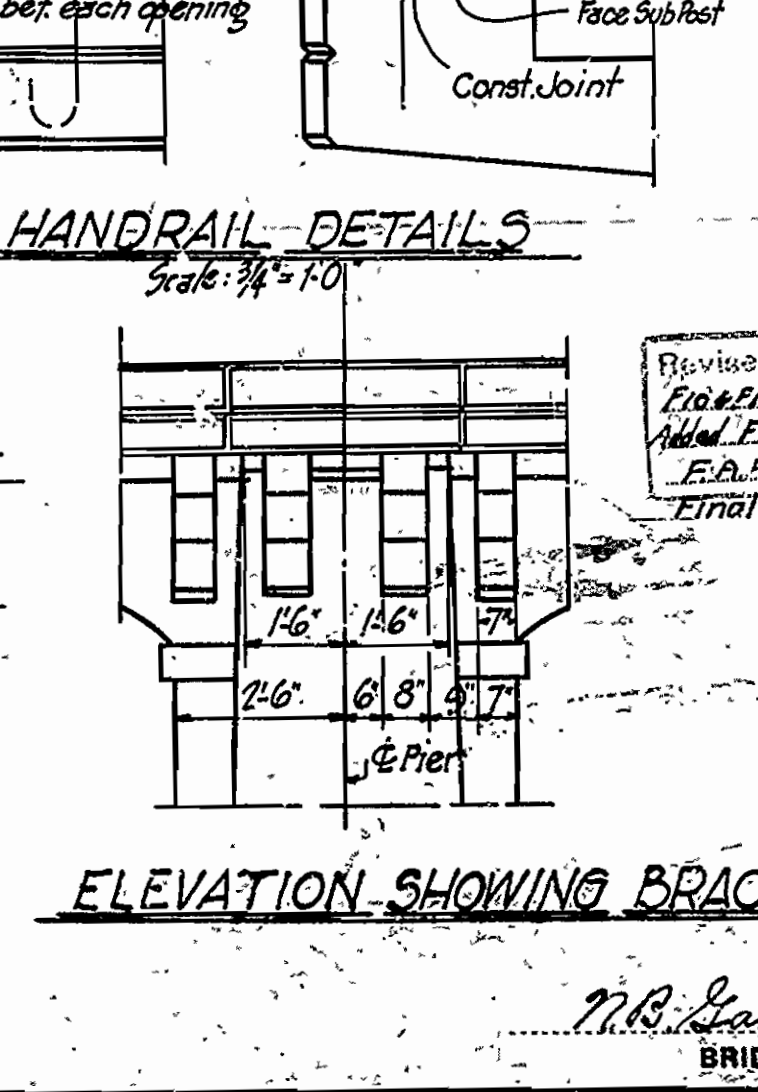
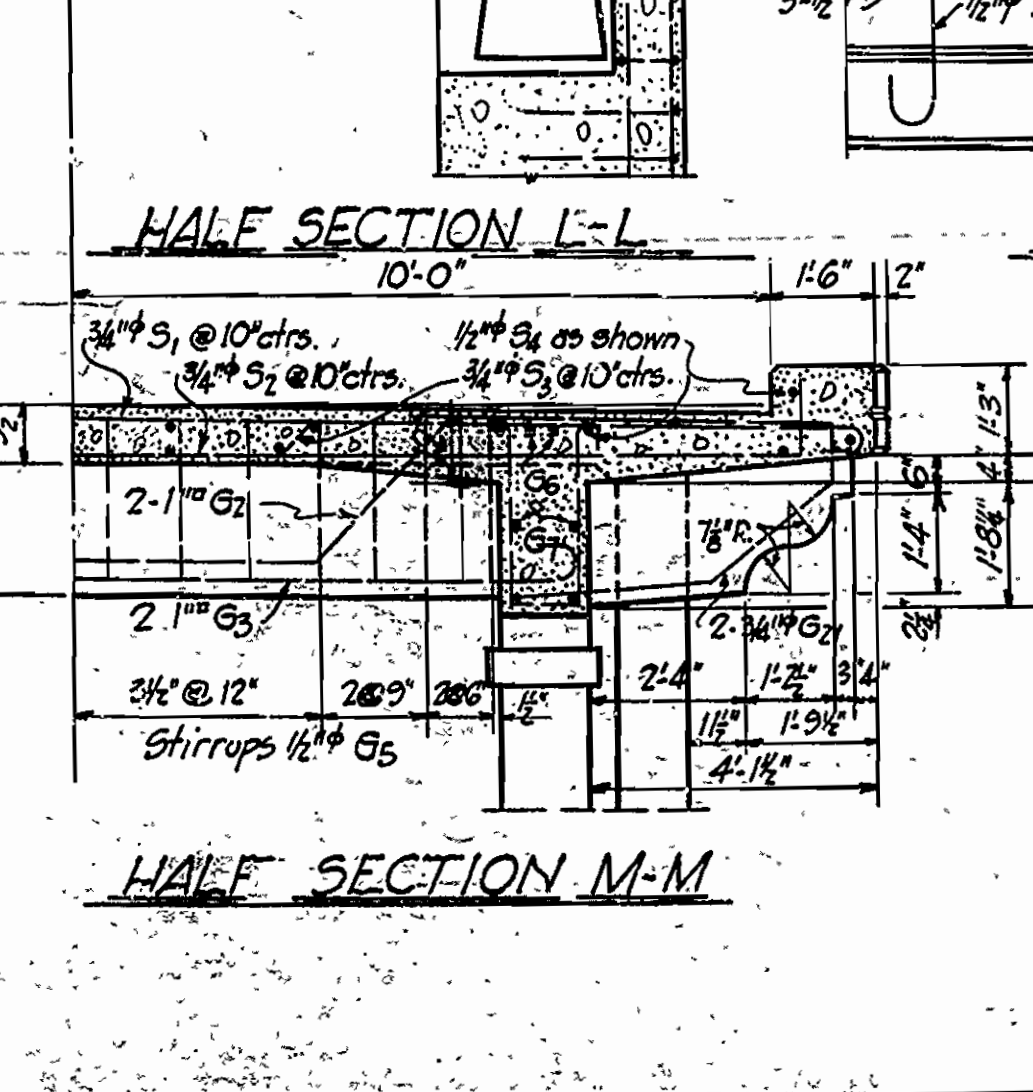
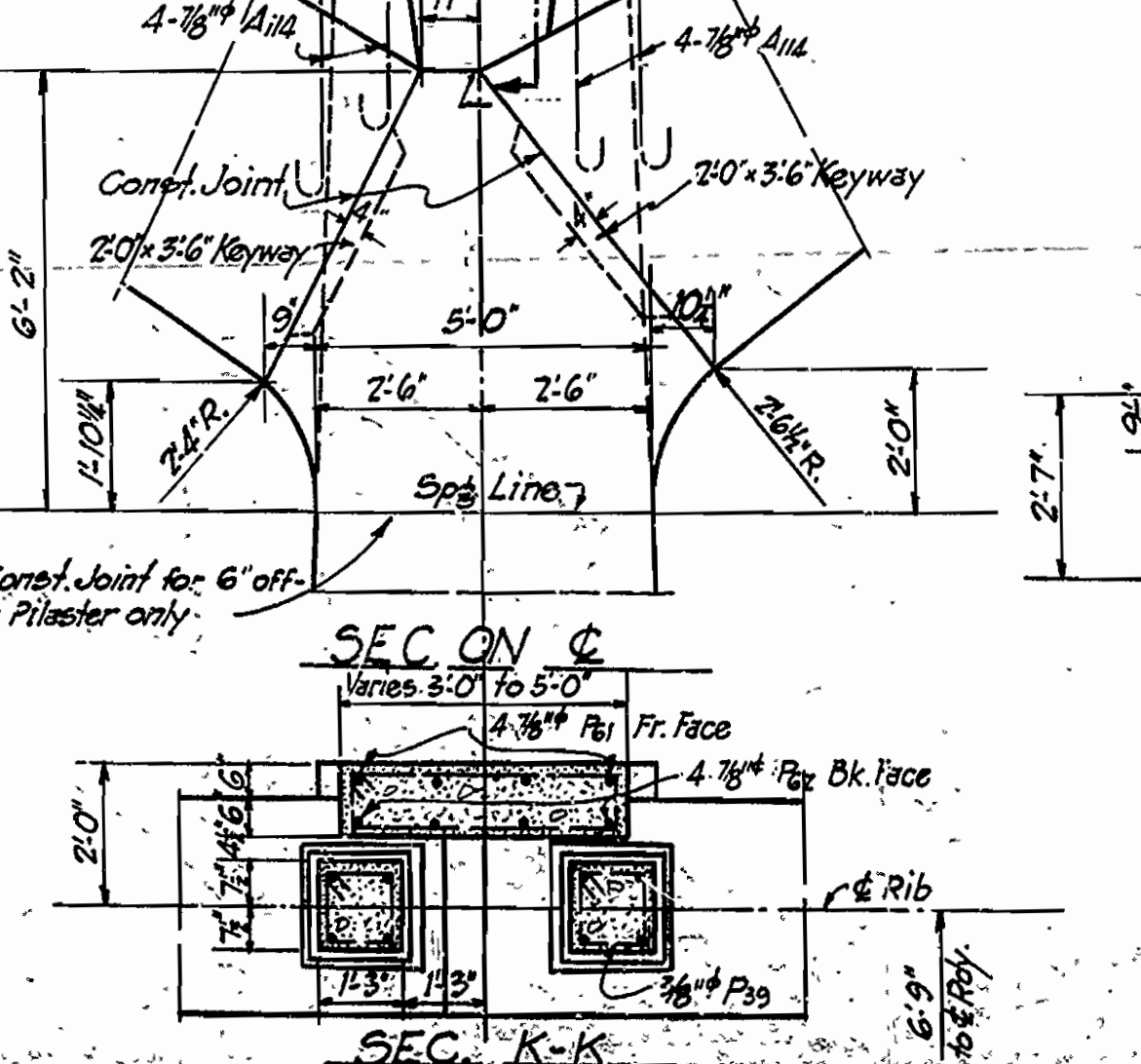
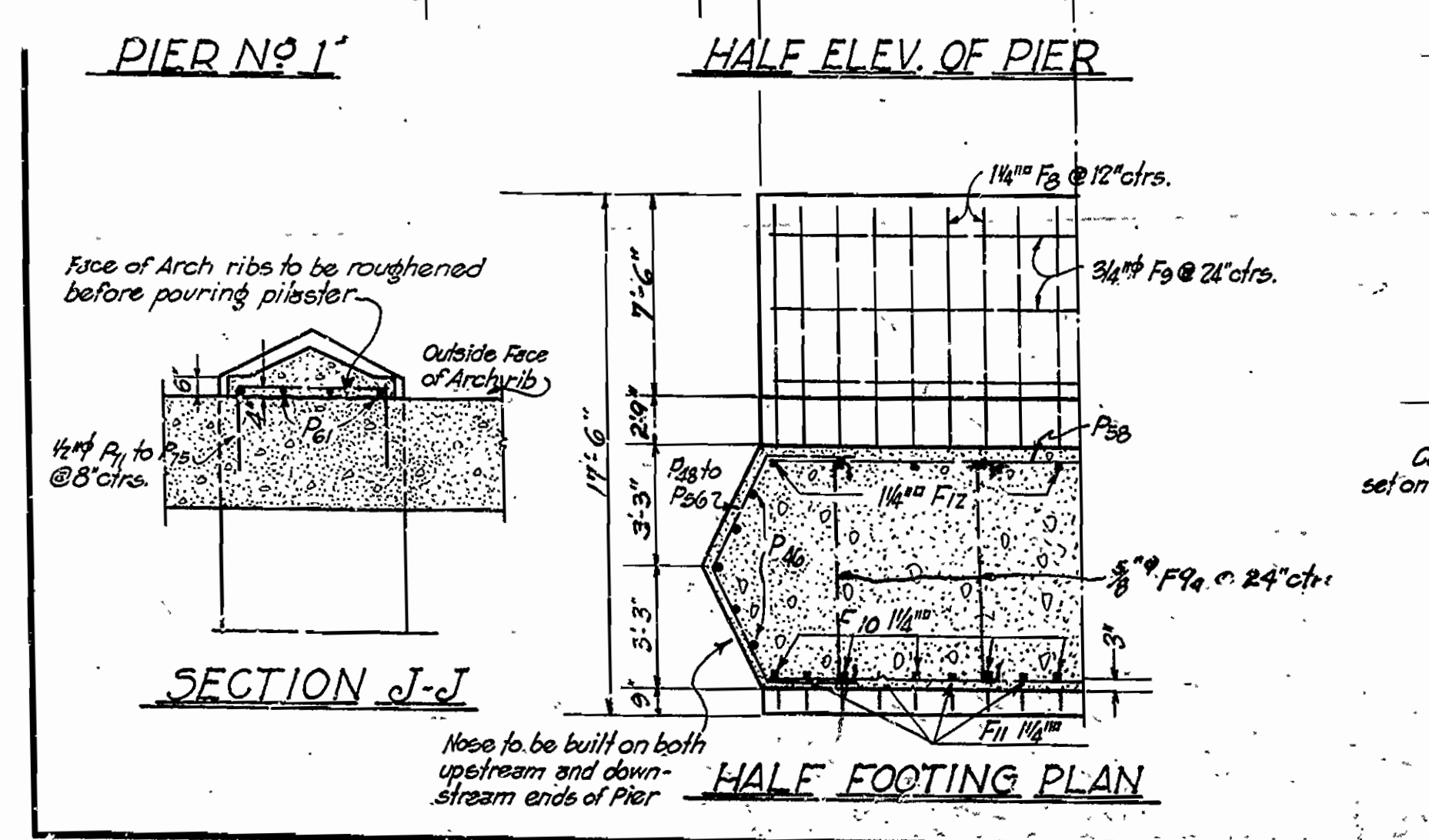
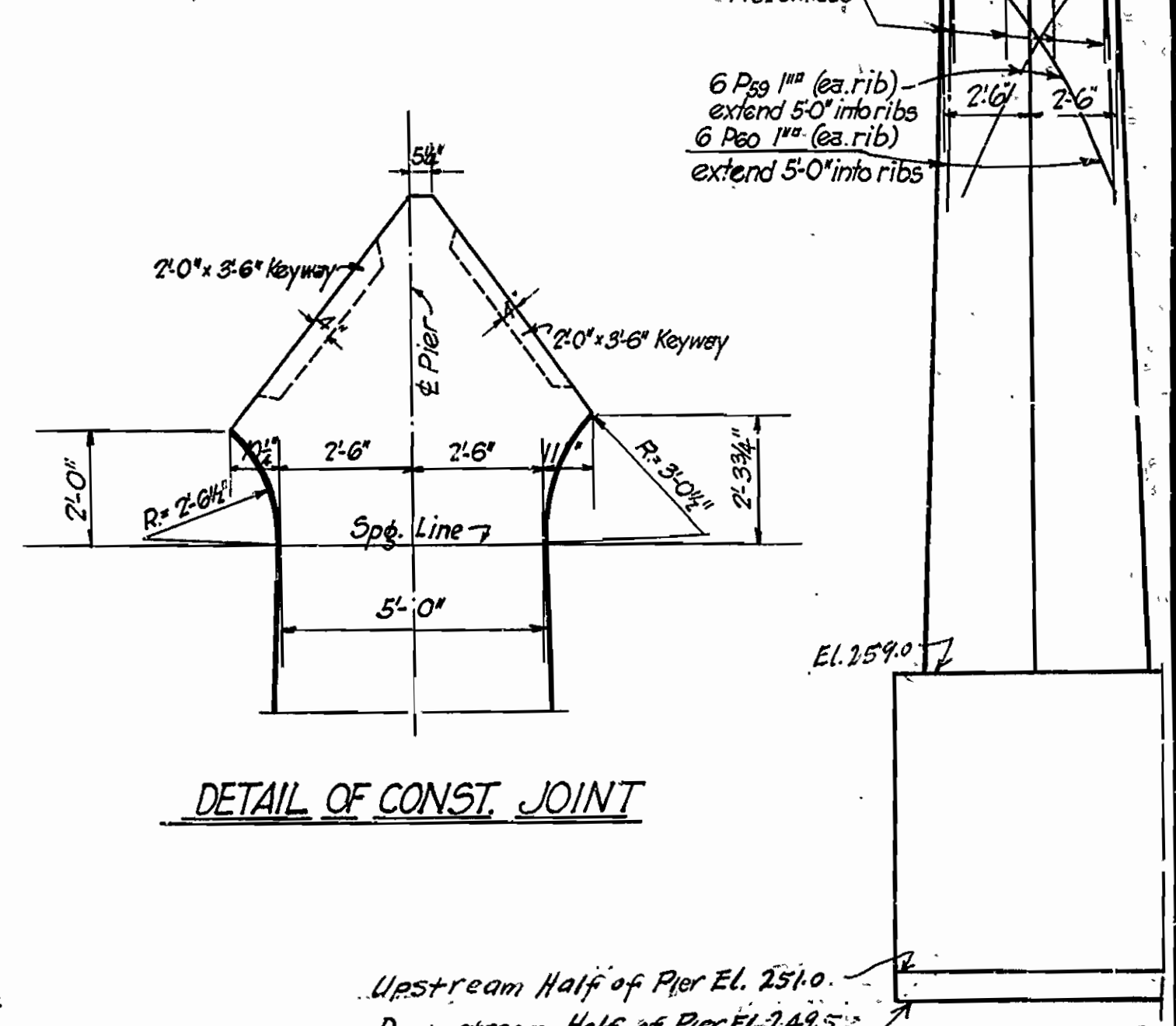
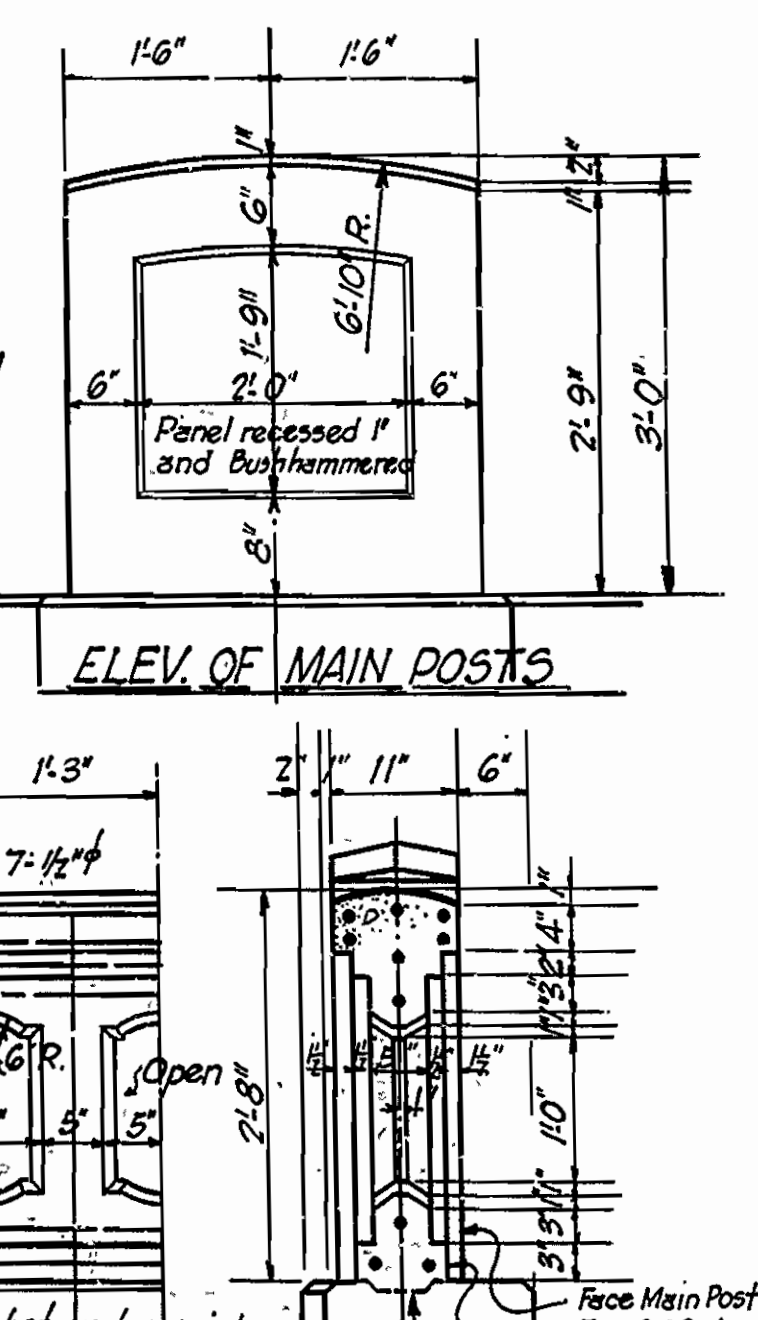
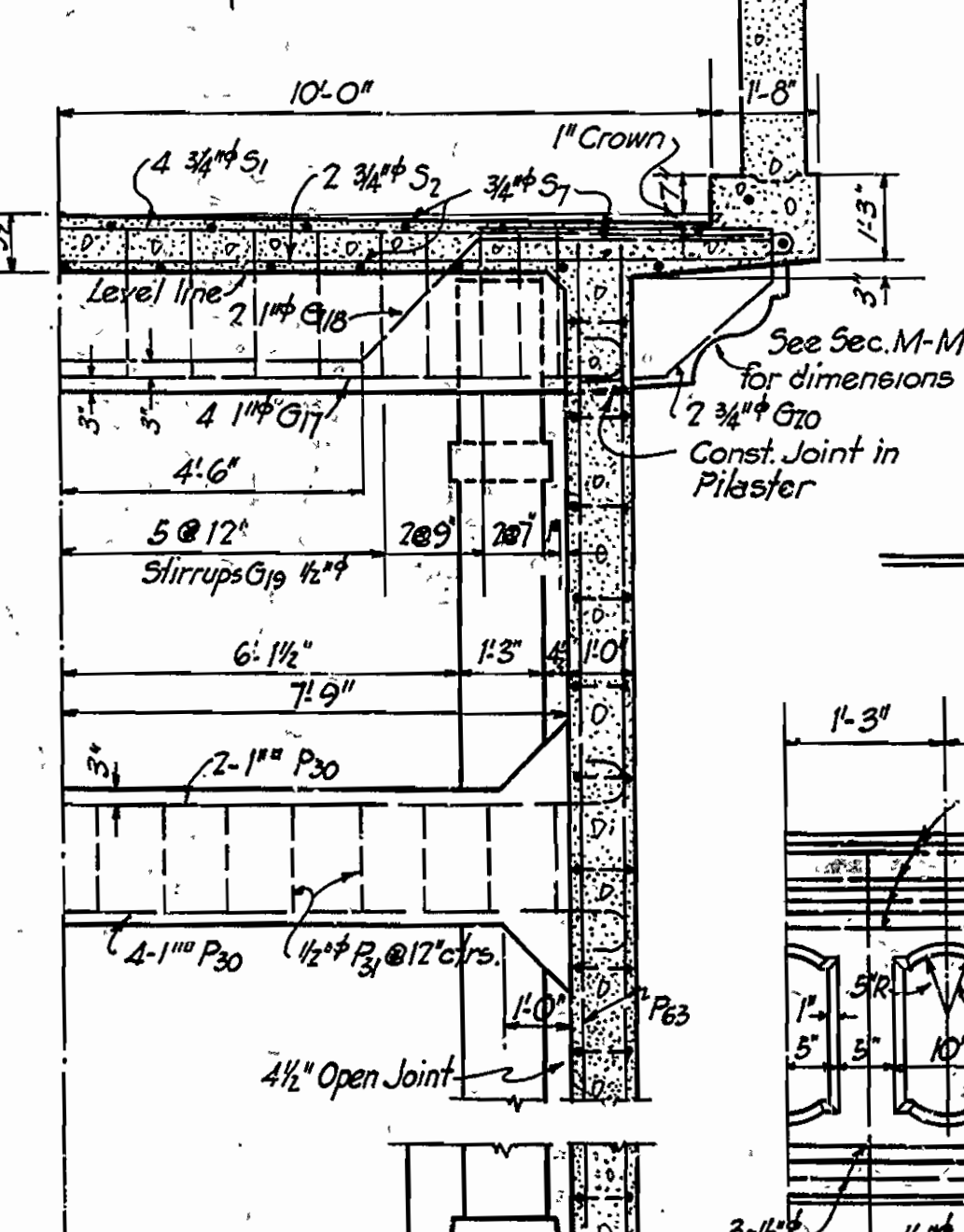
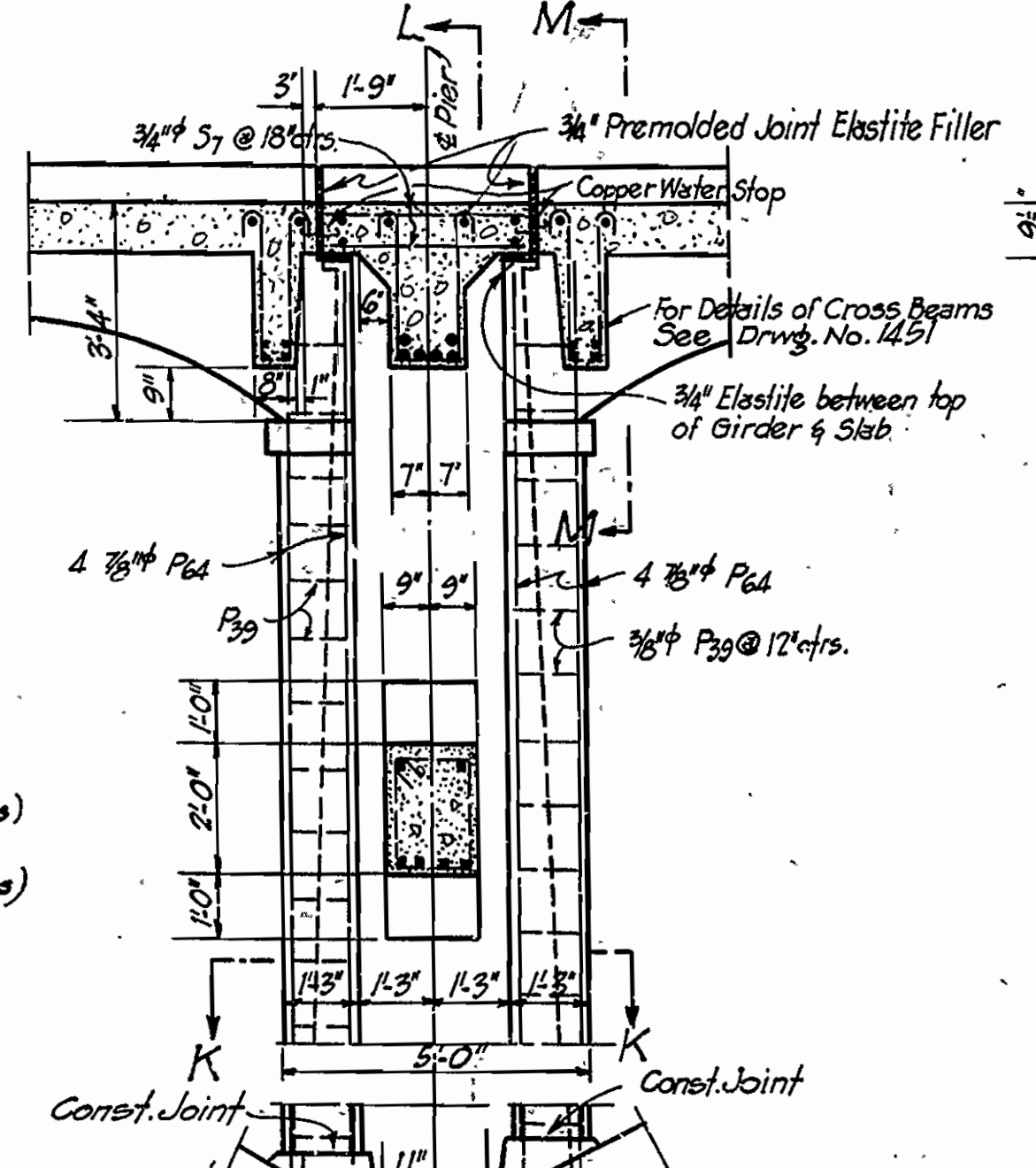
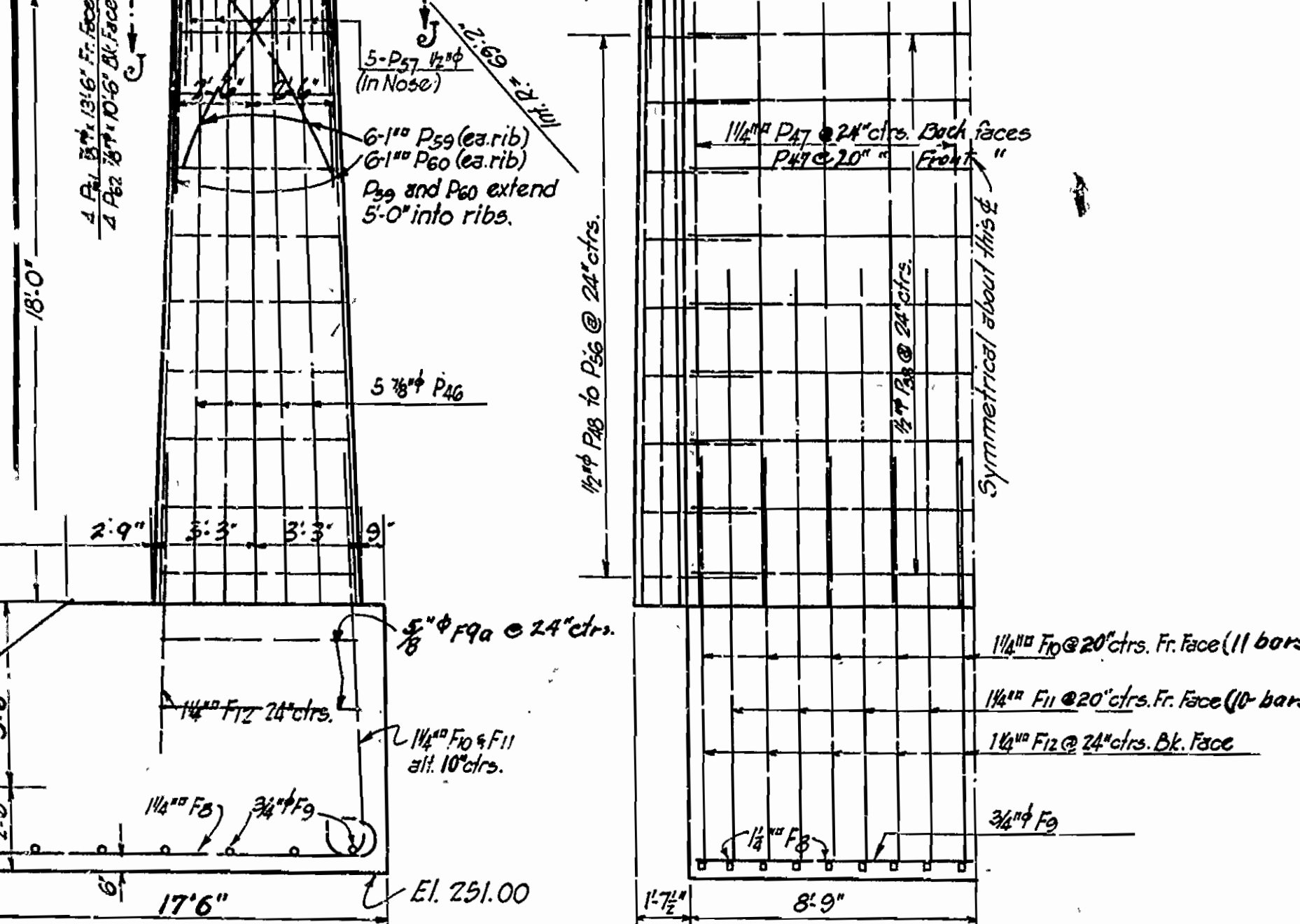
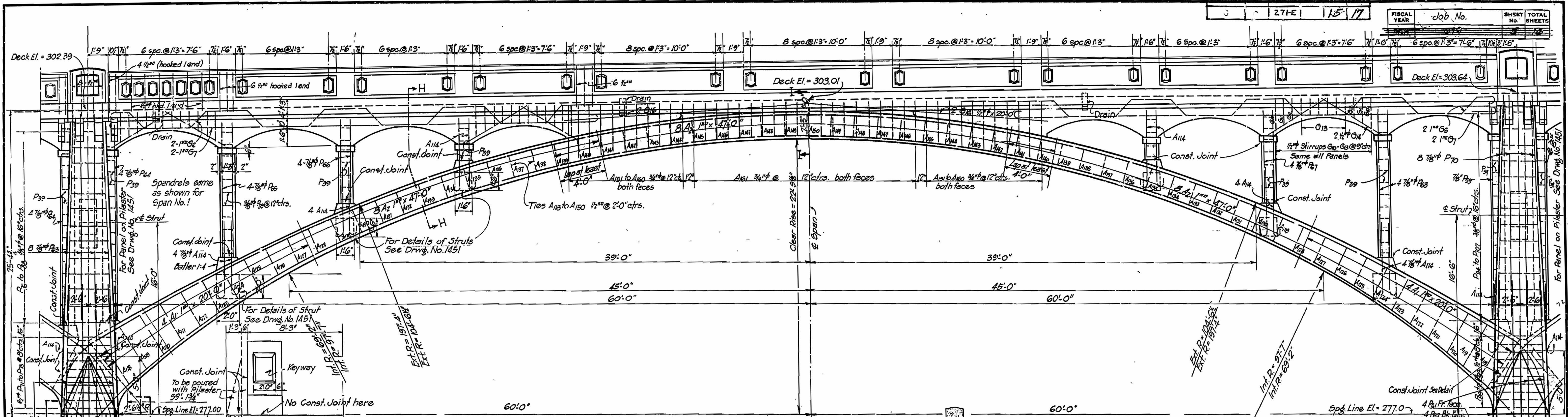
LITTLE ROCK, ARK.

Drawn By: G.E.V. Date: 3-11-29
 Traced By: L.O.G. Date: 3-11-29
 Checked By: L.O.G. Date: 3-11-29

Scale: 1/4" = 1' ft.

BRIDGE No. 603 DRAWING No. 1453

W.B. Saenger
 BRIDGE ENGINEER



Upstream Half of Pier El. 251.0
Downstream Half of Pier El. 249.5

PIER NO 2
Same Details below Spg. Line as Pier No. 1

NOTES:
For General Notes see Drwg. No. 1449
For Details of Drains See Drwg. No. 1019
For Details of Arch Deck See Drwg. No. 1451 (Secs. H-H & I-I)
For Bending Diagrams See Drwg. No. 1453

This drawing included in Job # 1318 for reference only.

DETAILS OF ARCH SPAN NO 2 BRIDGE OVER QUACHITA RIVER

ROUTE 67 SEC. 7

ARKANSAS STATE HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.

Drawn By: L.P.C. Date: 3-5-29
Traced By: E.A.W. Date: 3-8-29
Checked By: E.O.G. Date: 3-12-29

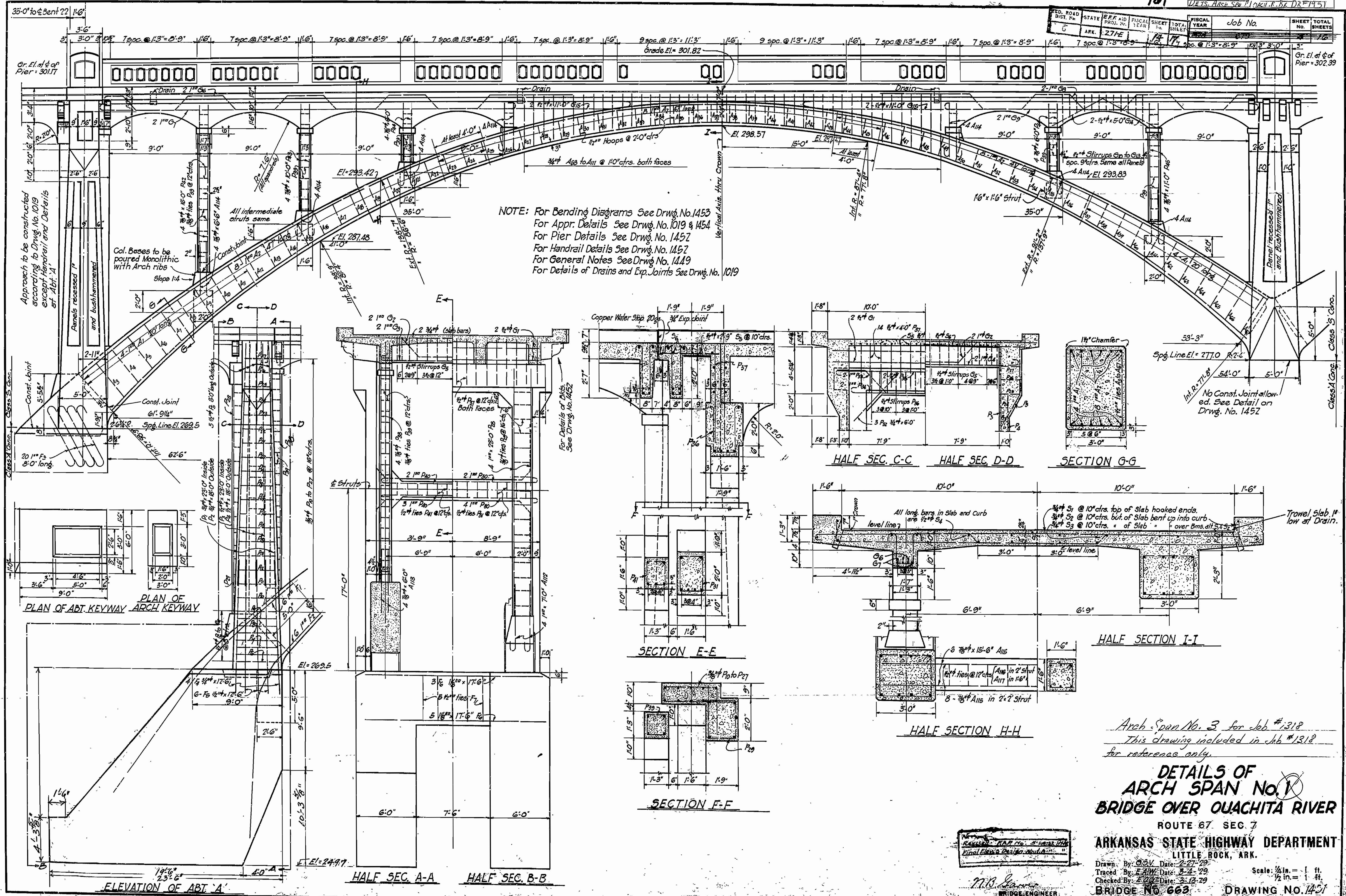
Scale: 1/4 in. = 1 ft.
3/8 in. = 1 ft.

BRIDGE NO. 663 DRAWING NO. 1452

Revised Pier Footings 14" tall 6" wide 12" spacing to 10" Arch Piers 5-11-29 E.P.A. Final P. No. 5-24-29 E.P.A. Final Elev. Pier No. 2: 249.55 DIA.

M.B. Seaman
BRIDGE ENGINEER

FISCAL YEAR		SHEET TOTAL		JOB NO.		SHEET TOTAL	
STATE	AR.	NO.	OF	NO.	OF	NO.	OF
27	17	17	17	17	17	17	17



NOTE: For Bending Diagrams See Drwg. No. 1453
 For Appr. Details See Drwg. No. 1019 & 1454
 For Pier Details See Drwg. No. 1457
 For Handrail Details See Drwg. No. 1457
 For General Notes See Drwg. No. 1449
 For Details of Drains and Exp. Joints See Drwg. No. 1019

Arch. Span No. 3 for Job #318
 This drawing included in Job #1318
 for reference only.

**DETAILS OF
 ARCH SPAN No. 1
 BRIDGE OVER OUACHITA RIVER**

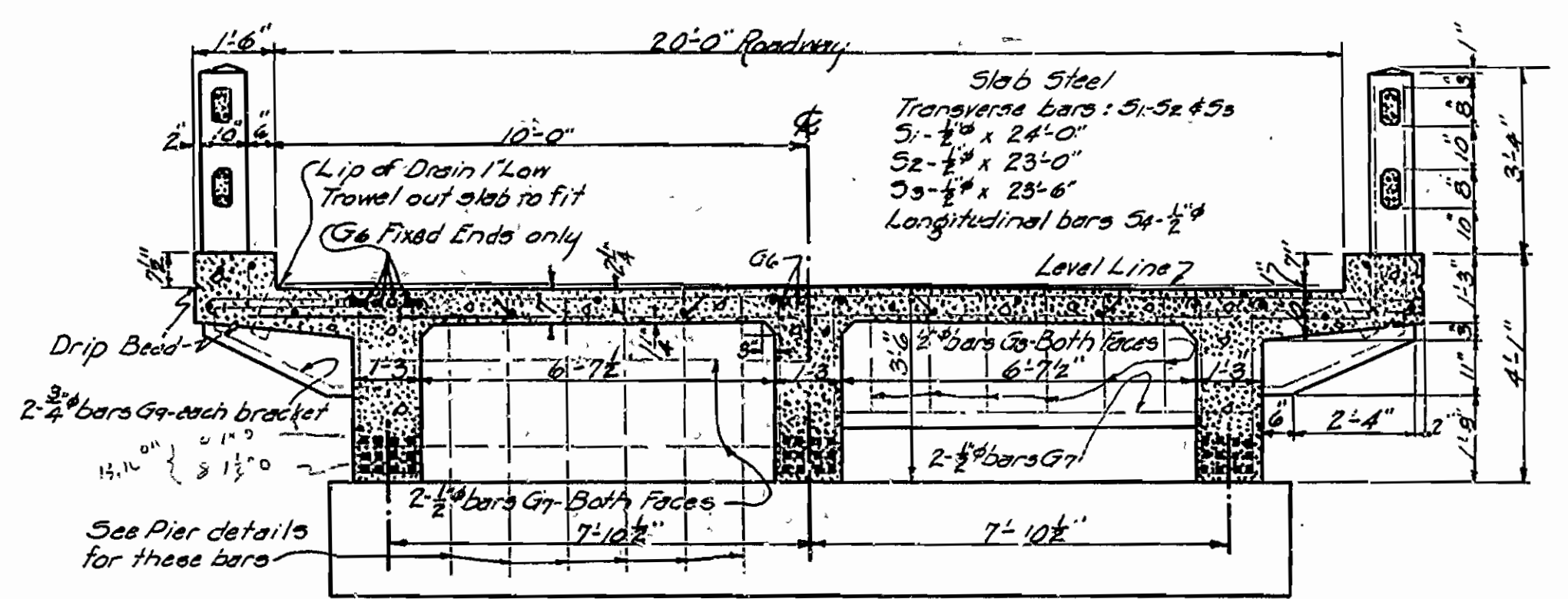
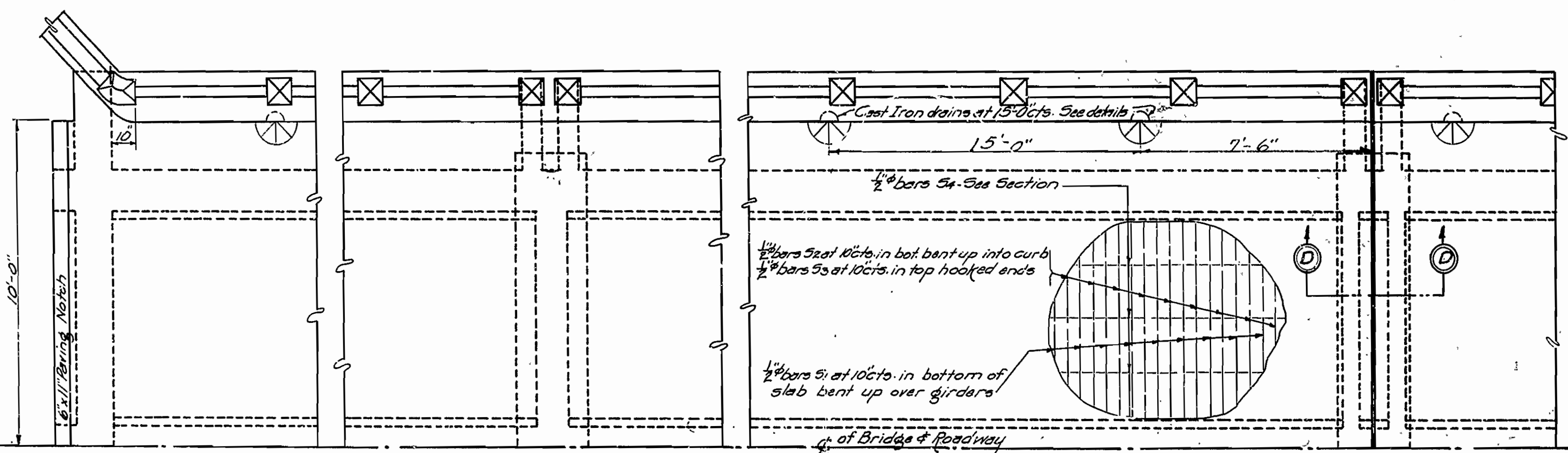
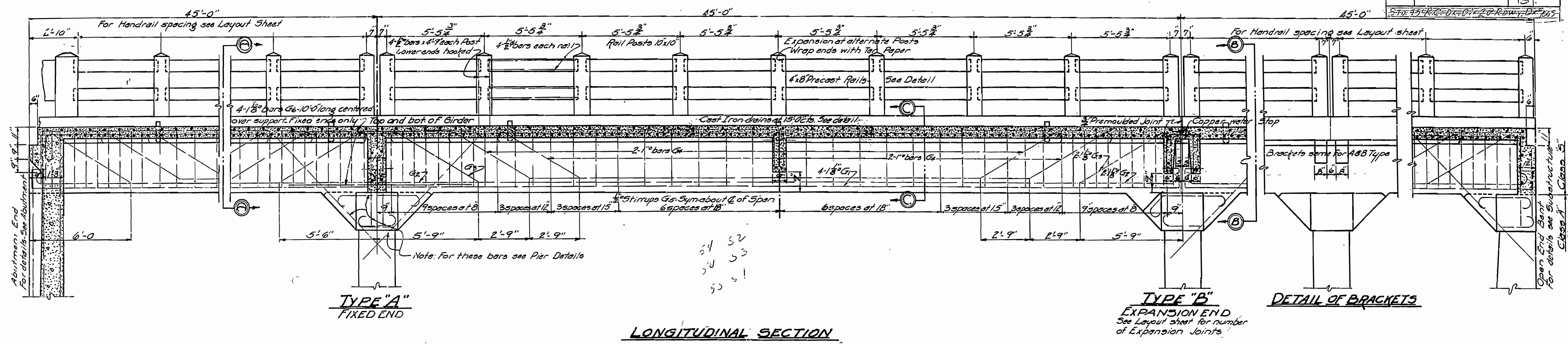
ROUTE 67 SEC. 7
 ARKANSAS STATE HIGHWAY DEPARTMENT
 LITTLE ROCK, ARK.

Drawn By: O.S.V. Date: 2-27-29
 Traced By: E.A.W. Date: 3-2-29
 Checked By: E.O.G. Date: 3-13-29
 Scale: 1/4 in. = 1 ft.
 BRIDGE NO. 662 DRAWING NO. 1451

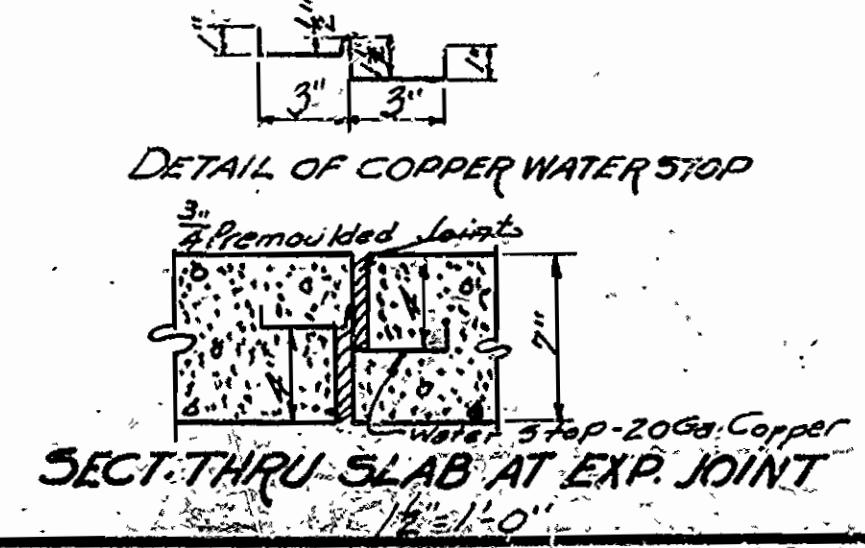
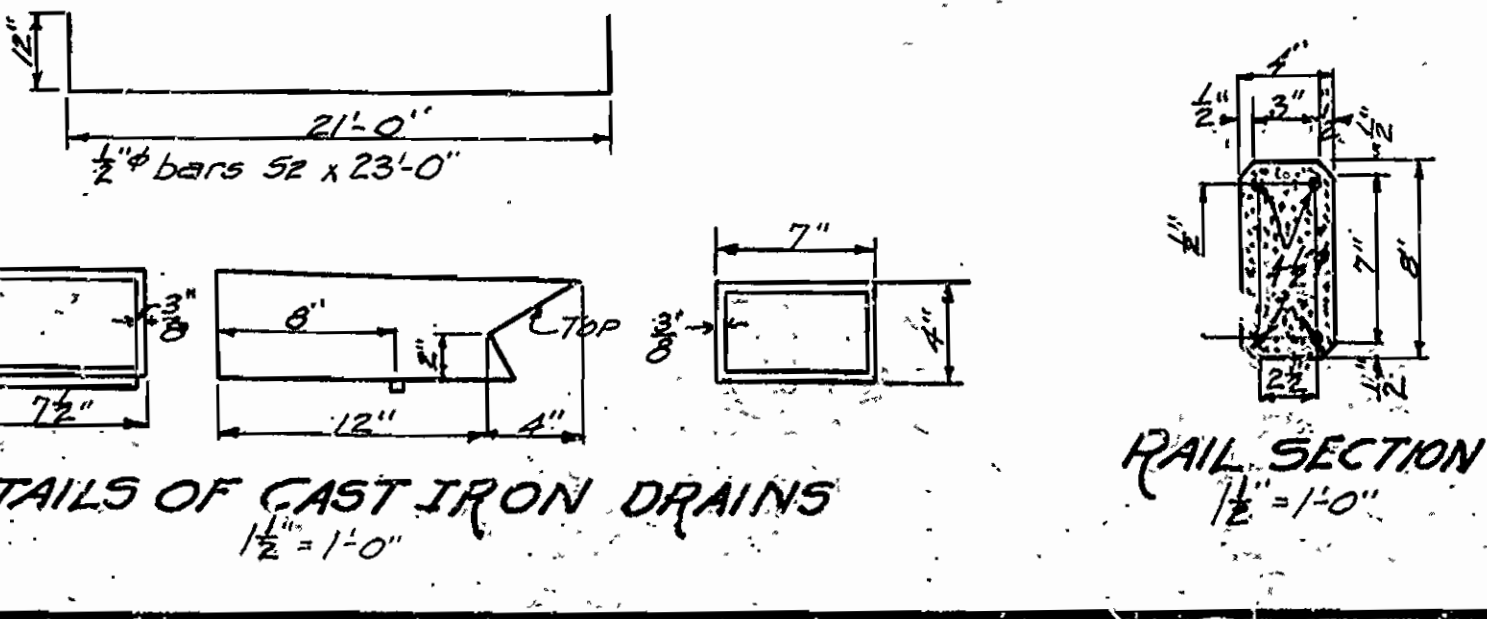
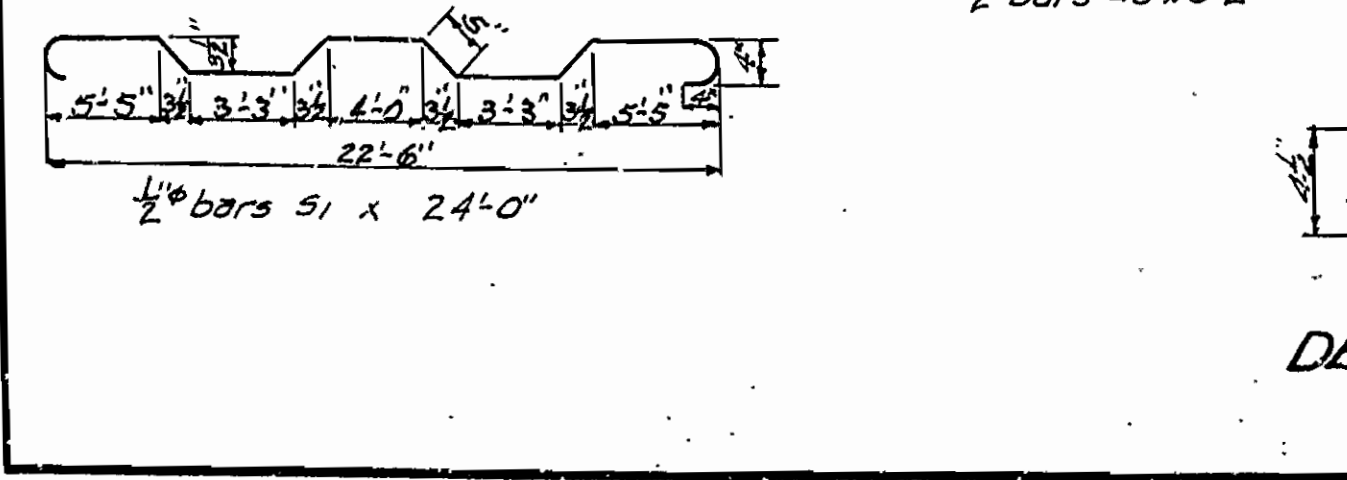
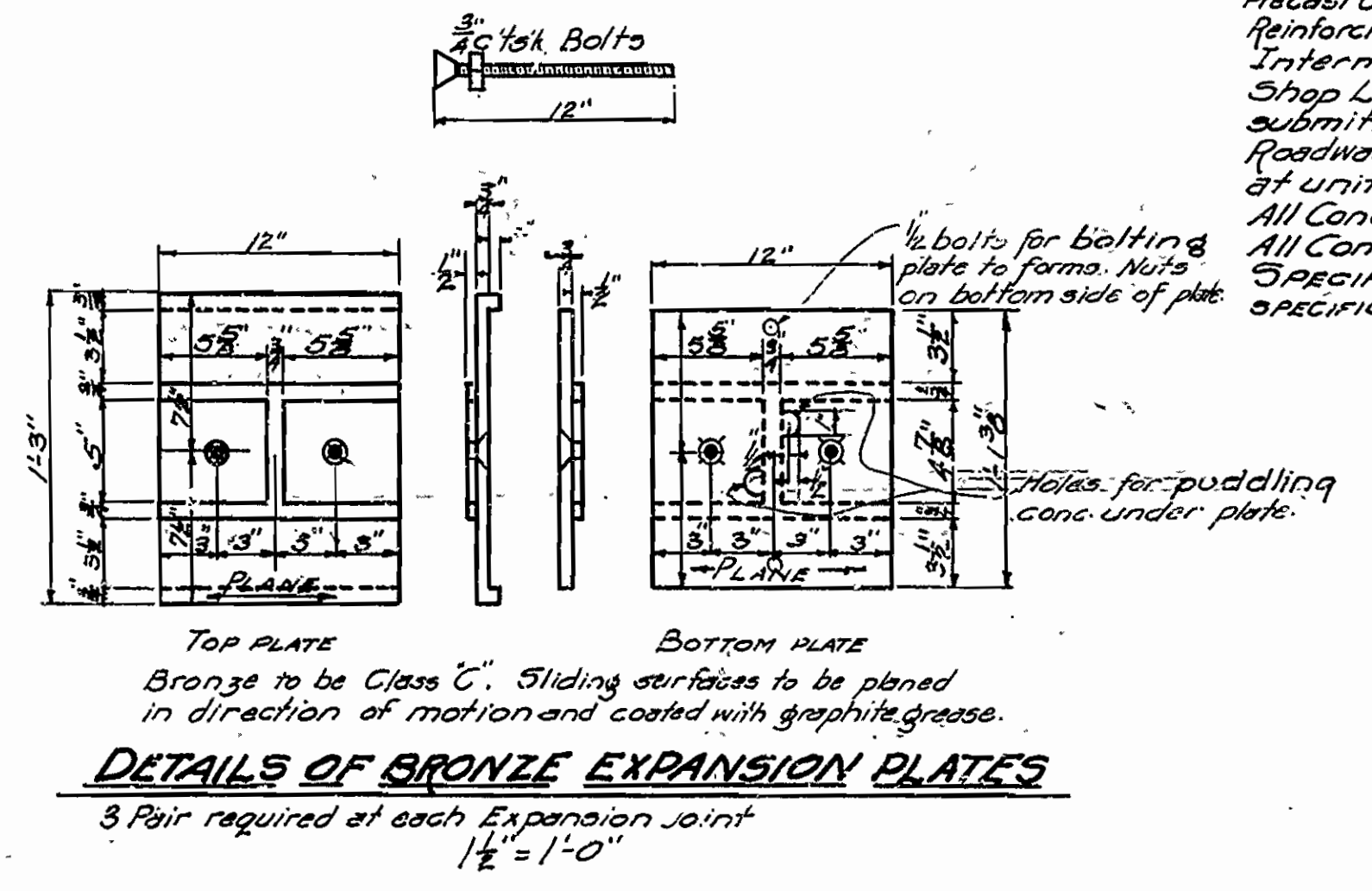
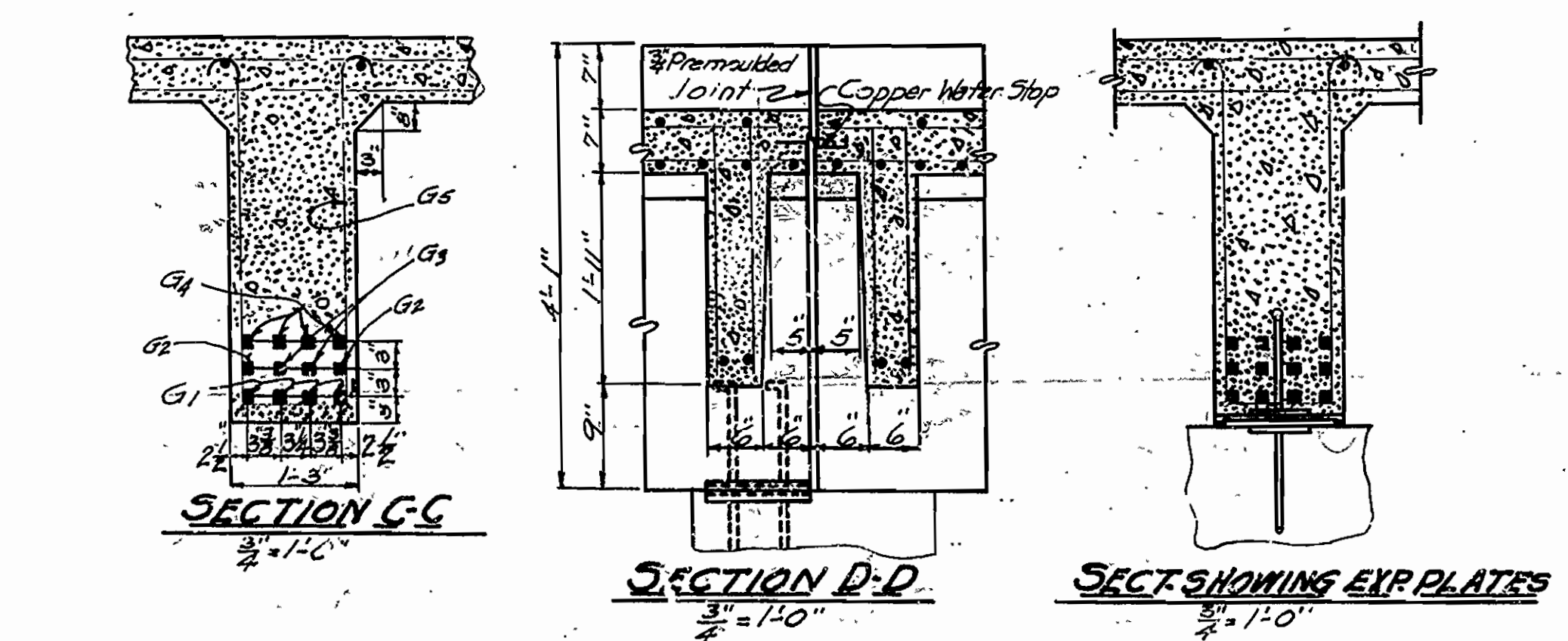
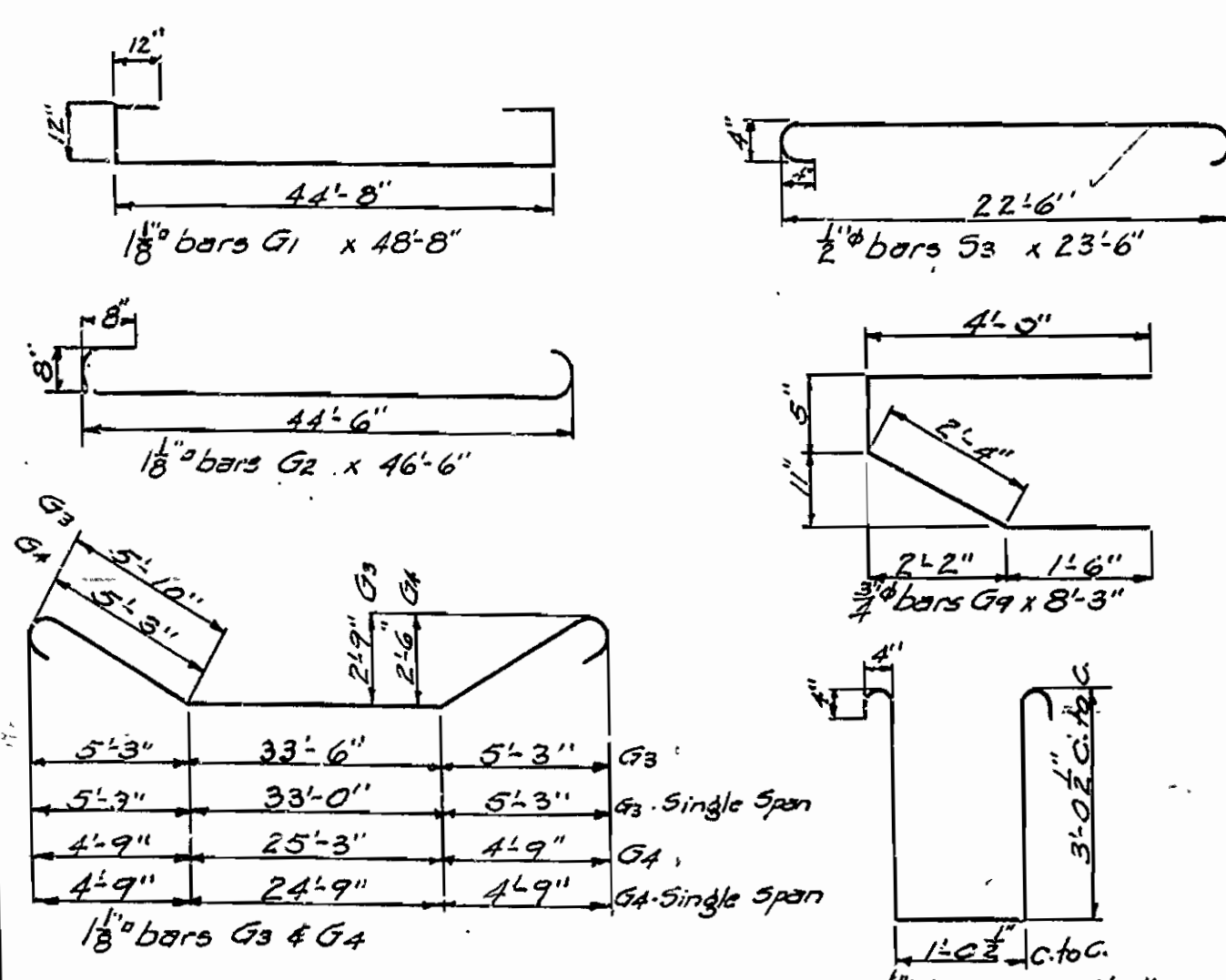
REVISION: R.A.P. No. 3-2-29
 Final Elevation Design

M.B. Lawrence
 BRIDGE ENGINEER

FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	13	



GENERAL NOTE
All exposed corners to have 3/4" chamfer unless otherwise noted.
Precast Concrete Handrails to be 1:2 mix. Max aggregate 5/8".
Reinforcing Steel to be deformed bars of Structural or Intermediate Grade.
Shop List and Bending Diagrams of Steel must be submitted by the Contractor before fabrication is begun.
Roadway Drains and Expansion Devices to be paid for at unit price bid for Reinforcing Steel.
All concrete except Handrails to be Class "S".
All concrete to be poured in the dry.
SPECIFICATIONS - ARKANSAS STANDARD ROAD AND BRIDGE SPECIFICATIONS ADOPTED MAY 30, 1925 AND REVISORS.



Revised G6 Bars added to Bottom of Girders
New Exp. Pl. Bolts 3/8" x 12"

Revised drain spacing 2'-0" on
bolts in parapets 3'-0" on
drains on 4'-0" on
expansion joint end. 11/13/22

DETAILS
STANDARD 45" R.C. DECK GIRDER
20'-0" ROADWAY
ARKANSAS STATE HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.

Drawn By: *Asst. Engr.* Date: 1/11/22
Traced By: *Engr.* Date: 1/11/22
Checked By: *Engr.* Date: 1/11/22

Scale: 3/4" = 1'-0"
Except as noted

BRIDGE NO. *1005* DRAWING NO. *1005*

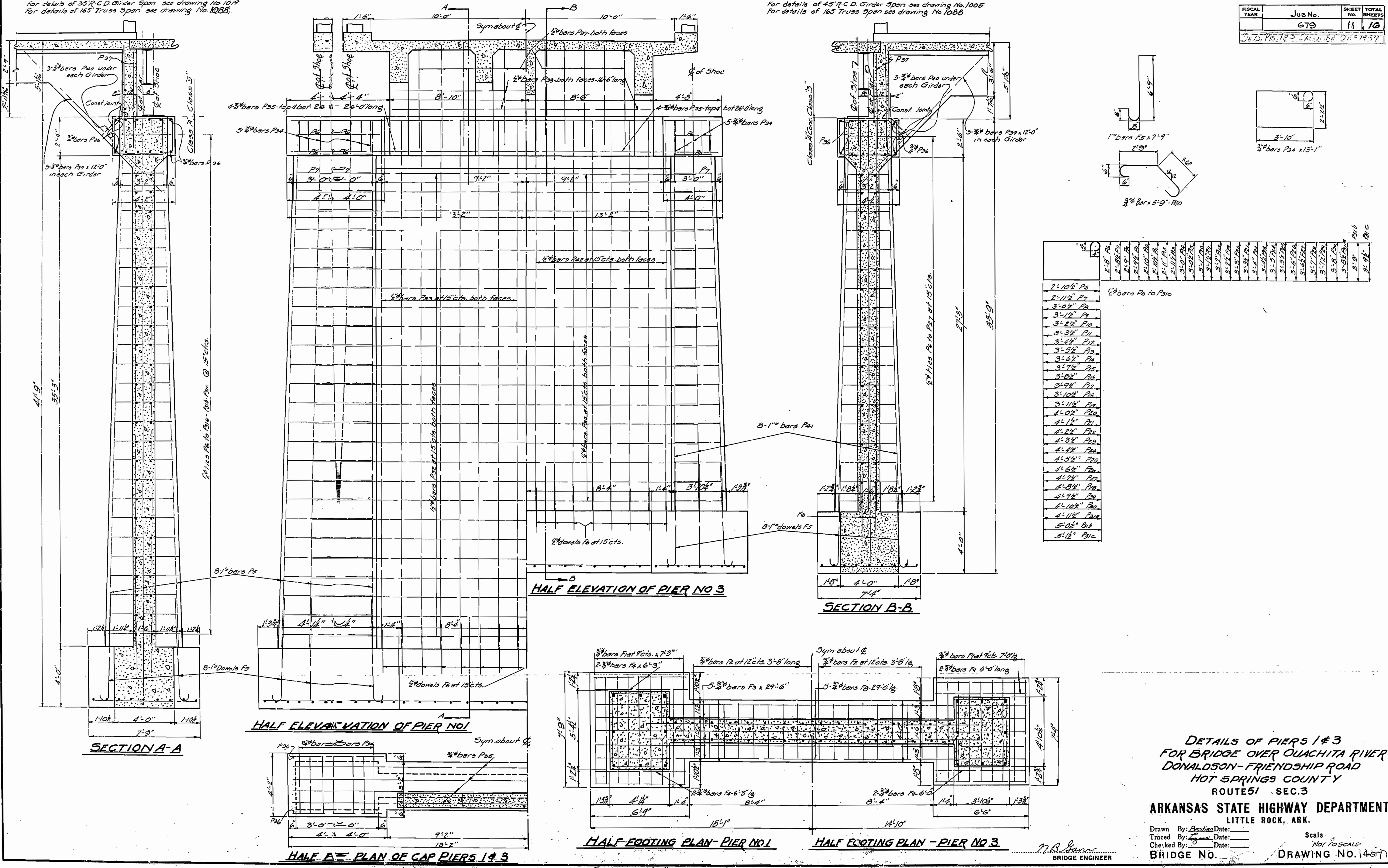
Ok. 10.11.22

For details of 35' R.C.D. Girder Span see drawing No. 1019
For details of 165' Truss Span see drawing No. 1028.

For details of 45' R.C.D. Girder Span see drawing No. 1005
For details of 165' Truss Span see drawing No. 1028.

FISCAL YEAR	JOB No.	SHEET No.	TOTAL SHEETS
	679	11	16

Job No. 123-24-1-18 DR# 1437



2'-10 1/2" P6	1" bars P6 to P31c
2'-11 1/2" P7	
3'-0 1/2" P8	
3'-1 1/2" P9	
3'-2 1/2" P10	
3'-3 1/2" P11	
3'-4 1/2" P12	
3'-5 1/2" P13	
3'-6 1/2" P14	
3'-7 1/2" P15	
3'-8 1/2" P16	
3'-9 1/2" P17	
3'-10 1/2" P18	
3'-11 1/2" P19	
4'-0 1/2" P20	
4'-1 1/2" P21	
4'-2 1/2" P22	
4'-3 1/2" P23	
4'-4 1/2" P24	
4'-5 1/2" P25	
4'-6 1/2" P26	
4'-7 1/2" P27	
4'-8 1/2" P28	
4'-9 1/2" P29	
4'-10 1/2" P30	
5'-0 1/2" P31a	
5'-1 1/2" P31c	

DETAILS OF PIERS 1 & 3
FOR BRIDGE OVER OUACHITA RIVER
DONALDSON-FRIENDSHIP ROAD
HOT SPRINGS COUNTY
ROUTE 51 SEC. 3

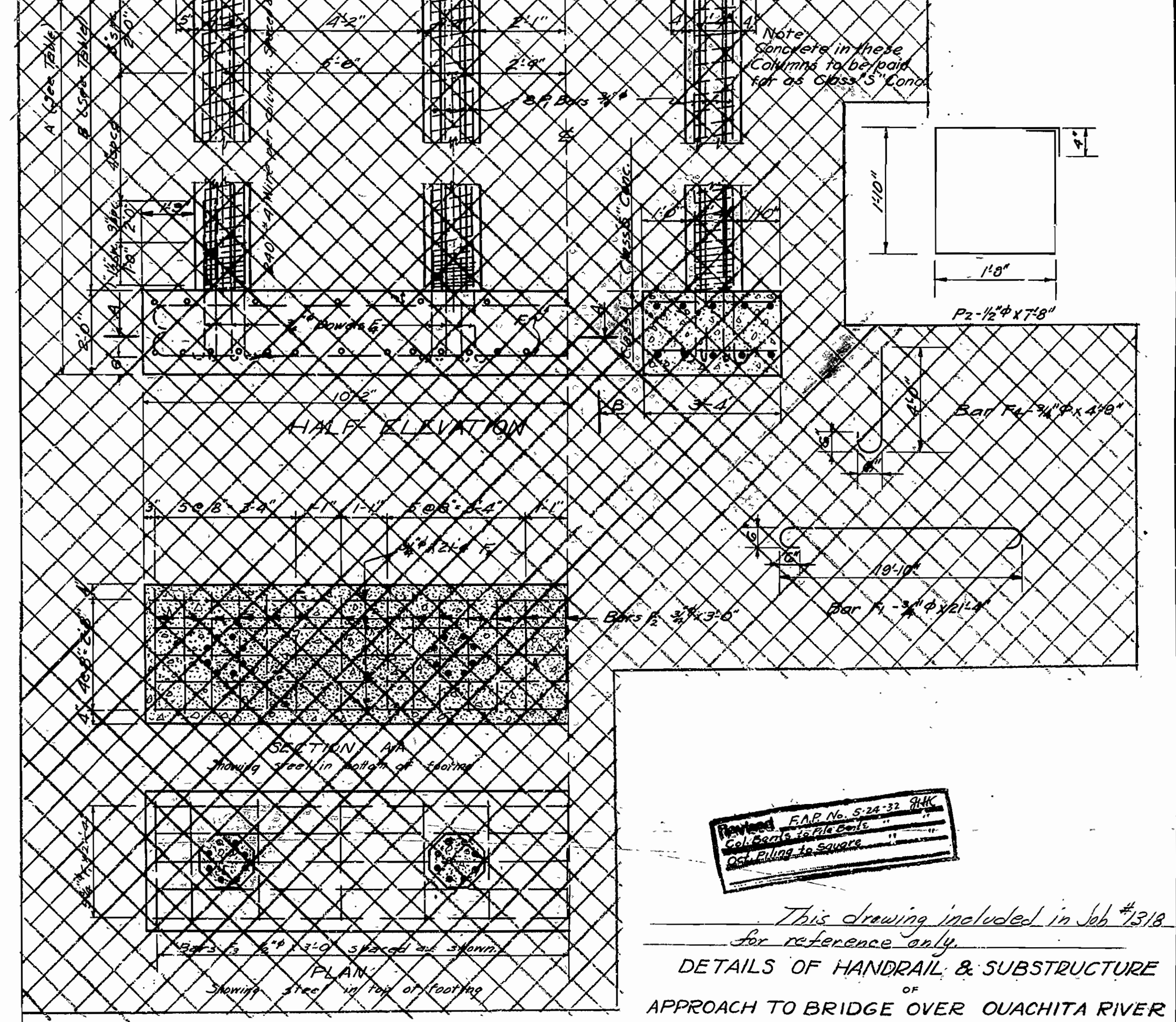
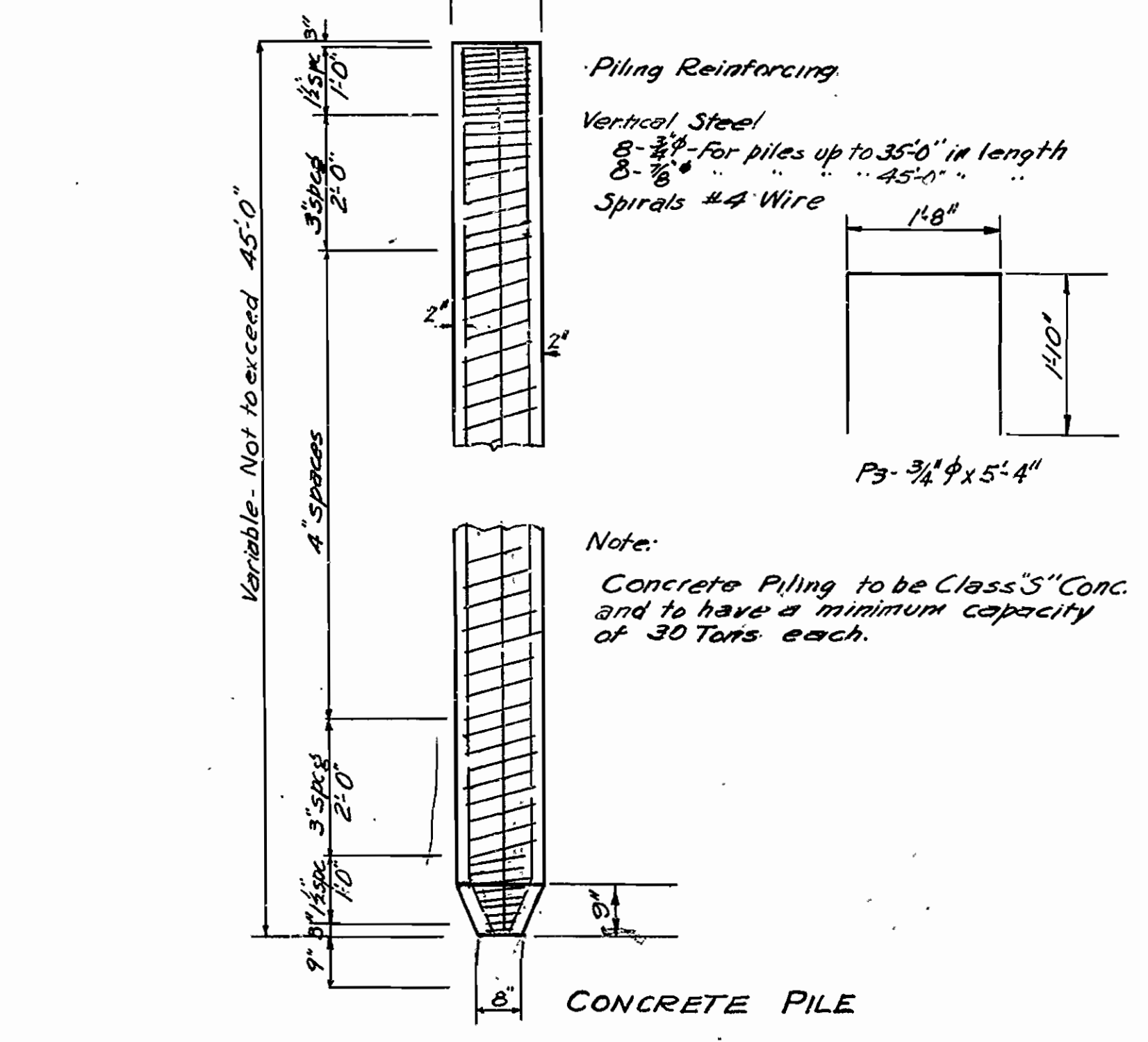
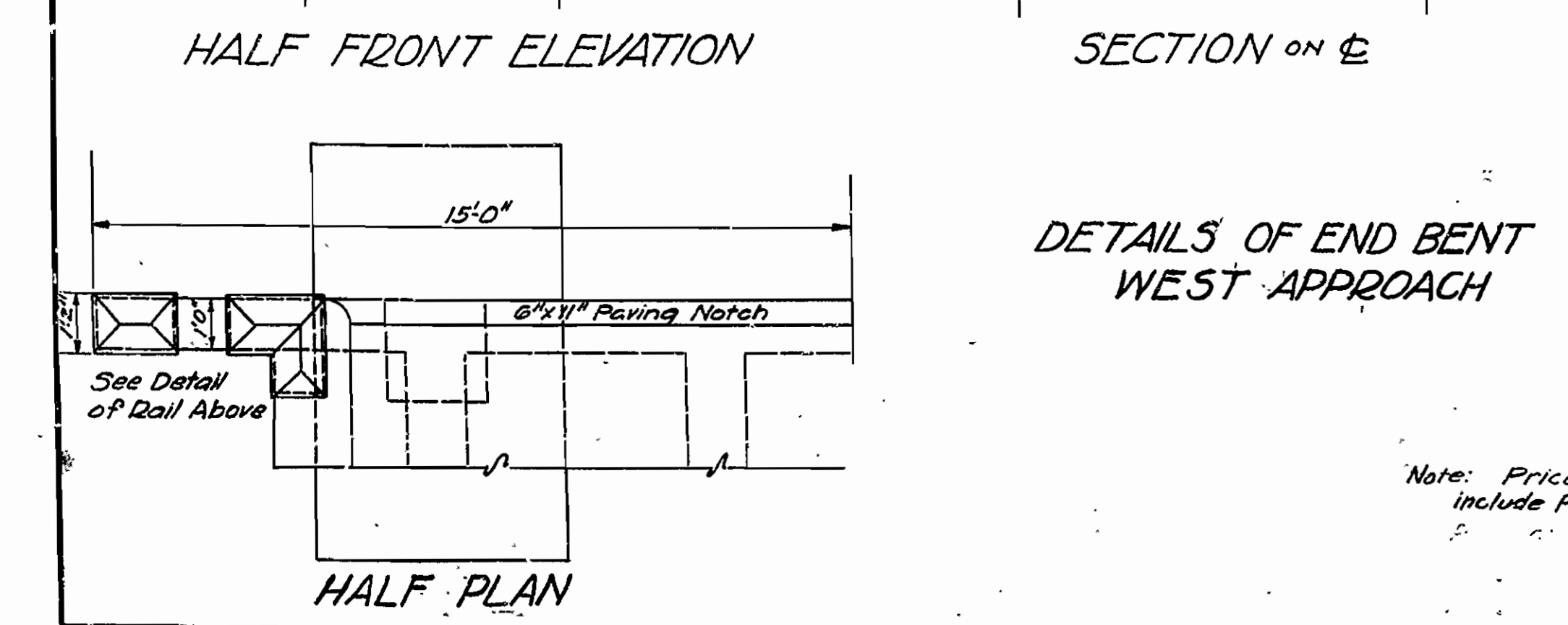
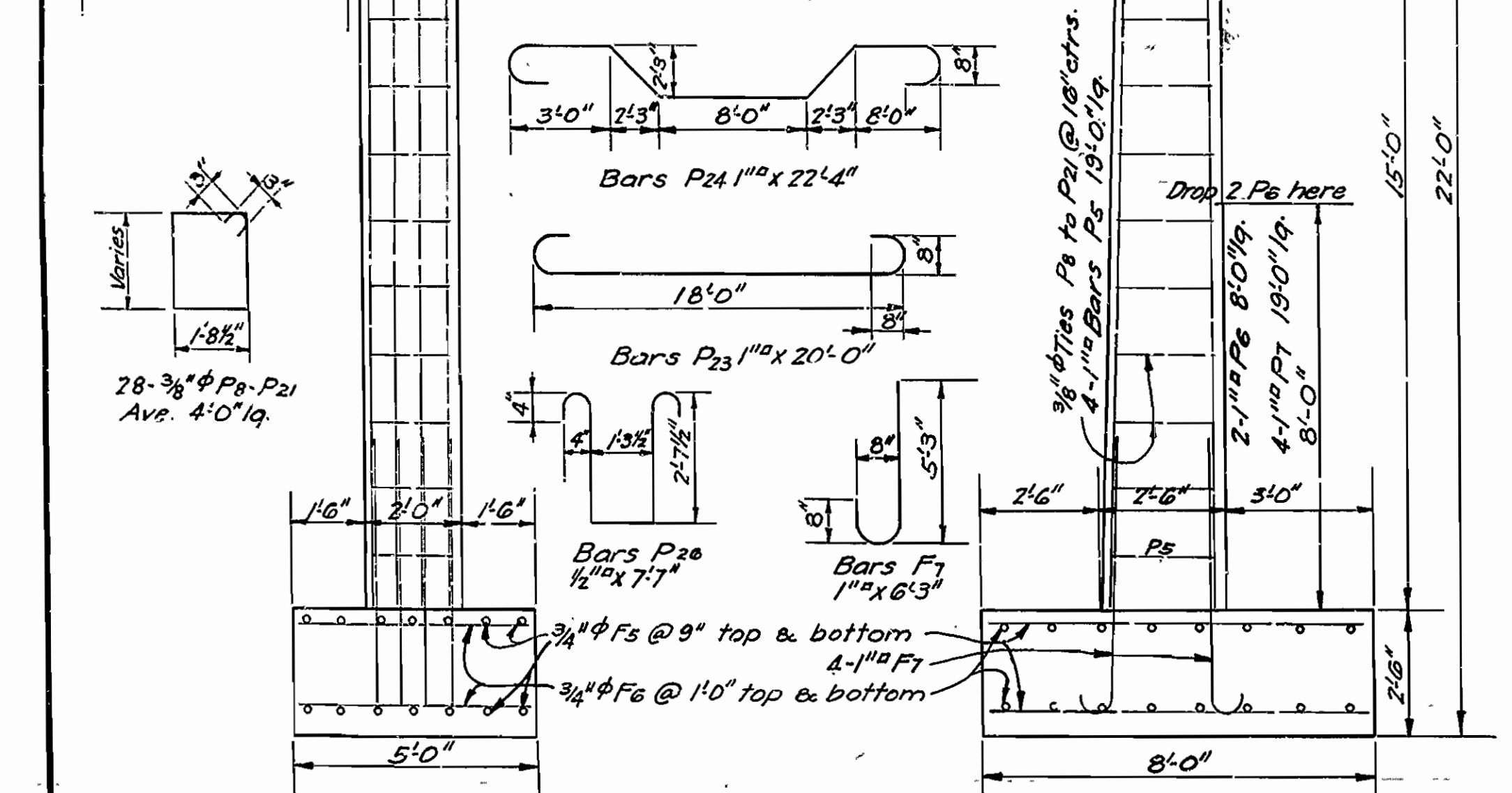
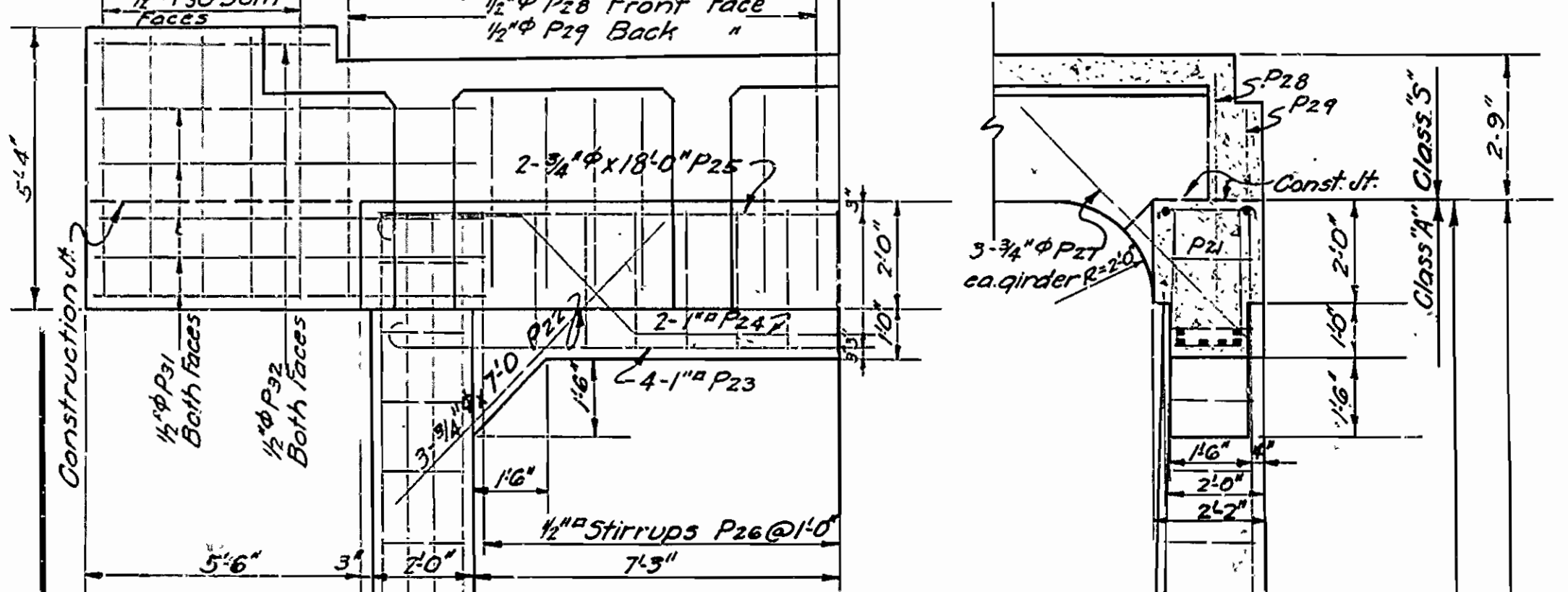
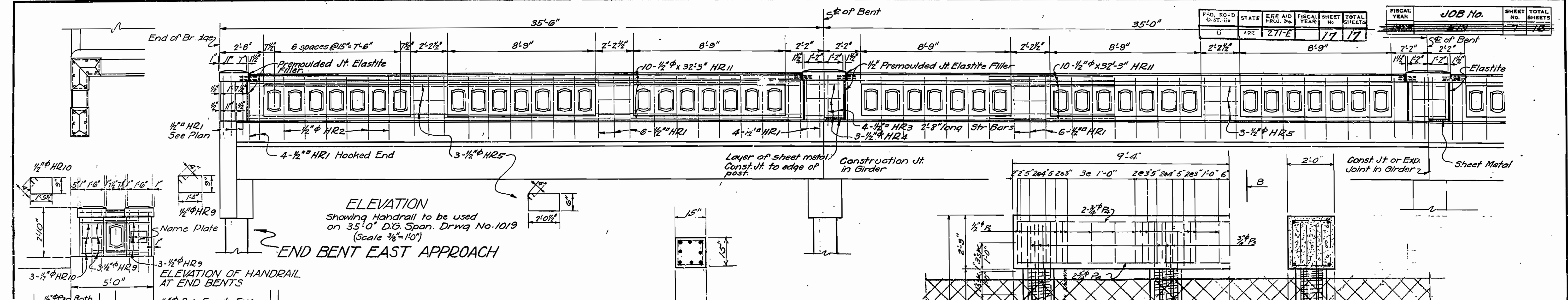
ARKANSAS STATE HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.

Drawn By: *B. J. [Signature]* Date: _____
Traced By: _____ Date: _____
Checked By: _____ Date: _____
BRIDGE NO. _____ SCALE: NOT TO SCALE
DRAWING NO. 1457

B. J. [Signature]
BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE	EXP. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
0	ARK.	Z71-E	77	17	17

FISCAL YEAR	JOB No.	SHEET No.	TOTAL SHEETS
77	663	17	17



Gen Notes
All exposed corners to have 3/4" chamfer unless noted.
All concrete to be poured in the dry.
Reinforcing Steel to be deformed bars of structural or intermediate grade.
Shop list and bending diagrams of steel must be submitted before fabrication is begun.

Note: Price bid for Precast Concrete Piling shall include Payment for Reinforcing Steel.

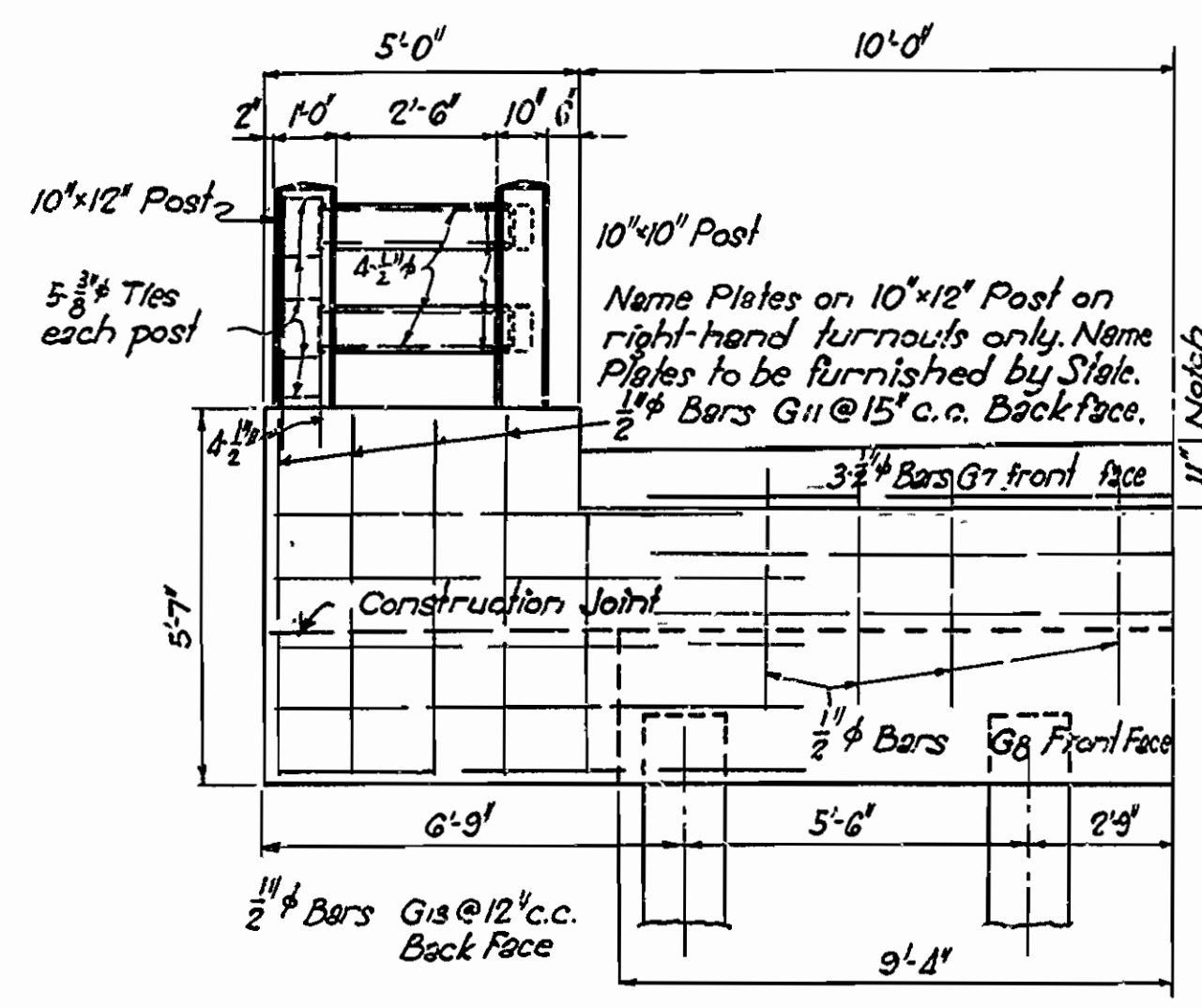
Approved: E.A.P. No. 5-28-32
Checked: P.L.C. No. 1-3-29
Date: 1-3-29

This drawing included in Job #318 for reference only.
DETAILS OF HANDRAIL & SUBSTRUCTURE OF APPROACH TO BRIDGE OVER OUACHITA RIVER HOT SPRING COUNTY

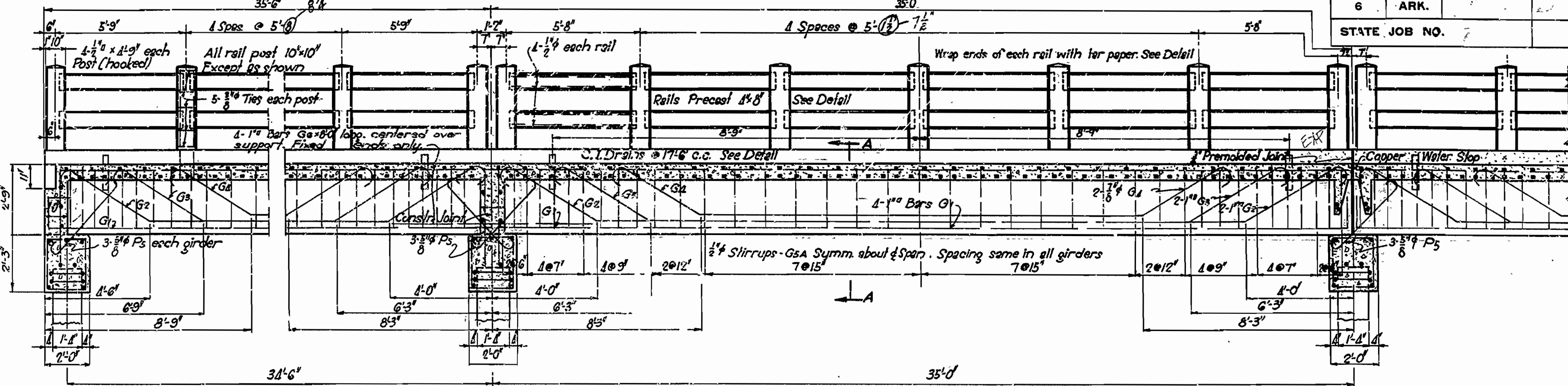
ROUTE 67 SEC. 7
ARKANSAS STATE HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.
Scale: 1/2" = 1'-0"
BRIDGE NO. 663 DRAWING NO. 1454

W.B. Seaman
BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE :	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.				
STATE JOB NO. 7					



BACK FACE OF END BENT

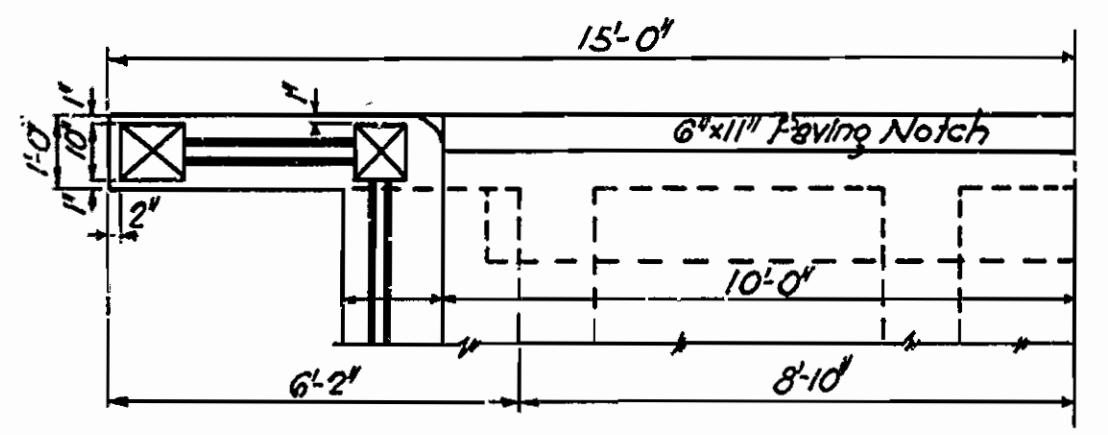


LONGITUDINAL SECTION

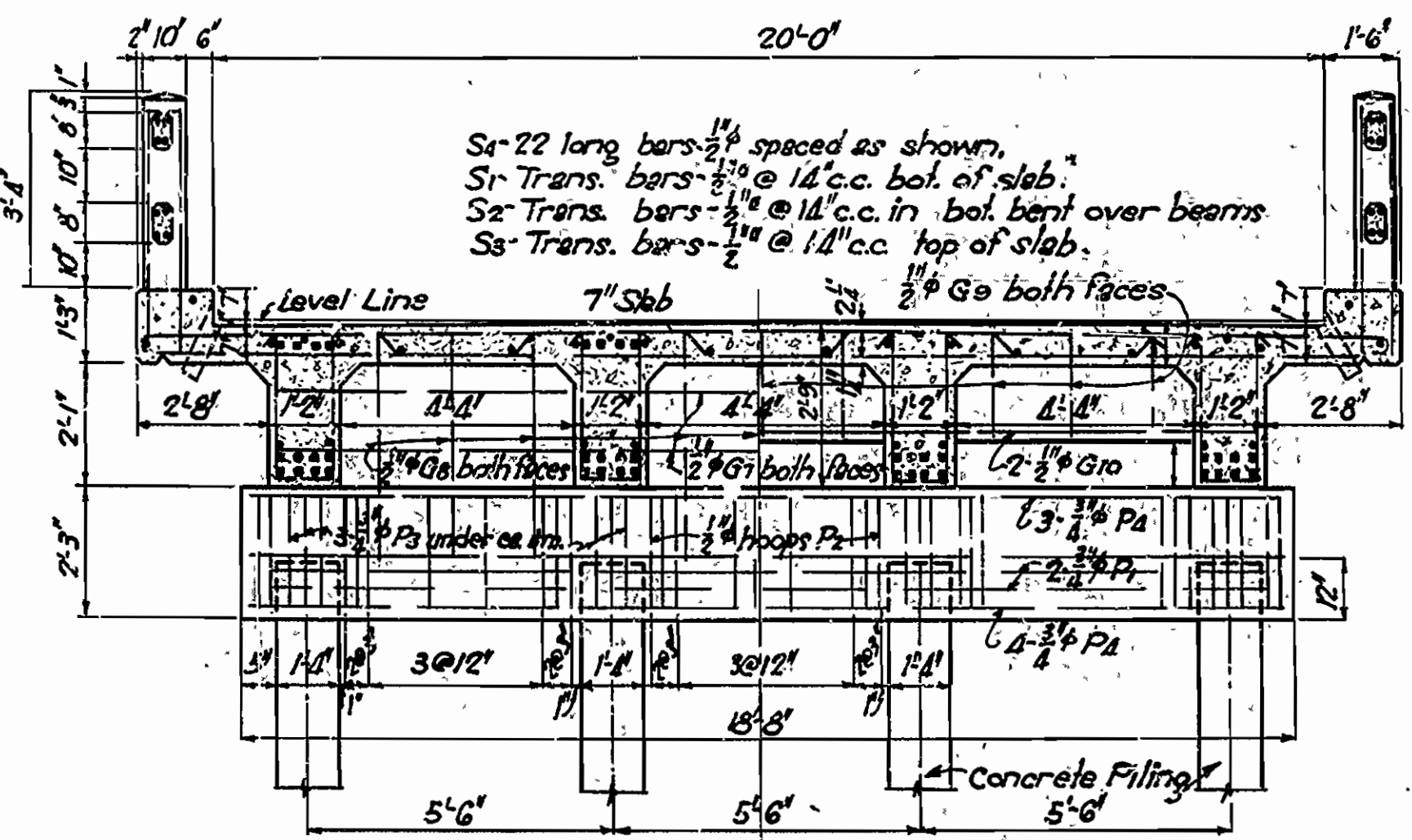
END BENT

INT. BENT (FIXED)

INT. BENT (EXPANSION)

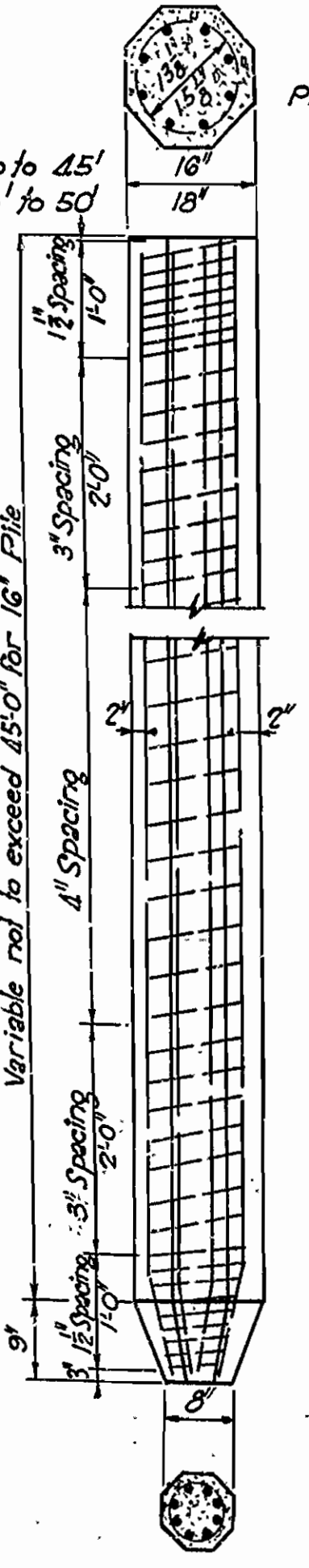


HALF PLAN OF END BENT



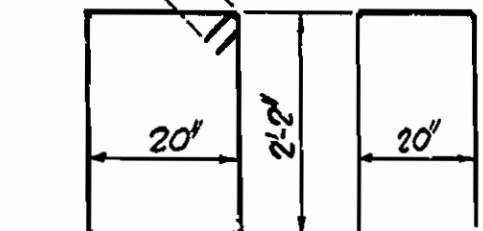
HALF SECT. AT FIXED BENTS HALF SECT. AT EXP. BENTS

Piling Reinforcing
Vert. 8-3/4 up to 35' in length. 3-7/8 from 35' to 45' in length. Spiral 1" wire 3-1/4 from 45' to 50'.

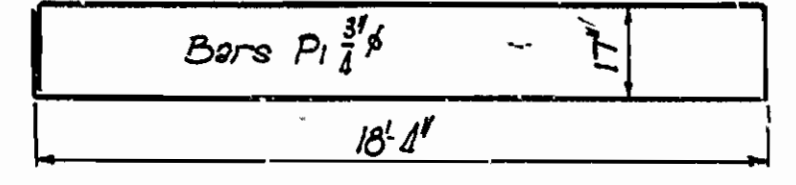


DETAIL OF CONCRETE PILE

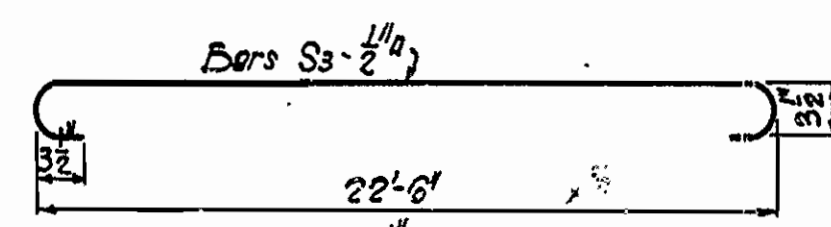
SECTION OF RAIL



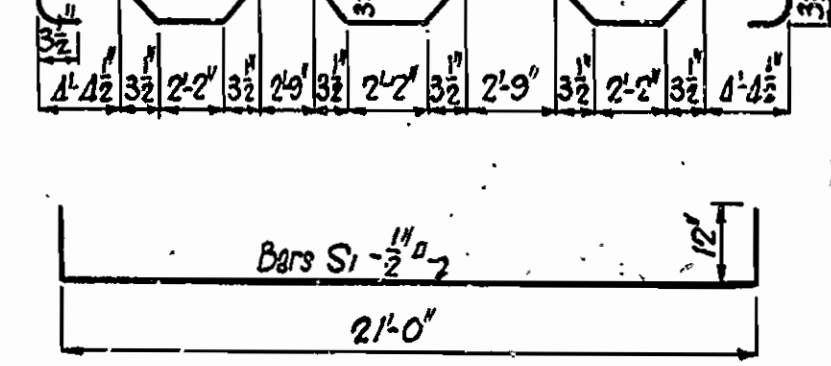
BARS P2 1/2 BARS P3 3/4



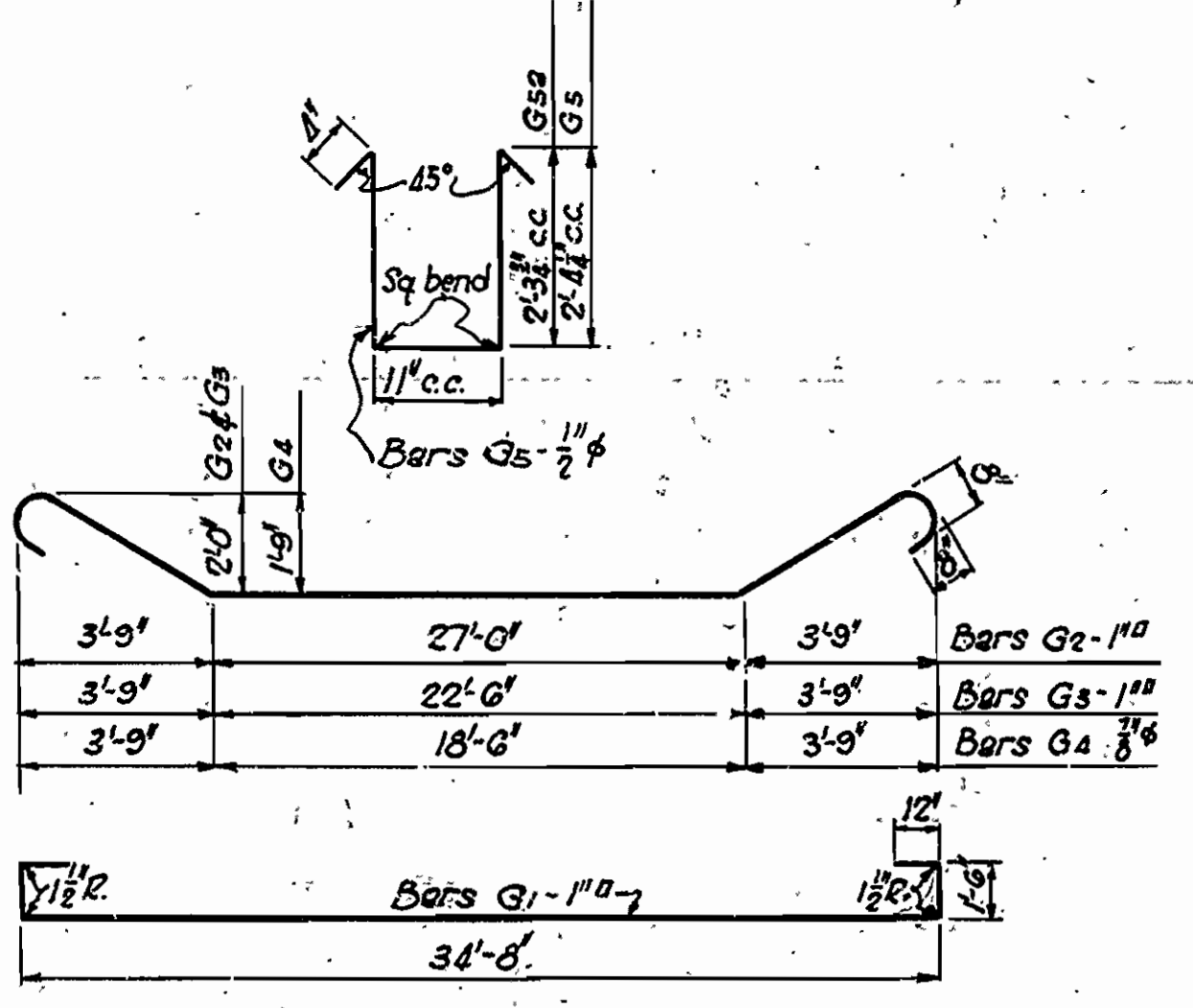
CAP STEEL



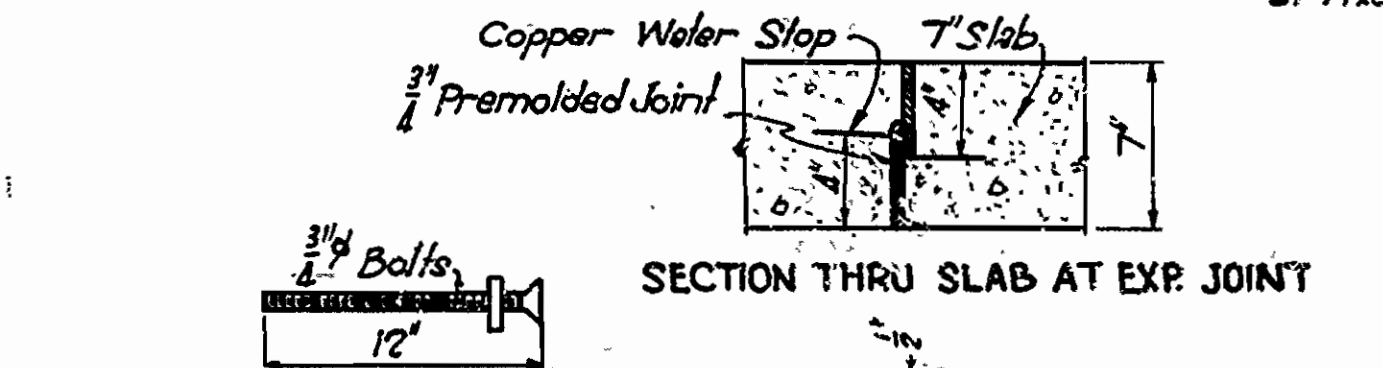
BARS S2 1/2 BARS S3 1/2



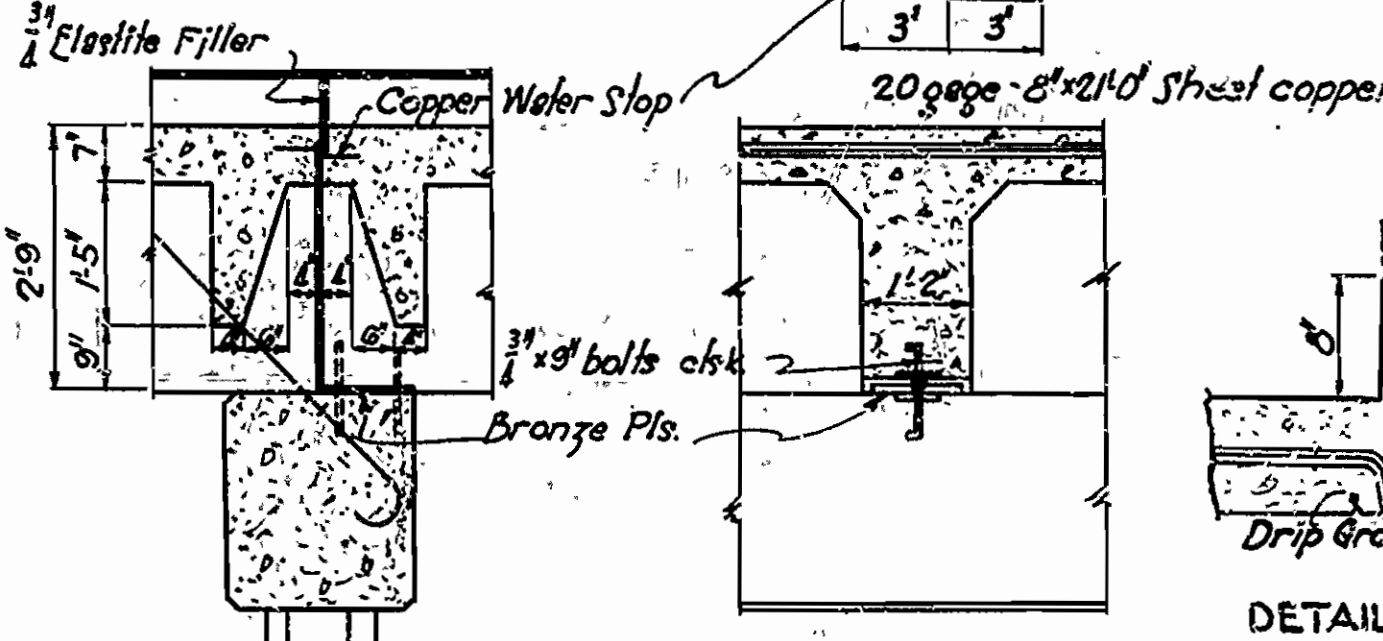
SLAB STEEL



GIRDER STEEL

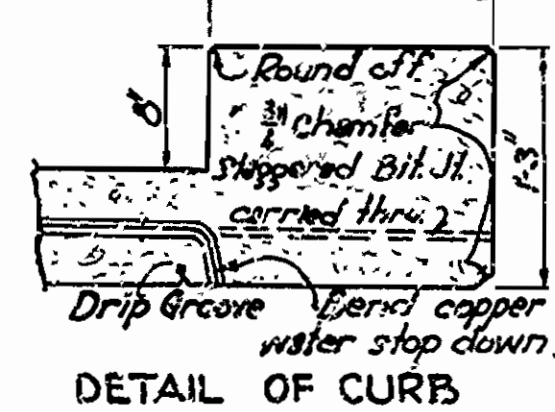


SECTION THRU SLAB AT EXP. JOINT



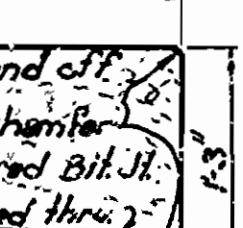
SEC. SHOWING EXP. DETAILS

SEC. SHOWING EXP. PLATES

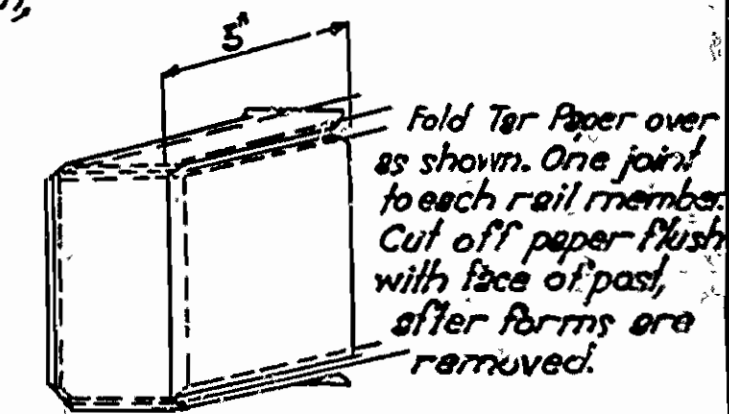


DETAIL OF CURB

SECTION A-A



DETAIL OF EXPANSION JOINT FOR RAIL MEMBER



DETAIL OF EXPANSION JOINT FOR RAIL MEMBER

GENERAL NOTES
All exposed corners to have 3/4" chamfer unless otherwise noted.
Precast Concrete Handrails to be 1-1-2 mix. Maximum aggregate 3/4".
Concrete piling to be Class 'S', and to have a minimum capacity of 30 tons each.
Reinforcing Steel to be deformed bars of Structural or Intermediate Grade, Shop list and bending diagrams of steel must be submitted by Contractor before fabrication is begun.
Roadway Drains and Expansion Devices to be bid for at the unit price bid for Reinforcing Steel.
All concrete except handrails to be Class 'S'.
All concrete to be poured in the dry.
Payment for reinforcement in concrete Piling shall be included in the price bid for Piling.
Specifications: Arkansas Standard Road and Bridge Specifications adopted May 30th, 1925, and revised.

Revised: 6-30 Bars added to bottom of Girders. Exp. plate bolts changed. 9/23/29 G.A.
GENERAL REV. 4-10-30. F.P.B.

**DETAILS
STANDARD 35' R.C. DECK GIRDER
AND
CONCRETE PILE BENTS**

20'-0" ROADWAY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: H.S.B. Date: 6-16-28
Re-Traced By: R.B.D. Date: 11-26-31
Checked By: _____ Date: _____

Scale: 3/8" = 1' - 0"

BRIDGE NO. _____ DRAWING No. 1019

M.B. Leaman
BRIDGE ENGINEER

EXPANSION PLATES
Sliding surfaces to be coated with graphite grease.

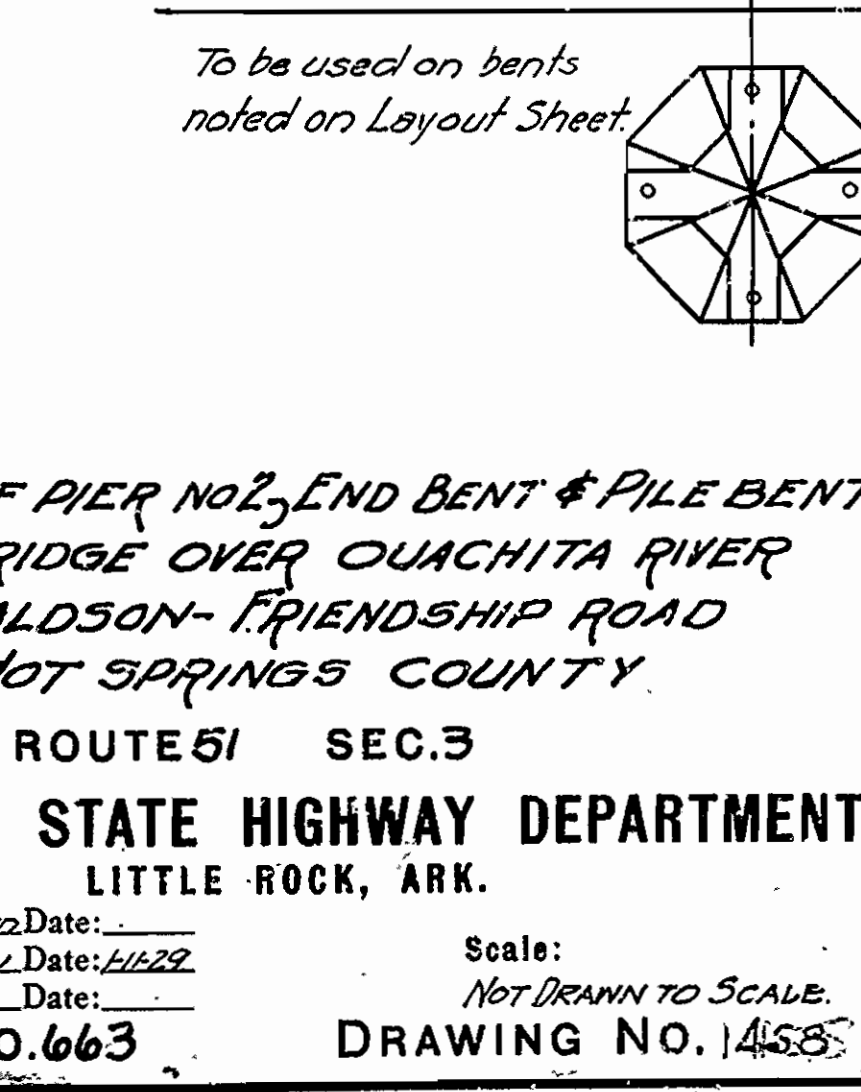
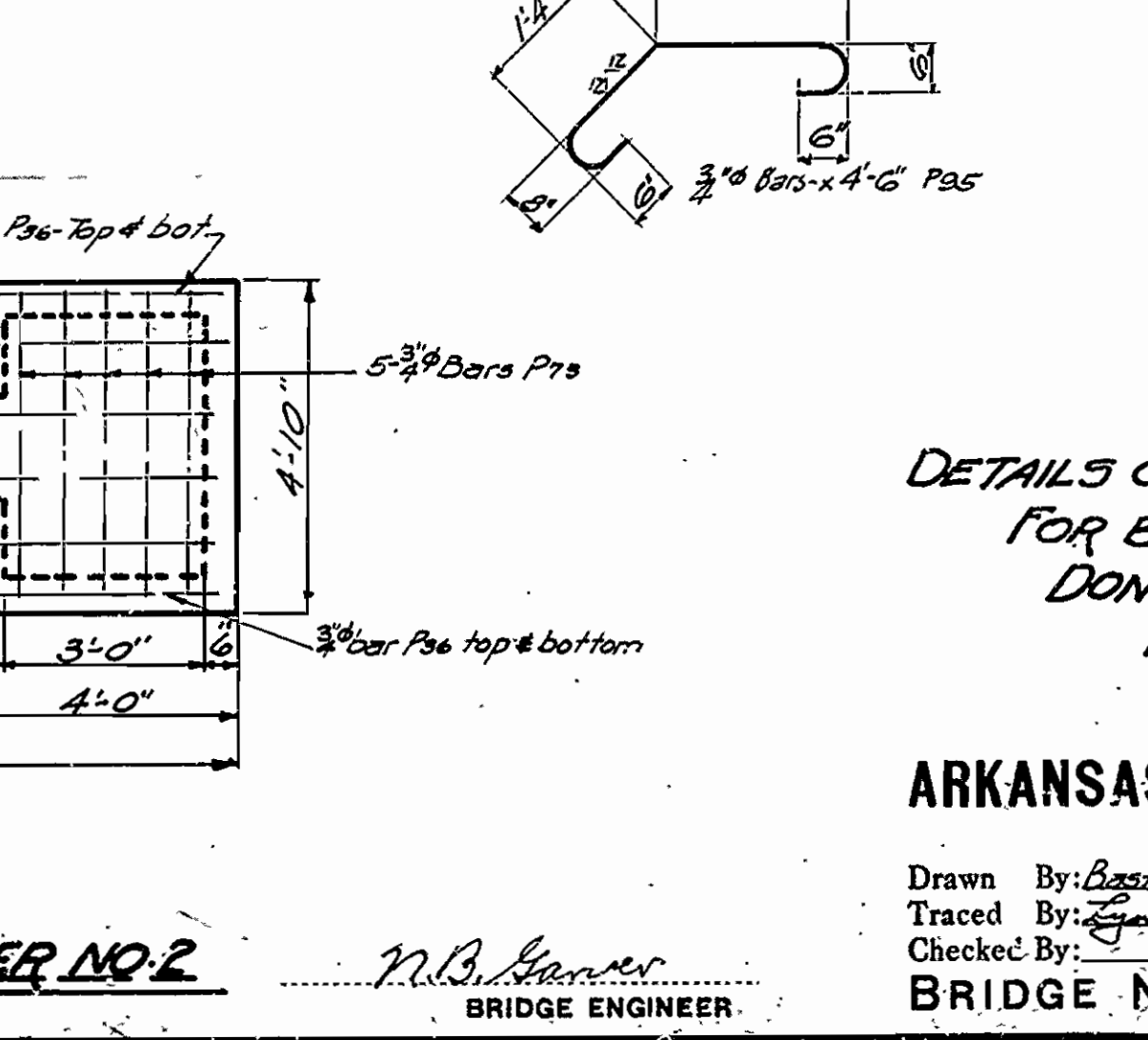
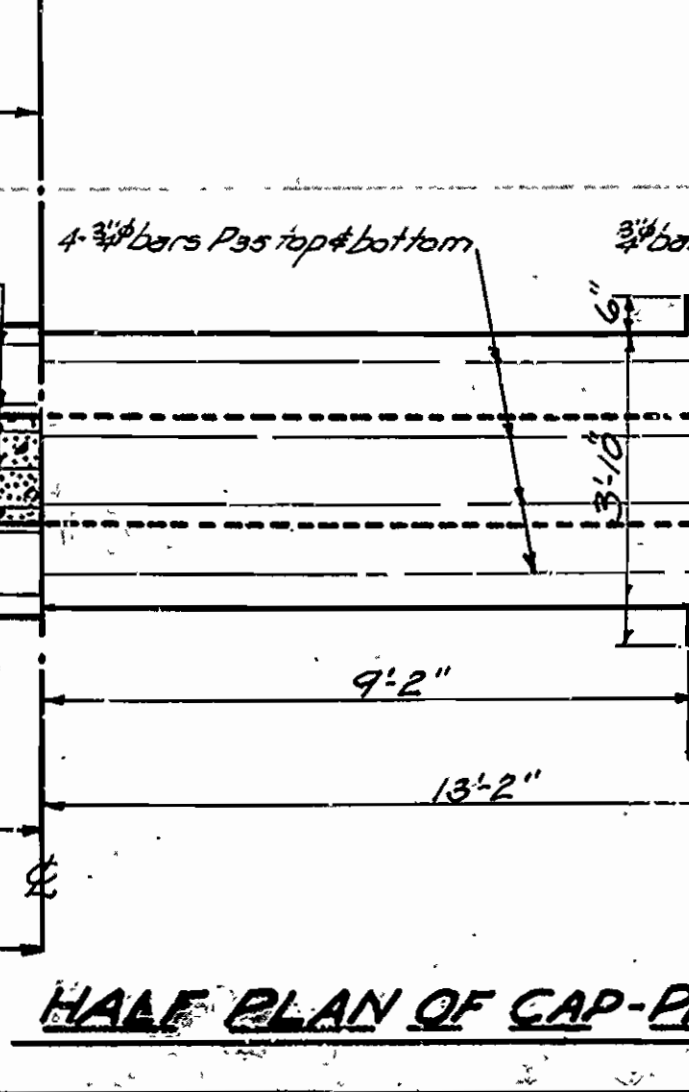
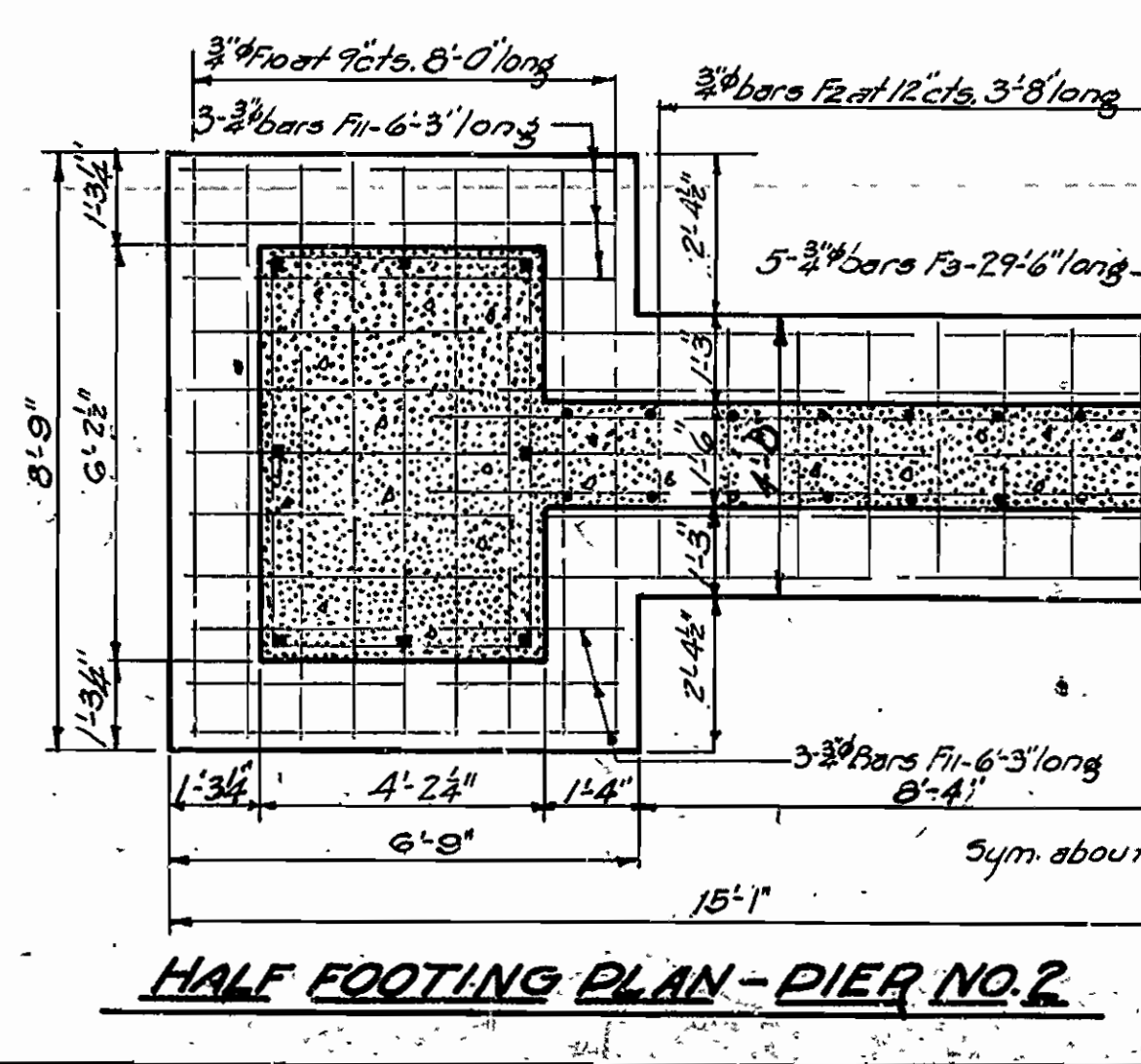
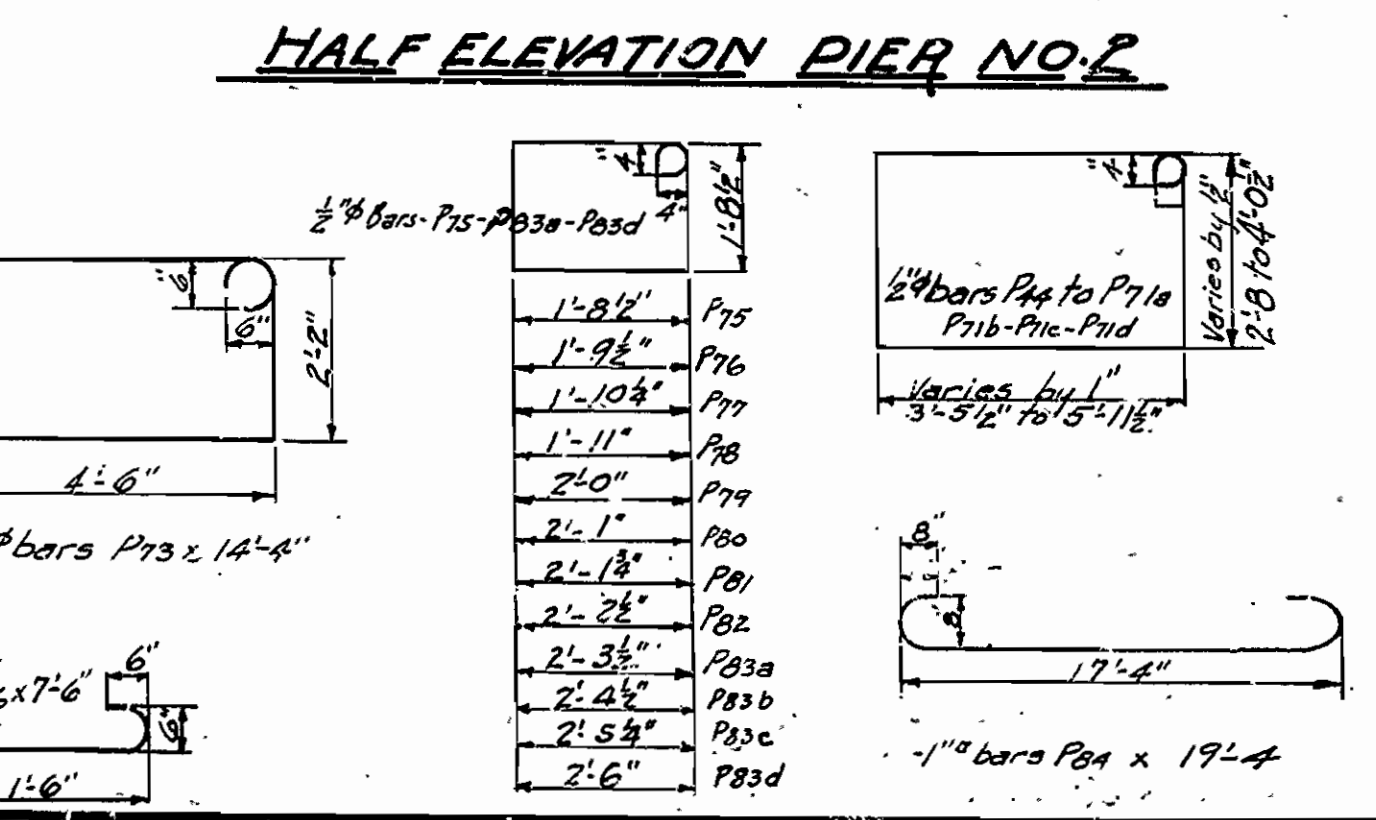
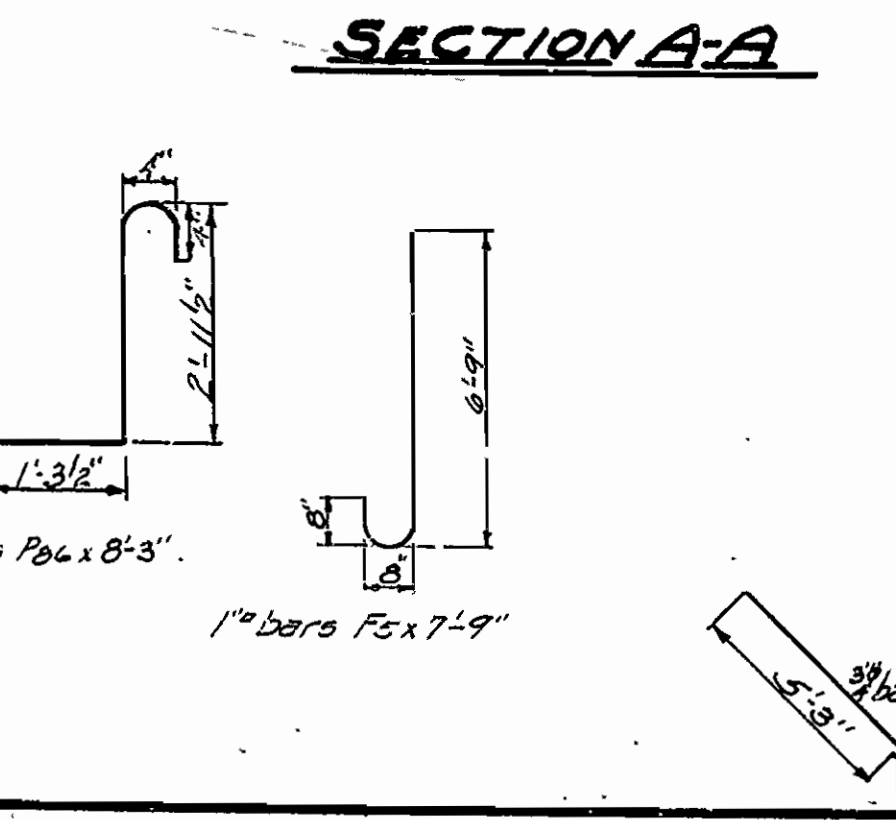
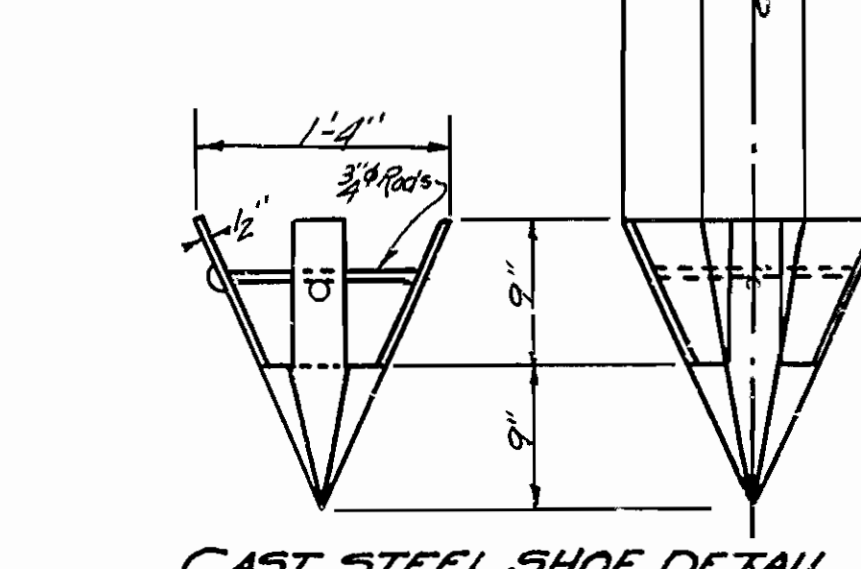
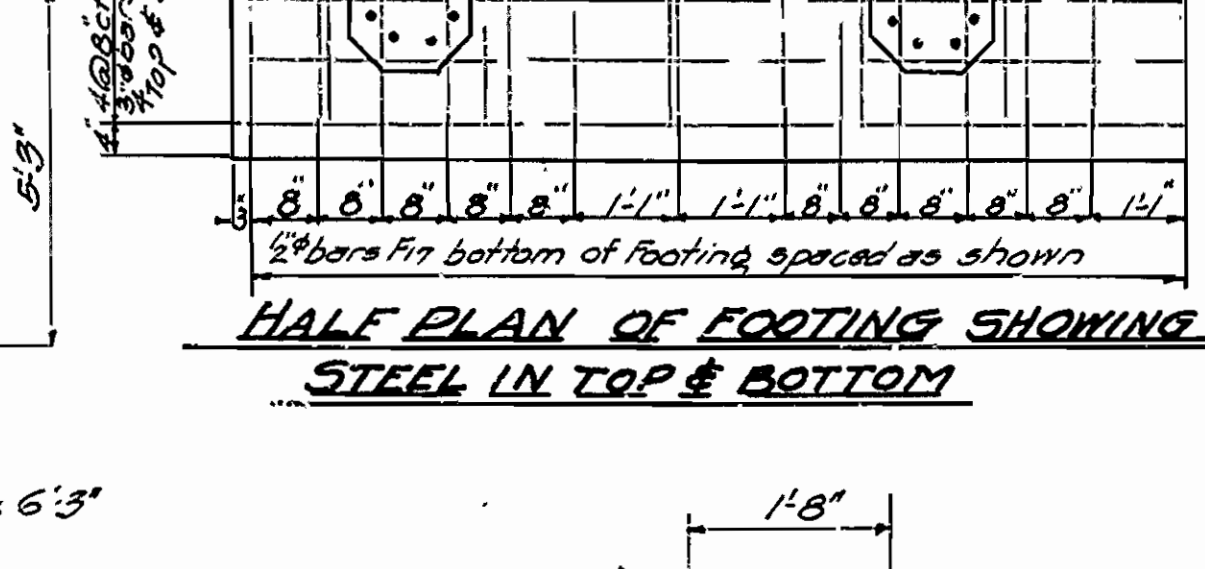
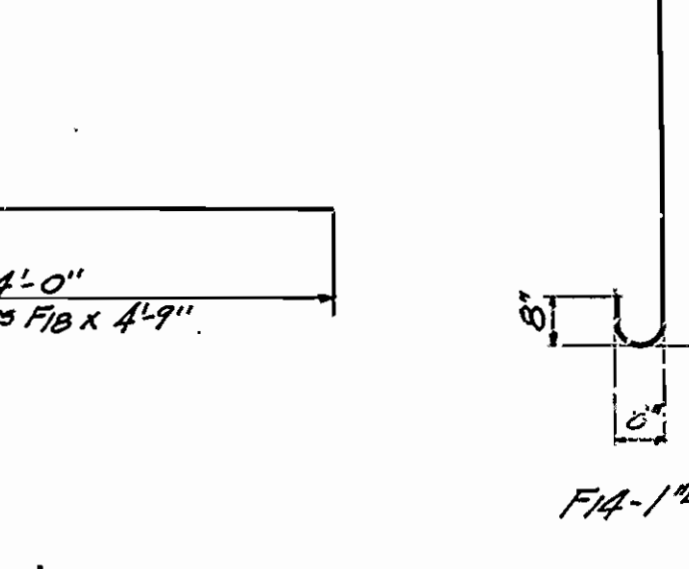
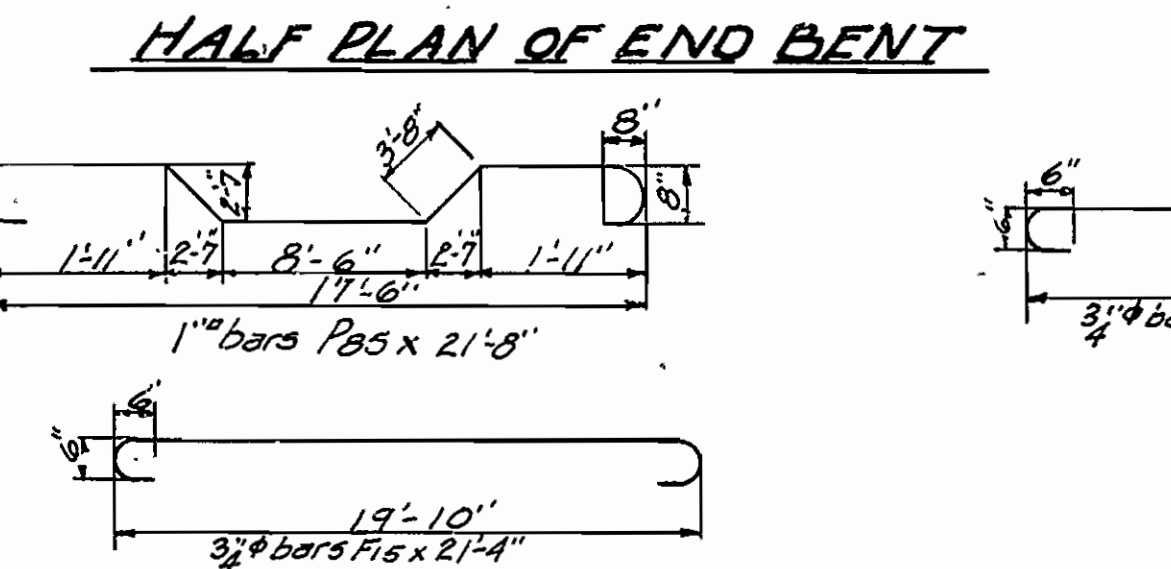
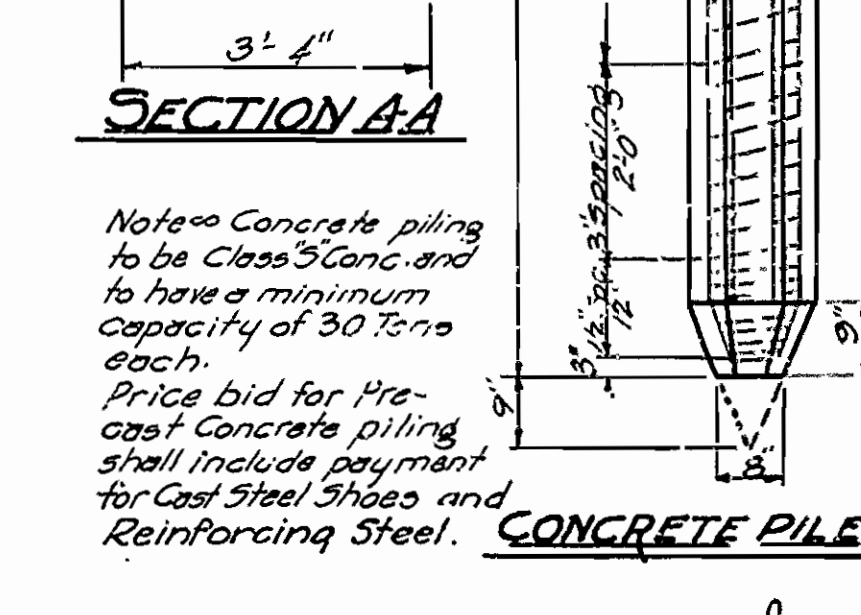
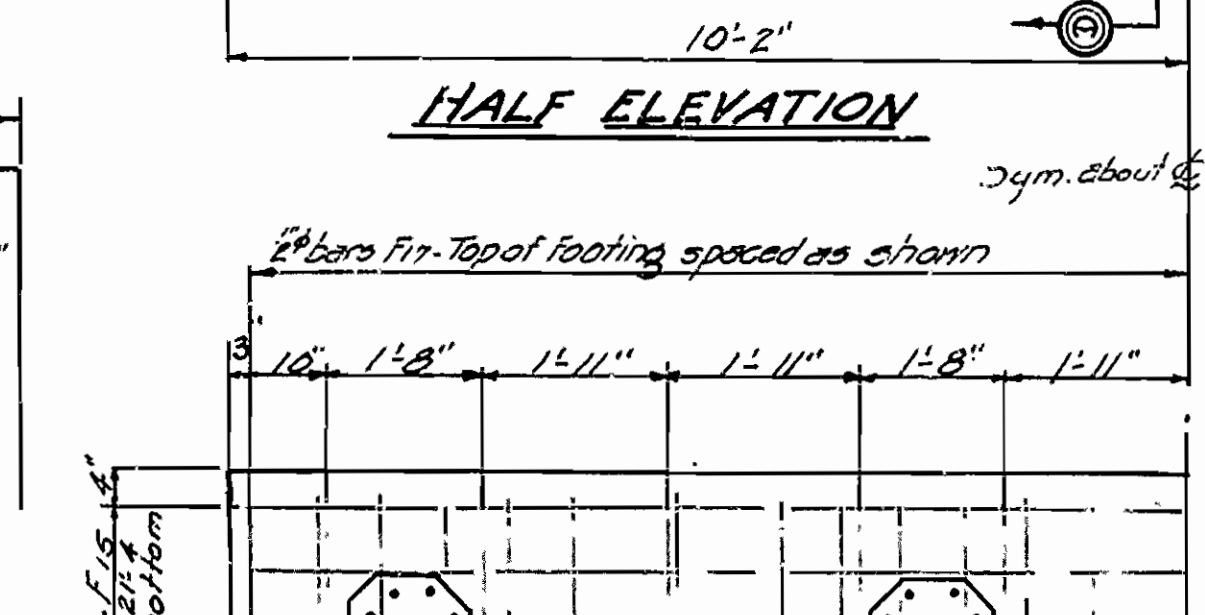
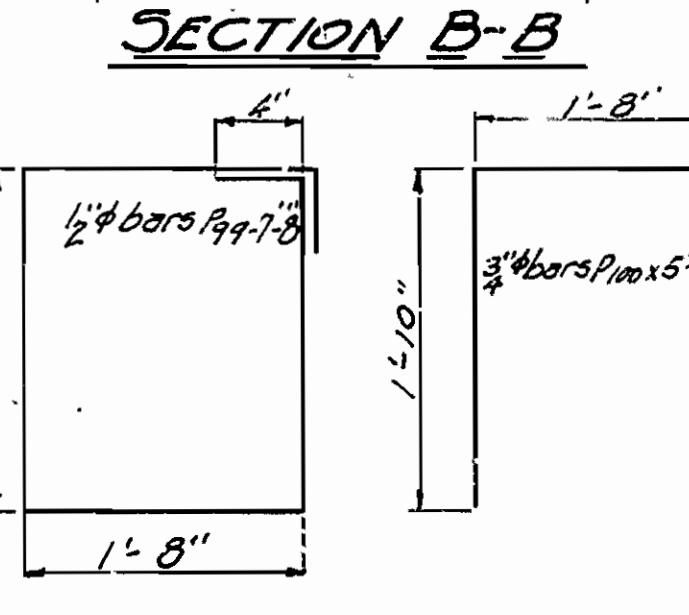
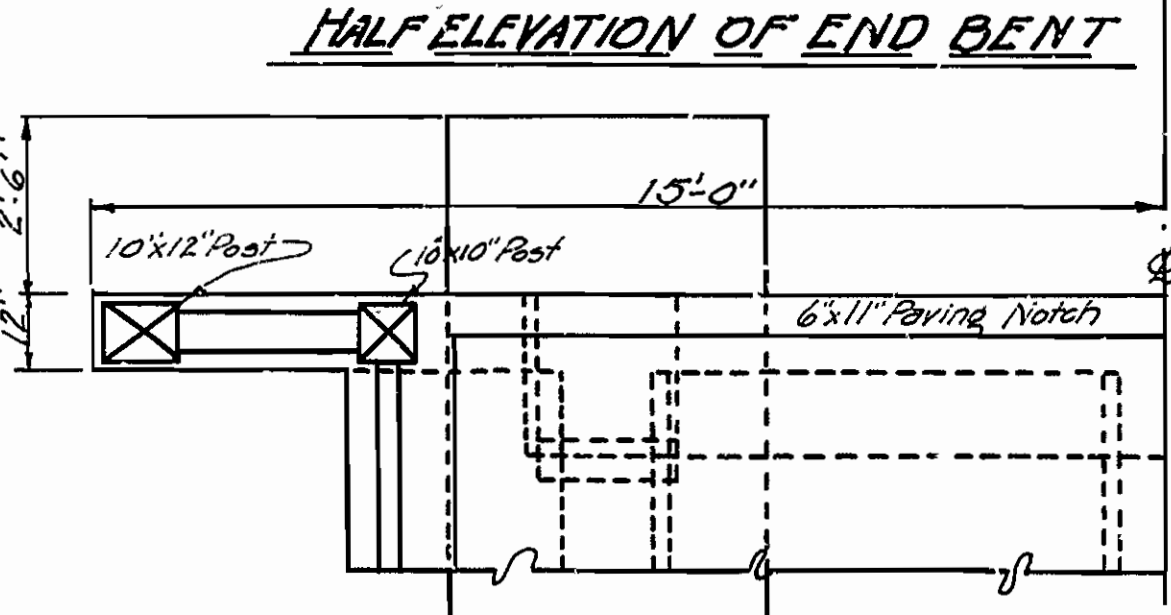
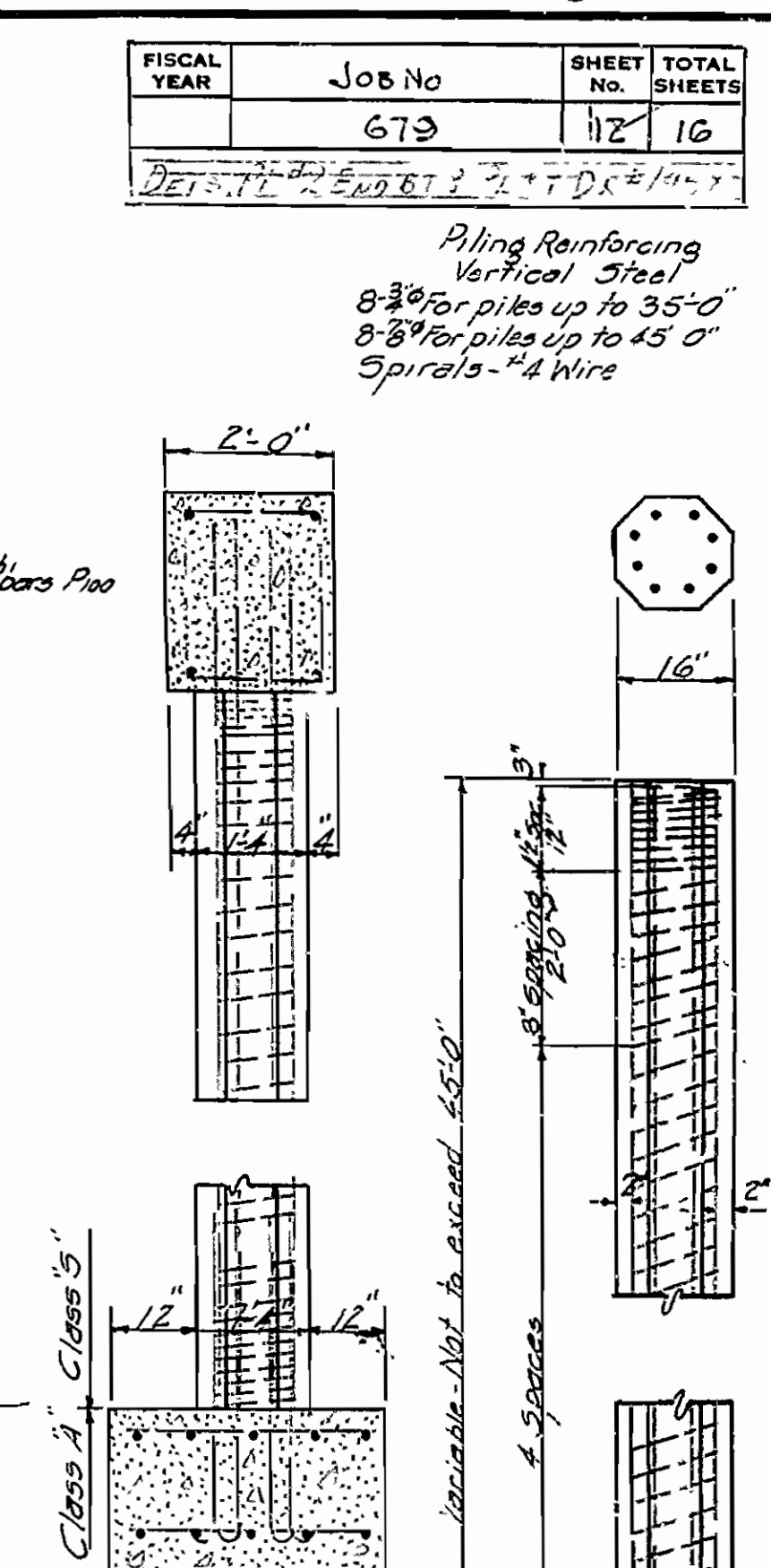
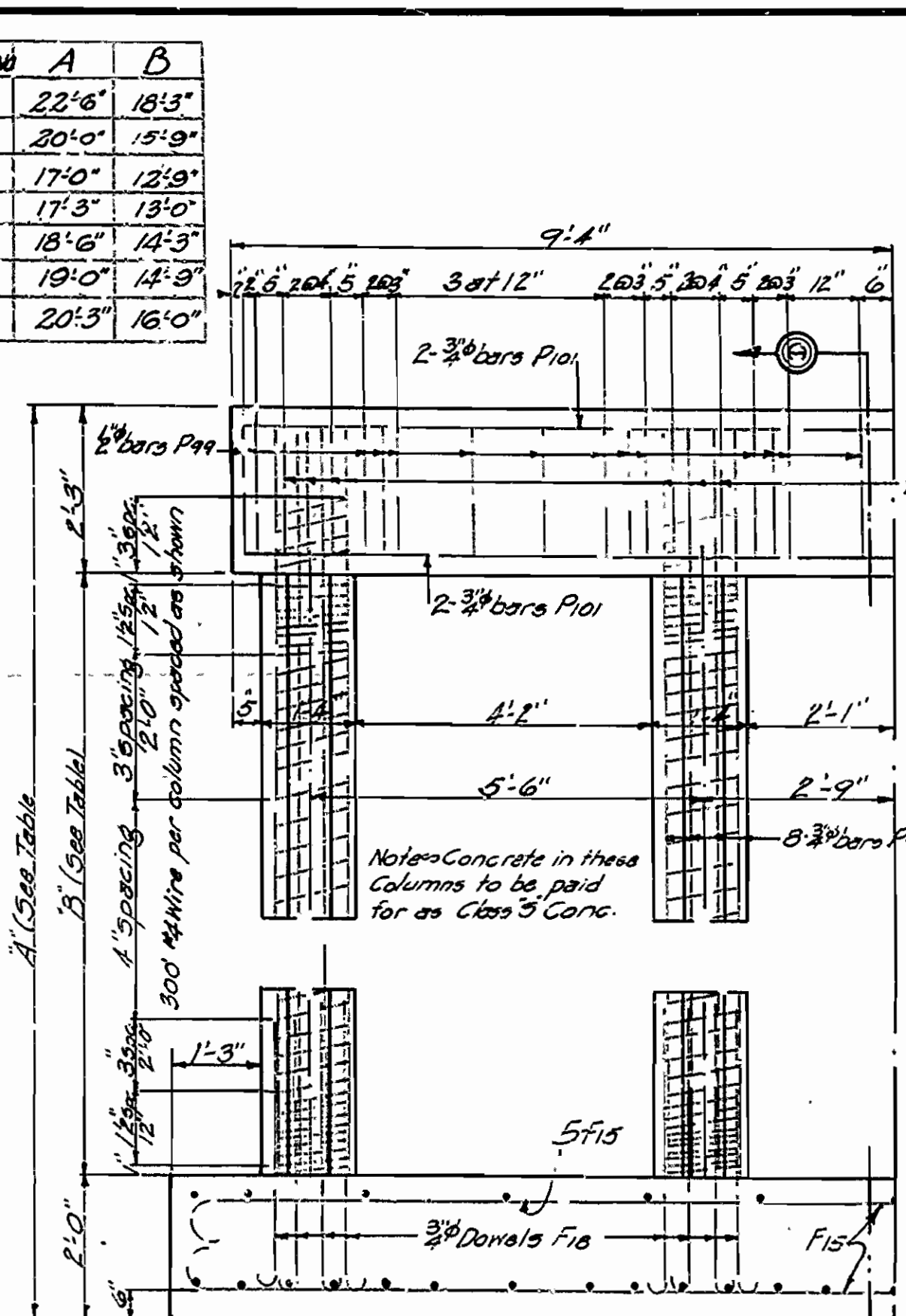
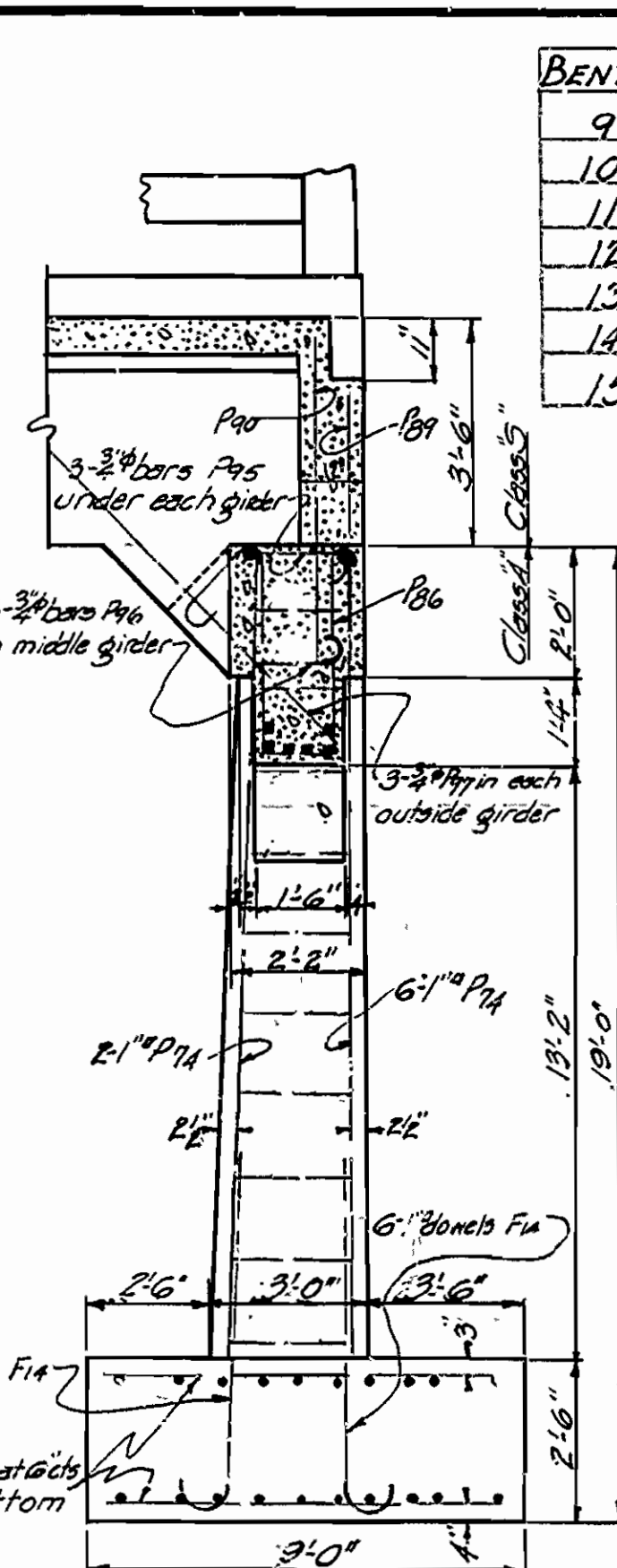
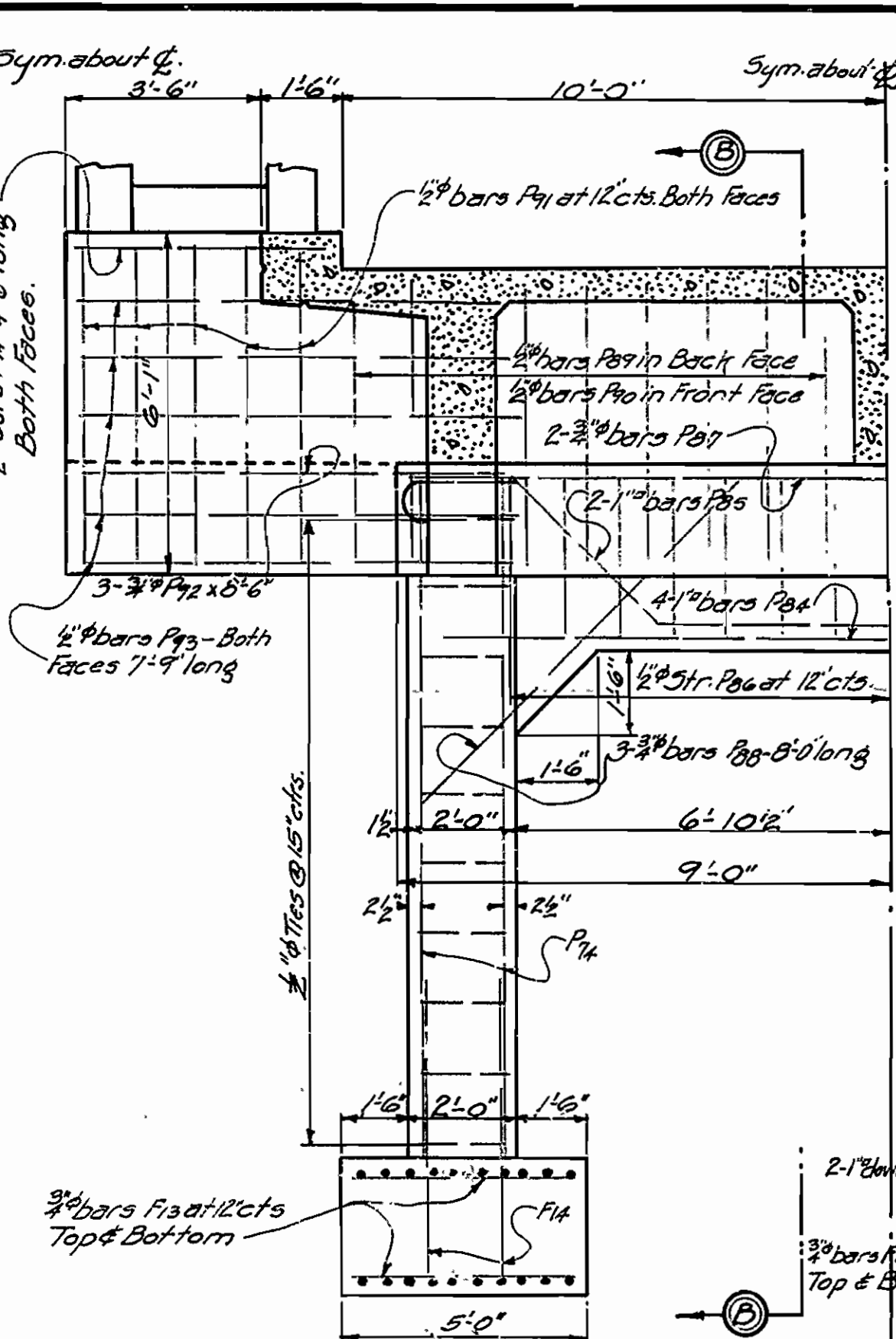
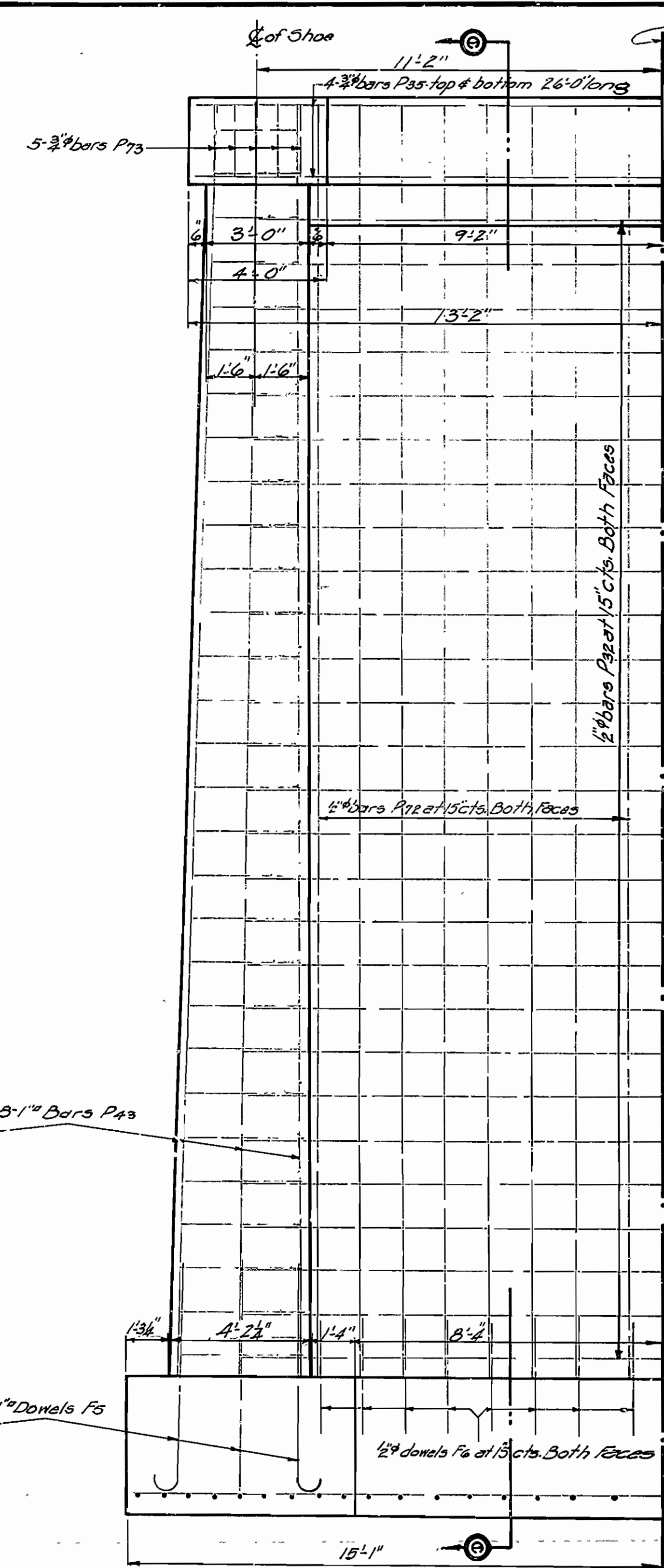
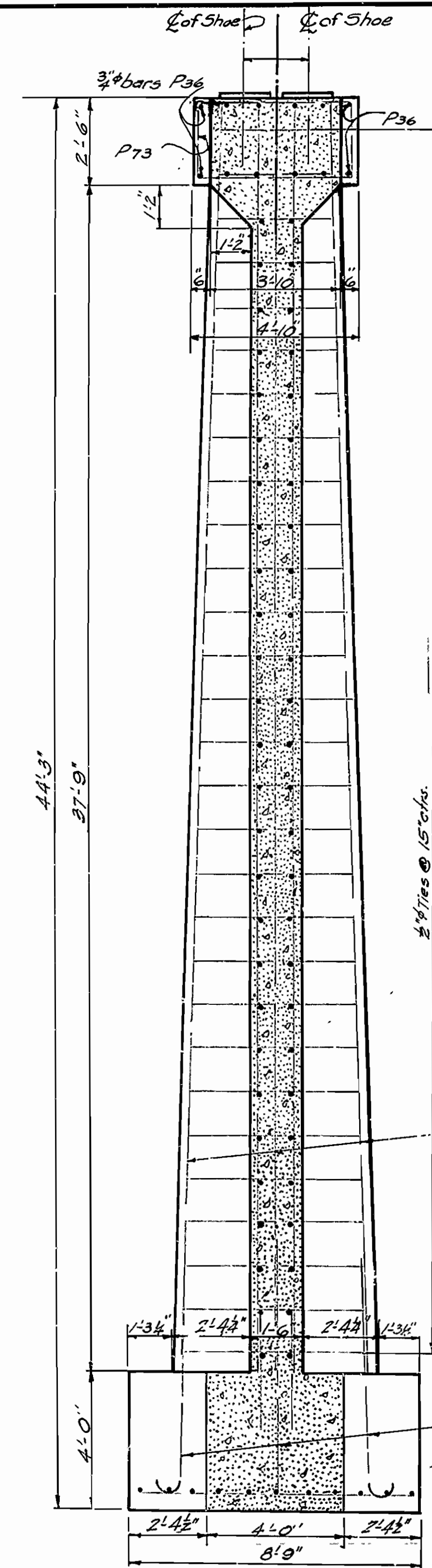
Bronze Plates to be cast as shown Sliding surfaces to be planed in the direction of motion. Four pair required at each Exp. Joint. Bronze to be Class 'C'. Holes for puddling concrete under plate.

Revised: 6-30 Bars added to bottom of Girders. Exp. plate bolts changed. 9/23/29 G.A.
GENERAL REV. 4-10-30. F.P.B.

FISCAL YEAR	JOB No	SHEET NO.	TOTAL SHEETS
	679	12	16

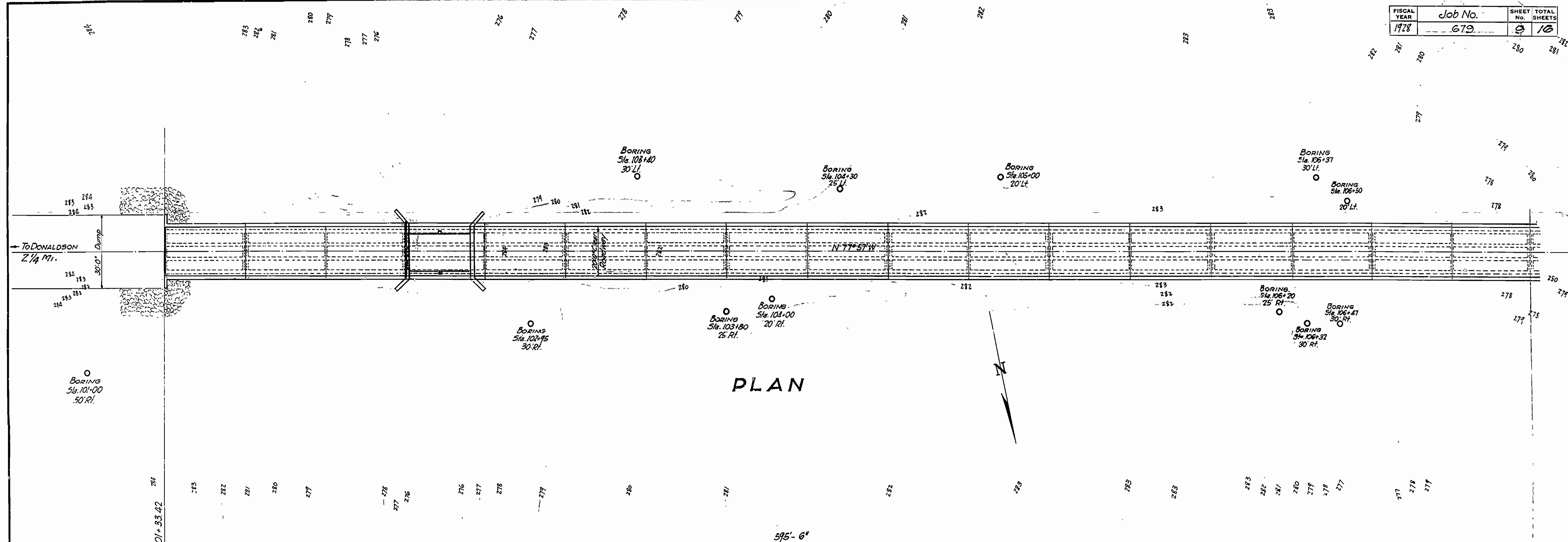
Piling Reinforcing Vertical Size
 8-#4 for piles up to 35'-0"
 8-#4 for piles up to 45'-0"
 Spirals - #4 Wire

BENT No	A	B
9	22'-6"	18'-3"
10	20'-0"	15'-9"
11	17'-0"	12'-9"
12	17'-3"	13'-0"
13	18'-6"	14'-3"
14	19'-0"	14'-9"
15	20'-3"	16'-0"

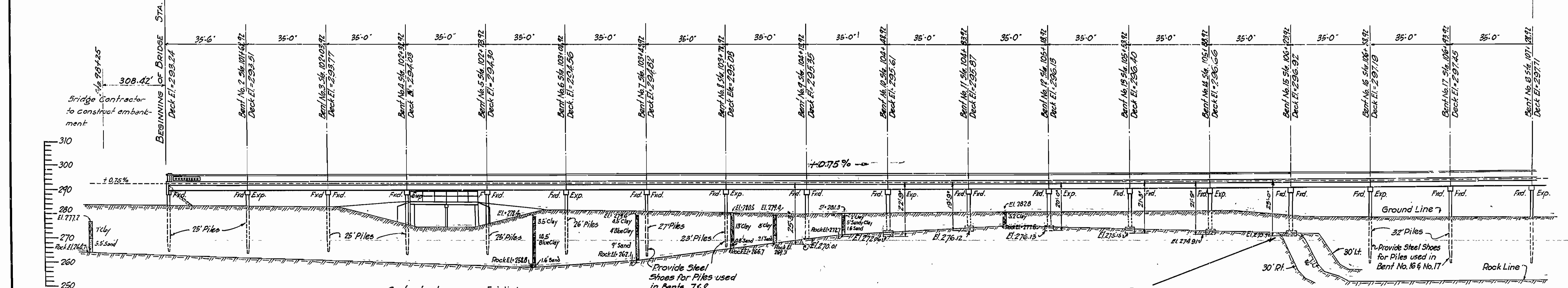


DETAILS OF PIER NO. 2, END BENT & PILE BENT
 FOR BRIDGE OVER OUACHITA RIVER
 DONALDSON-FRIENDSHIP ROAD
 HOT SPRINGS COUNTY
 ROUTE 51 SEC. 3
 ARKANSAS STATE HIGHWAY DEPARTMENT
 LITTLE ROCK, ARK.
 Drawn By: [Signature] Date: [Date]
 Traced By: [Signature] Date: [Date]
 Checked By: [Signature] Date: [Date]
 BRIDGE ENGINEER
 Scale: NOT DRAWN TO SCALE.
 DRAWING NO. 1453

FISCAL YEAR	Job No.	SHEET NO.	TOTAL SHEETS
1928	679	9	16



PLAN



ELEVATION

Contractor to remove Existing Timber Bridge, Clear Span 27.3' 16'0" Rdy. 3" Wood Floor 4"x12" Stringers Conc. Abts. Center Pile bent.

Provide Steel Shoes for Piles used in Bents 7 & 8

For Superstructure Details See Drwg. No. 1454
 For Pile Bent Details See Drwg. No. 1019
 For Details of Bents 9-10-11-12-13-14-15 See Drwg. No. 1458

LOG OF BORINGS NOT PLOTTED

Sta. 106+30 - 25 ft.	Surf. El. 282.1	10' Clay - 5.6' Sand	Rock El. 275.5
" 106+37 - 30 ft.	" " 277.7	8.5' - 5.0' Gravel - 11.8' Sand	" " 288.9
" 106+37 - 30 ft.	" " 283.3	6.0' - 3.1' Sand	" " 274.2
" 106+47 - 30 ft.	" " 277.8	18.1' "	" " 284.7
" 106+50 - 20 ft.	" " 280.4	8.5' - 12.1' Sand	" " 260.0

LAYOUT OF PART OF EAST APPROACH TO BRIDGE OVER OUACHITA RIVER

ROUTE 51 SEC. 3
 ARKANSAS STATE HIGHWAY DEPARTMENT
 LITTLE ROCK, ARK.

Drawn By: *E.W.* Date: 1-7-28
 Traced By: *E.A.W.* Date: 1-11-28
 Checked By: _____ Date: _____
 BRIDGE No. 663 DRAWING No. 1455

W.B. Johnson
 BRIDGE ENGINEER

Scale: 1 in. = 20 ft.