

FED. DIST. NO.	STATE	USWR&C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM 375 A	1936	1	23
STATE JOB NO. 5194					

STATE OF ARKANSAS
STATE HIGHWAY COMMISSION

**PLAN OF PROPOSED BRIDGE
OVER NORTH FORK OF WHITE RIVER
AT NORFORK
BAXTER COUNTY
ROUTE 5 SEC. 8
JOB NO. 5194.**

U. S. WORKS PROGRAM GRADE CROSSING PROJECT NO. WPGM-375A

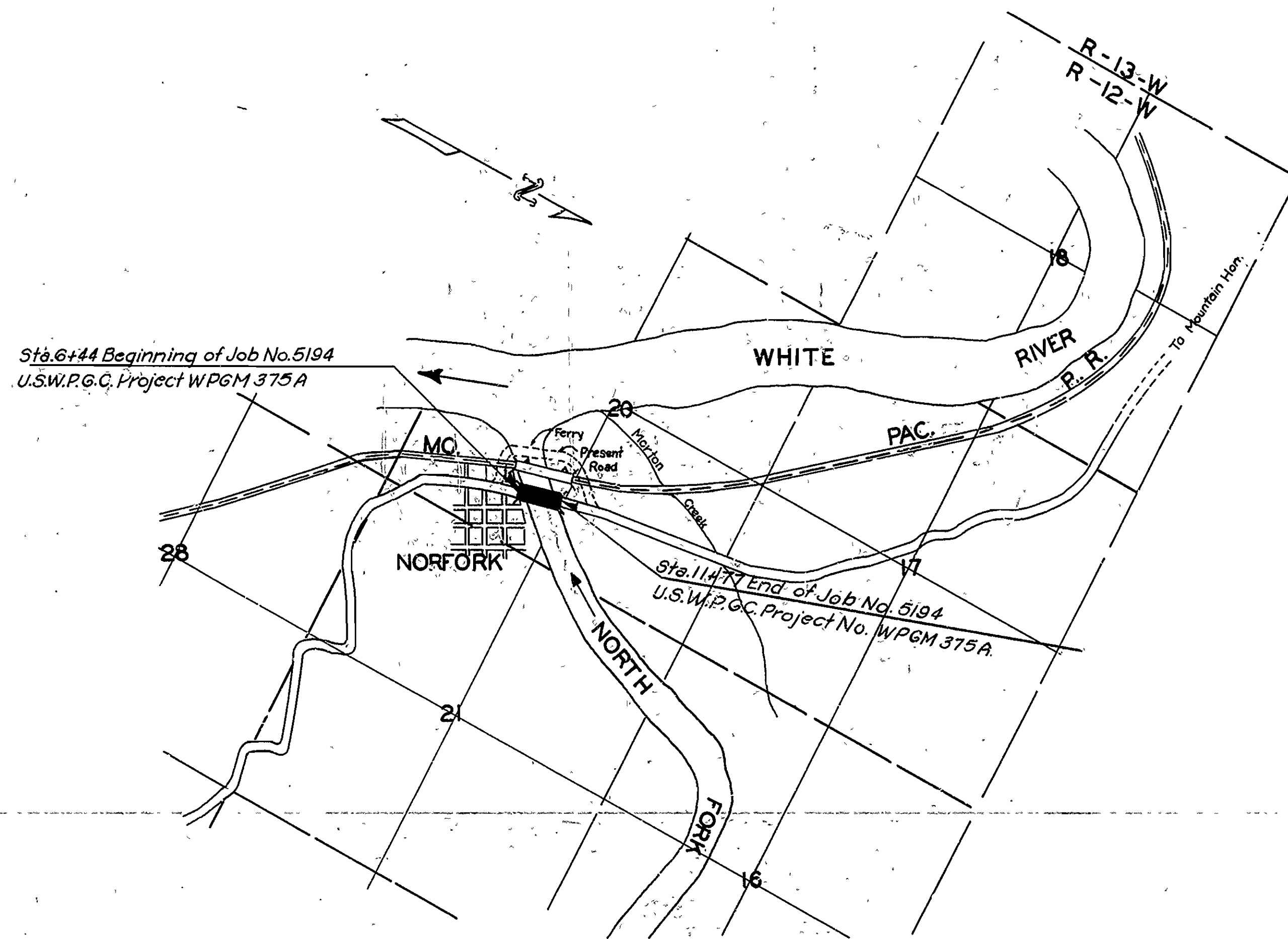
INDEX OF SHEETS

SHEET NO.	DRWG. NO.	DESCRIPTION
1	4514	Title Sheet
2	4515	Schedule of Quantities
3	4516	Layout of Bridge No. 587
4	4517	Stress Sheet
5	4518	Selection of Members and erection Stresses
6	4519	Details of Cantilever Truss Span No. 1
7	4520	Details of Cantilever Truss Span No. 2
8	4521	Details of Suspended Truss Span No. 3
9	4522	Details of Cantilever Truss Span No. 3
10	4523	Details of Cantilever Truss Span No. 3
11	4524	Details of Cantilever Truss Span No. 3
12	4525	Details of Suspended Truss Span No. 4
13	4526	Details of Suspended Truss Span No. 4
14	4527	Typical Cross Section and Handrail Details
15	4528	Details of Cross Frames and Expansion Devices
16	4529	Detail of Shoes
17	4530	Details of Slab Reinforcing
18	4531	Details of Abutment No. 1
19	4532	Details of Pier No. 1
20	4533	Details of Pier No. 2
21	4534	Details of Pier No. 3
22	4535	Details of Abutment No. 2
23	2387	Details of Project Marker, R/W Marker and Bridge Name Plates

QUANTITIES

ITEM No.	ITEM	QUANTITY	UNIT
13	Dry Excavation for Structures	528	Cu. Yds.
13	Wet Excavation for Structures	604	Cu. Yds.
13	Solid Rock Excavation for Structures	508	Cu. Yds.
SP491	Class "A" concrete for Bridges	1,093.7	Cu. Yds.
SP491	Class "S" concrete for Bridges	350.3	Cu. Yds.
92	Reinforcing Steel for Bridges	176,400	Lbs.
93	Concrete Piling	886	Lin. Ft.
94	Concrete Railing for Bridges	43	Lin. Ft.
96	Structural Steel in Truss Spans	64,160	Lbs.
S.P.	Bronze State Bridge Name Plates (Type "A")	2	Each
S.P.	Sand and Gravel Fill	53	Cu. Yds.

WORK TO BE DONE BY RAILROAD CO
Adjust Telegraph Lines



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	Item	No. of Sheets
Permitt A Revised Mar. 1, 1931	Approved June 13, 1931	
L	July 8, 1935	
M	Mar. 1, 1931	
N	Oct. 1, 1933	
O	Oct. 1, 1933	

SPECIAL PROVISIONS

Item	No. of Sheets
Employment Centers for Labor	1
Required Special Provisions (Approved 12-30-35)	16
Beginning and Prosecution of Work	1
Extra and Force Account Work	1
Wages of Labor	1
Engineers Field Office	1
Sand and Gravel Fill	1
Bronze Project Marker Plates and Bronze State Bridge Name Plates	1
Machine Mixing (Amending Sec. 91.56)	1
Curing (Amend. Sec. 91.62)	1
Finishing (Amend. Sec. 91.64)	2

LAYOUT

Scale: 1"=1500'

LENGTH OF PROJECT = 5.33' = 100 Miles
LENGTH OF BRIDGES = 533' = 100 Miles
LENGTH OF EMBANKMENT = 0 = 0 Miles
LENGTH OF JOB = 533' = 100 Miles

APPROVED [Signature]
CHIEF ENGINEER
APPROVED [Signature]
DISTRICT ENGINEER
APPROVED [Signature]
CHIEF
APPROVED [Signature]
CHAIRMAN - STATE HIGHWAY COMMISSION
APPROVED [Signature]
STATE HIGHWAY ENGINEER

M. B. [Signature]
BRIDGE ENGINEER

BRIDGES NO. 587

DRAWING NO. 4514

REV. 6-10-36 QUANT. 1B

FED. ROAD DIST. NO.	STATE	U.S.W.R.G.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM 375 A	1936	2	23
STATE JOB NO. 5194					

SCHEDULE OF BRIDGE QUANTITIES (W.P.G.M. 375-A)

UNIT OF BRIDGE	ITEM NO. 13	ITEM NO. 13	ITEM NO. 13	ITEM NO. SP&91	ITEM NO. SP&91	ITEM NO. 92	ITEM NO. 93	ITEM NO. 94	ITEM NO. 96	ITEM NO. S.P.	ITEM NO. S.P.
	DRY EXCAVATION FOR STRUCTURES CU.YDS.	WET EXCAVATION FOR STRUCTURES CU.YDS.	SOLID ROCK EXCAVATION FOR STRUCTURES CU.YDS.	CLASS 'A' CONCRETE FOR BRIDGES CU.YDS.	CLASS 'S' CONCRETE FOR BRIDGES CU.YDS.	REINFORCING STEEL FOR BRIDGES LBS.	CONCRETE PILING LIN. FT.	CONCRETE RAILING FOR BRIDGES LIN. FT.	STRUCTURAL STEEL IN TRUSS SPANS LBS.	BRONZE STATE BRIDGE NAME PLATES TYPE 'A' EACH	SAND & GRAVEL FILL (IN ABUTMENT #2) CU.YDS.
BRIDGE NO. 587	CANTILEVER TRUSS SPAN NO. 1				100.68	28530			175680		
	SUSPENDED TRUSS SPAN NO. 2				68.52	19380			128675		
	CANTILEVER TRUSS SPAN NO. 3				124.53	35290			240,100		
	SUSPENDED TRUSS SPAN NO. 4				56.57	15840			96,705		
CODE 922	ABUTMENT NO. 1	0	0	220	25.4	2560		24		1	
	PIER NO. 1	0	148	82	343.4	20,660					
	PIER NO. 2	0	148	135	304.8	18,750					
	PIER NO. 3	300	308	71	225.6	14,590					
	ABUTMENT NO. 2	228	0	0	194.5	20,800	886	19		1	53.0
TOTALS	528	604	508	1093.7	350.3	176,400	886	43	* 641,1600	2	53.0

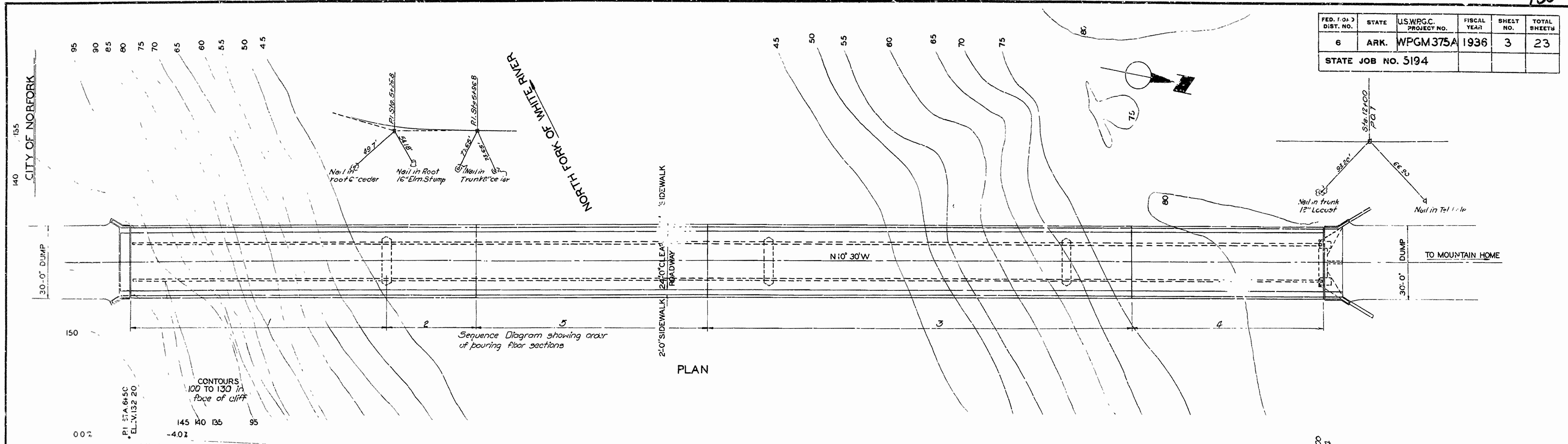
* INCLUDES 13,095 LBS. FOR WT. OF TRUSS SHES

SCHEDULE BRIDGE QUANTITIES
 BRIDGE OVER NORTH FORK OF WHITE RIVER
 NORFORK-MOUNTAIN HOME ROAD
 BAXTER COUNTY
 ROUTE 5 SEC. 8.
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: W.C.H. Date: 5-25-36
 Traced By: C.B.Y. Date: 5-27-36
 Checked By: _____ Date: _____
 Scale: _____ in. = ft.
BRIDGE NO. 587 **DRAWING NO. 4515**

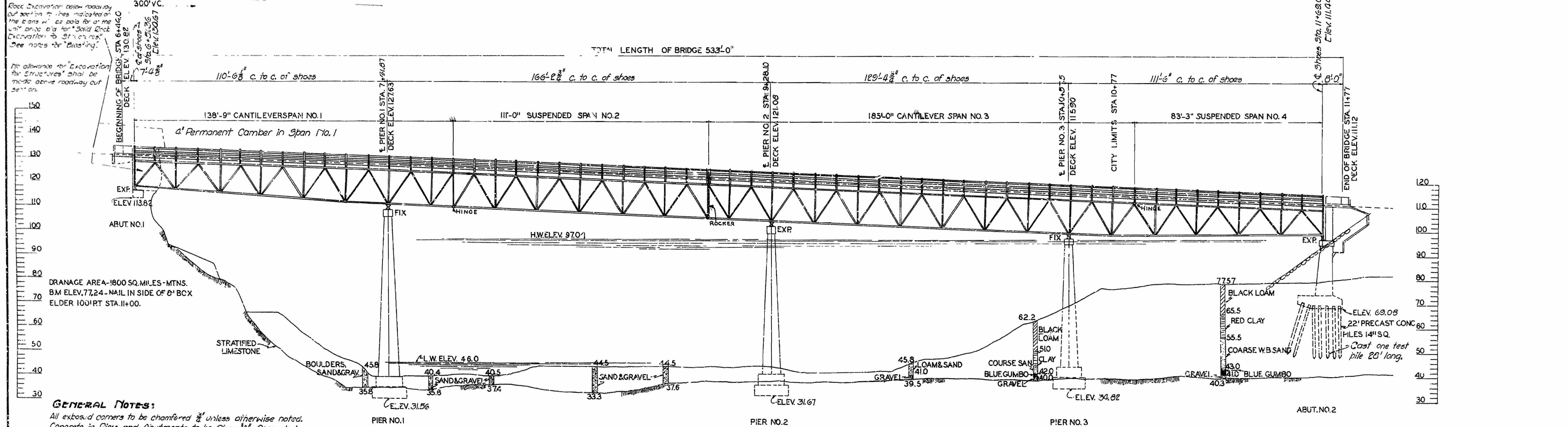
Revised - 6-19-36. Struct. Steel Quant. - H.B.

N.B. Sawyer
 BRIDGE ENGINEER

FED. DIST. NO.	STATE	USWRG.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM375A	1936	3	23
STATE JOB NO. 5194					



PLAN



ELEVATION

LAYOUT OF
 BRIDGE OVER NORTH FORK OF WHITE RIVER
 NORFORK-MOUNTAIN HOME ROAD
 BAXTER COUNTY
 ROUTE 5 SEC. 8
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: H.B. Date: 4-24-36
 Traced By: C.B.Y. Date: 4-28-36
 Checked By: Date: _____
BRIDGE NO. 587 **DRAWING NO. 4516**
 Scale: 1" = 20' H.
 Code No 922

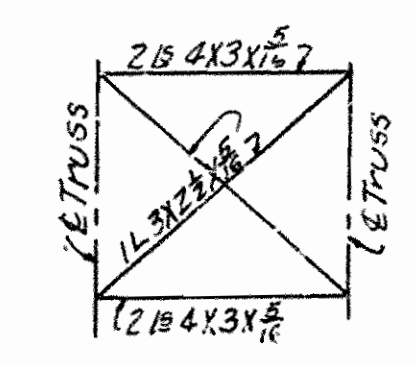
GENERAL NOTES:
 All exposed corners to be chamfered unless otherwise noted.
 Concrete in Piers and Abutments to be Class 'A' Concrete in Deck to be Class 'S'.
 Reinforcing steel to be deformed bars of Structural or Intermediate grade. Shop lists and bending diagrams must be submitted and approved before fabrication is begun.
 In general all construction joints in piers and abutments shall be horizontal and shall be provided with keys six inches deep covering the middle third of both dimensions, unless otherwise noted.
 Rock excavation shall be done to near lines of concrete footings. Care shall be exercised to avoid scattering of rock pieces by excessive blasting.
 In order to expedite the project and to avoid, to a great extent, interference in the operations of the two contractors on the bridge and approaches, it will be required that the bridge contractor first

complete the north abutment ready for backfilling to grade while the contractor on the approaches, as his first operation, is removing the rock out at the south end of the bridge.
 Before any concrete for Abutment No. 1 is placed the roadway cut of bridge end under Job No. 5206 shall be completed. Care shall be exercised to avoid fracturing of the rock below subgrade by excessive blasting. Rock excavation to be made to regular lines as indicated on the plans.
 Concrete deck slabs shall be placed in the order indicated on the sequence diagram, and each section shall be poured so that the load is kept symmetrical about the centerline of span, unless otherwise directed by the Engineer.
 Any approved method of erection of truss spans proposed by the Contractor may be substituted for the procedure for cantilever erection as outlined on Drawg. No. 4518. Consideration will be given to alterations desired by the

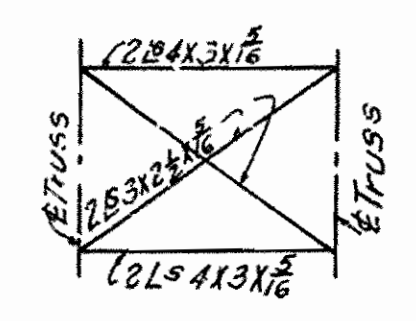
Contractor in the latter.
 Job to be furnished and placed under Job No. 5206.
 Maximum foundation pressure 4.5 tons per square foot.
 Maximum pile load 25 tons each.

N. B. Law
 BRIDGE ENGINEER

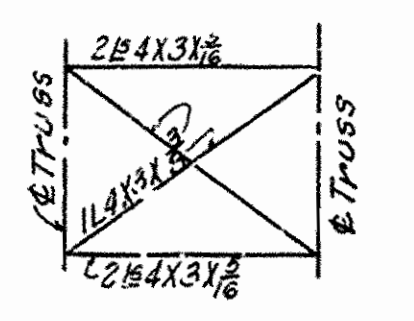
FED. ROAD DIST. NO.	STATE	U.S.W.P.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM 376A	1936	4	23
STATE JOB NO. 5194					



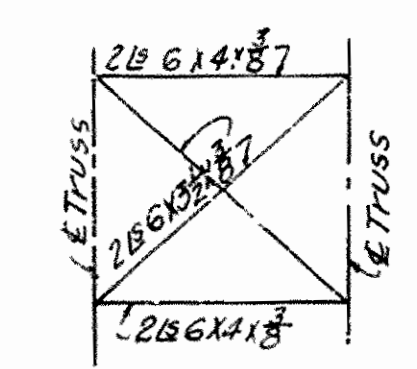
TYPICAL INTERMEDIATE CROSS FRAME



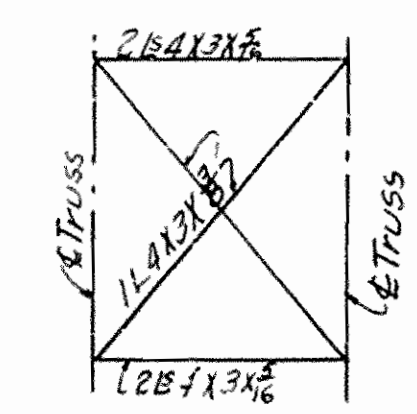
CROSS FRAME ON HANGERS U15-L15, U27-L27



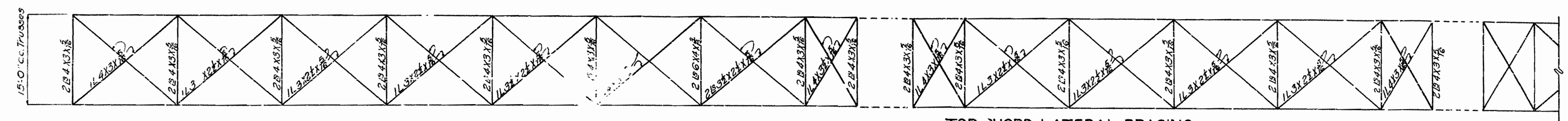
CROSS FRAME ON ABUTMENTS



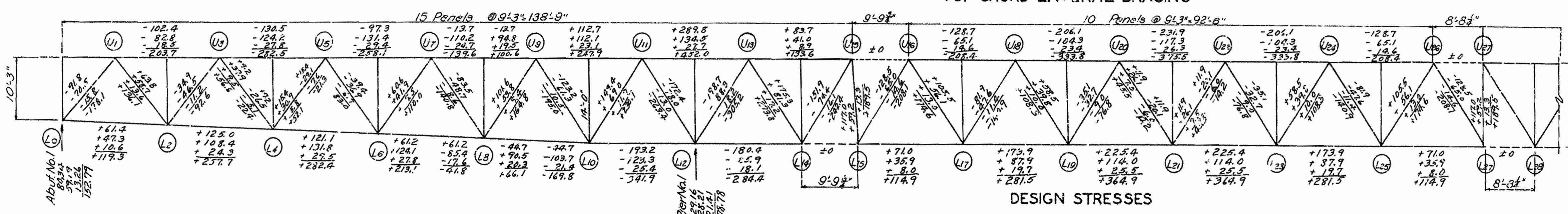
CROSS FRAME AT PIERS NO. 1,2,3



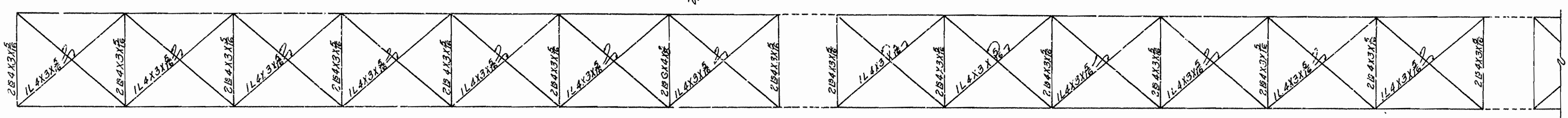
CROSS FRAME ON DIAGONALS L15-U16, U26-L27, U47-L48



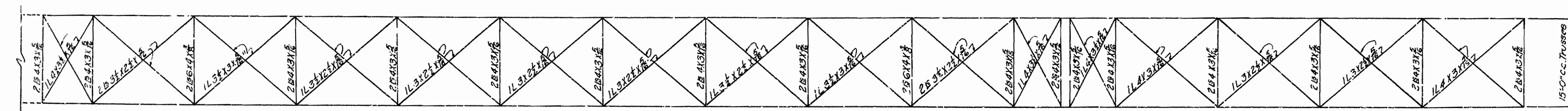
TOP CHORD LATERAL BRACING



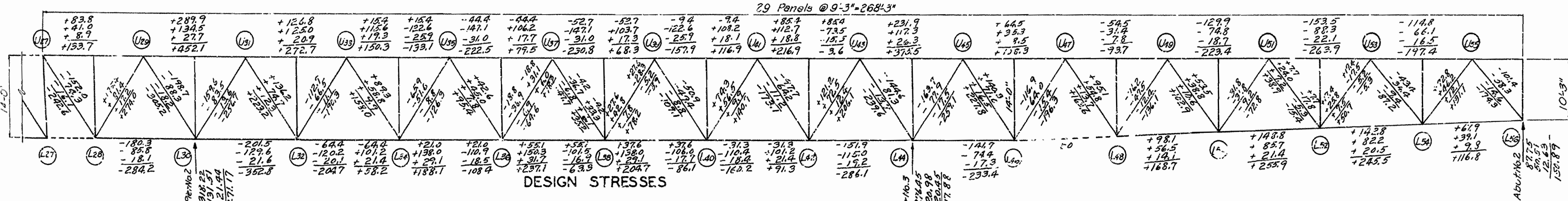
DESIGN STRESSES



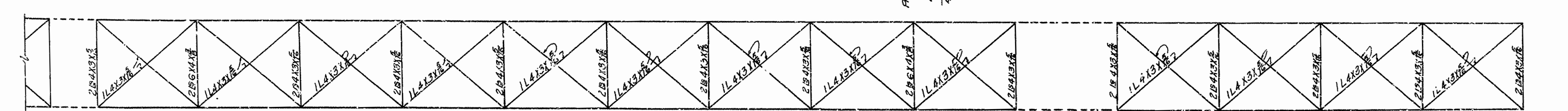
BOTTOM CHORD LATERAL BRACING



TOP CHORD LATERAL BRACING



DESIGN STRESSES



BOTTOM CHORD LATERAL BRACING

Note:-
In each case the dead load is given first, then the live load, followed by the impact, and the total stress last. All stresses are given in thousands of pounds. Plus: Tension. Minus: Compression. For all Verticals not shown otherwise:-
Dead Load 19.5
Live Load 30.28
Impact 9.08
Total 58.86

FLOOR BEAM DATA

	Positive	Negative
Dead Load Moment	21366"	356634"
Live Load Moment - Sidewalk		58275
Live Load Moment - Roadway	864000	432000
Impact - 30%	257200	129600
Total	1144566"	976509"
S.M. Required	71.54	61.03
Use 12" CB 45"	S.M. 72.4	

STRINGER DATA

Dead Load Moment	79500"
Live Load Moment	532800
Impact - 30%	159820
Total	772140"
S.M. Required	48.3
Use 11" CB 36"	S.M. 56.3

STRESS SHEET
BRIDGE OVER NORTH FORK OF WHITERIVER
NORFOLK-MOUNTAIN HOME ROAD
BAXTER COUNTY
ROUTE 5 SEC. 8.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Draw By: D.C. Date: 5-11-36
Traced By: C.B.V. Date: 6-16-36
Checked By: Date:
BRIDGE NO. 587 DRAWING NO. 4517

N.B. Lanier
BRIDGE ENGINEER

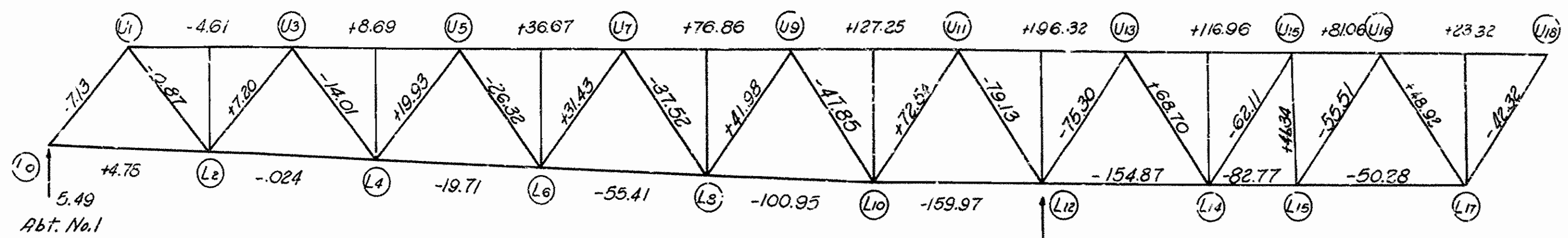
FED. ROAD DIST. NO.	STATE	U.S.W.R.G.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM 375 A	1936	5	23
STATE JOB NO. 5194					

PROPOSED PLAN OF ERECTION

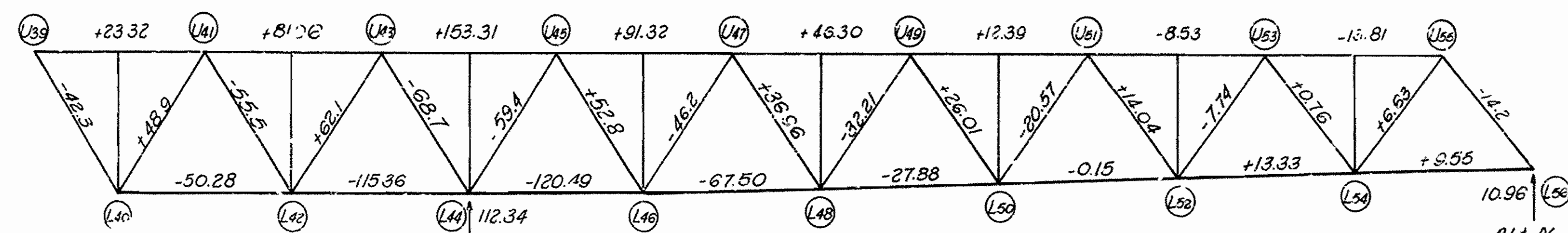
- Erect anchor arm Span No.1 on falsework blocking up 2" on Pier No.1
- Erect Span No.4 and portion of Span No.3 to Pier No.3 on falsework blocking up 3/8" at Pier No.3
- Continue by cantilever erection Span No.1 and portion of Span No.2 to panel point U18
- Continue erection Span No.3 by cantilever to false bent at L36
- Jack up Span at L36 approximately 1" and continue cantilever erection to pier on Pier 2 and block up truss at this point approximately 2"
- Continue cantilever erection to U24
- Adjust gap between L19 & L23 and close bottom chord.
- Fill in remaining web members adjust gap between U20 & U22 by lowering blocking and close top chord.
- Release members U14-U16, U26-U27, L27-L28 & L36-L38

NOTE:

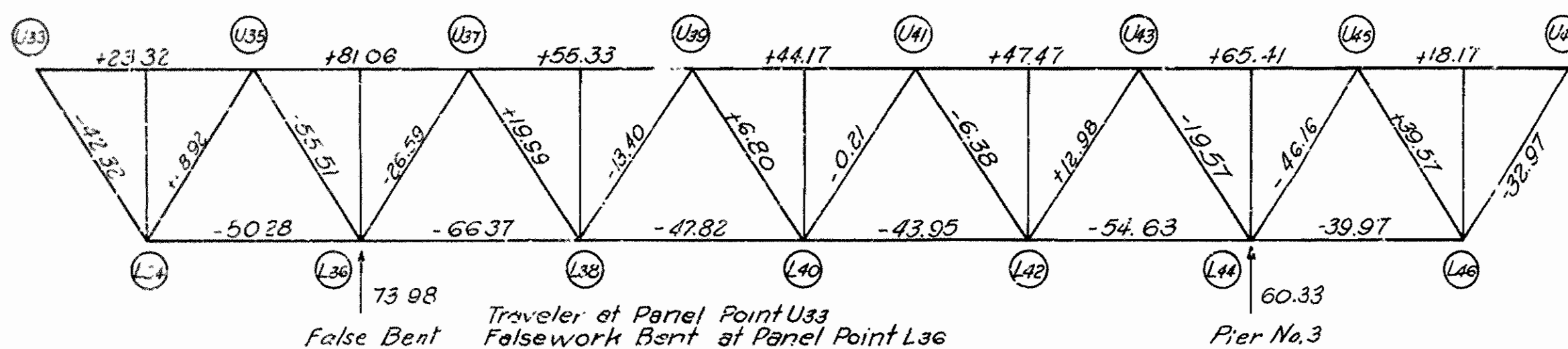
In calculating erection stresses truss estimated to weigh 25 tons plus 30% impact; erection track assumed to weigh 50 pounds per lineal foot.



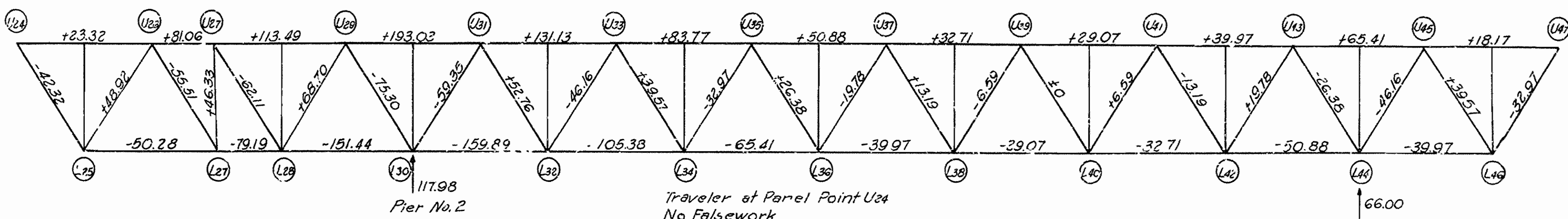
ERECTION STRESSES-SPAN NO.1



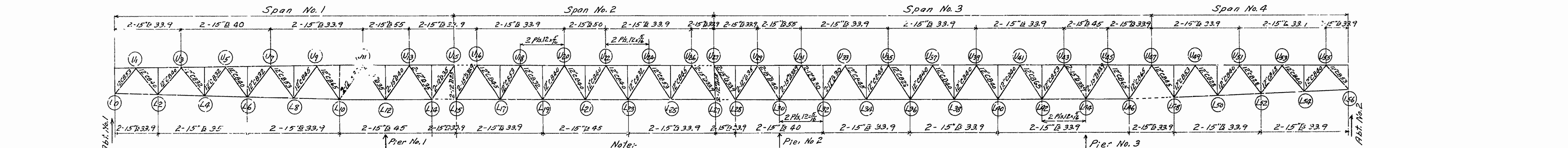
ERECTION STRESSES-SPAN NO. 4



ERECTION STRESSES-SPAN NO. 2



ERECTION STRESSES-SPAN NO.3

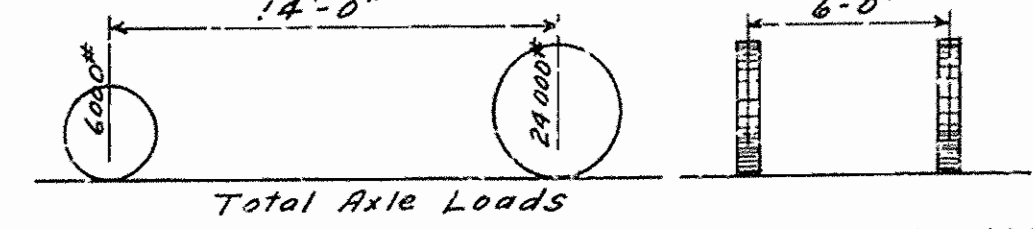


SELECTION OF MEMBERS

GENERAL NOTES FOR STEEL SUPERSTRUCTURE

Rivets: In Truss $\frac{3}{4}$ " in Floorbeams, Stringers, Cross Frames, and Lateral Bracing $\frac{3}{8}$ " in flanges of 6" B- $\frac{3}{8}$ "
 Open Holes: To correspond in size to above. All holes in truss connections to be sub-punched $\frac{1}{16}$ " smaller than rivet specified and reamed to $\frac{1}{16}$ " larger than rivet specified during shop assembly. This applies to shop rivets as well as field rivets. Members shall be match marked and a suitable diagram furnished for erection. All field connections shall be riveted.
 Floor Slab: Concrete to be Class "S". One inch has been added for wear.
 Sidewalk Slab: Concrete to be Class "S".
 Shop Paint: After being completely assembled and shop work is finished all pieces shall be given one coat of red lead and raw linseed oil before shipment.
 Field Paint: First Coat- White Lead tinted with lamp black. Second Coat- Aluminum Paint.
 Camber: Trusses shall be cambered to fit the vertical curve shown on the layout as well as camber required for dead load only.
 Shapes of equal or greater strength may be substituted for the structural shapes shown, payment, however, will be based on the weight of shapes shown or actually used, whichever is the lesser.

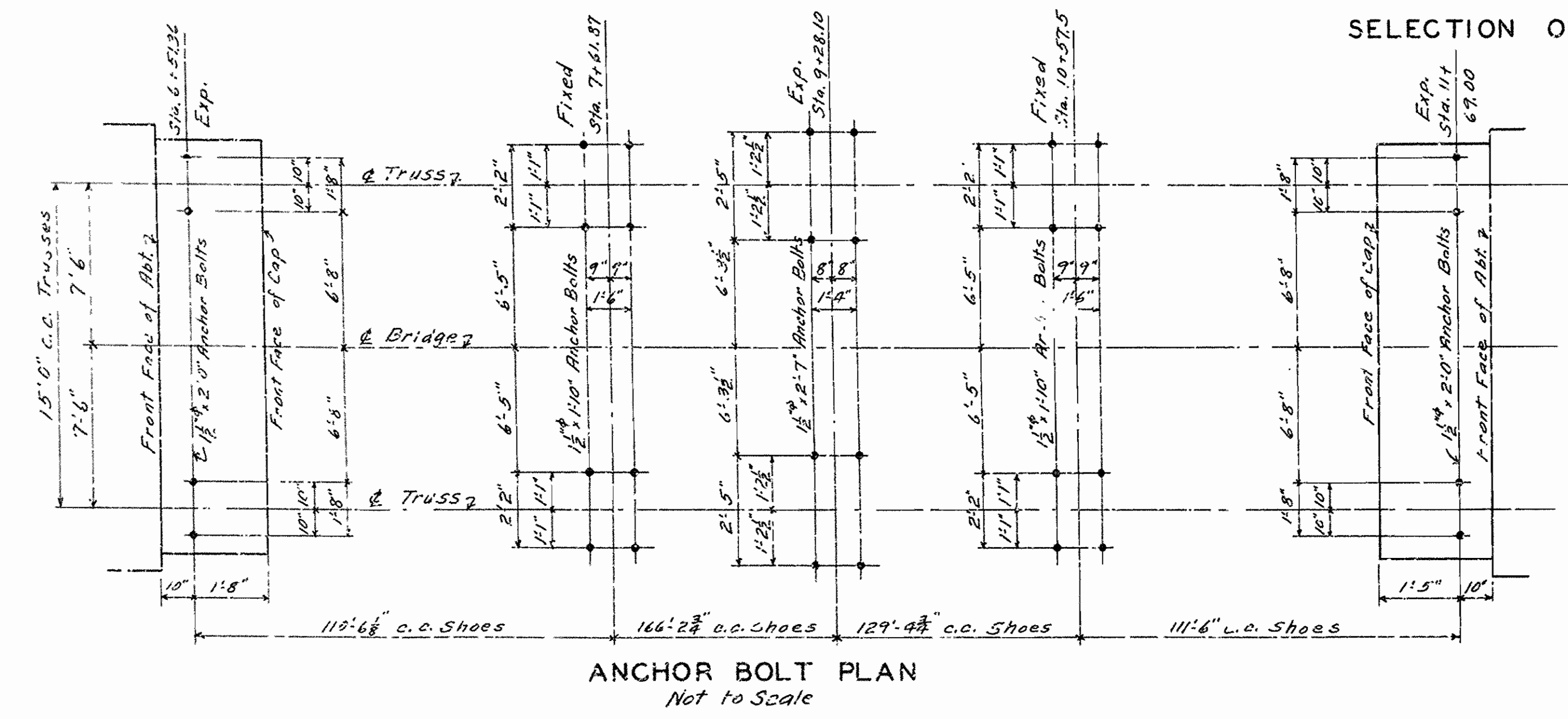
These drawings show general features of design. Shop drawings shall be made in compliance with specifications, submitted and approved before fabrication is begun.
 Specifications: Arkansas Standard Road and Bridge Specifications adopted May 30th 1925 and revised.
 Unit Stresses: Concrete - 750^{psi}/in²
 Reinforcing Steel - 16000^{psi}/in²
 Structural Steel - 16700^{psi}/in²
 Live Load - 1000^{lb}/ft² string



SELECTION OF MEMBERS, NOTES, ERECTION STRESSES & PROCEDURE BRIDGE OVER NORTH FORK OF WHITE RIVER NORFORK-MOUNTAIN HOME ROAD BAXTER COUNTY ROUTE 5 SEC. 8.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.
 Drawn By: B.C. Date: 5-14-36
 Traced By: C.B.Y. Date: 5-25-36
 Checked By: _____ Date: _____
 BRIDGE NO. 587 DRAWING NO. 4518

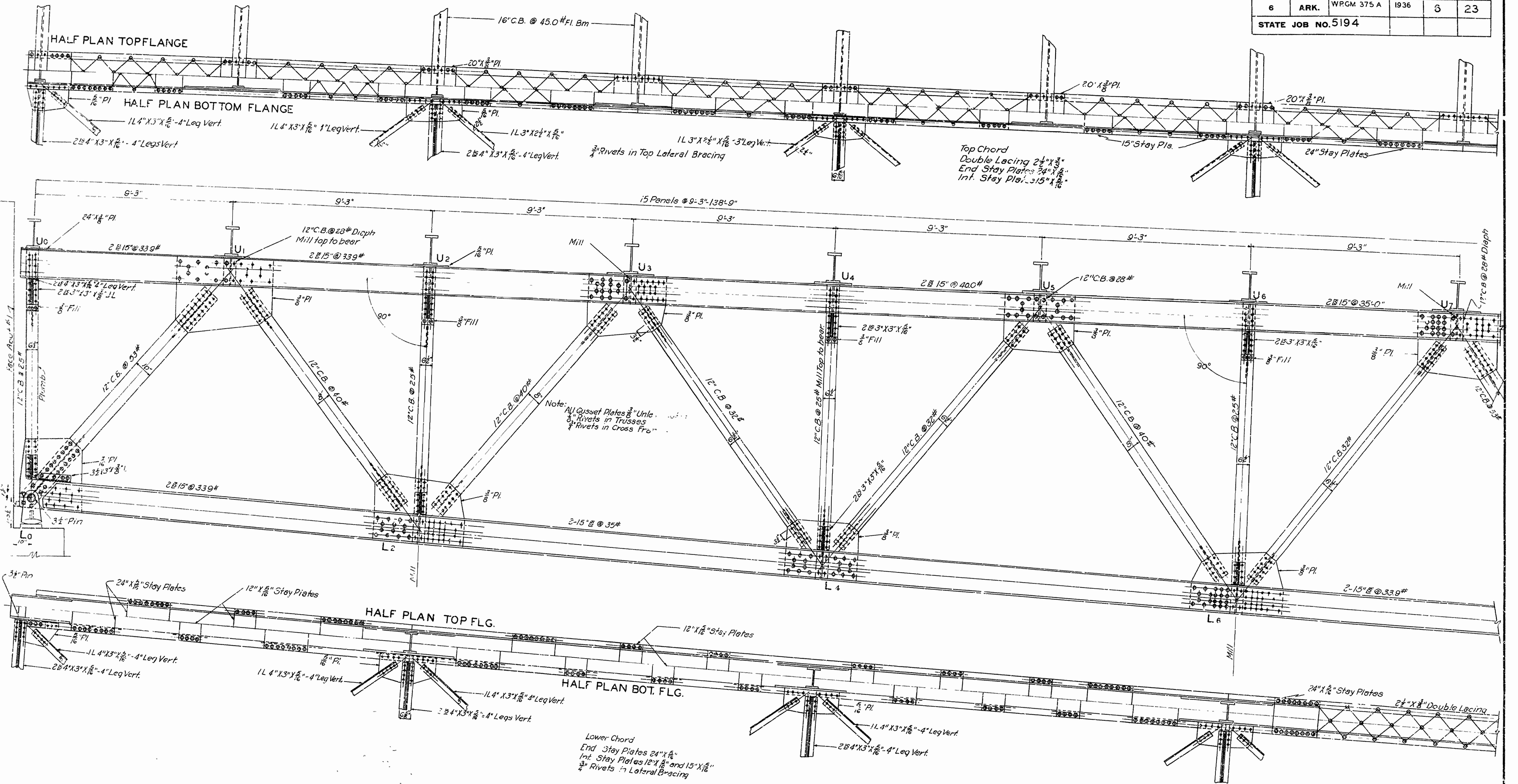


ANCHOR BOLT PLAN Not to Scale

BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE	U.S.W.P.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM 375 A	1936	6	23

STATE JOB NO. 5194



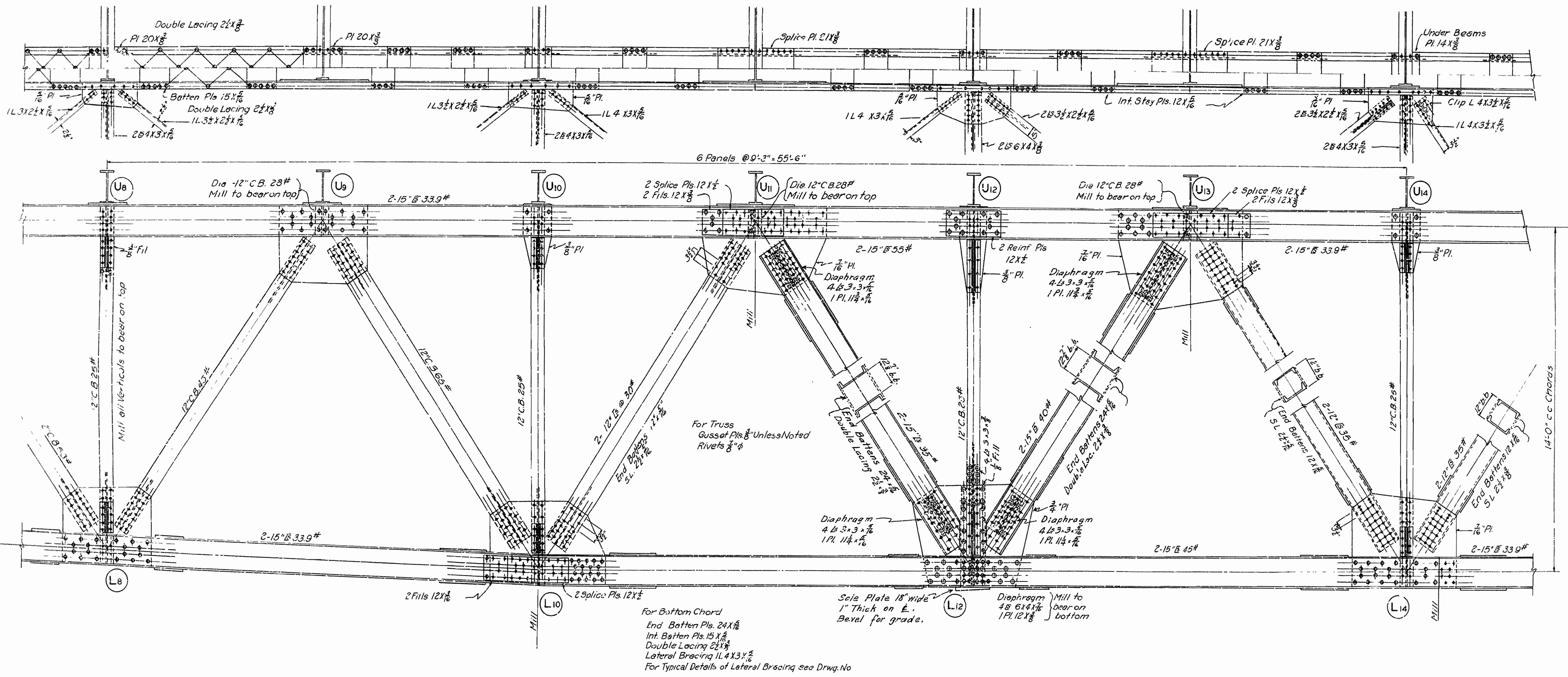
DETAILS OF END SPAN NO. 1
 BRIDGE OVER NORTH FORK OF WHITE RIVER
 NORFORK-MOUNTAIN HOME
 BAXTER COUNTY
 ROUTE 5 SEC. 8

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: L.A.M.S. Date: 5-18-36
 Traced By: C.B.Y. Date: 5-25-36
 Checked By: _____ Date: _____
 BRIDGE NO. 587 DRAWING NO. 4519

N.B. Leaver
 BRIDGE ENGINEER

Rev. U3-U1, add rivets-3-27-37 H.E.

FED. ROAD DIST. NO.	STATE	U.S.W.P.G.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM 375 A	1936	7	23
STATE JOB NO. 5194					



DETAIL OF CANTILEVER TRUSS-SPAN NO. 1
 BRIDGE OVER NORTH FORK OF WHITE RIVER
 NORFOLK-MOUNTAIN HOME ROAD
 BAXTER COUNTY
 ROUTE 5 SEC. 8.

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

Drawn By: B.G. Date: 5-16-36
 Traced By: C.B.Y. Date: 5-18-36
 Checked By: _____ Date: _____

Scale: 1/2" = 1'-0"

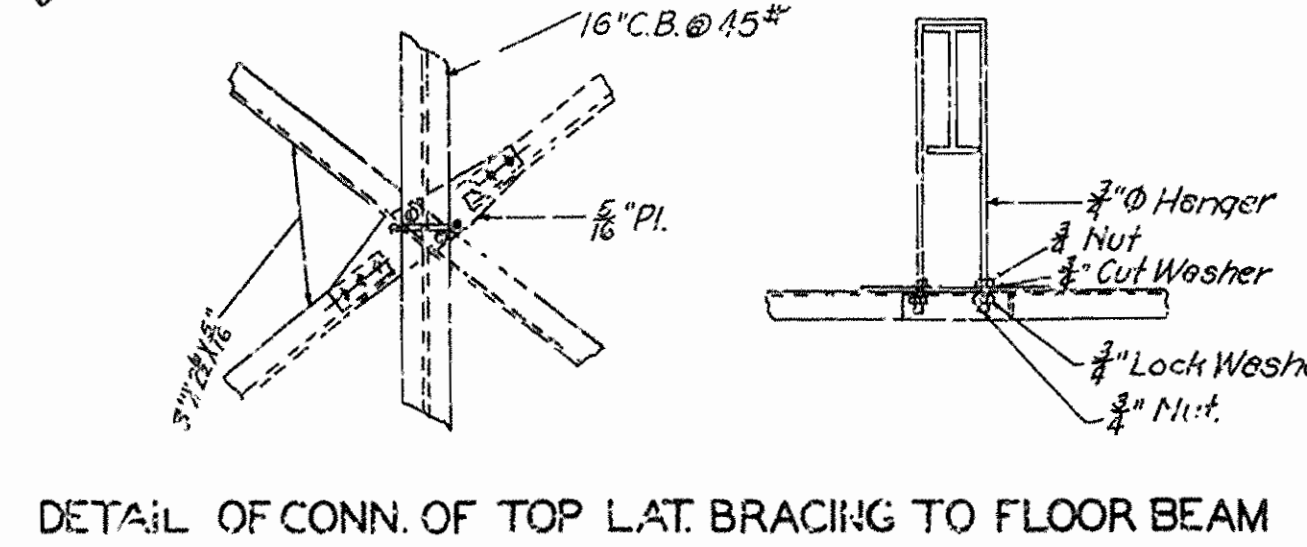
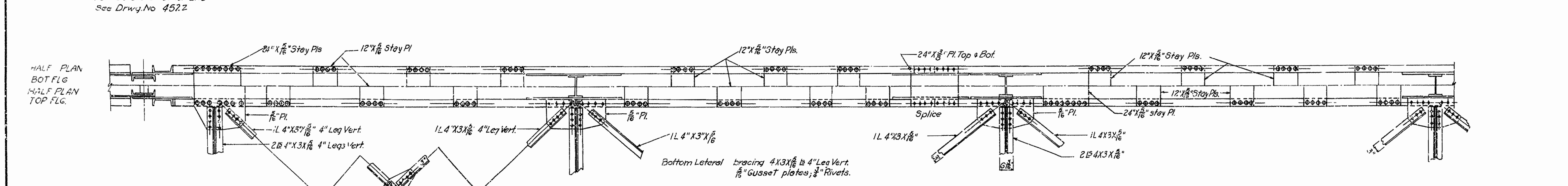
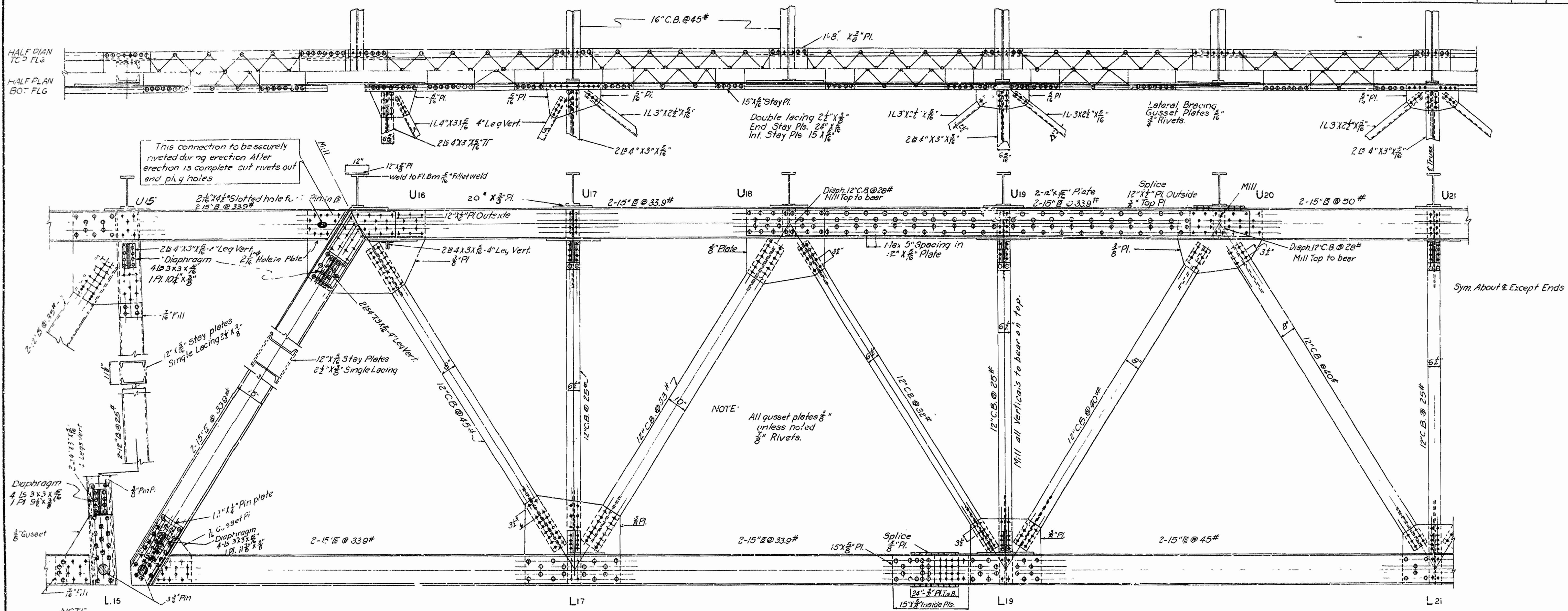
BRIDGE NO. 587 **DRAWING NO. 4520**

N.B. Barber
 BRIDGE ENGINEER

Rev. L10-11, add rivets - 3-22-37, 1/8"

FED. ROAD DIST. NO.	STATE	U.S.W.P.G.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WFGM 375 A	1936	8	23

STATE JOB NO. 5194



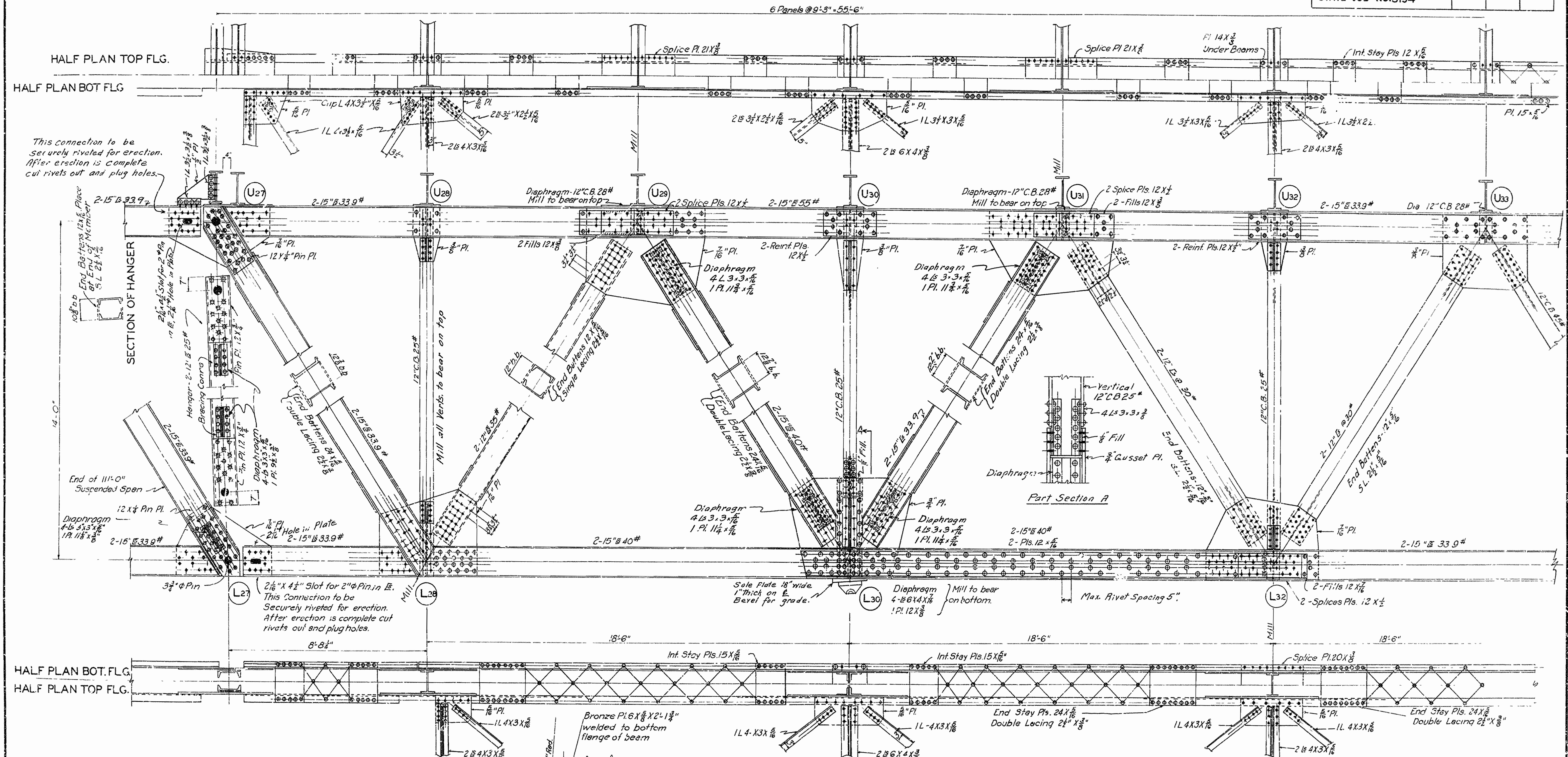
Revised: Added Diaphragms at U15-U16 and L15-L16
6-15-36 H.B.
Add 3 rivets 3-22-37 H.B.

DETAIL OF SUSPENDED SPAN-SPAN NO.2
BRIDGE OVER NORTH FORK OF WHITE RIVER
NORFORK-MOUNTAIN HOME ROAD
BAXTER COUNTY
ROUTE 5 SEC. 8.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: L.A.M. Date: 5-14-36
Traced By: C.B.V. Date: 5-18-36
Checked By: _____ Date: _____
BRIDGE NO. 587 DRAWING NO. 4521

N.B. Carter
BRIDGE ENGINEER

Scale: $\frac{1}{2}$ in. = 1'-0" ft.

FED. ROAD DIST. NO.	STATE	U.S.W.P.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM 375 A	1936	9	23
STATE JOB NO. 5194					



DETAILS OF CANTILEVER TRUSS-SPAN NO. 3
 BRIDGE OVER NORTH FORK OF WHITE RIVER
 NORFOLK-MOUNTAIN HOME ROAD
 BAXTER COUNTY

ROUTE 5 SEC. 8.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

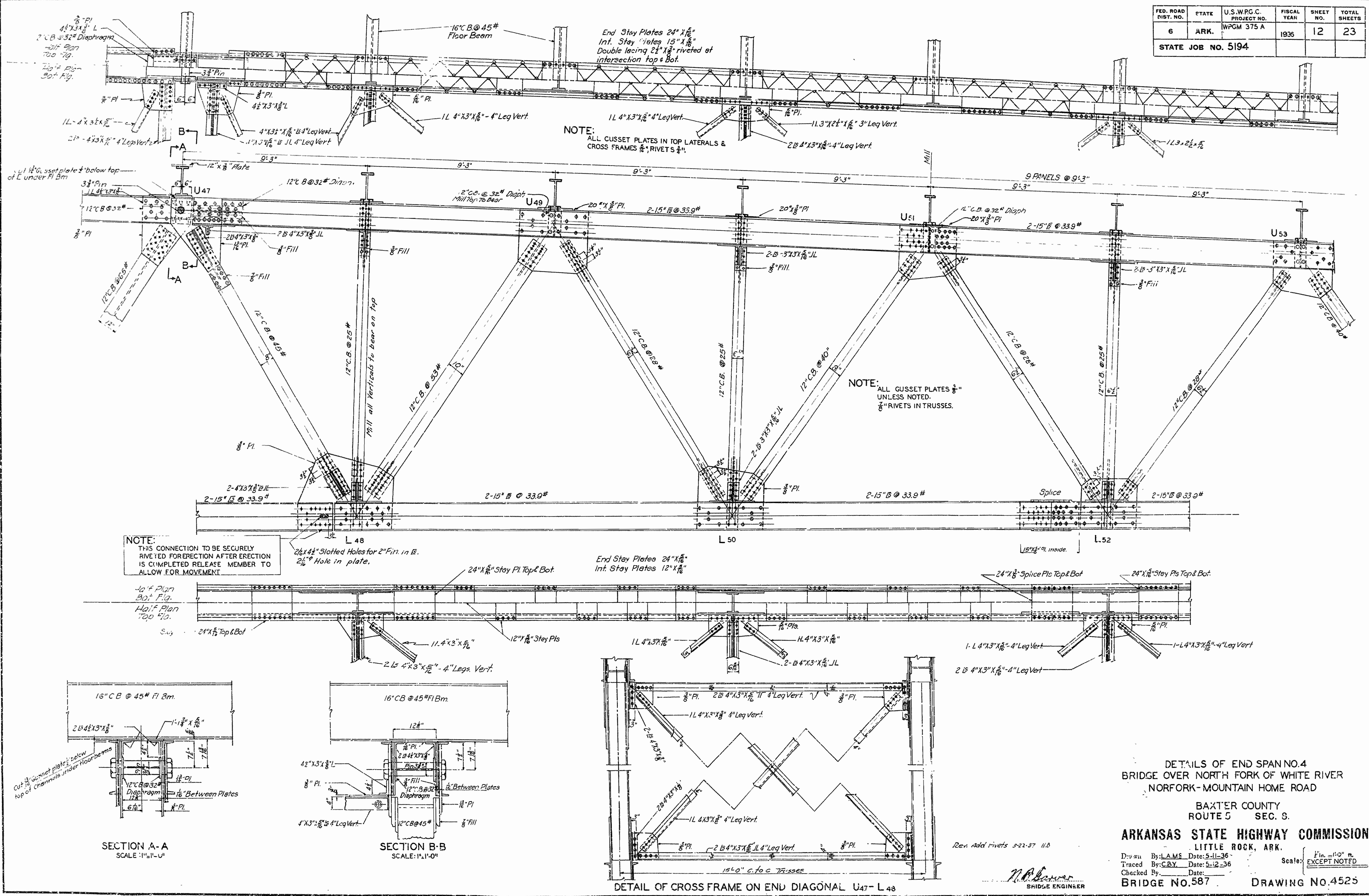
Drawn By: B.G. Date: 5-36
 Traced By: C.R.Y. Date: 5-36
 Checked By: Date:

Scale: 1/2" = 1'-0" AND AS NOTED

BIDGE No. 587 DRAWING No. 4522

M.A. Barber
 BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE	U.S. W.P.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM 375 A	1936	12	23
STATE JOB NO. 5194					



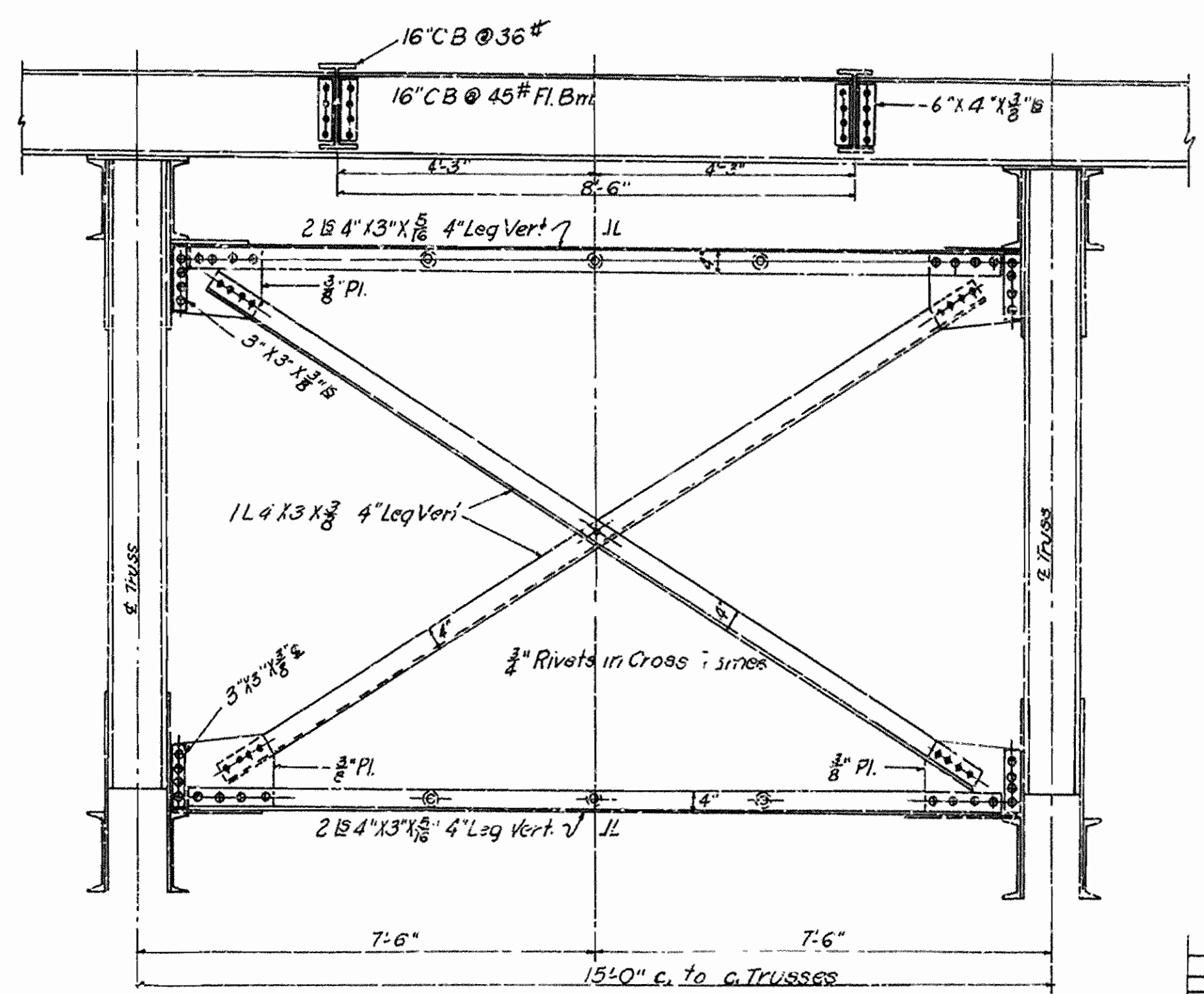
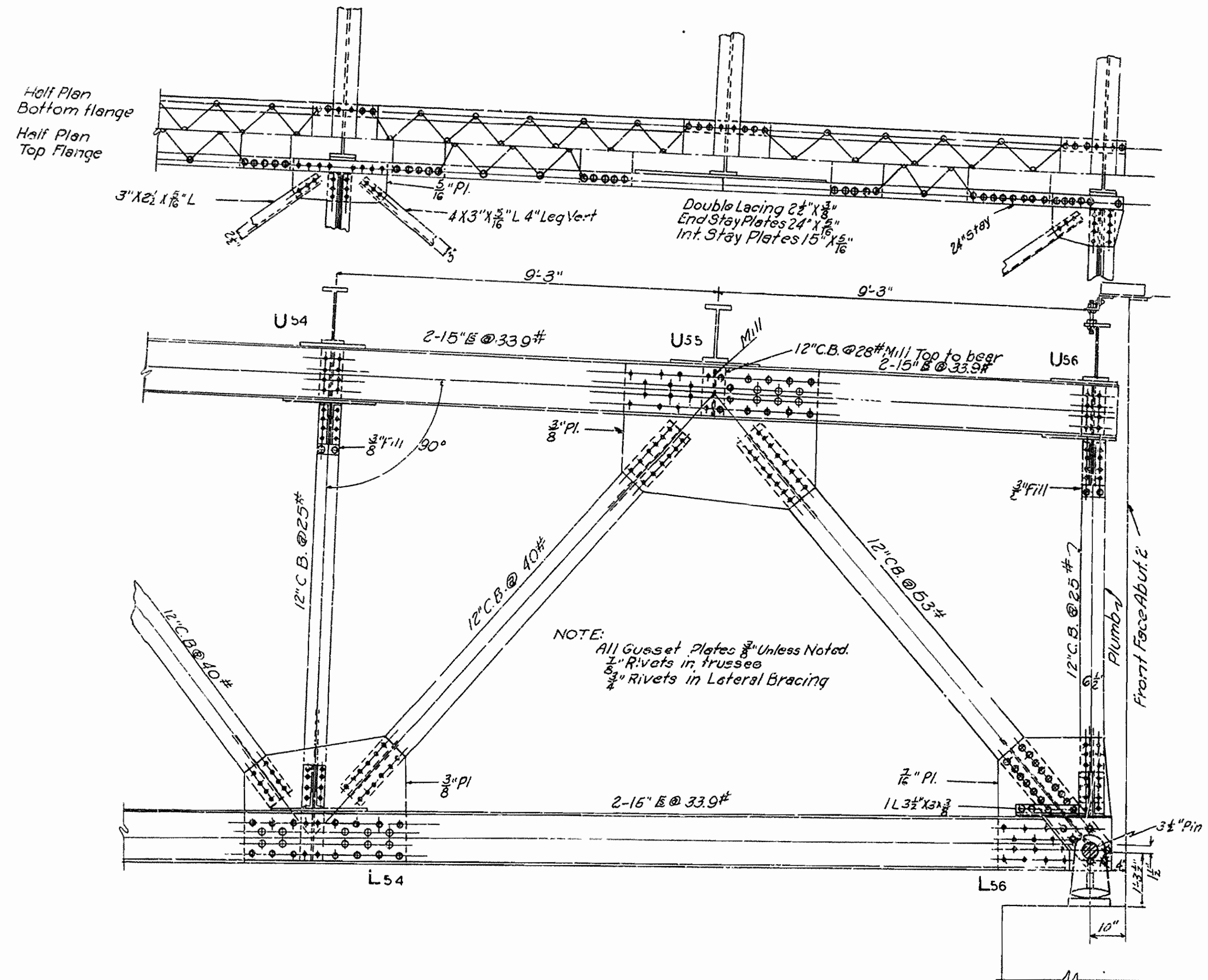
DETAILS OF END SPAN NO. 4
 BRIDGE OVER NORTH FORK OF WHITE RIVER
 NORFOLK-MOUNTAIN HOME ROAD
 BAXTER COUNTY
 ROUTE 5 SEC. 9.
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: L.A.M.S. Date: 5-11-36
 Traced By: C.B.Y. Date: 5-12-36
 Checked By: _____ Date: _____
 Scale: $\frac{1}{4}$ " = 1'-0" or EXCEPT NOTED
 BRIDGE ENGINEER
 BRIDGE NO. 587 DRAWING NO. 4525

SECTION A-A
 SCALE: 1" = 1'-0"

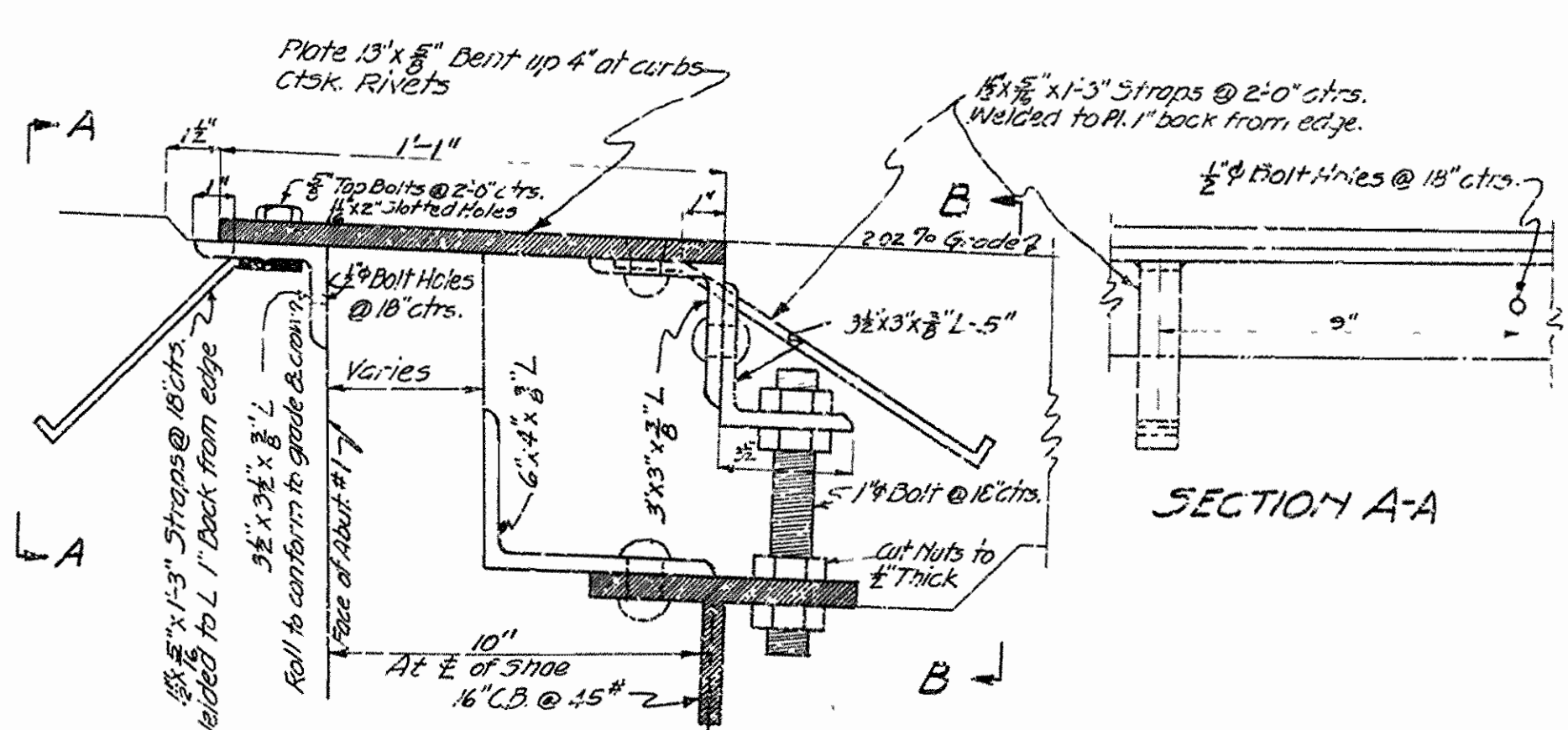
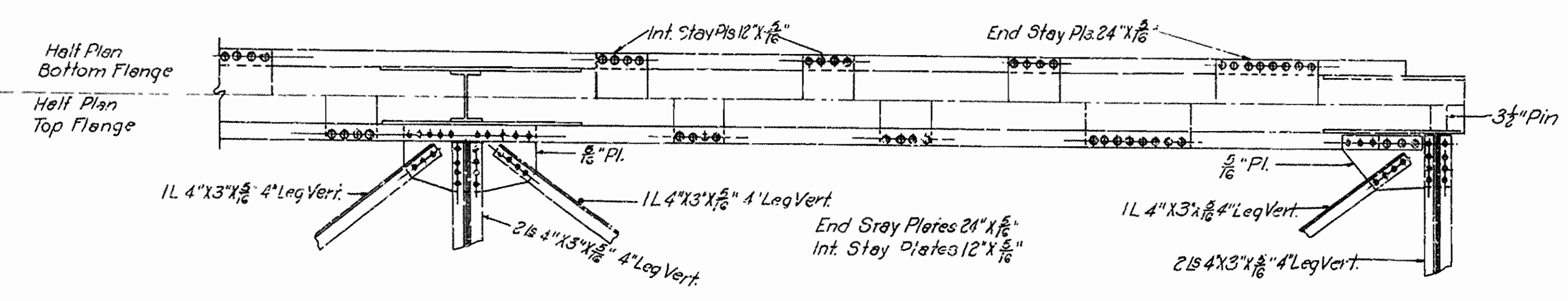
SECTION B-B
 SCALE: 1" = 1'-0"

DETAIL OF CROSS FRAME ON END DIAGONAL U47-L48

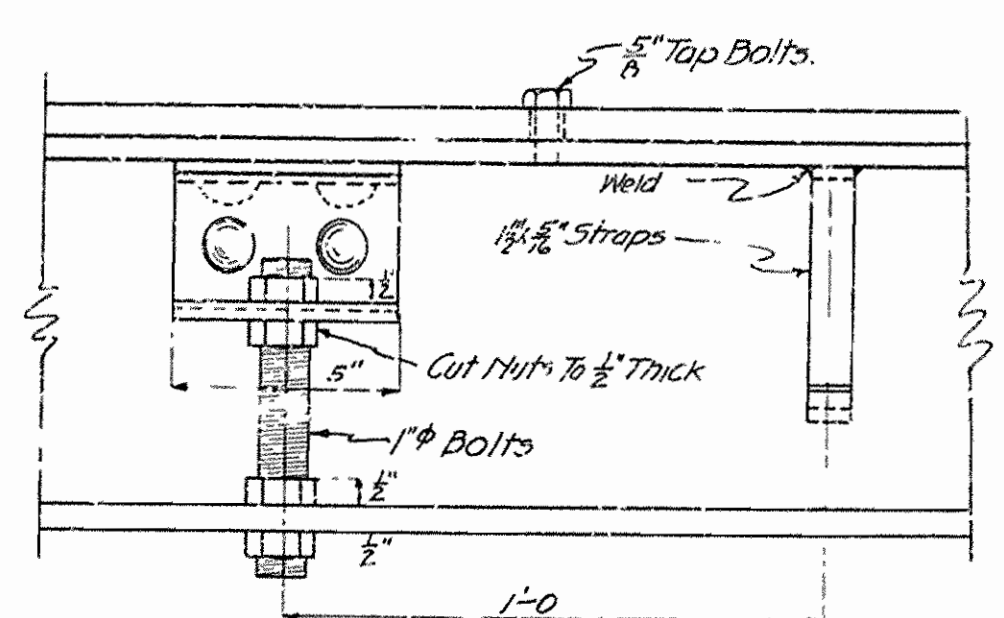
FED. ROAD DIST. NO.	STATE	U.S.W.P.G.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM 375 A	1936	13	23
STATE JOB NO. 5194					



DETAIL OF CROSS FRAME AT ABUTMENTS



DETAILS OF EXP. DEVICE AT ABUT'S. Scale 3"=1'-0"



SECTION B-B. Scale 3"=1'-0"

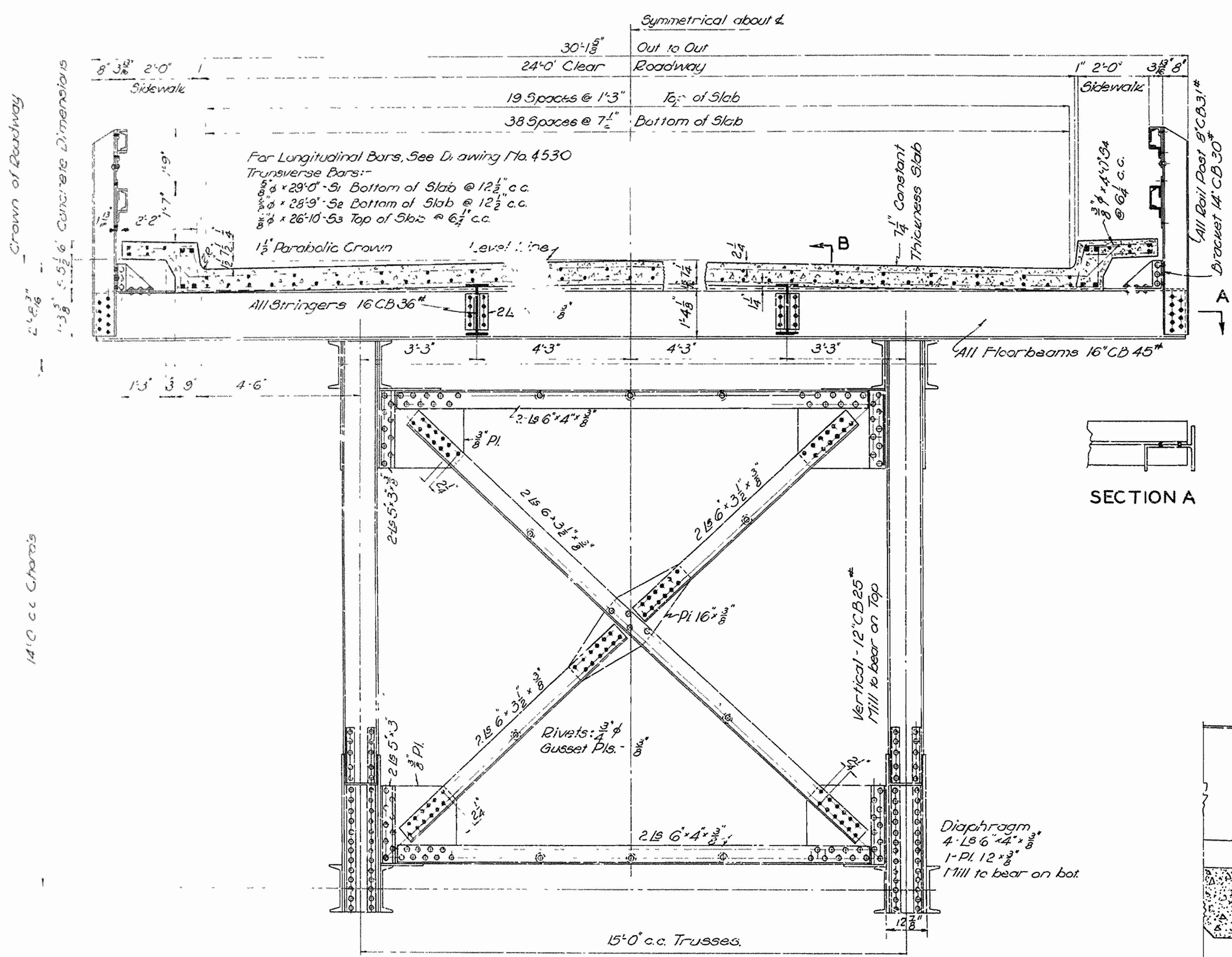
DETAILS OF END SPAN NO. 4
 BRIDGE OVER NORTH FORK OF WHITE RIVER
 NORFOLK-MOUNTAIN HOME ROAD
 BAXTER COUNTY
 ROUTE 5 SEC. 8.

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: L.A.M.S. Date: 5-19-36
 Traced By: C.B.V. Date: 5-21-36
 Checked by: _____ Date: _____
 Scale: 1/2" = 1'-0"

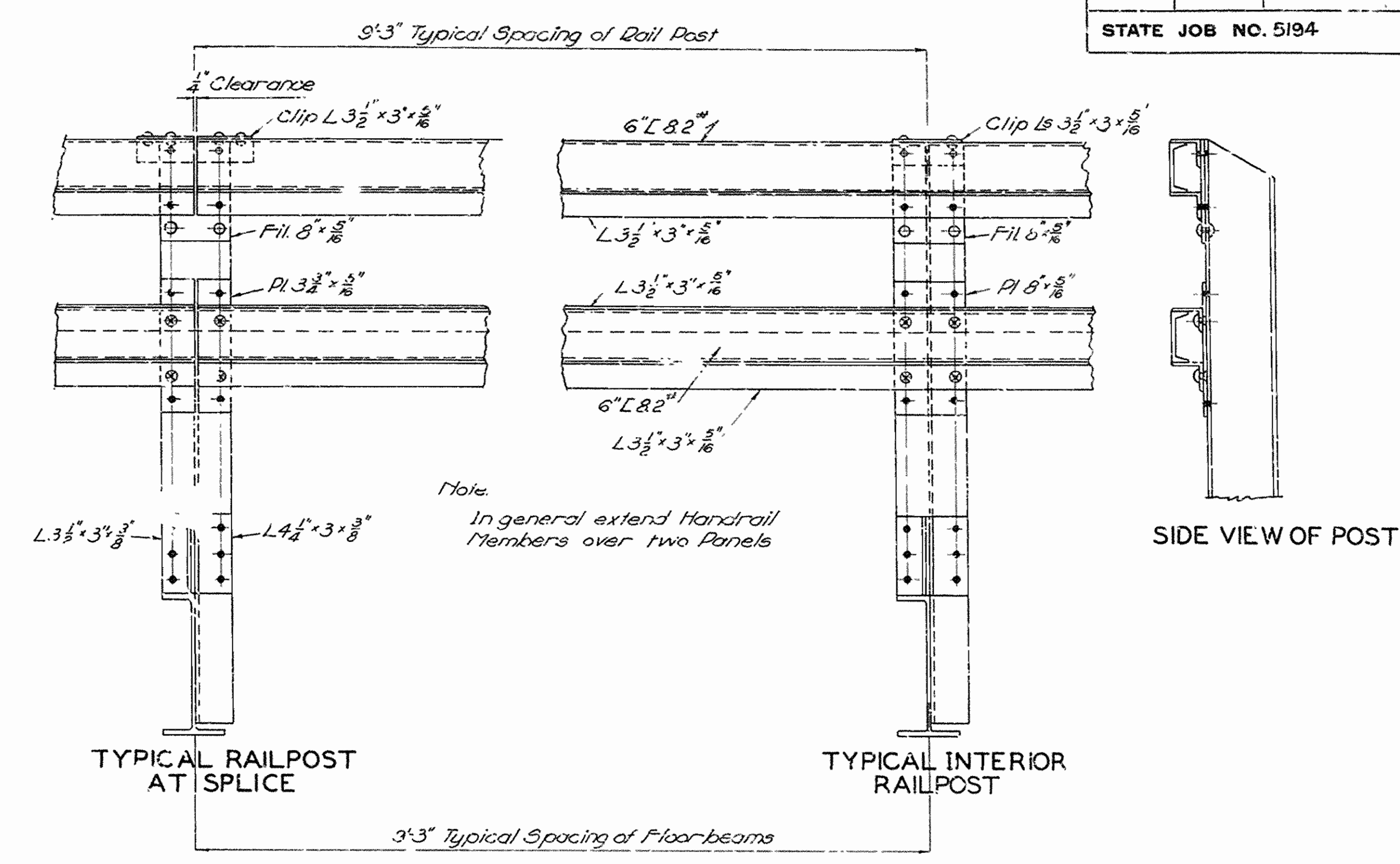
M.B. Sawyer
 BRIDGE ENGINEER

BRIDGE NO. 587 DRAWING NC.4526

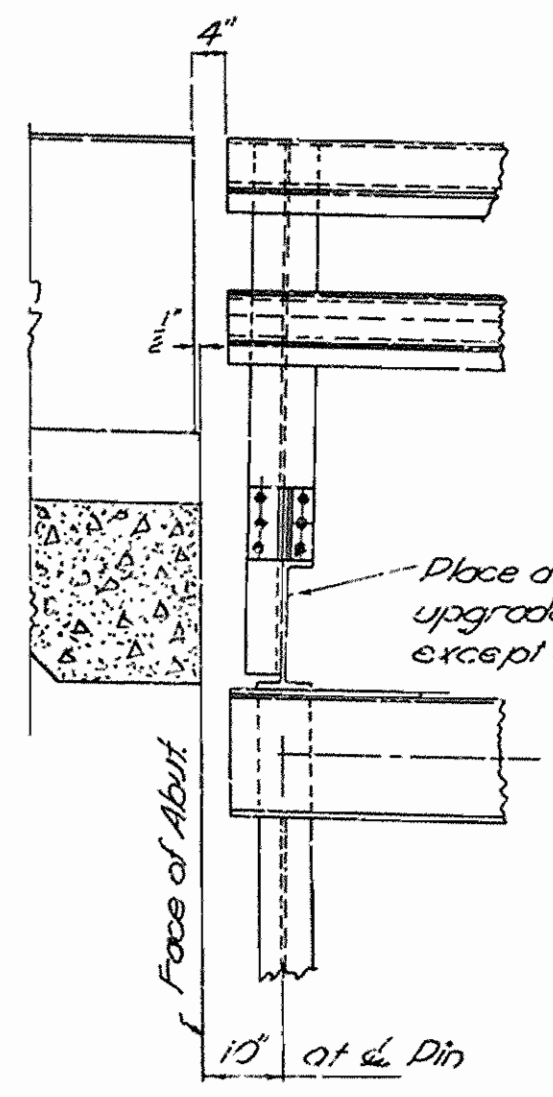
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM-375-A	1936	14	23
STATE JOB NO. 5194					



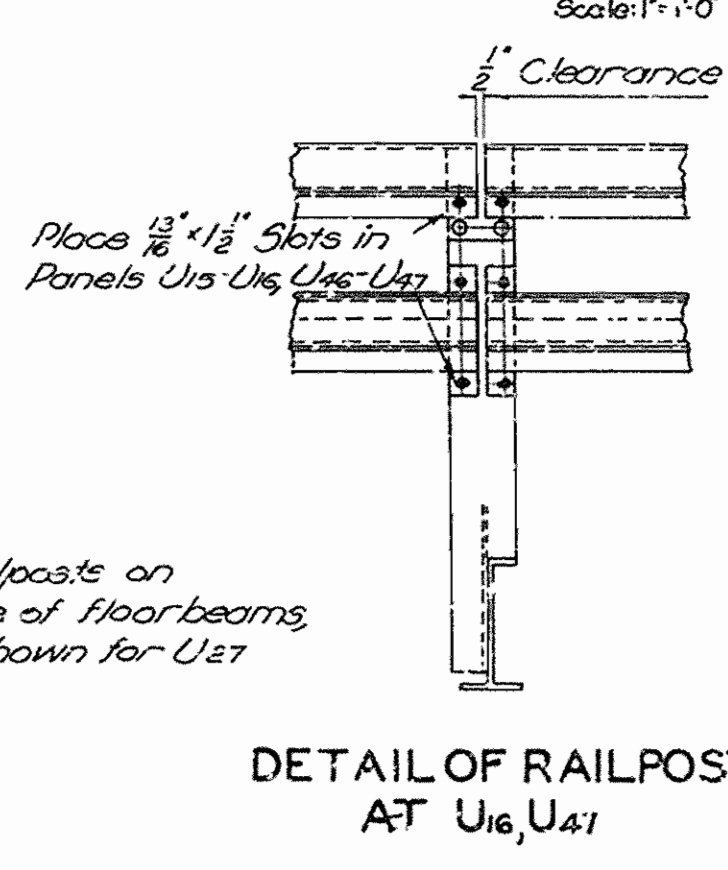
TYPICAL CROSS SECTION-SHOWING CROSS FRAME AT PIERS



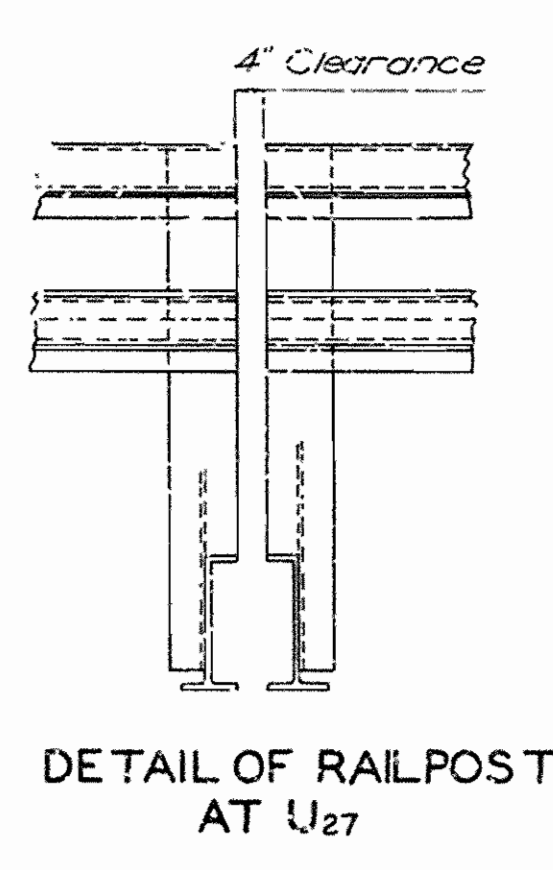
ELEVATION OF HANDRAIL PANEL



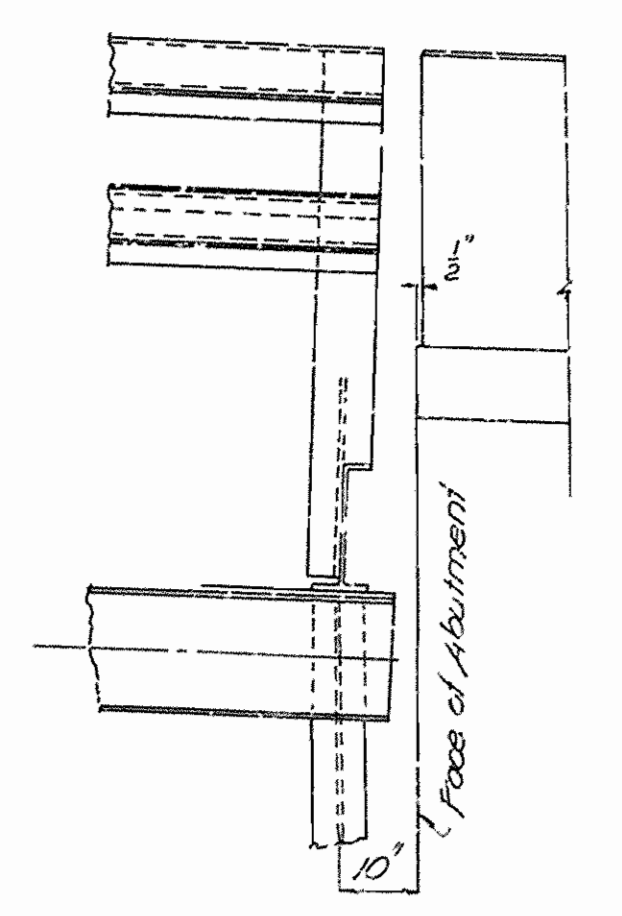
DETAIL OF RAILPOST AT U6



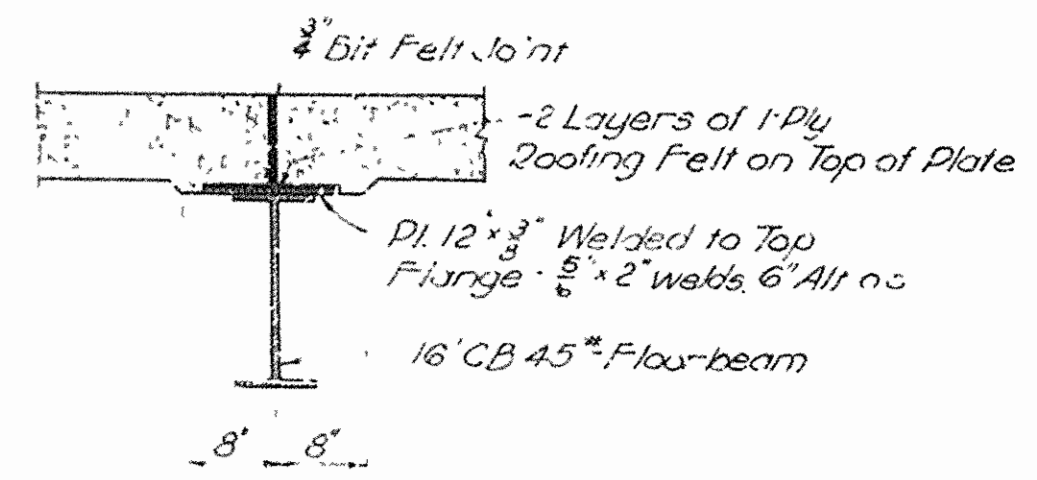
DETAIL OF RAILPOST AT U16, U41



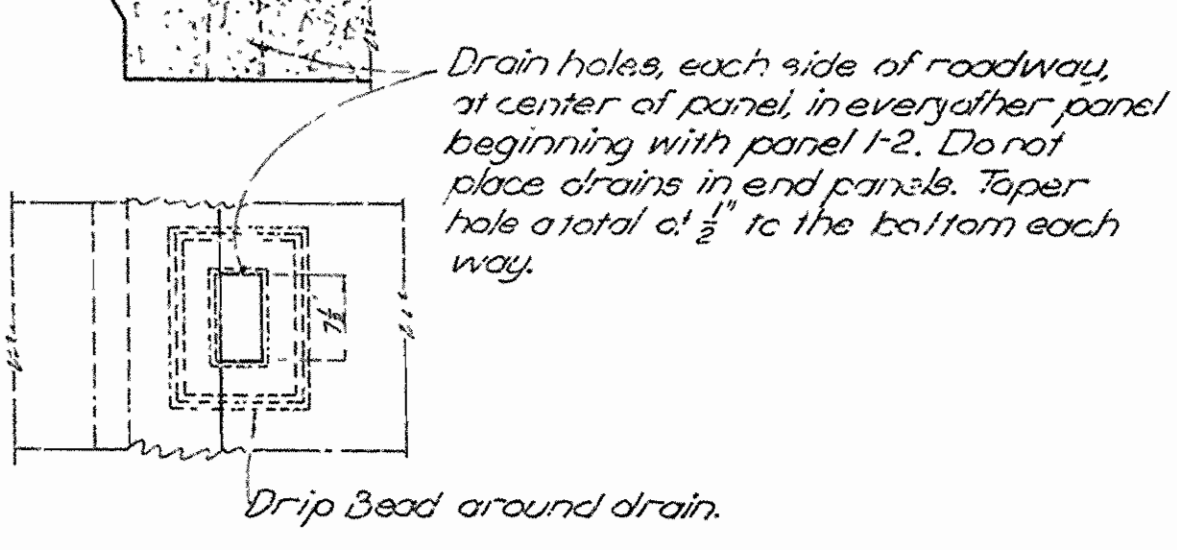
DETAIL OF RAILPOST AT U27



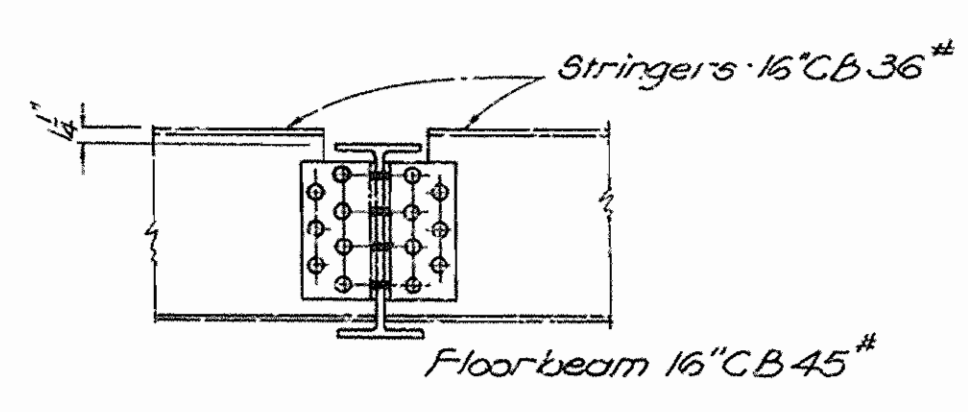
DETAIL OF RAILPOST AT U56



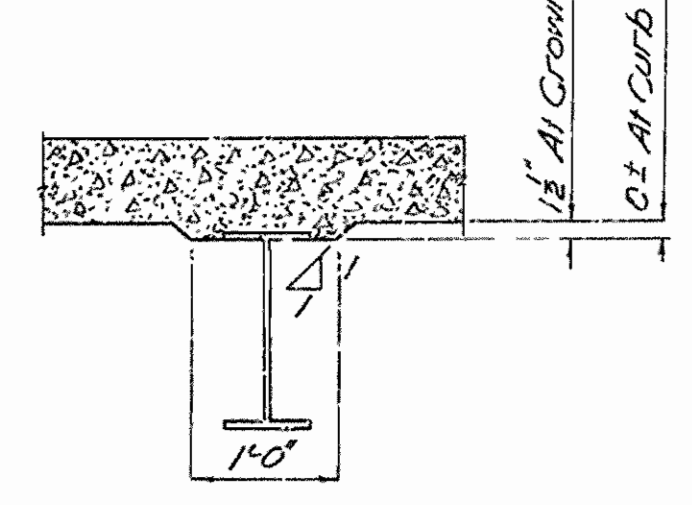
DETAIL OF JOINT IN FLOOR SLAB AT U16, U41



DETAIL OF ROADWAY DRAIN



SECTION B-B (Typical)



SECTION B To Show Concrete Dimensions

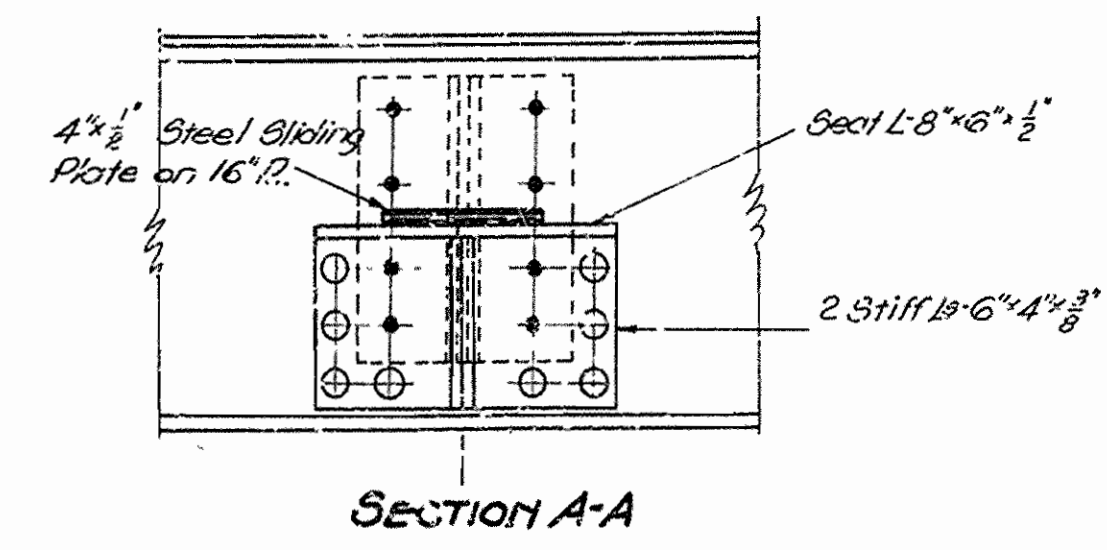
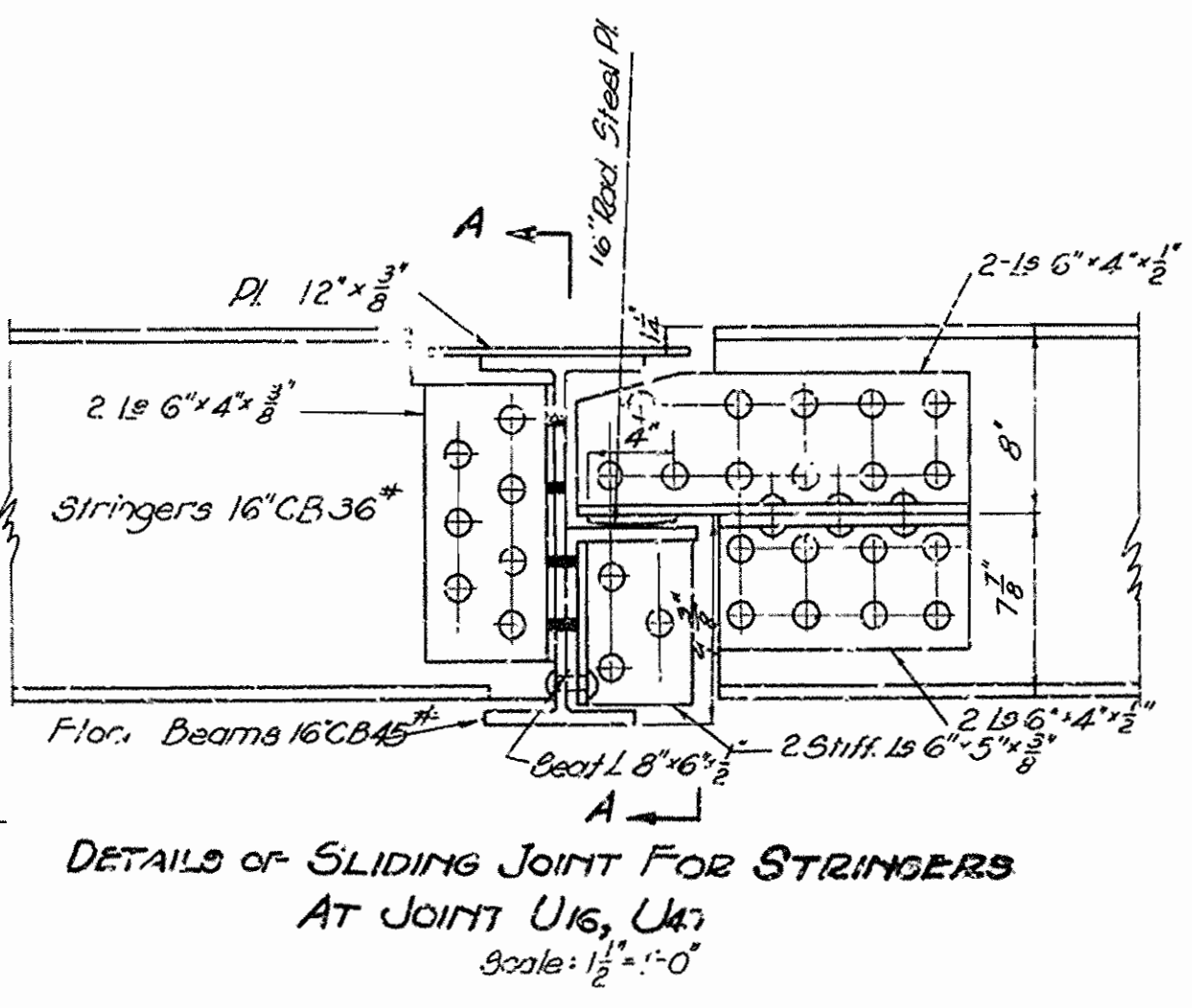
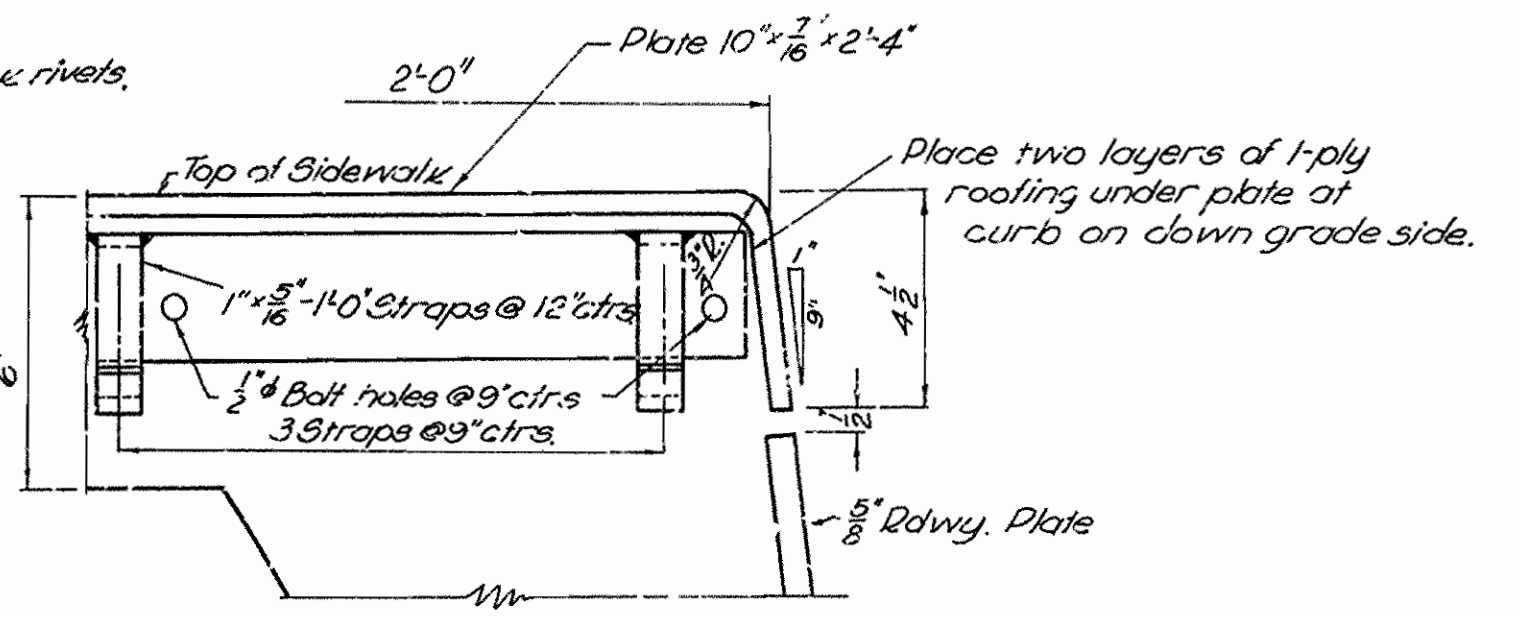
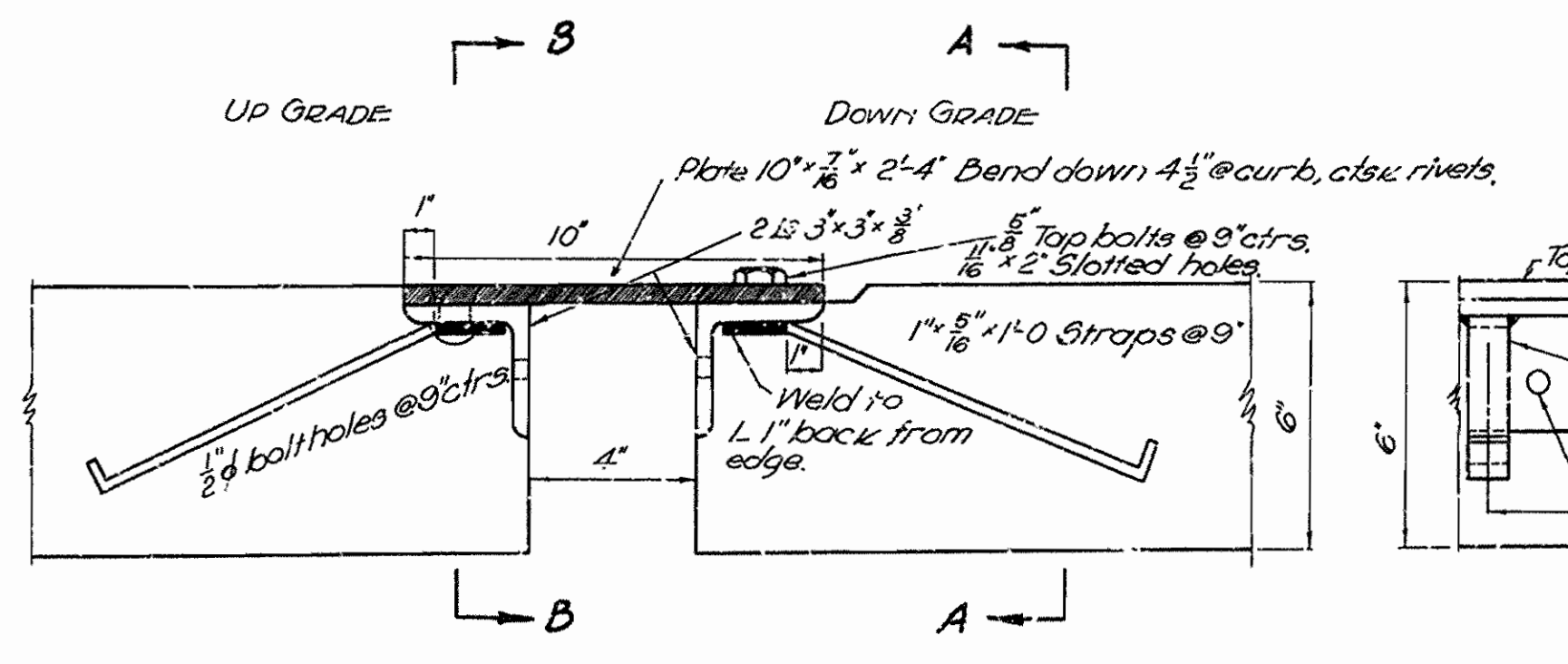
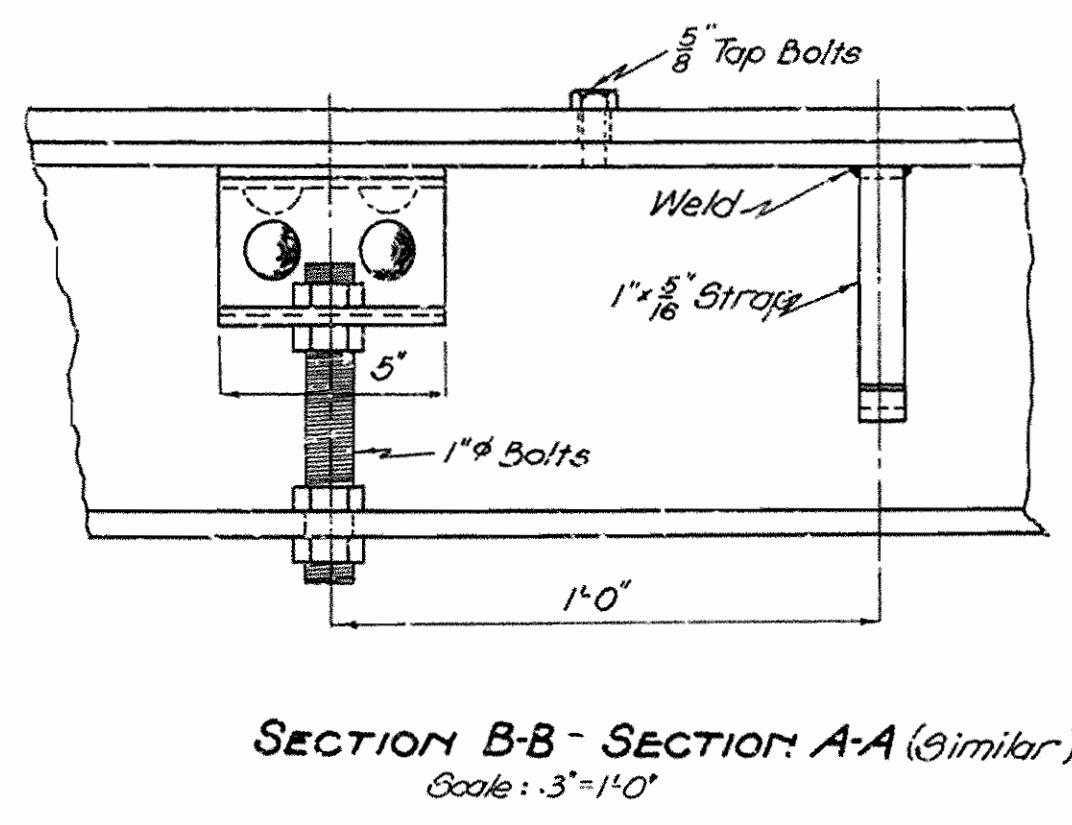
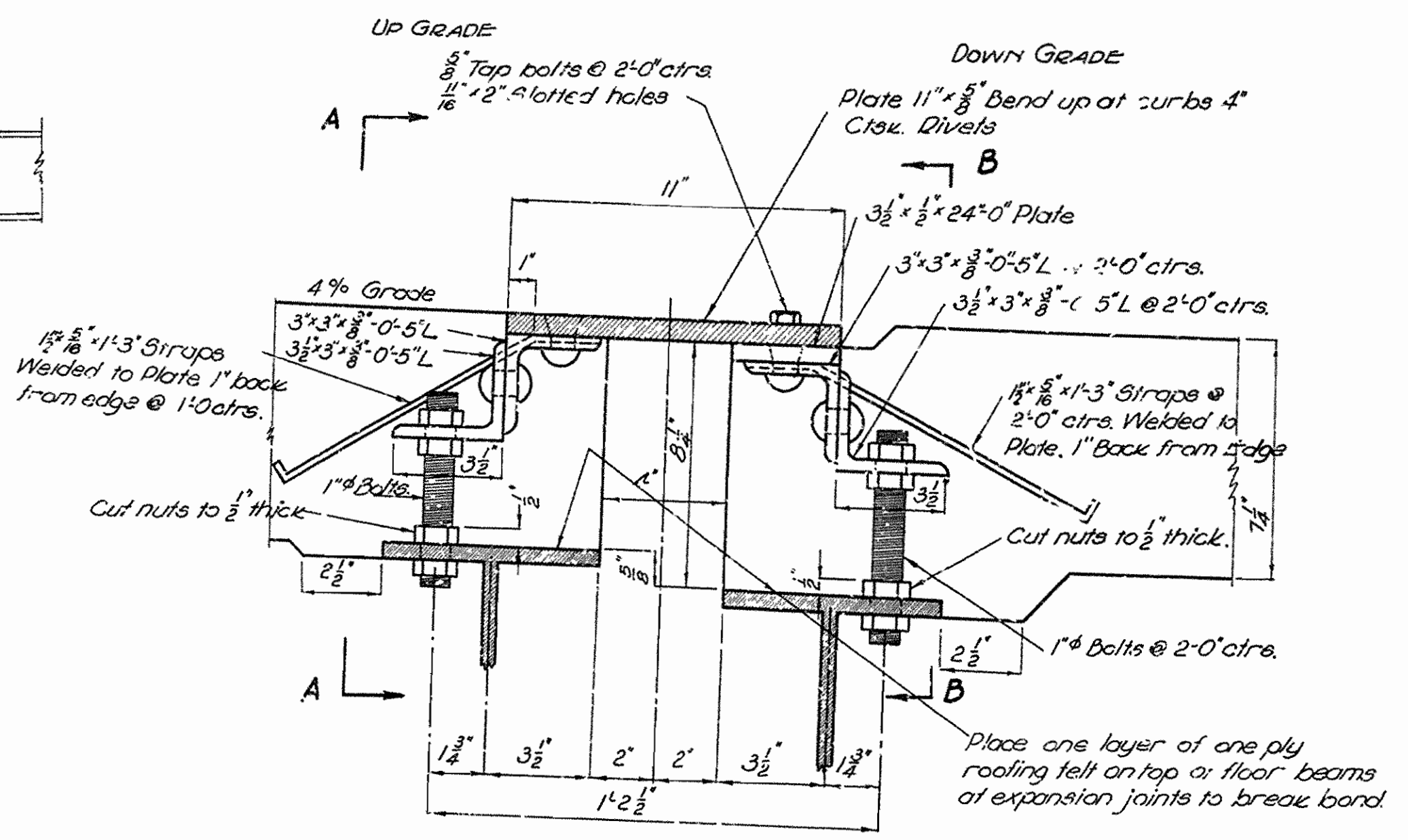
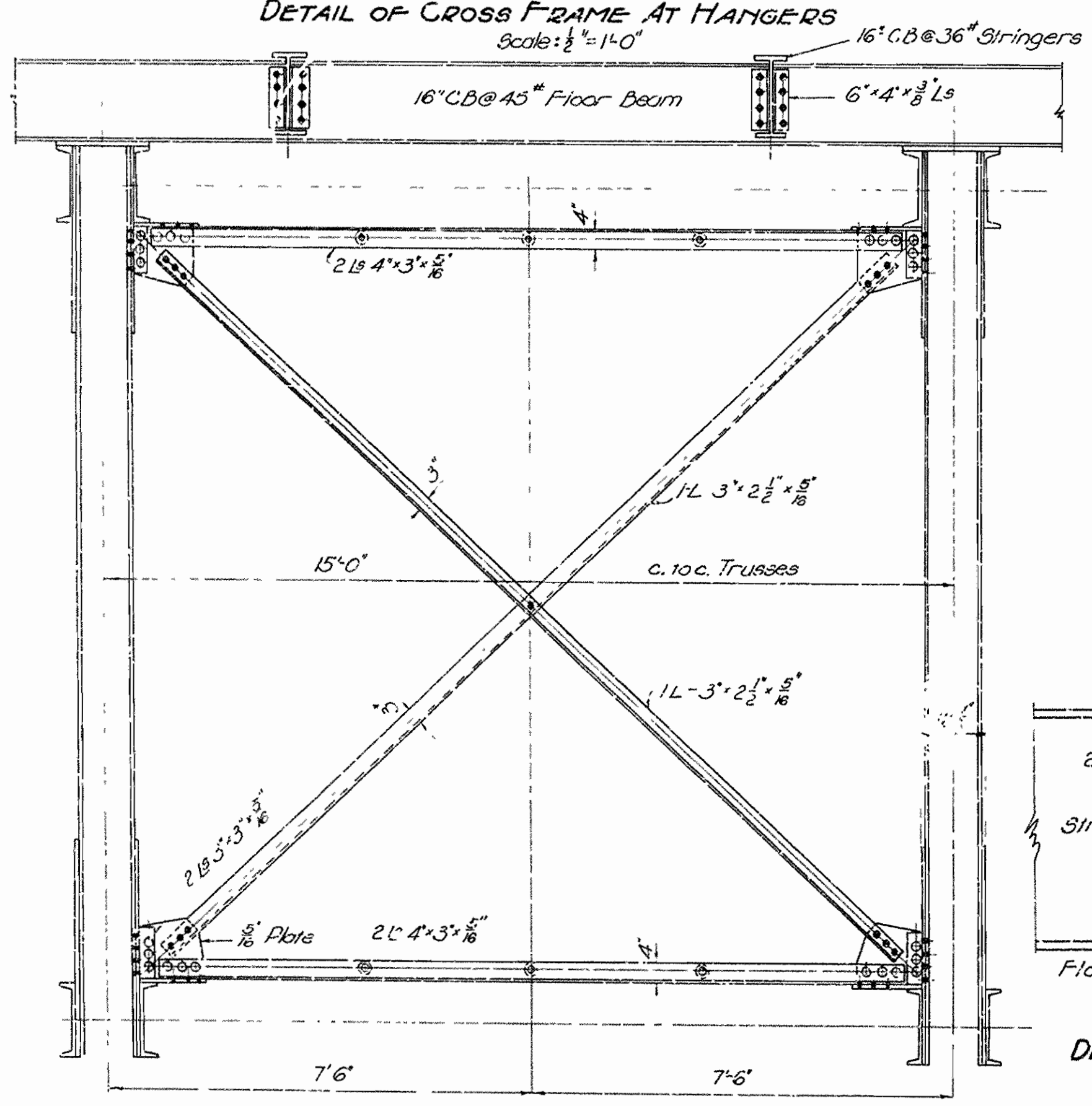
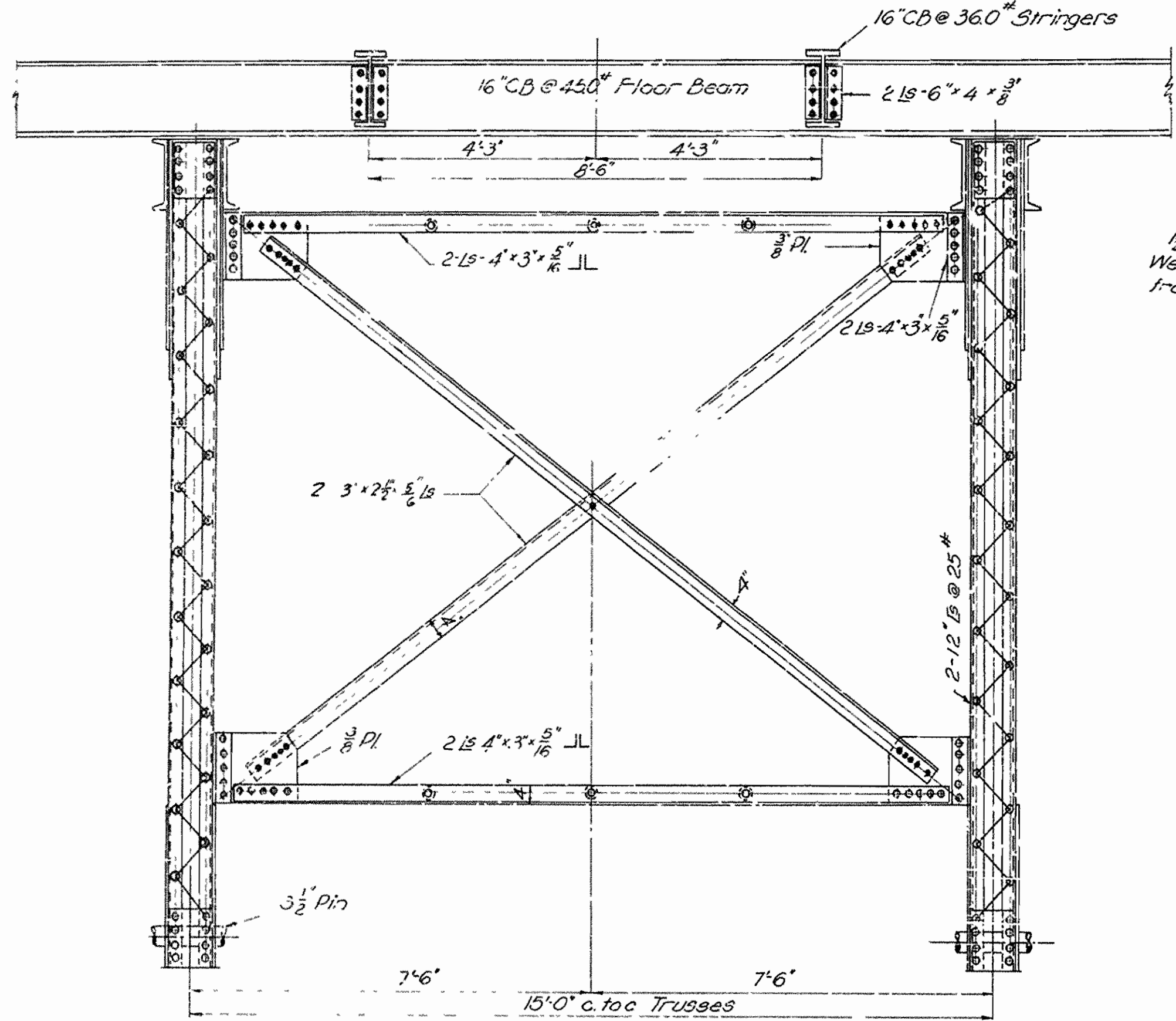
TYPICAL CROSS SECTIONS & HANDRAIL DETAILS
 BRIDGE OVER NORTH FORK OF WHITE RIVER
 NORFOLK MOUNTAIN HOME ROAD
 BAXTER COUNTY
 ROUTE 5 SEC. 8

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: E.G. Date: 5-20-36
 Traced By: B.D. Date: 5-22-36
 Checked By: _____ Date: _____
 BRIDGE NO. 587 DRAWING NO. 4527

M.A. Garver
 BRIDGE ENGINEER

Revised 6-17-36 - Rail Height - 4.5.

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM-375 A	1936	15	23
STATE JOB NO. 5184					



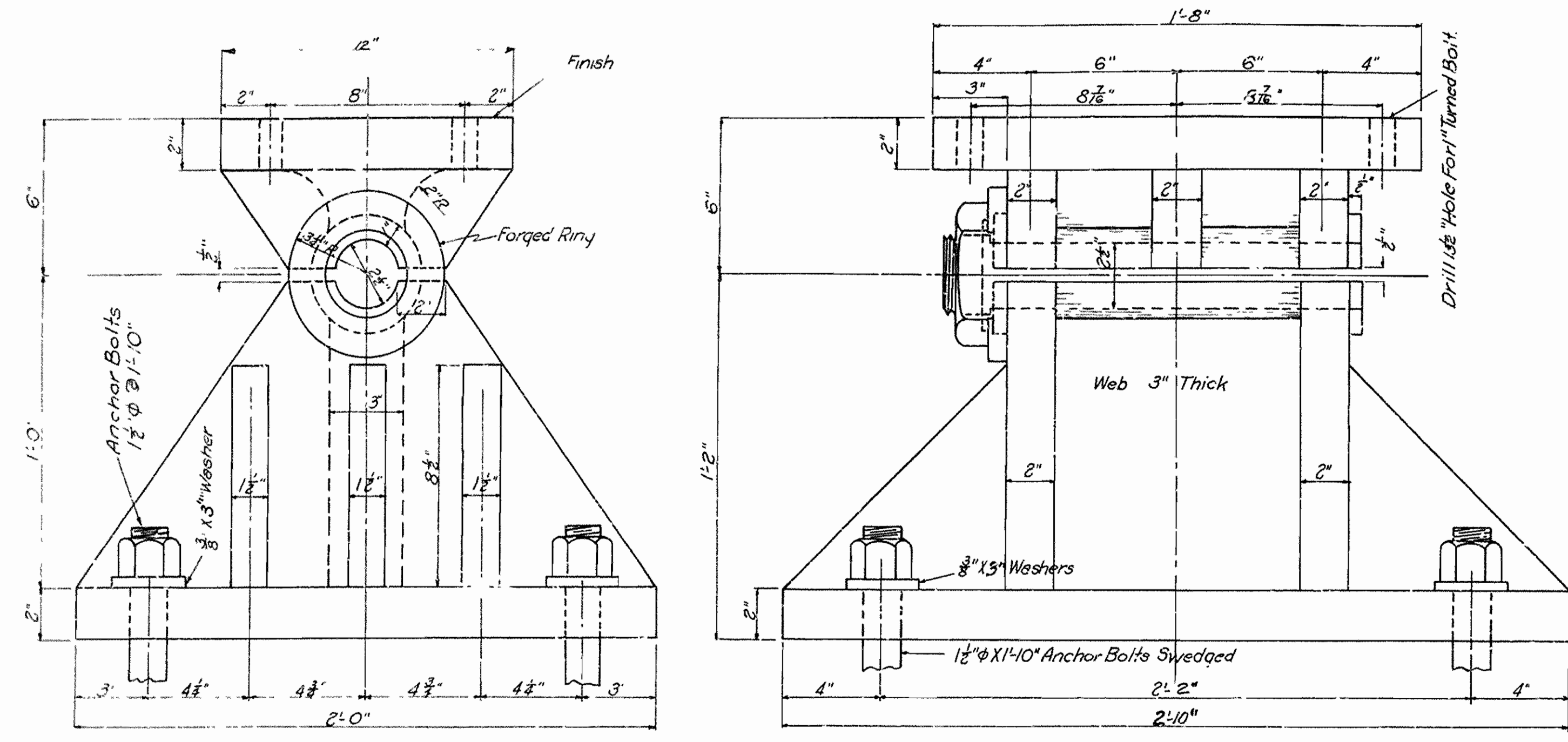
DETAILS OF CROSS FRAMES & EXPANSION DEVICES
 BRIDGE OVER NORTH FORK OF WHITE RIVER
 NORFOLK-MOUNTAIN HOME ROAD
 BAXTER COUNTY
 ROUTE 5 SEC. 8

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: L.A.M. Date: 5-22-36
 Traced By: B.D. Date: 5-28-38
 Checked By: _____ Date: _____
 Scale: $\frac{1}{2}$ in. = 1 ft.
 BRIDGE NO. 587 DRAWING NO. 4528

Rev. 6-19-36 Minor details HB
 22-37

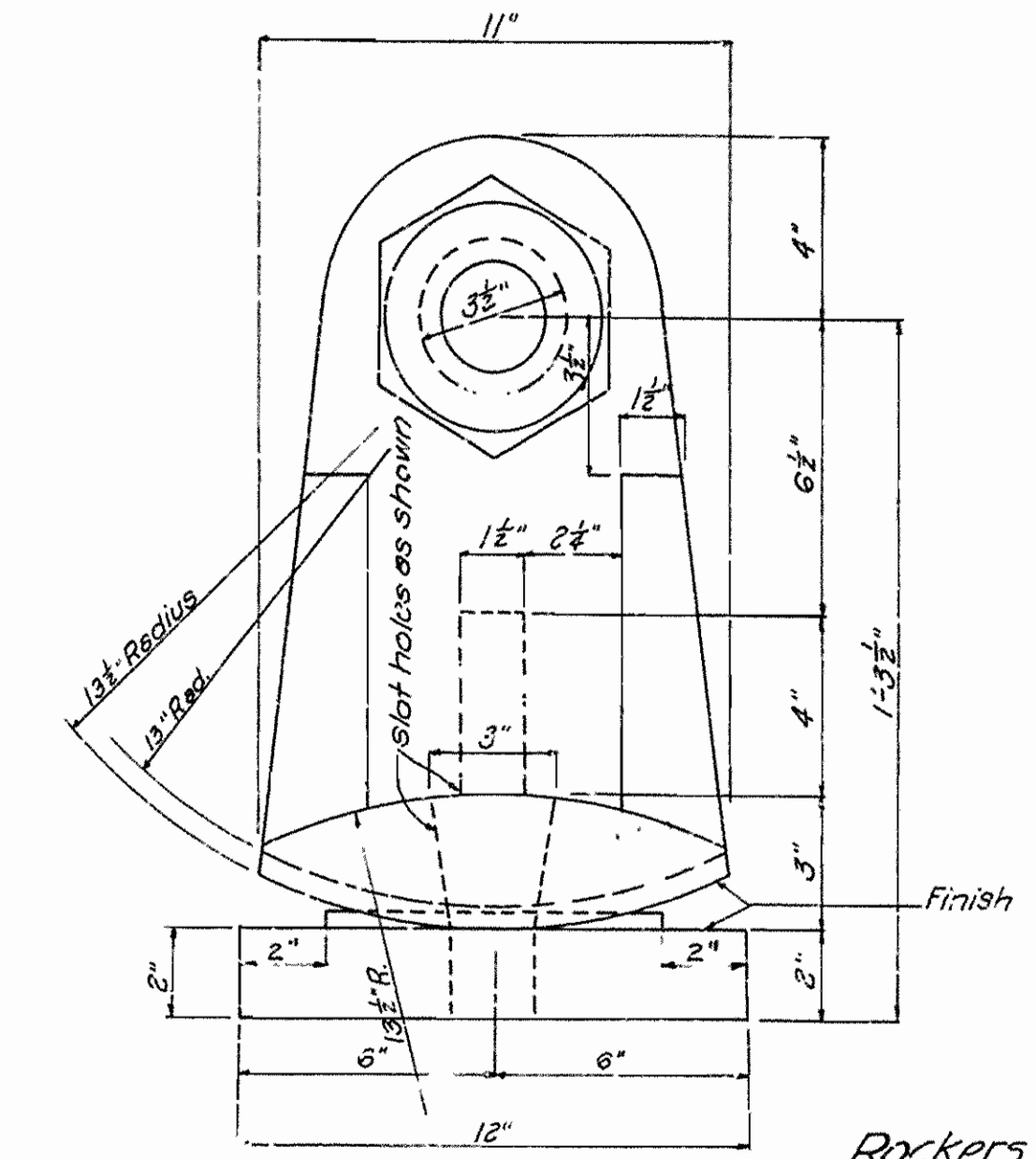
N.B. G...
 BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE	U.S.W.P.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM 375 A	1936	16	23
STATE JOB NO. 5194					

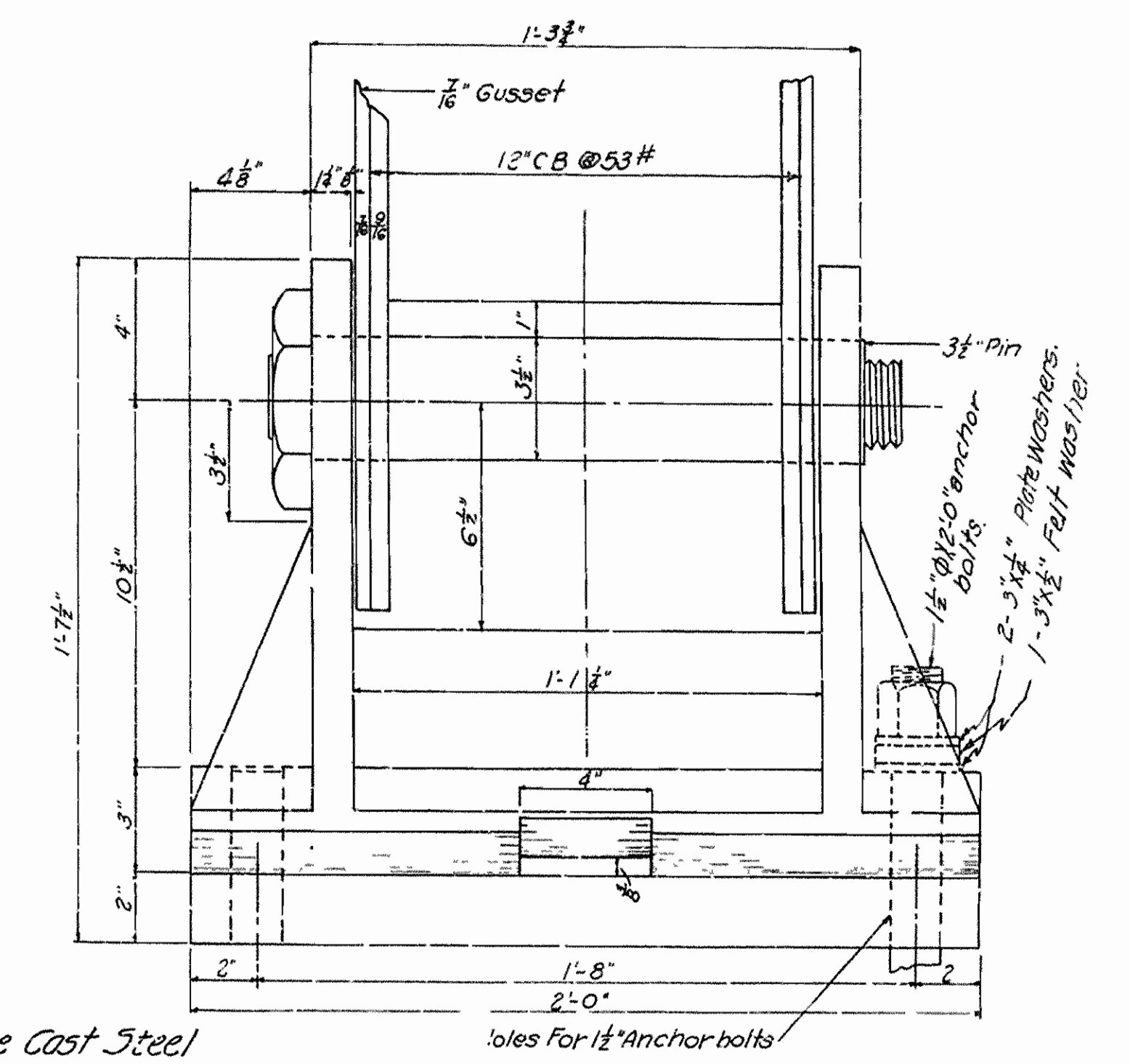


FIXED PEDESTALS CAST STEEL

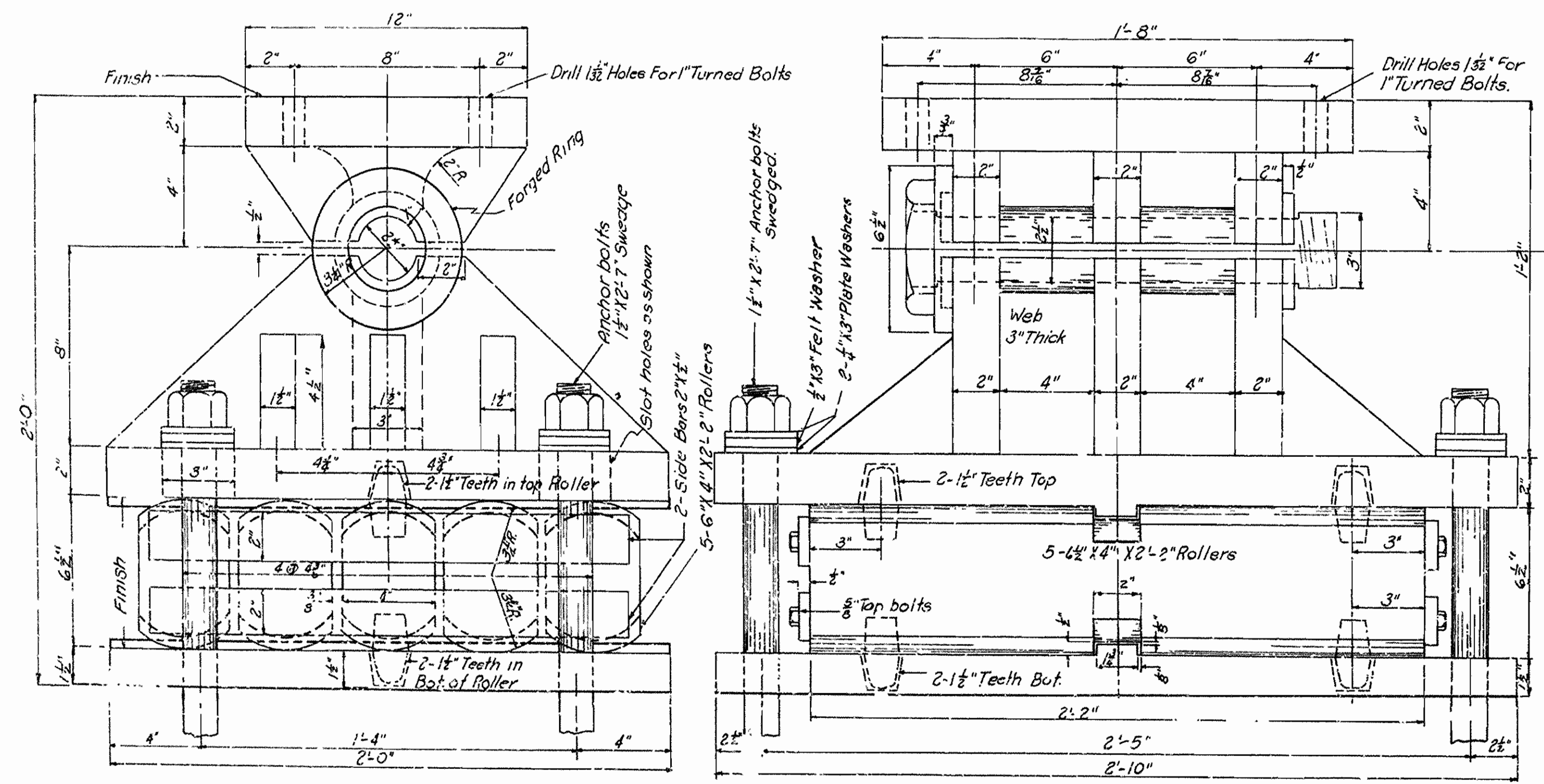
Pedestals of cast steel.
Anchor bolts 1 1/2" X 14"
2 1/2" Pin
2 Forged Steel Rings.



Rockers To Be Cast Steel
Masonry Plates To Be Struct. Steel
DETAIL OF SHOES AT ABUTMENTS



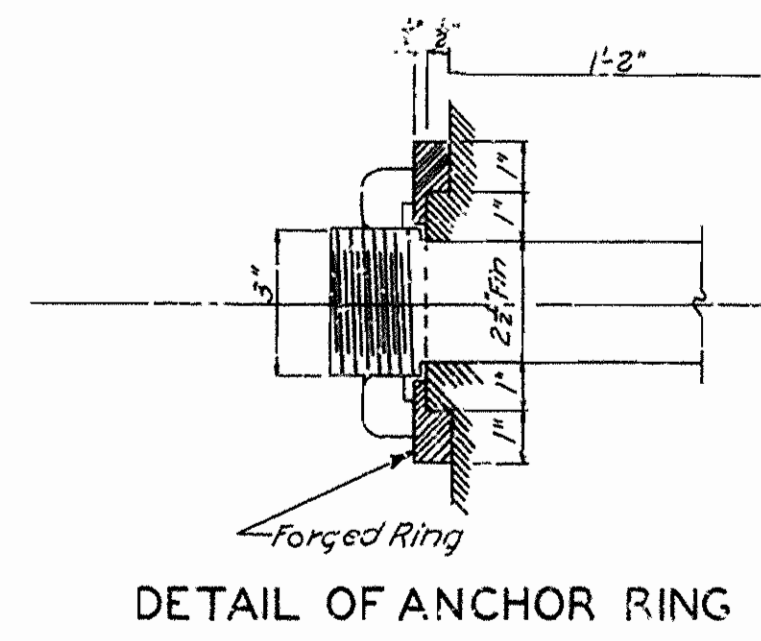
Holes for 1 1/2" Anchor bolts



EXPANSION SHOES--CAST STEEL PEDESTALS

5 Rollers 6X4X2'-2" Struct. Steel.
2 1/2" Pin.
Pedestals of cast steel.
Base Plates 24" X 34" Struct. Steel.
Anchor Bolts 1 1/2" X 27" Swedged.
4 Side Bars 2" X 1/2"

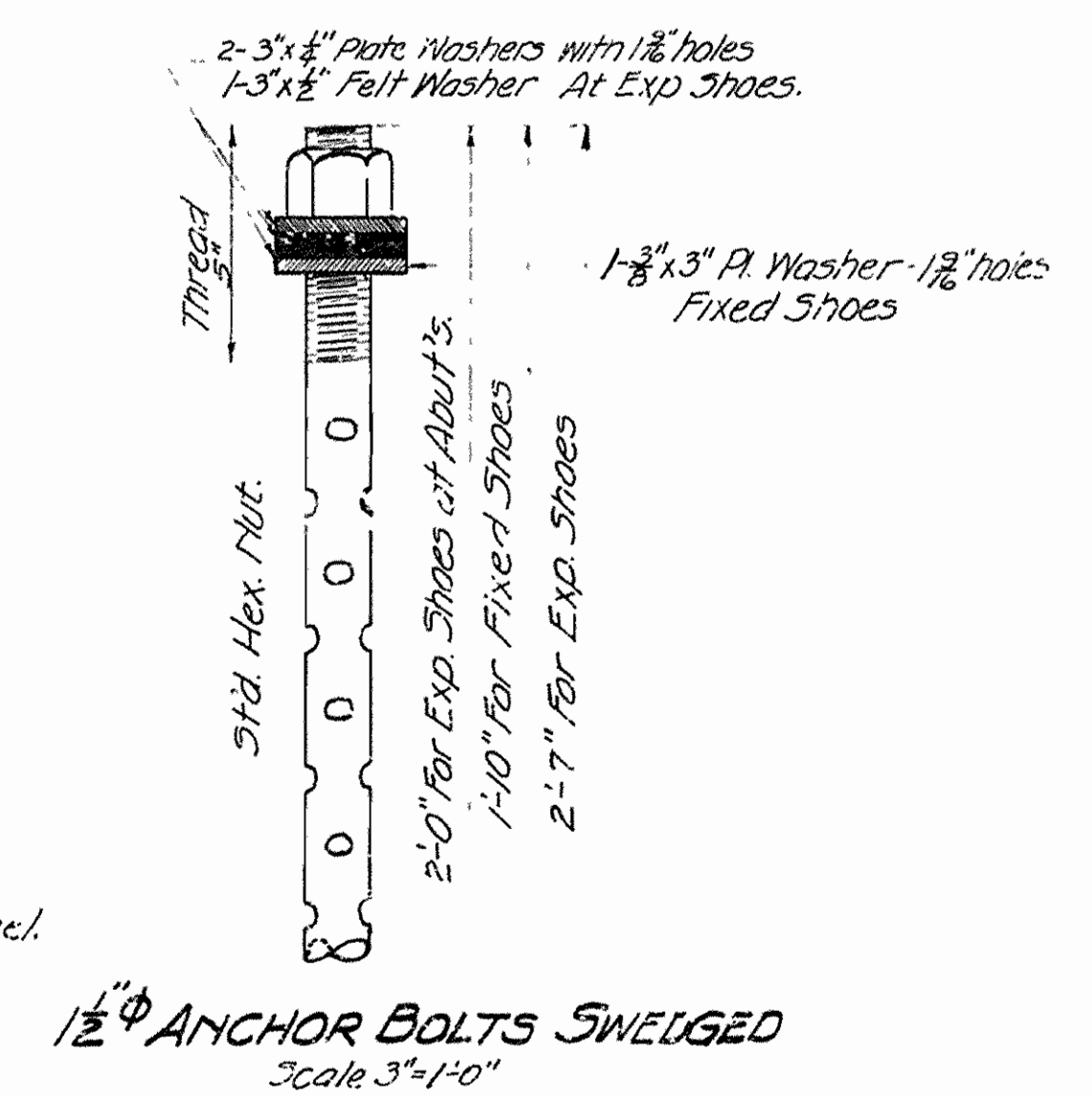
Center roller to be geared to upper and lower plates, 2 teeth top, 2 bot.
Teeth same from 1 1/2" Pin and turned to ellipsoidal shape.
Tooth openings finished to conical shape.



DETAIL OF ANCHOR RING

General Notes:-

Masonry plates shall be finally seated on three layers of burlap saturated with red lead. To be included in price bid for Structural Steel.



1 1/2" ANCHOR BOLTS SWEDGED
Scale 3"=1'-0"

DETAIL OF SHOES
BRIDGE OVER NORTH FORK OF WHITE RIVER
NORFORK-MOUNTAIN HOME ROAD
BAXTER COUNTY
ROUTE 5 SEC. 8.

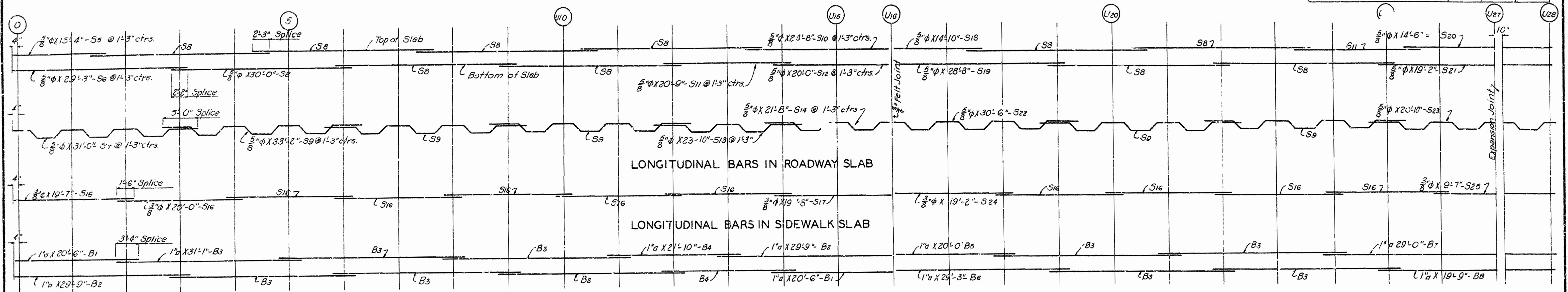
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK
Drawn By: L.A.M. Date: 5-21-36
Traced By: C.B.Y. Date: 5-22-36
Checked By: Date:
BRIDGE NO. 587 DRAWING NO. 4529

Revised 6-19-36 General Corrections H.B.

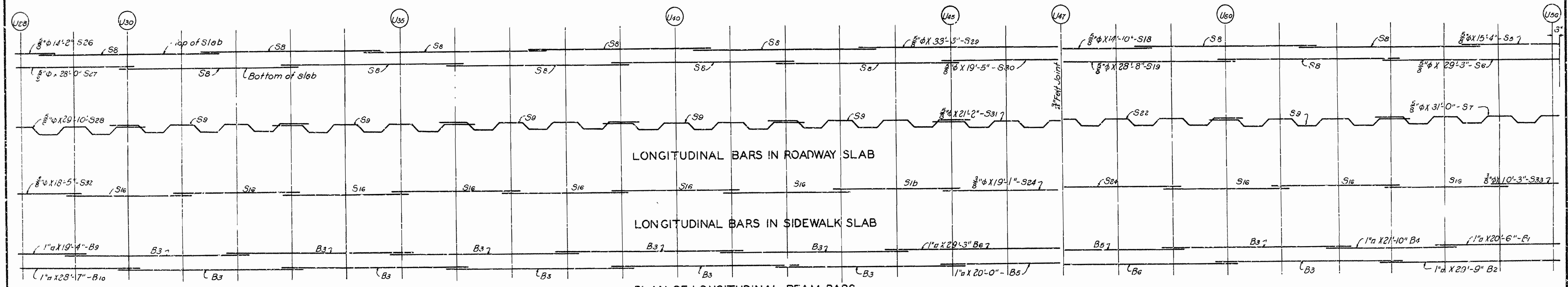
W.B. Sawyer
BRIDGE ENGINEER

Scale: 3" in. = 1'-0" in.

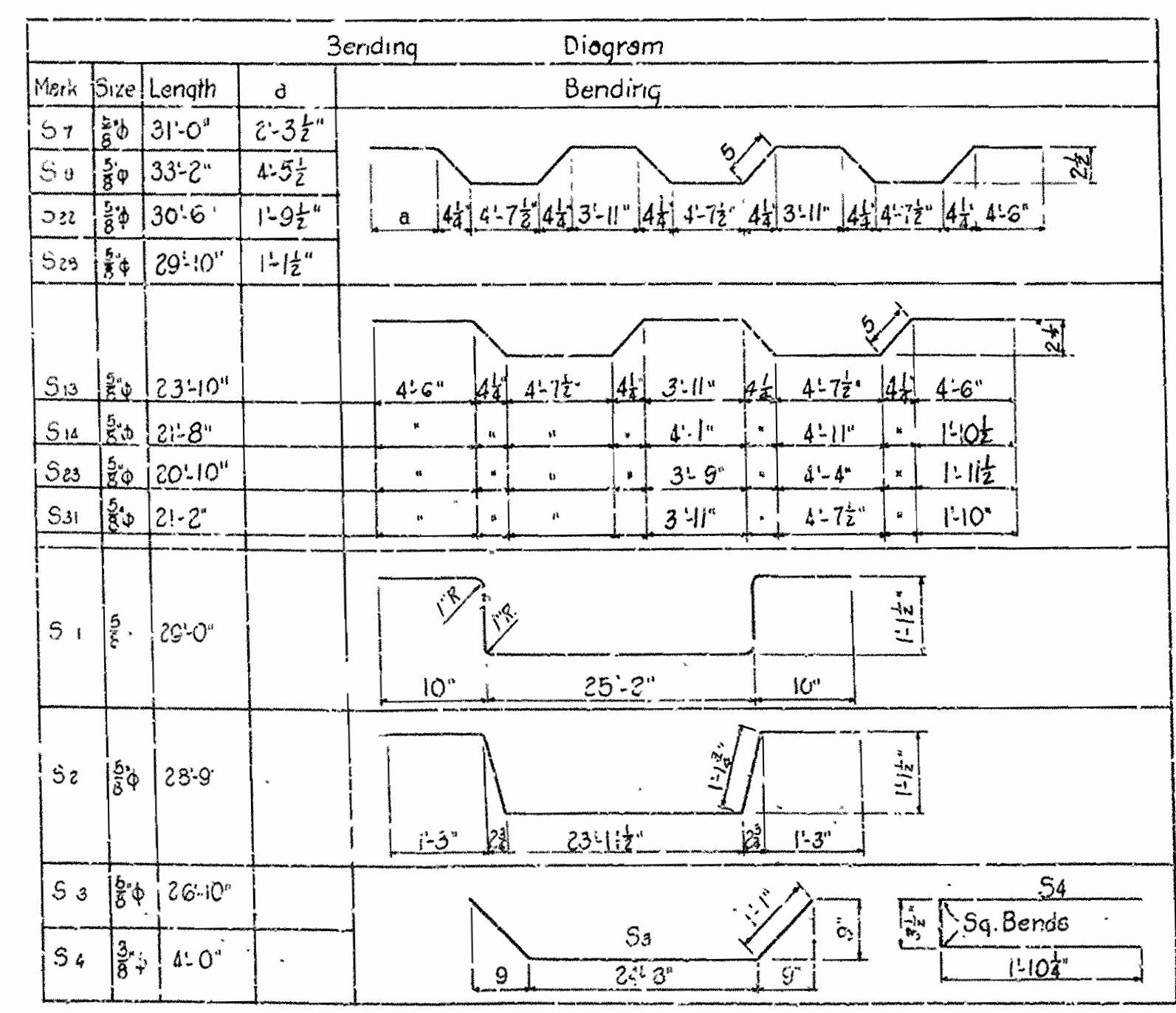
FED. ROAD DIST. NO.	STATE	U.S.W.P.C.C. PROJECT NO.	FISC. YEAR	SHEET NO.	TOTAL SHEETS
S	ARK.	WPGM 375A	1936	17	23
STATE JOB NO. 5194					



PLAN OF LONGITUDINAL BEAM BARS



PLAN OF LONGITUDINAL BEAM BARS

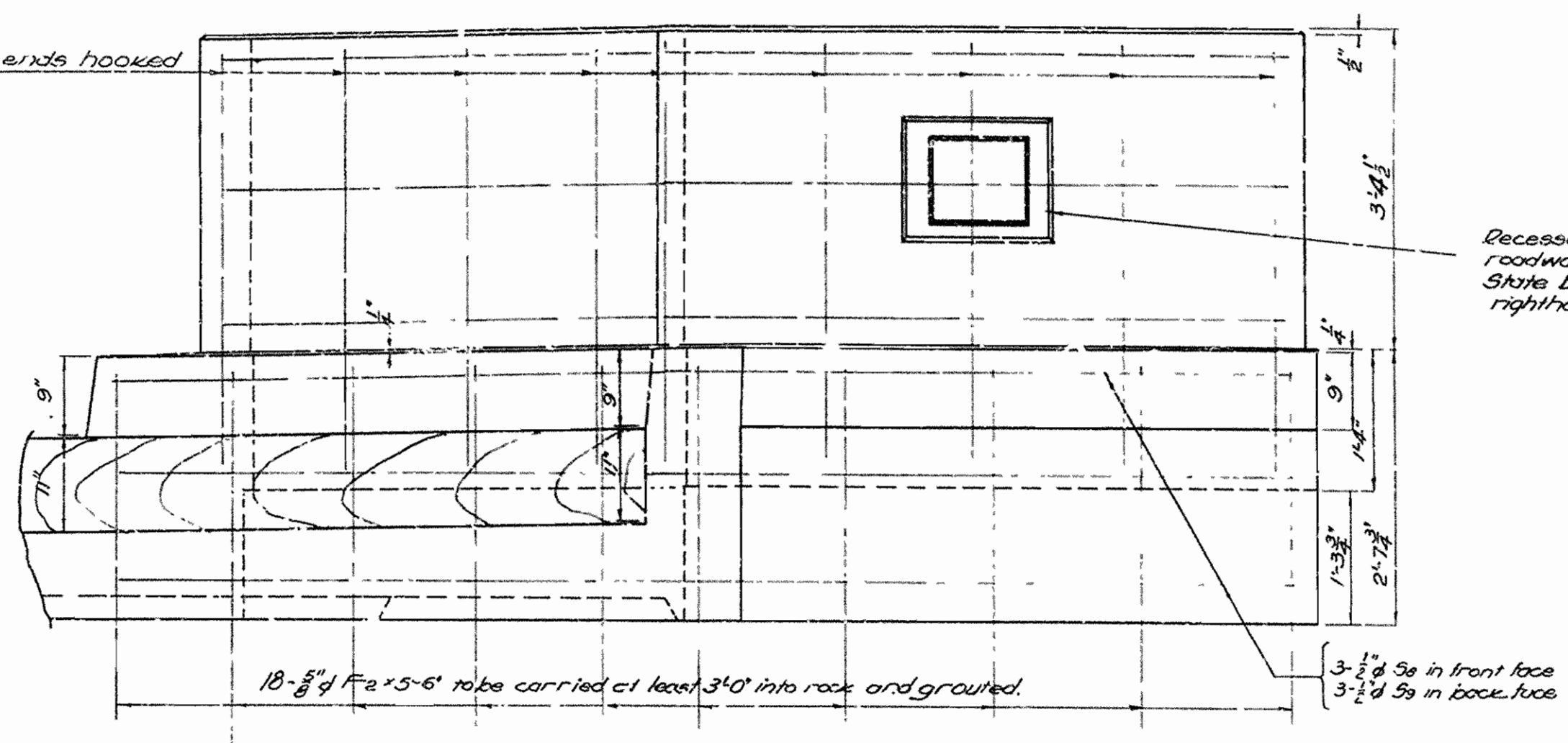
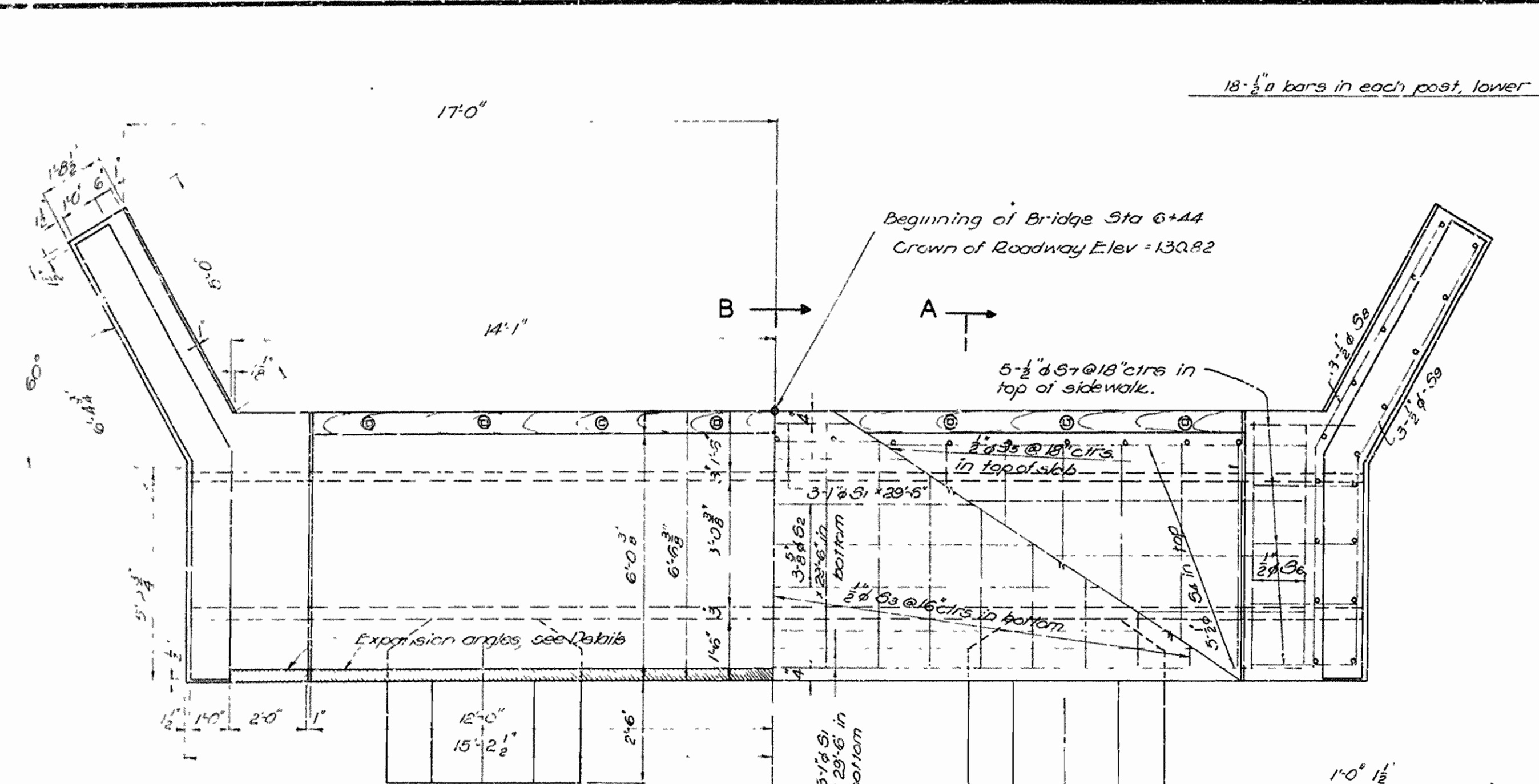


List of Straight Bars								
Mark	Size	Length	Mark	Size	Length	Mark	Size	Length
S5	5/8" φ	15'-4"	S28	5/8" φ	14'-2"	S1	1" φ	20'-6"
S6	"	29'-3"	S27	"	28'-0"	B2	"	29'-9"
S8	"	30'-0"	S29	"	33'-3"	B3	"	31'-1"
S10	"	24'-8"	S30	5/8" φ	19'-5"	B4	"	21'-10"
S11	"	20'-9"	S15	3/8" φ	19'-7"	B5	"	27'-0"
S12	"	20'-0"	S16	"	20'-0"	B6	"	17'-1"
S16	"	14'-10"	S17	"	19'-8"	B7	"	29'-0"
S18	"	28'-8"	S24	"	19'-2"	B8	"	19'-9"
S20	"	14'-6"	S25	"	9'-7"	B9	"	19'-4"
S21	5/8" φ	17'-2"	S32	"	18'-5"	B10	1" φ	28'-7"
			S33	5/8" φ	10'-3"			

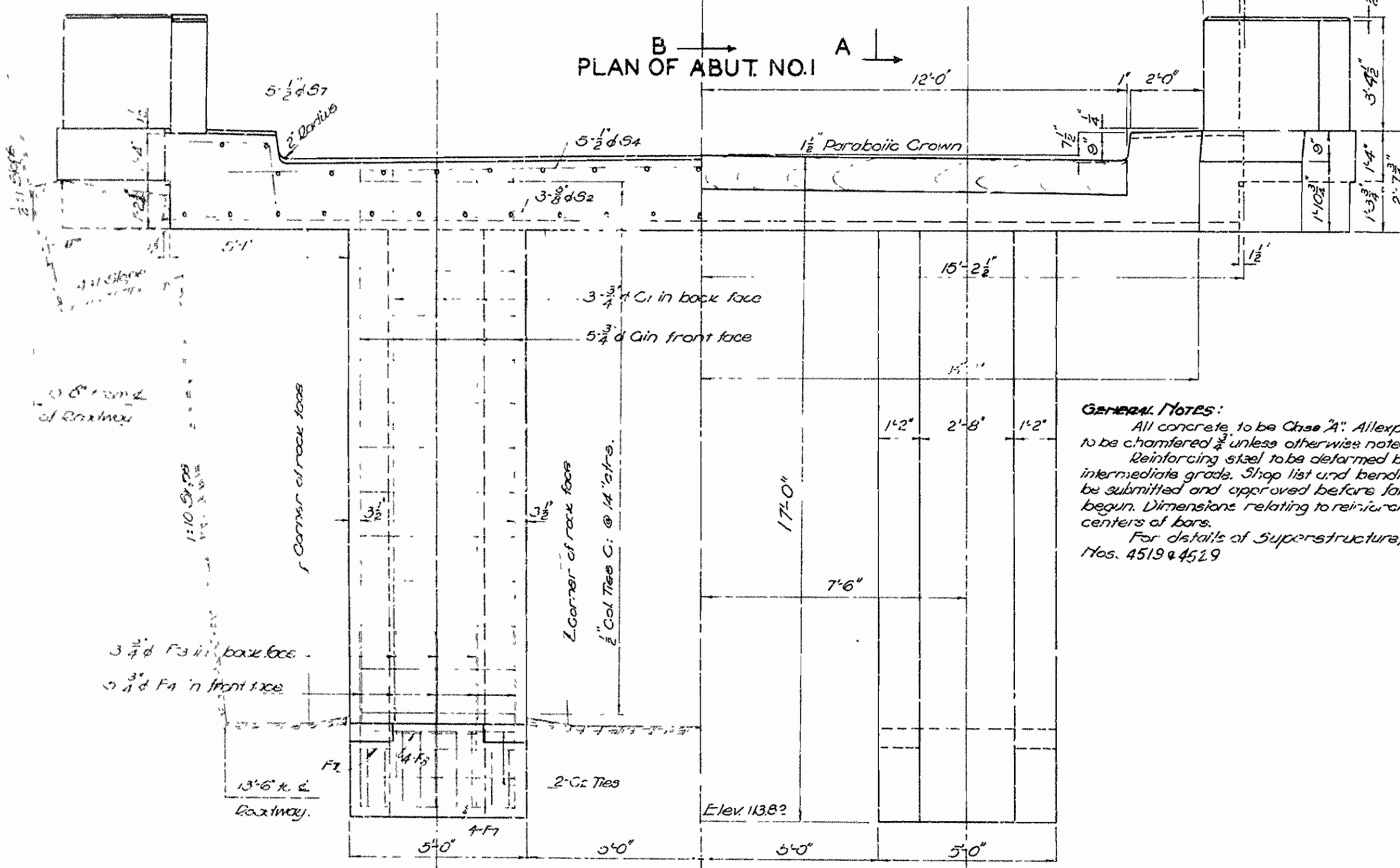
DETAILS OF SLAB REINFORCING
 BRIDGE OVER NORTH FORK OF WHITE RIVER
 NORFOLK-MOUNTAIN HOME ROAD
 BAXTER COUNTY
 ROUTE 5 SEC. 8.
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: B.G. Date: 5-21-36
 Traced By: C.B.Y. Date: 5-22-36
 Checked By: _____ Date: _____
 Scale: 1" = 10'
BRIDGE NO. 587 **DRAWING NO. 4530**

N.B. Barber
 BRIDGE ENGINEER

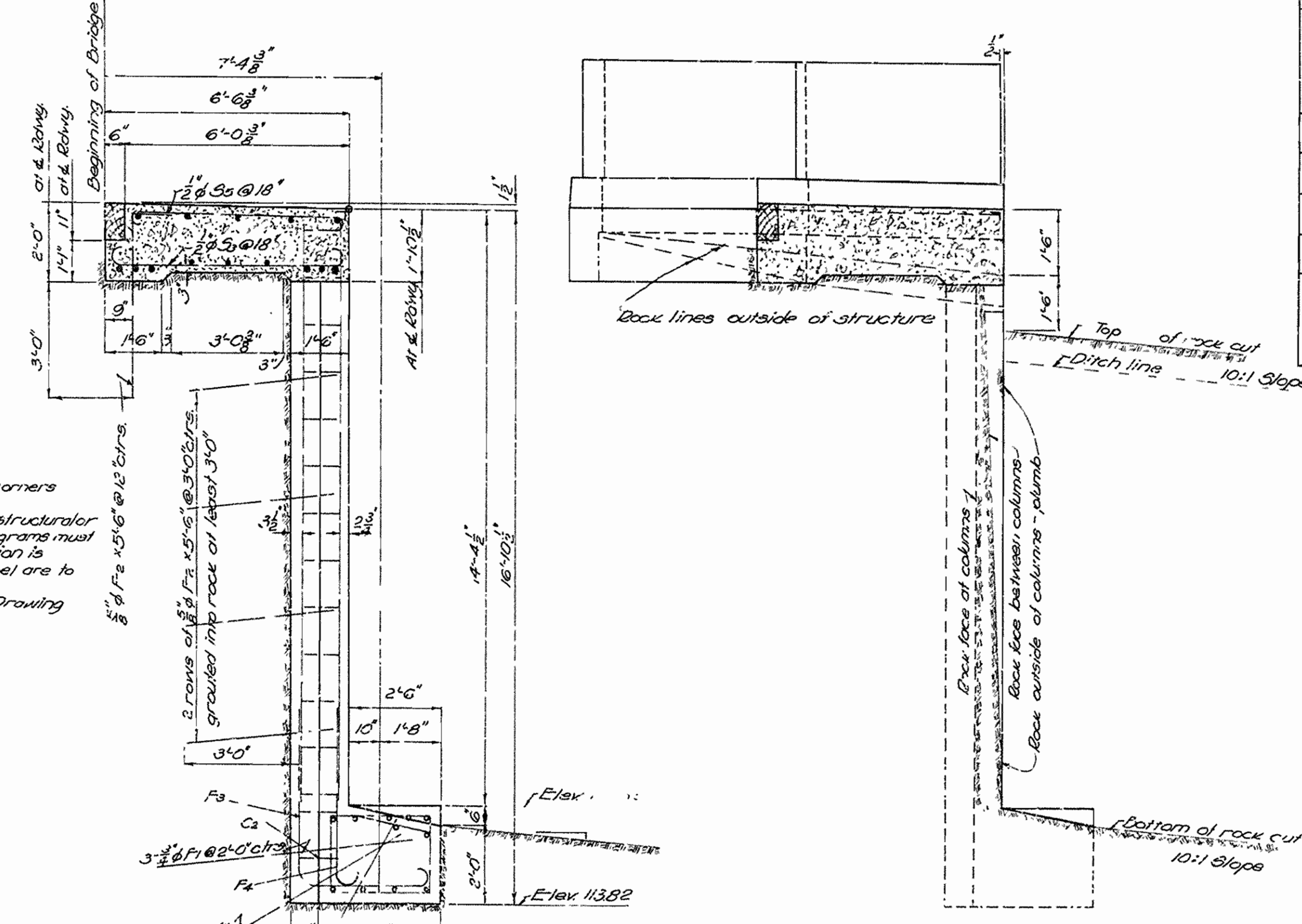
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPG 71-315-A	1936	18	23
STATE JOB NO. 5194-					



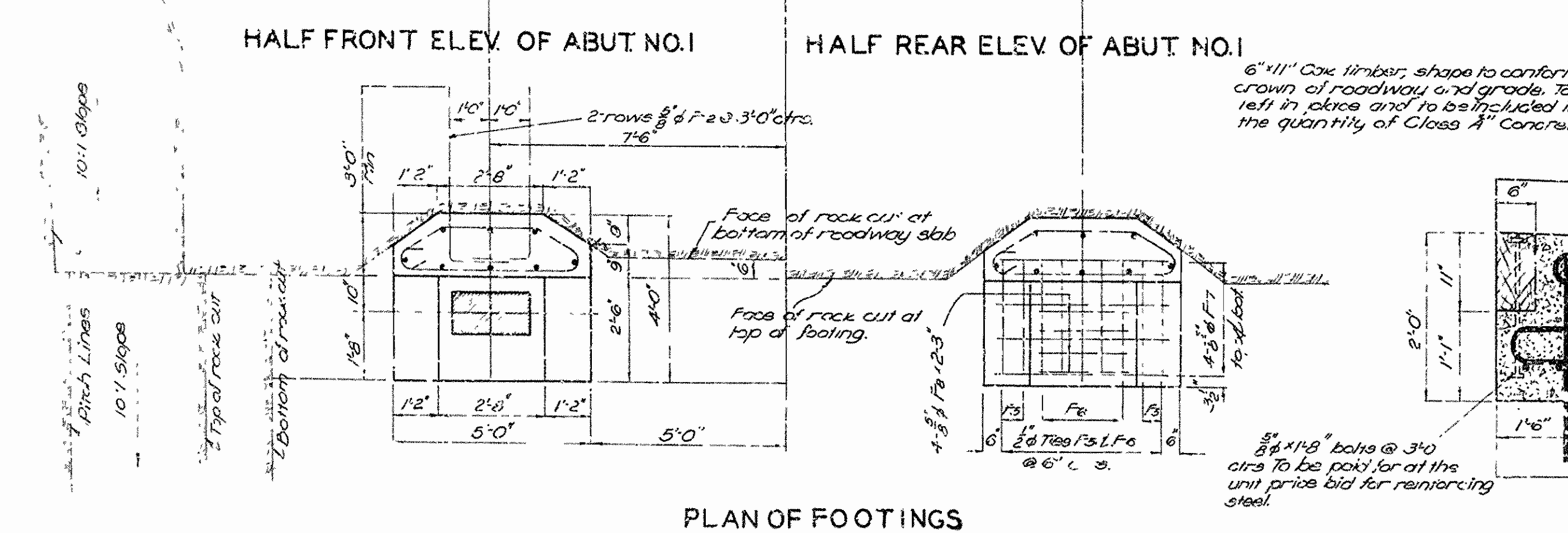
ELEVATION OF RIGHT HAND TURNOUT
Left Hand Turnout Similar Except as Noted



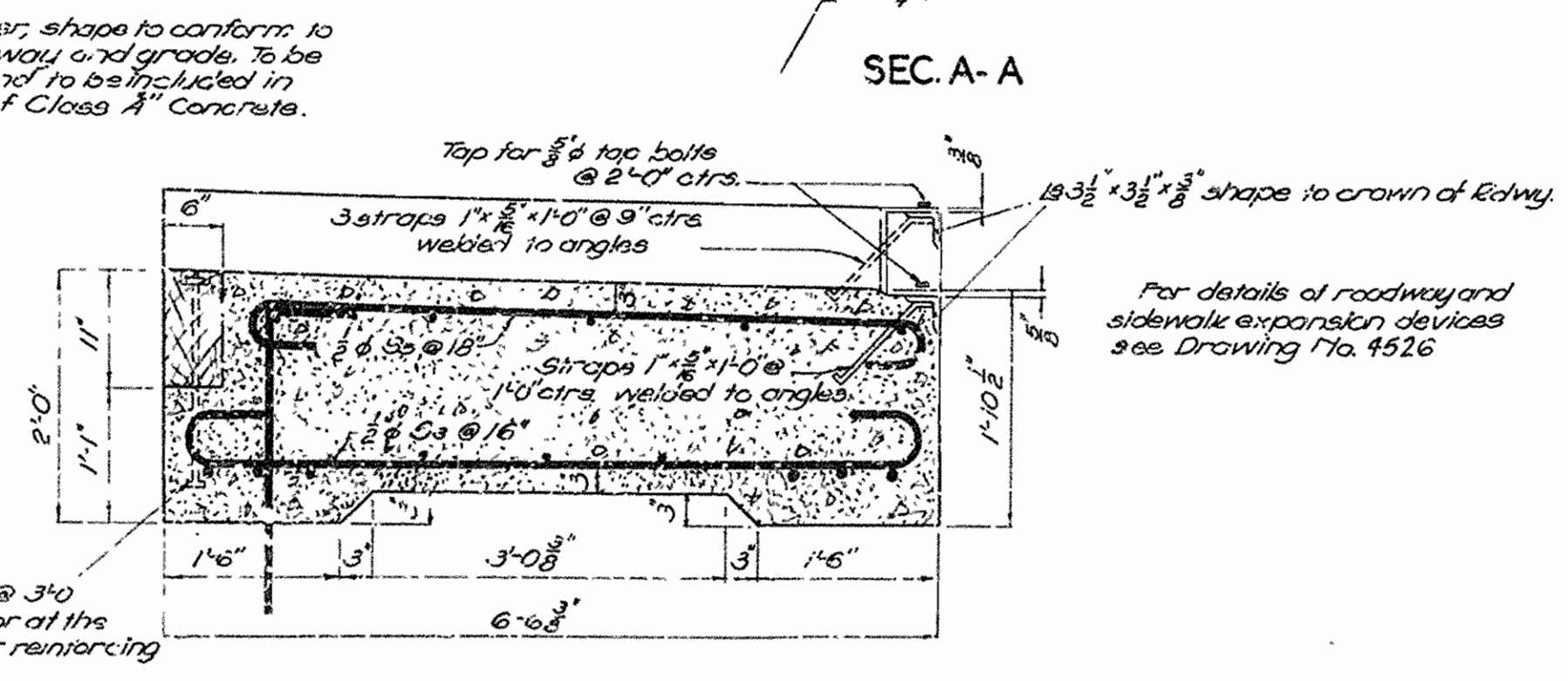
HALF FRONT ELEV. OF ABUT. NO. 1 HALF REAR ELEV. OF ABUT. NO. 1



SEC. A-A



PLAN OF FOOTINGS



SEC. B-B
Scale 1/2" = 1'-0"

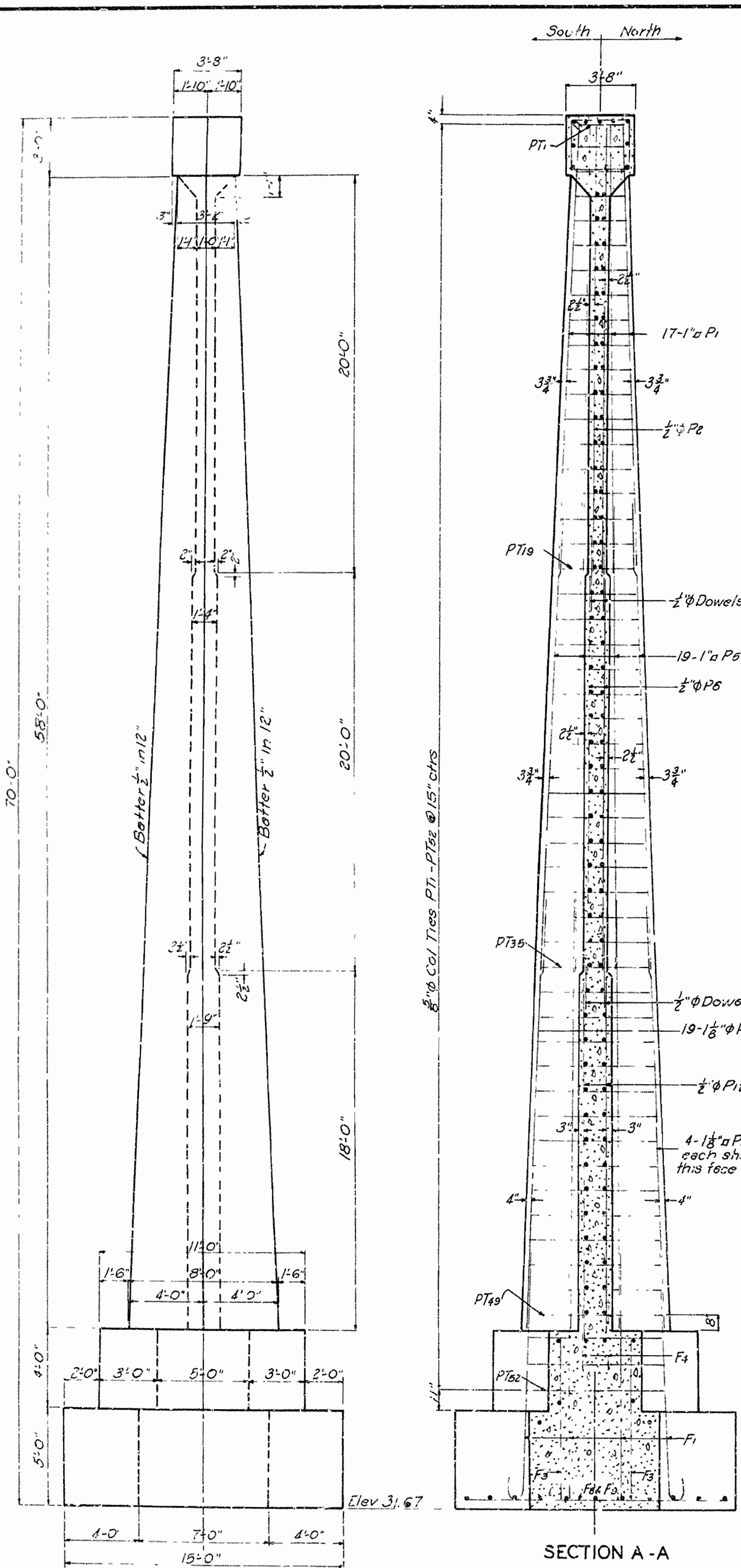
NO.	SIZE	LENGTH	A	B	BENDING DIAGRAM
F3	3/4" d	8'-6"			[Diagram]
F4	3/4" d	5'-5"			[Diagram]
F5	1/2" d	9'-10"			[Diagram]
F6	1/2" d	10'-3"			[Diagram]
C2	1/2" d	11'-4"			[Diagram]
G3	1/2" d	7'-9"	6'-1"	8'	[Diagram]
G4	1/2" d	6'-7"	5'-7"	4'	[Diagram]
G5	1/2" d	11'-8"	6'-4"	5'-4"	[Diagram]
G6	1/2" d	11'-0"	6'-0"	5'-0"	[Diagram]
G7	1/2" d	4'-4"			[Diagram]

Note: F2 bars shown bent are to be bent in the field

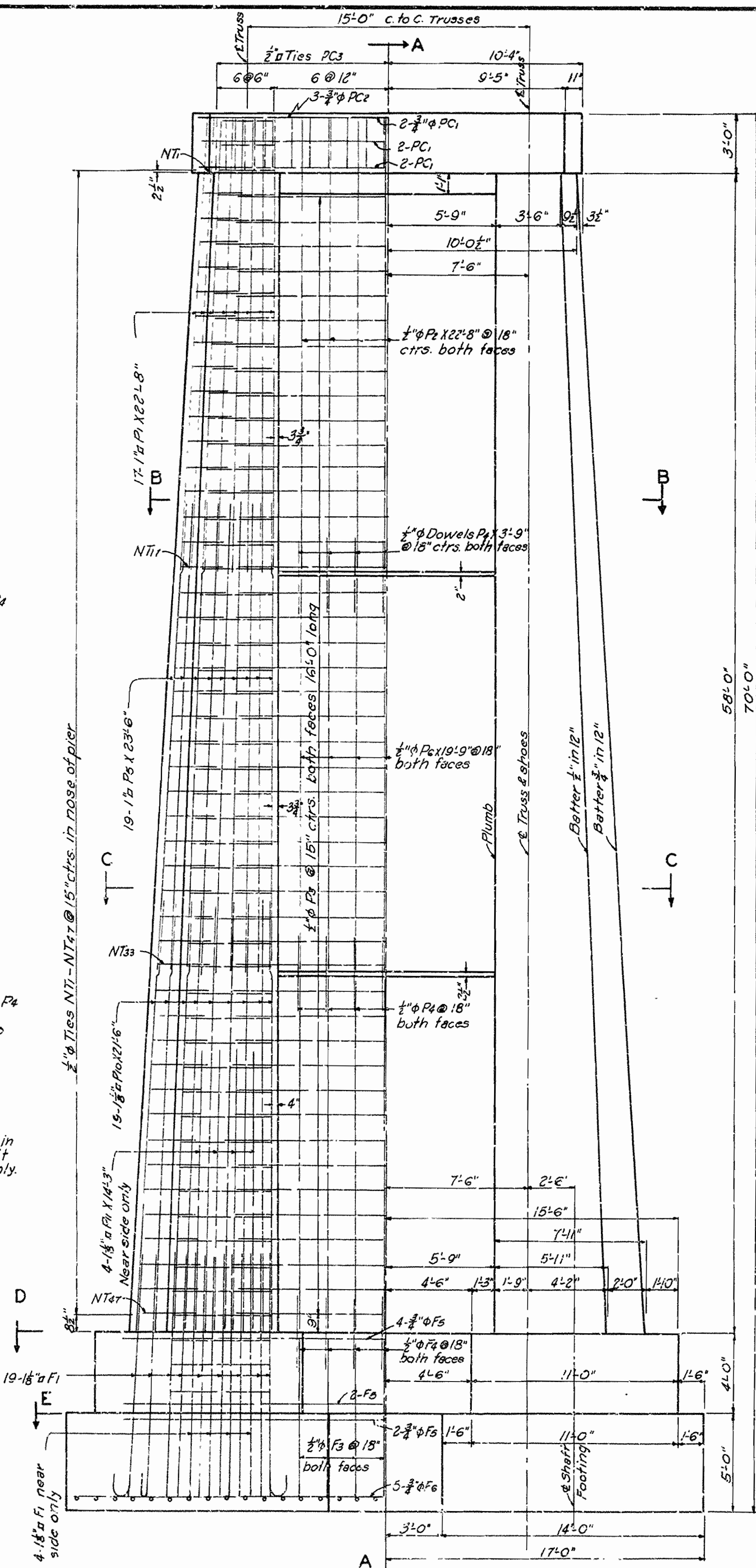
DETAILS OF ABUTMENT NO. 1
BRIDGE OVER NORTH FORK OF WHITE RIVER
NORFOLK MOUNTAIN HOME ROAD
BAXTER COUNTY
ROUTE 5 SEC. 8
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: WCH Date: 5-18-36
Traced By: B.D. Date: 5-19-36
Checked By: _____ Date: _____
Scale: 1/4" = 1' unless noted
BRIDGE ENGINEER
BRIDGE NO. 587 DRAWING NO. 4331

Revised 6-19-36 Rail Height: H.B.

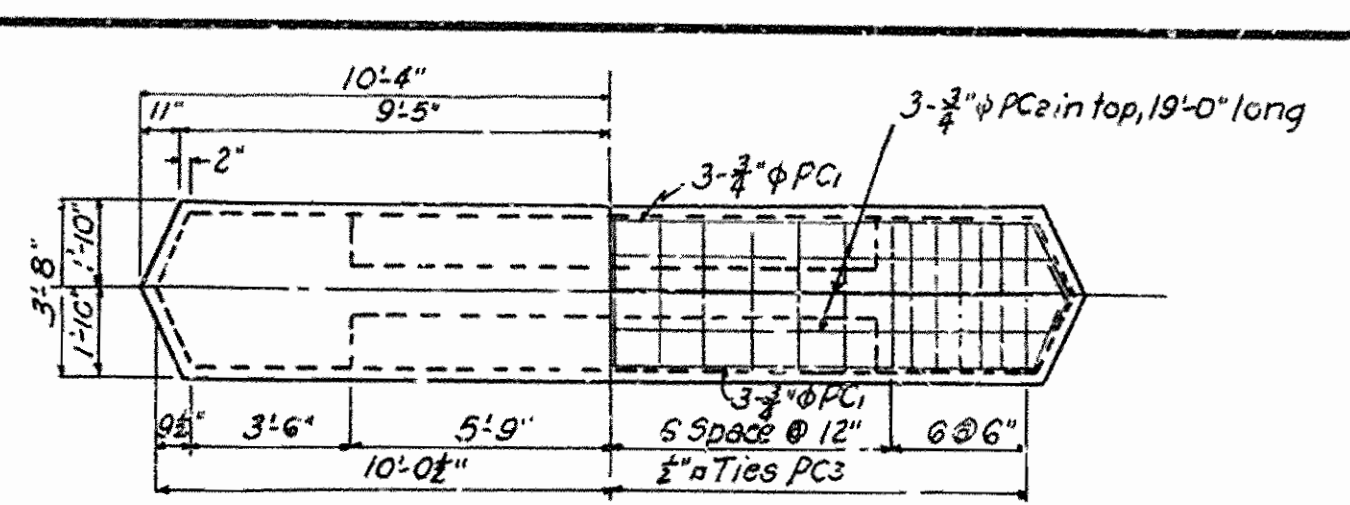
FED. ROAD DIST. NO.	STATE	US W.P.C.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM 375 A	1936	20	23
STATE JOB NO. 5194					



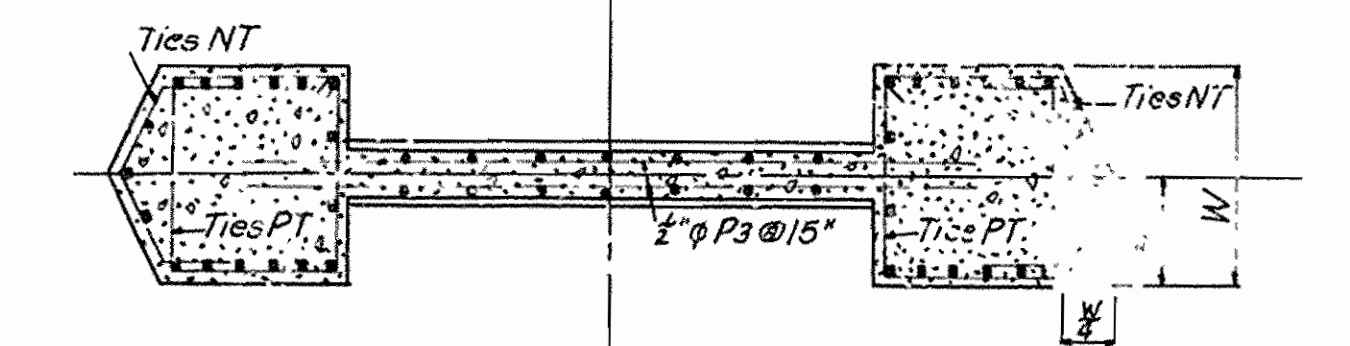
END ELEV. OF PIER NO. 2



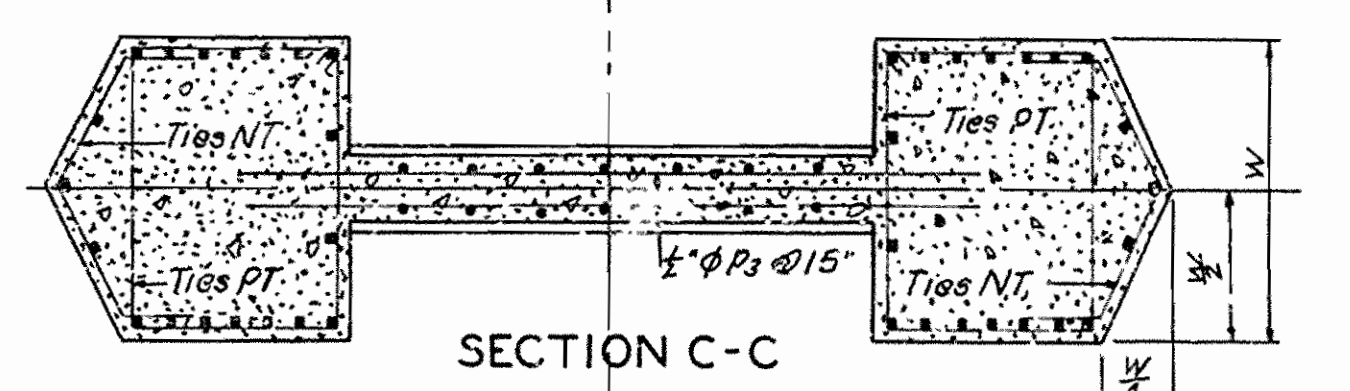
ELEVATION OF NORTH SIDE OF PIER NO. 2



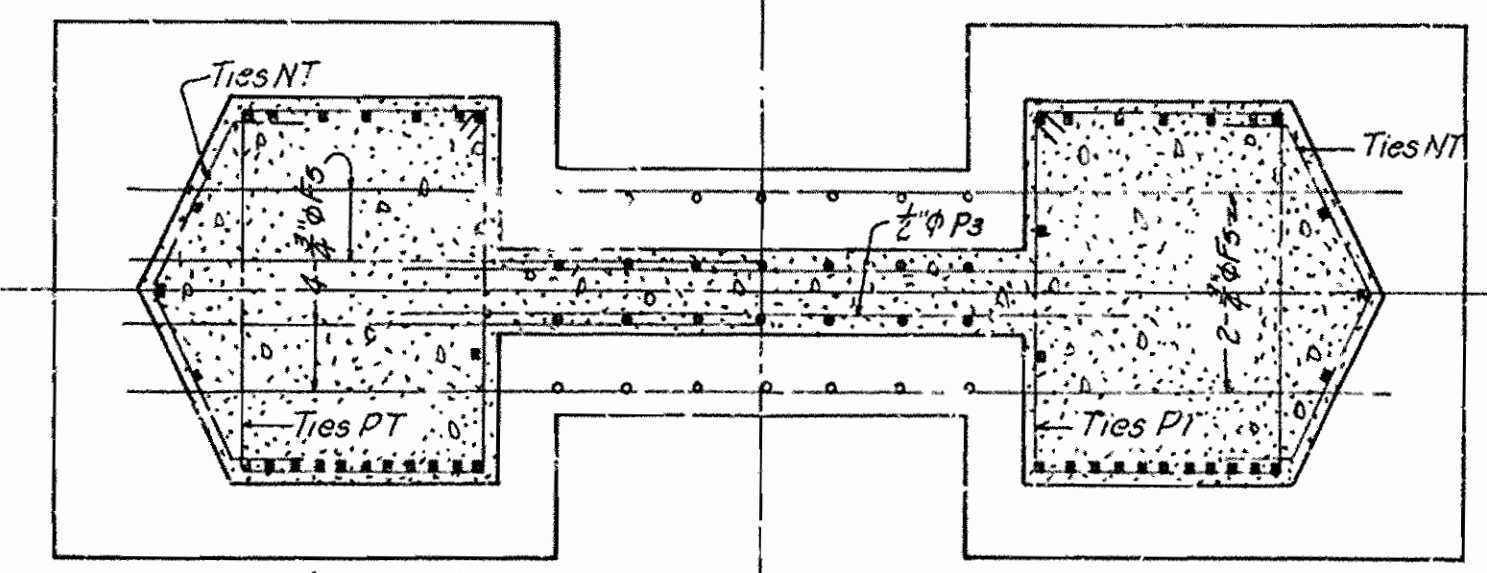
PLAN OF CAP PIER NO. 2



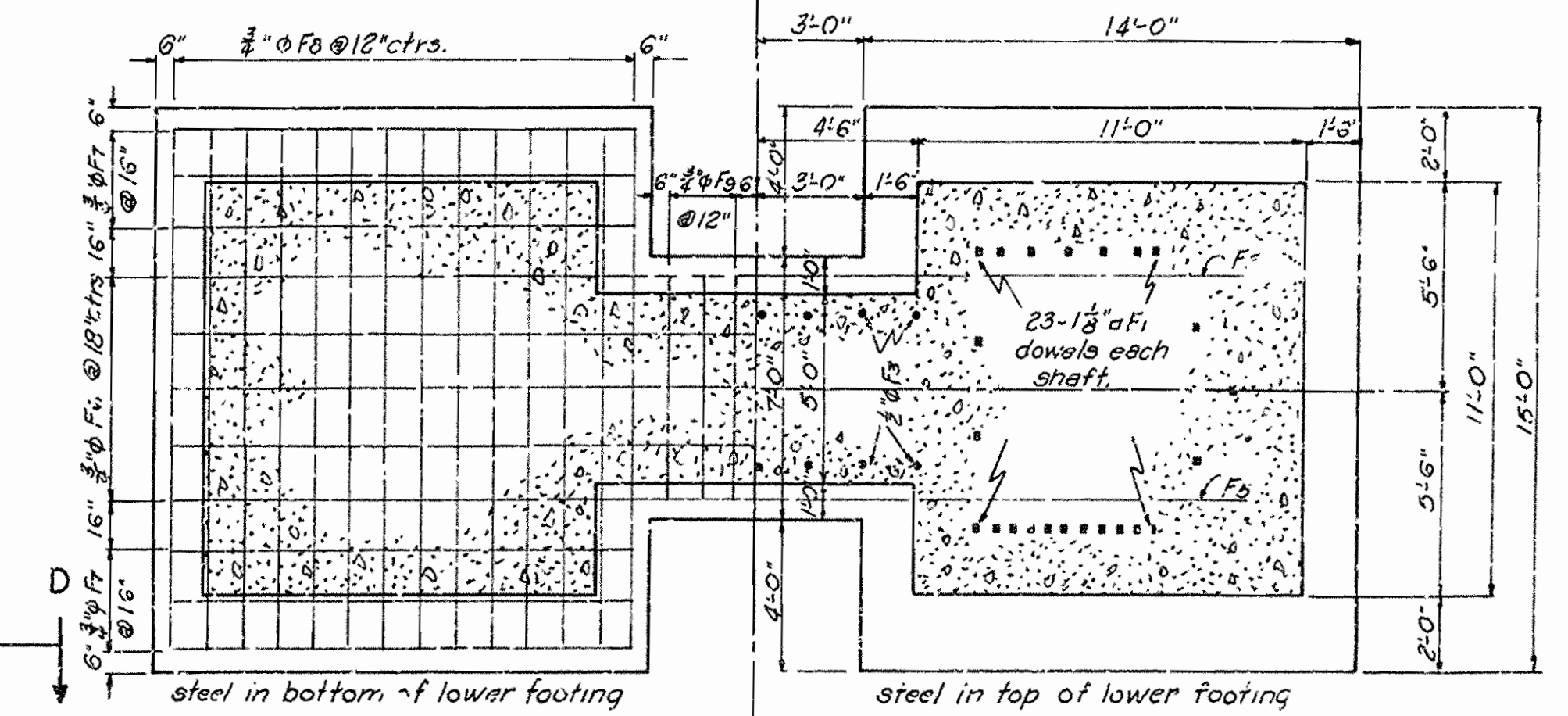
SECTION B-B



SECTION C-C



SECTION D-D AT TOP OF UPPER FOOTING



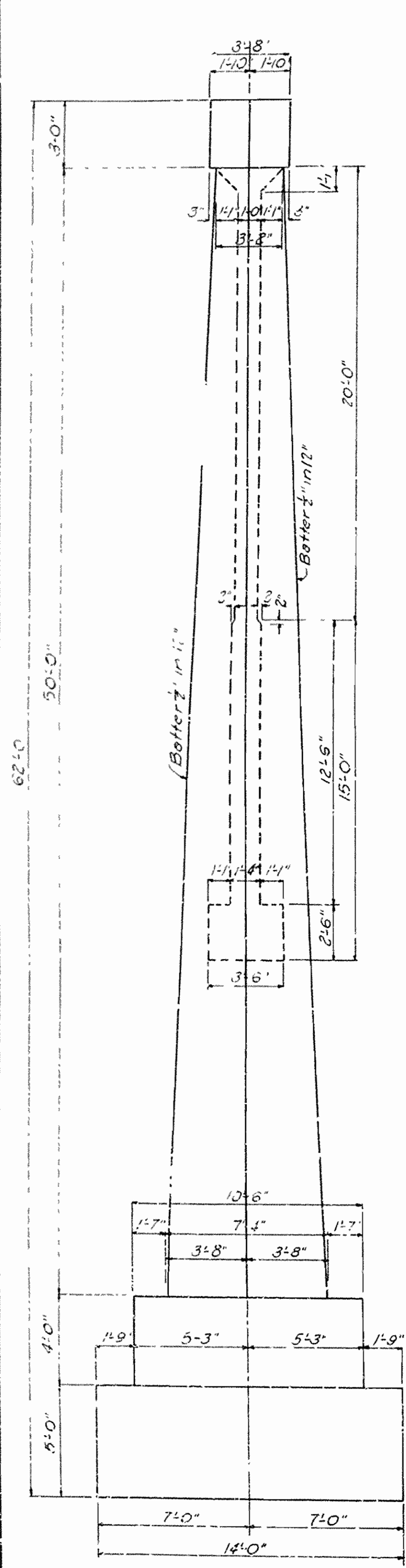
SECTION E-E AT TOP OF LOWER FOOTING

NOTES:
For Bending Diagram and General Notes for Piers, see Drwg. No. 4534

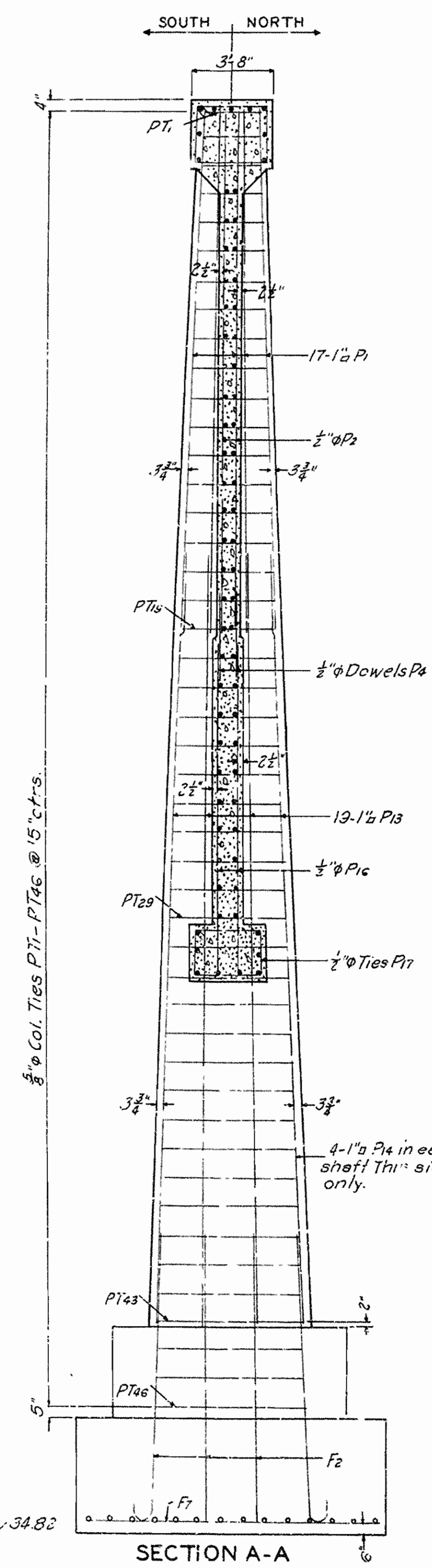
DETAILS OF PIER NO. 2
BRIDGE OVER NORTH FORK OF WHITE RIVER
NORFOLK-MOUNTAIN HOME ROAD
BAXTER COUNTY
ROUTE 5 SEC. 8.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: W.C.H. Date: 5-16-36
Traced By: C.B.Y. Date: 5-20-36
Checked By: _____ Date: _____
Scale: 1/4" = 1'-0"
BRIDGE NO. 587 DRAWING NO. 4533

M.B. Garner
BRIDGE ENGINEER

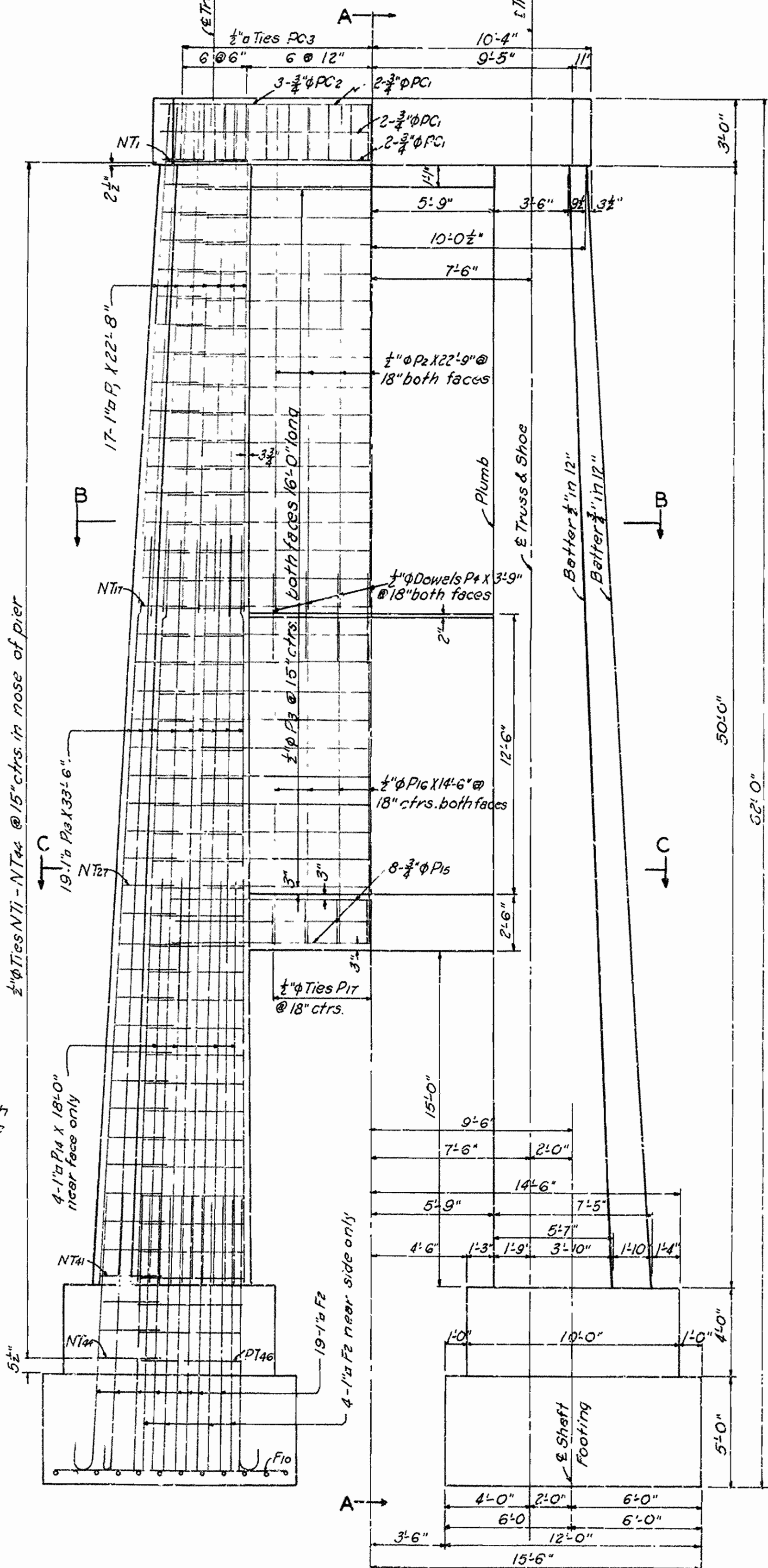
FED. ROAD DIST. NO.	STATE	U.S.W.P.G.C. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WPGM 375 A	1936	21	23
STATE JOB NO. 5194					



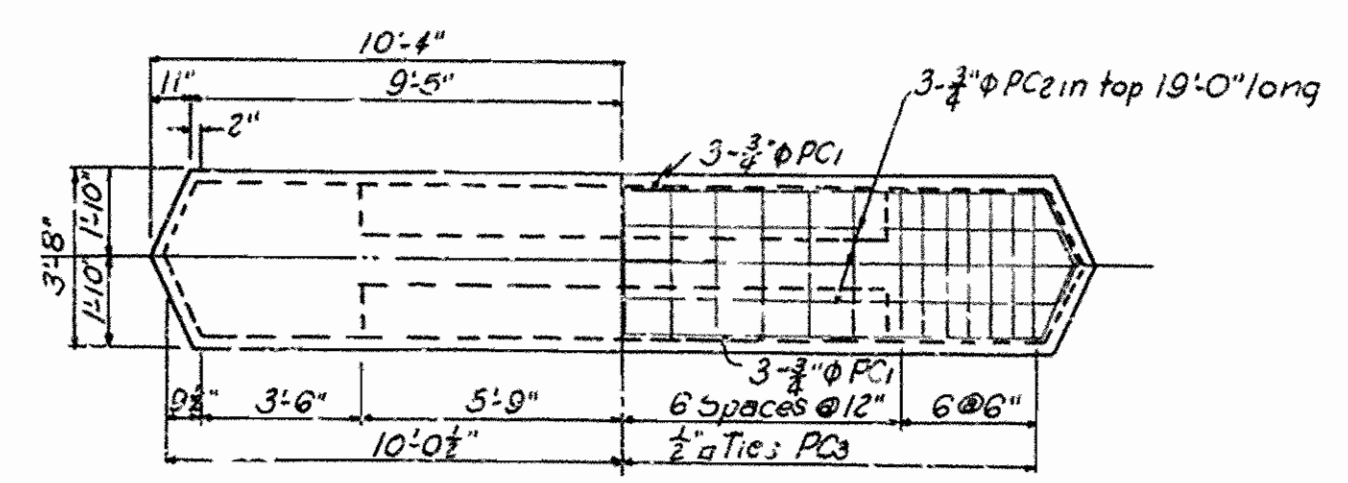
END ELEV. PIER NO. 3



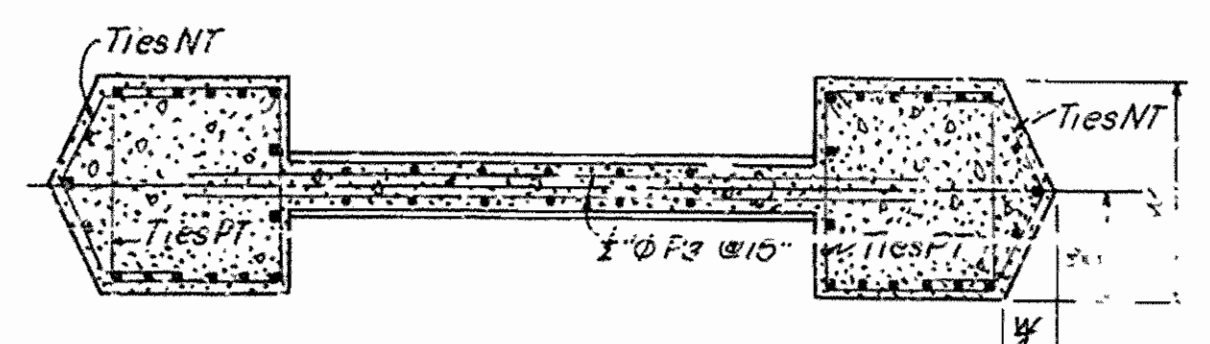
SECTION A-A



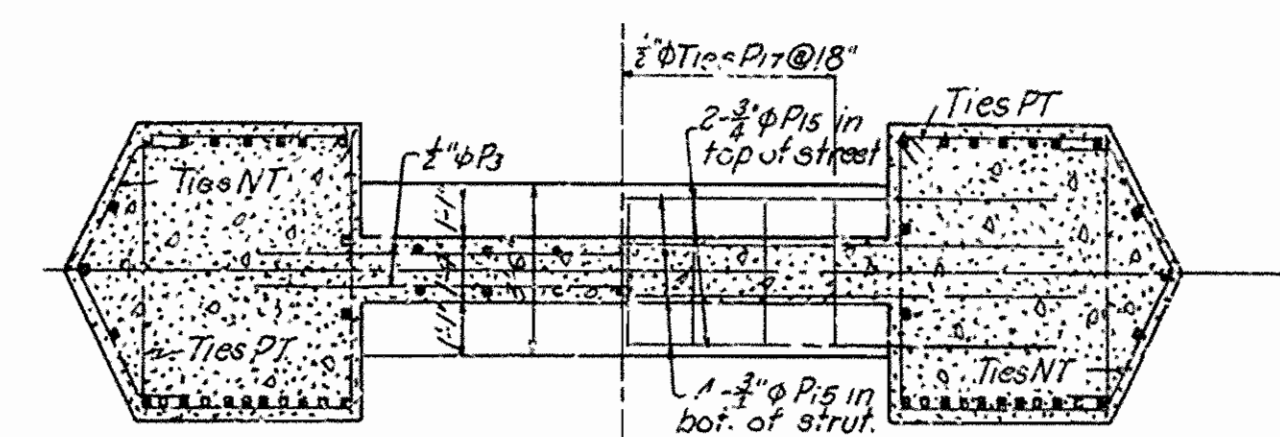
ELEV. OF NORTH SIDE OF PIER NO. 3



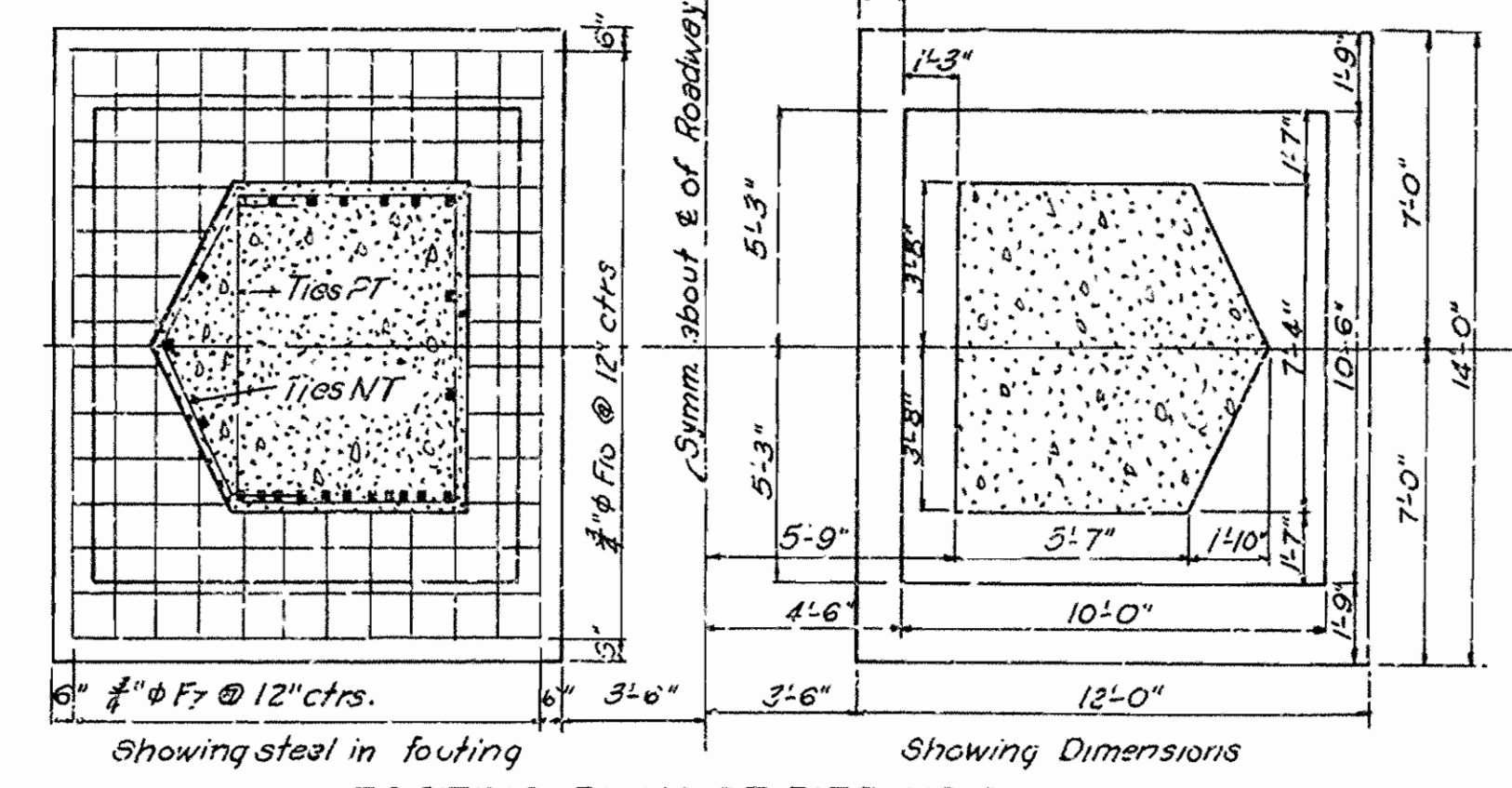
PLAN OF CAP PIER NO. 3



SECTION B-B



SECTION C-C



FOOTING PLAN OF PIER NO. 3

MARK	SIZE	LENGTH	A	B	BENDING DIAGRAM
F1	1 1/8"	13'-6"	12'-6"		
F2	1"n	13'-6"	12'-6"		
PC1	3/8"	23'-10"			
PC3	1/2"	12'-7"	3'-3 1/2"	2'-7 1/2"	
PT7	5/8"	11'-3"	3'-1 1/2"	2'-1 1/2"	
PT1 to PT9	5/8"	Varies 11'-5" to 29'-3"	Varies 2'-5 1/2" to 8'-4 1/2"	Varies 2'-10 3/8" to 5'-10 1/2"	
NT1 to NT5	1/2"	Varies 0'-0" to 11'-10"	Varies 2'-4" to 7'-9"	Varies 1'-3 3/4" to 4'-3"	

GENERAL NOTES
 All concrete to be Class "A" All exposed corners to be chamfered 1/4" unless otherwise noted
 Reinforcing steel to be deformed bars of structural or intermediate grade. Shop list and bending diagrams must be submitted and approved before fabrication is begun
 Dimensions relating to reinforcing steel are to be centers of bars
 For details of superstructure, see Drwg No 4519-4530.

DETAILS OF PIER NO. 3
 BRIDGE OVER NORTH FORK OF WHITE RIVER
 NORFOLK-MOUNTAIN HOME ROAD
 BAXTER COUNTY
 ROUTE 5 SEC. 8.

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: *W.H.* Date: 5-10-36
 Traced By: *CBY* Date: 5-20-36
 Checked By: _____ Date: _____
 Scale: 1/4" = 1'-0"

W.B. Garrow
 BRIDGE ENGINEER

BRIDGE NO. 587 DRAWING NO. 4534

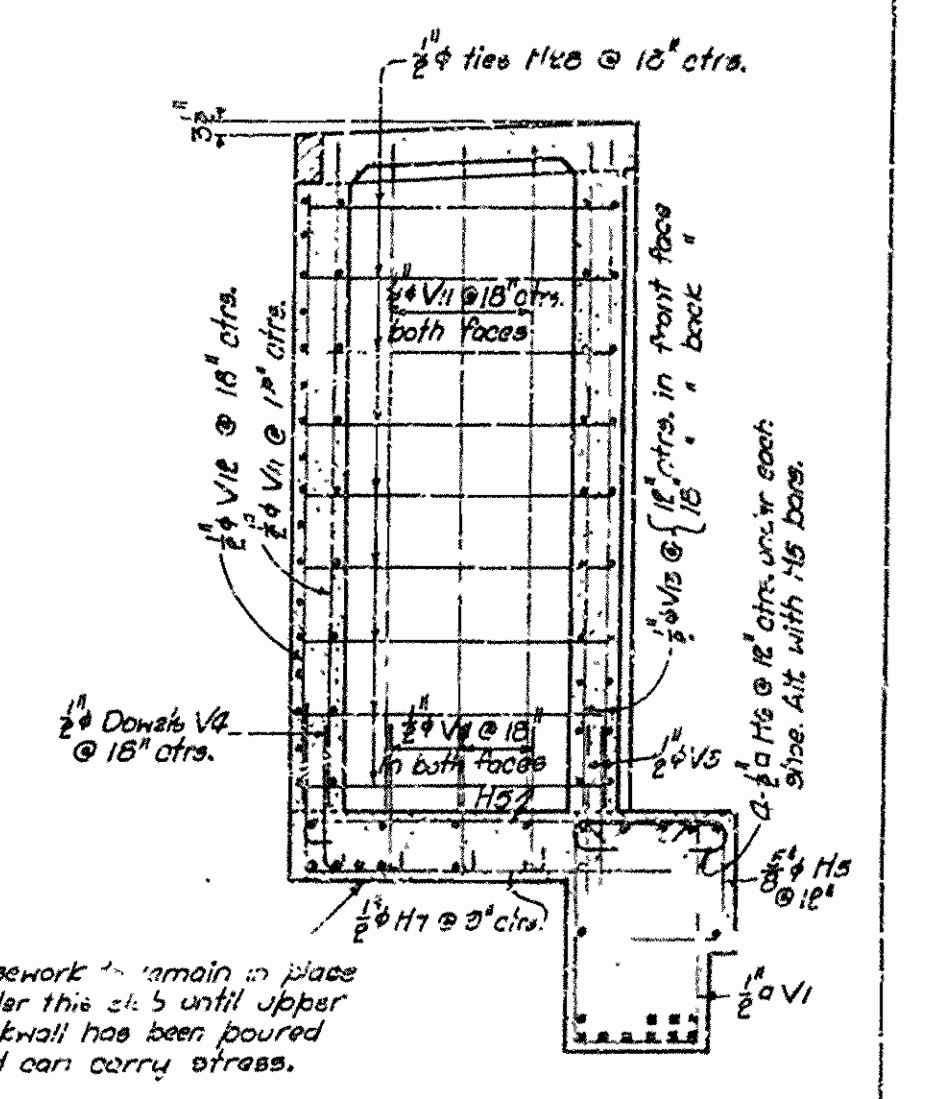
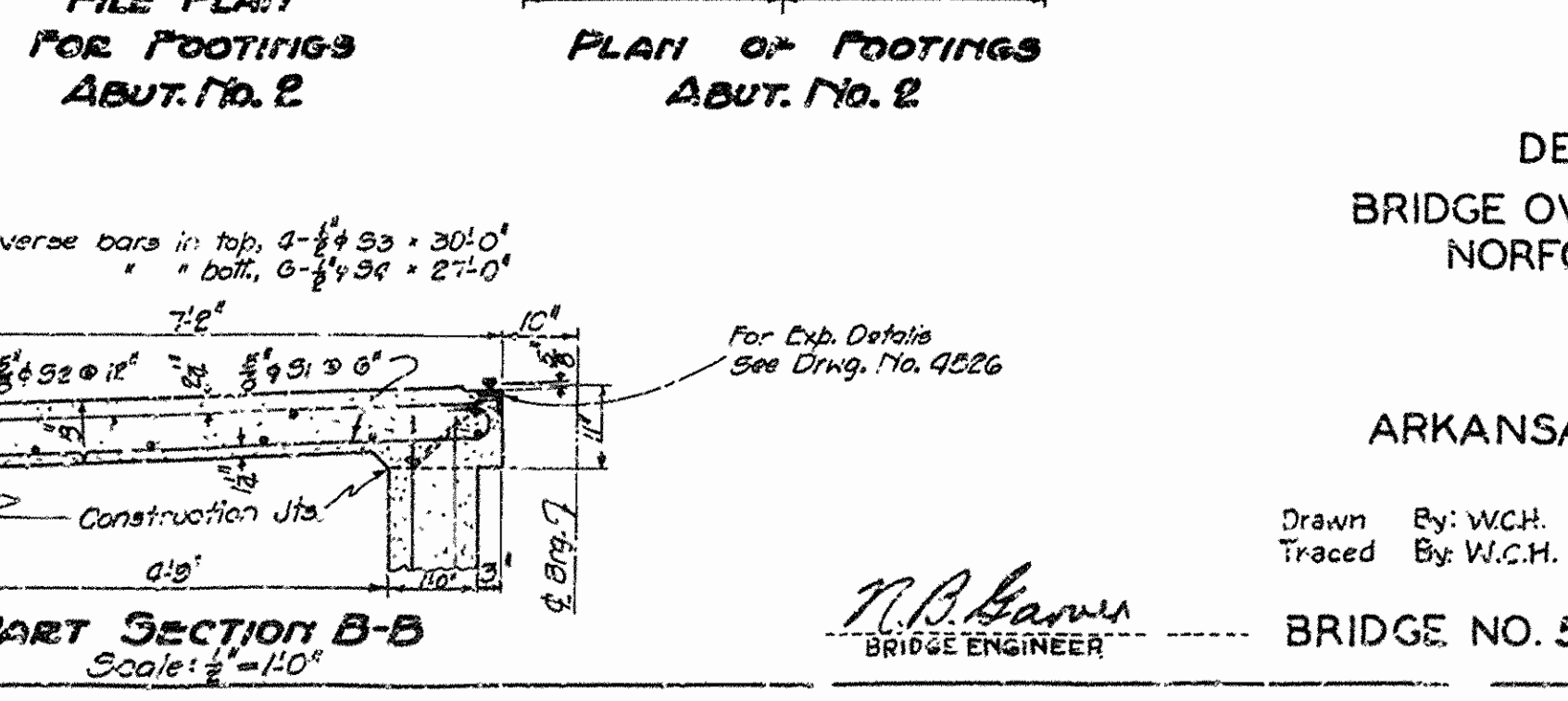
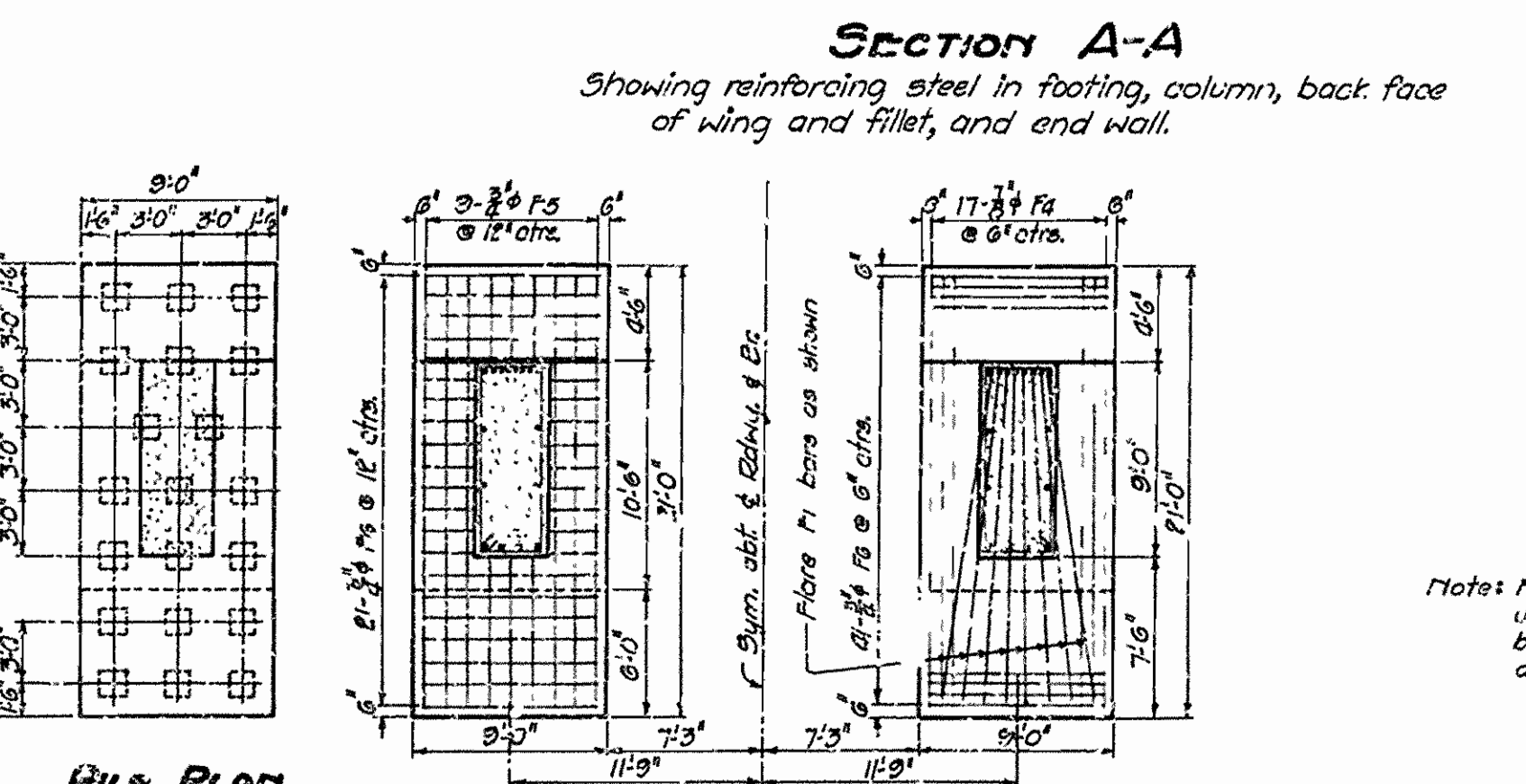
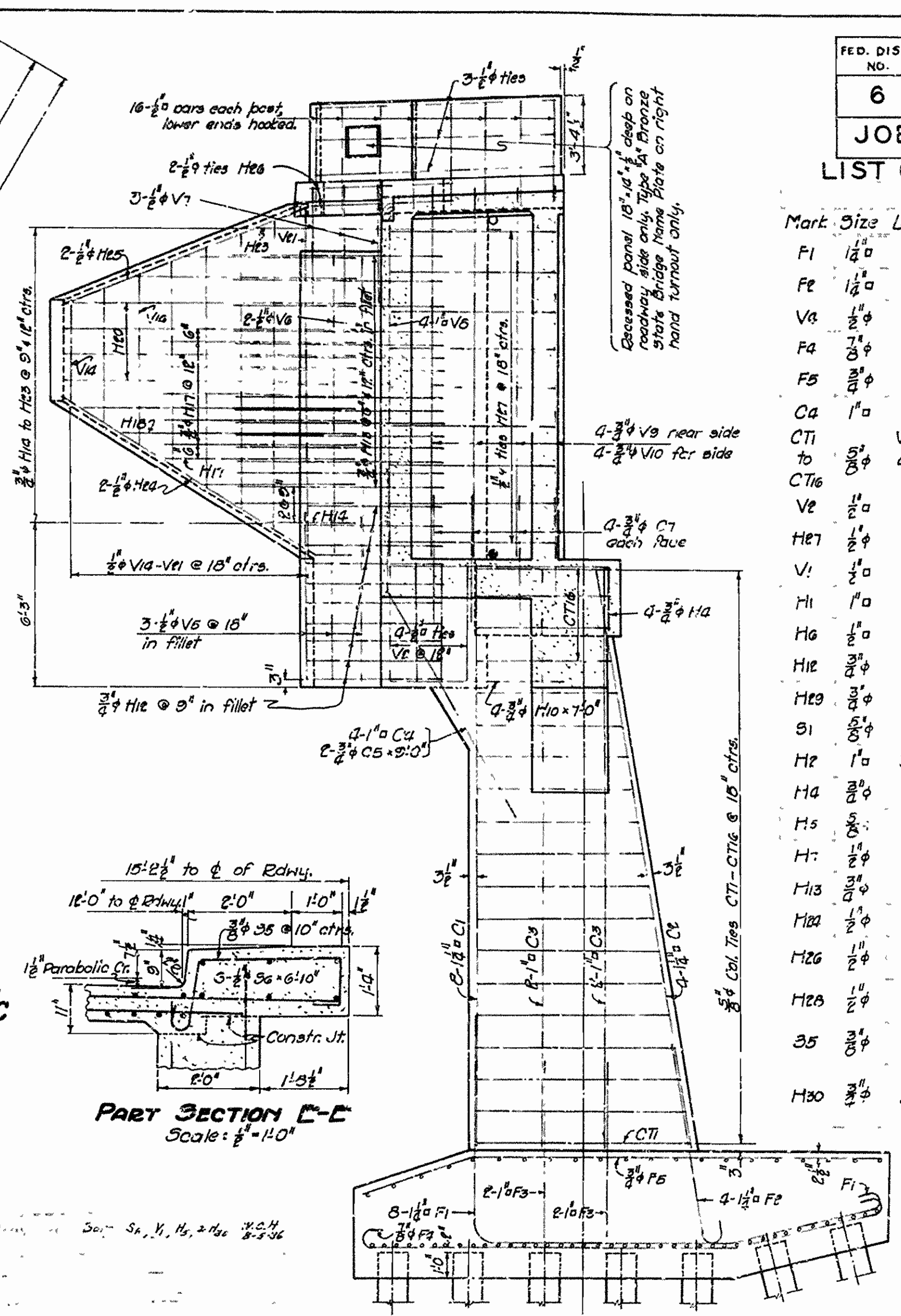
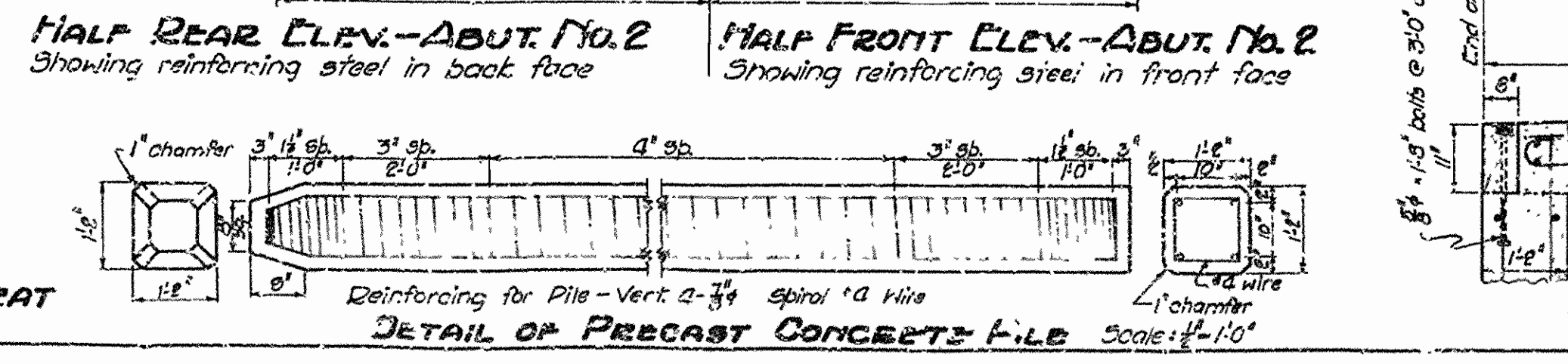
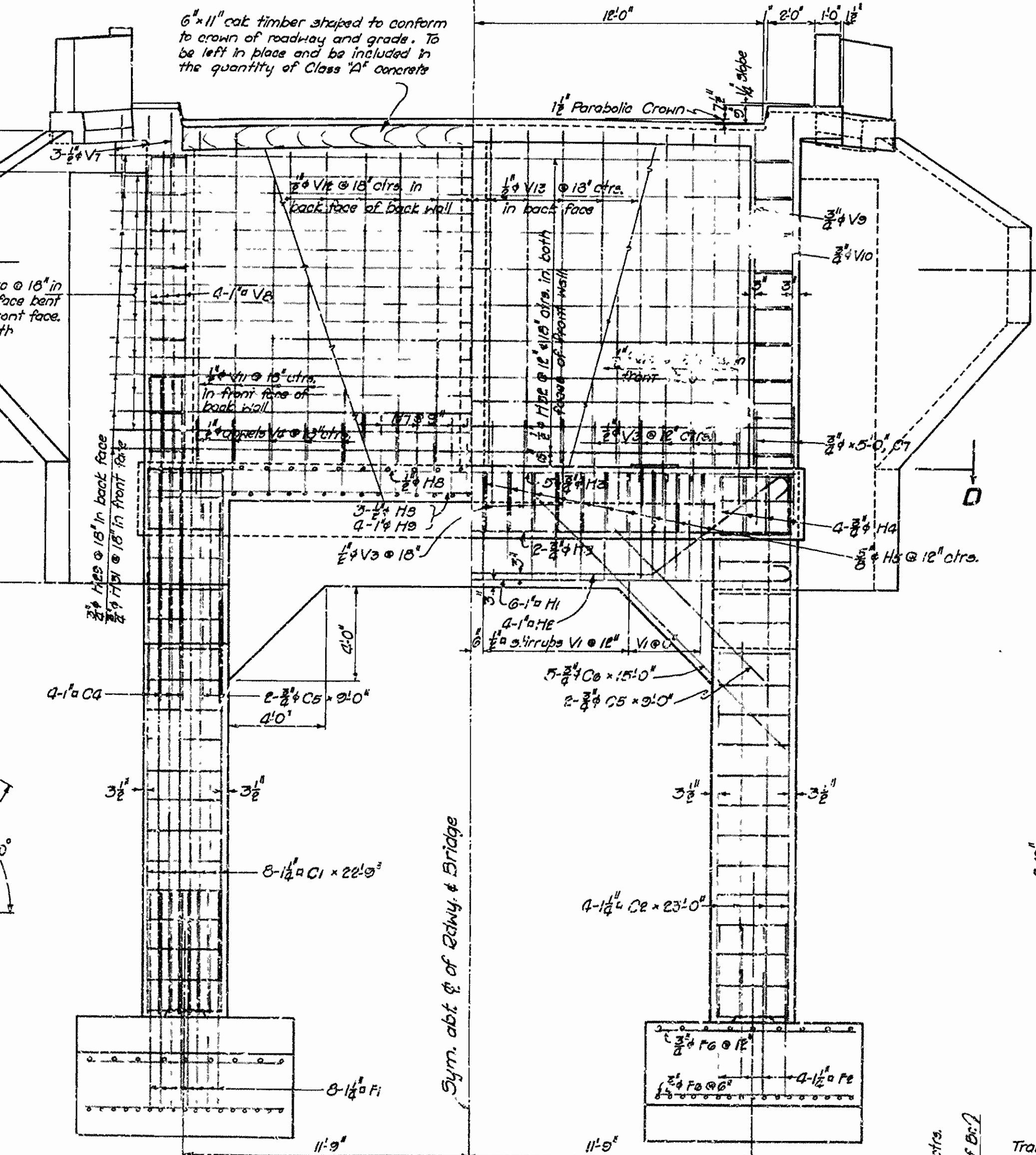
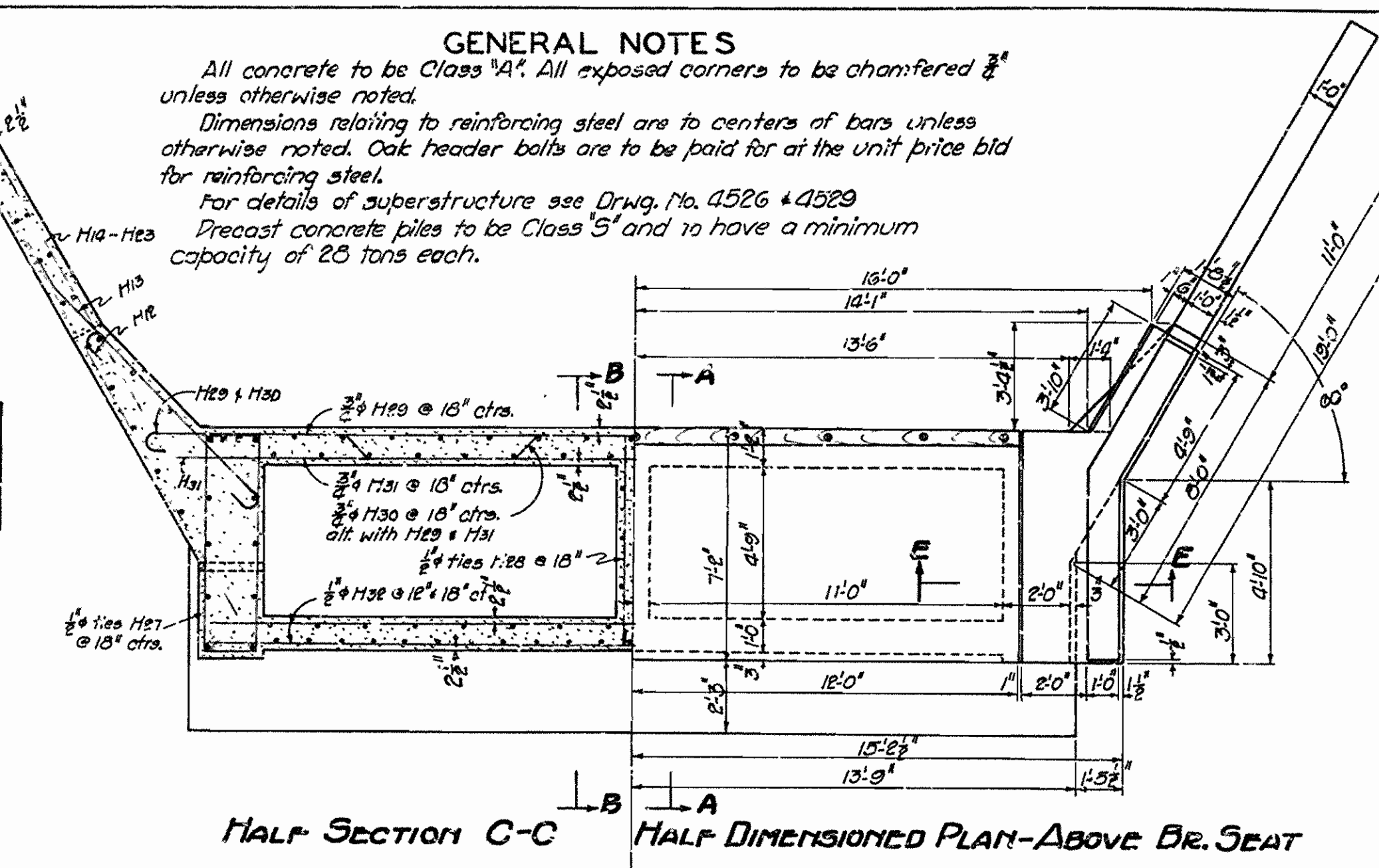
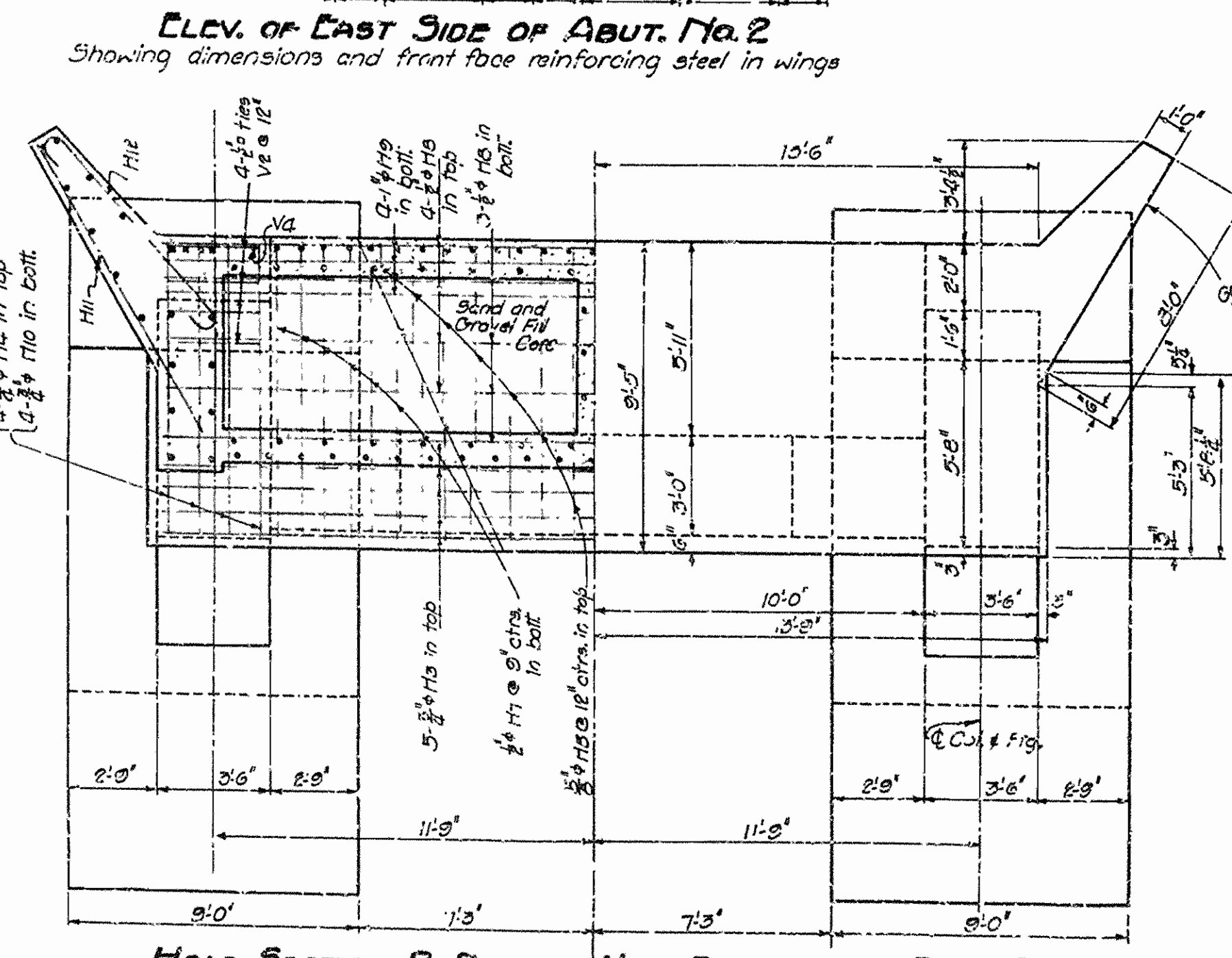
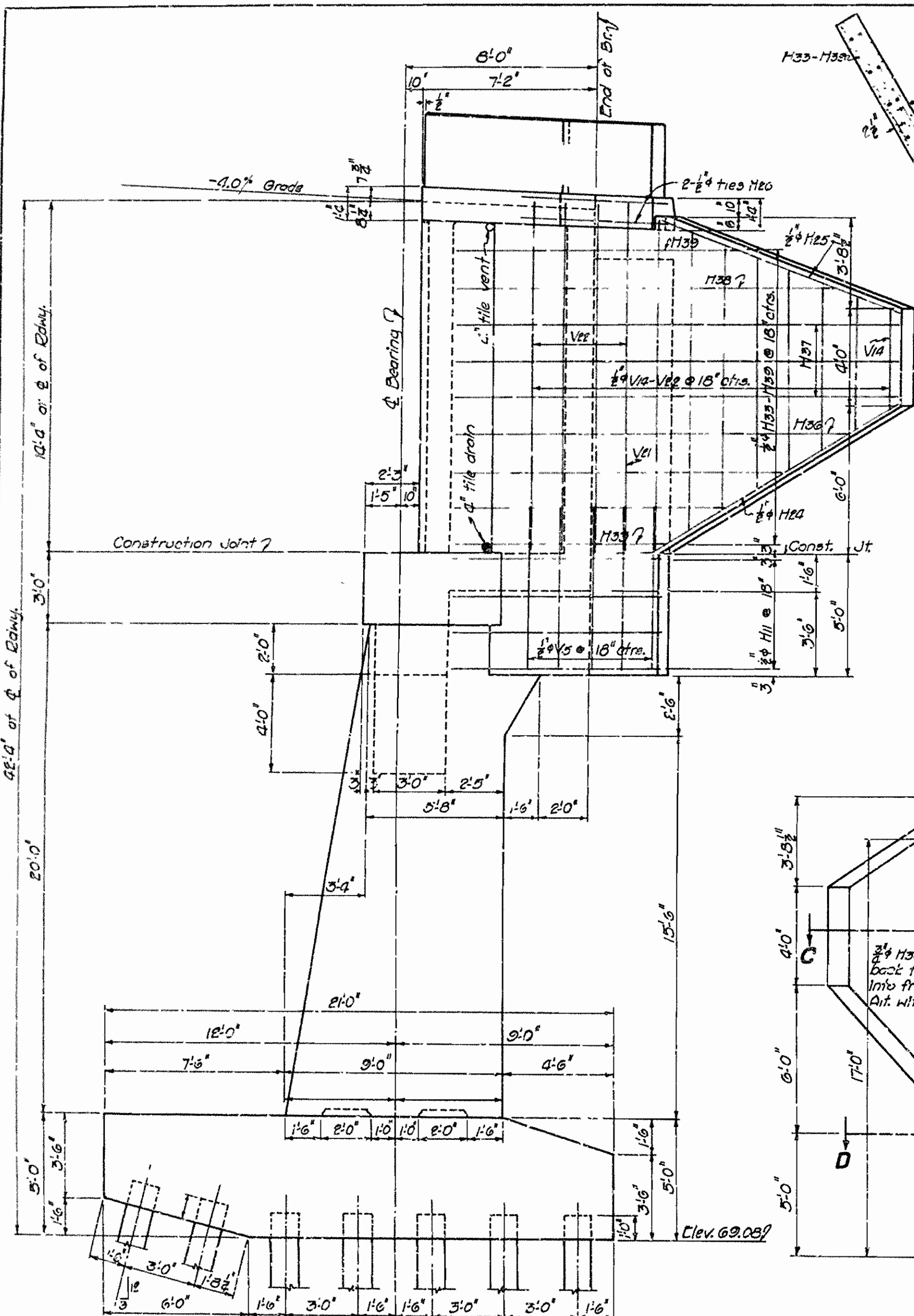
FED. DIST. NO.	STATE	U.S.W.P.C. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK	WPGM375A1936		22	23
JOB NO. 5194					

LIST OF BENT BARS-ABUT. NO. 2

Mark	Size	Length	A	B	Banding Diagram
F1	1/2"	25'-7"			
F2	1/2"	9'-0"			
F3	3/8"	22'-3"			
F4	3/8"	22'-3"			
F5	3/8"	20'-0"			
C1	1"	14'-9"			
CT1	5/8"	Varies to 24'-0"	Varies to 8'-6"	3'-1"	
CT2	5/8"	17'-9"			
VE	1/2"	16'-0"	4'-7 1/2"	3'-0"	
HE7	3/8"	17'-6"	6'-9"	17'-2 1/2"	
V1	1/2"	12'-8"			
H1	1"	28'-4"	26'-4"	0'-0"	
H2	1"	4'-2"	3'-2"	0'-4"	
H3	3/8"	9'-0"	7'-6"	0'-6"	
H4	3/8"	31'-6"	30'-0"	0'-6"	
S1	5/8"	7'-4"	6'-4"	0'-4"	
H5	1"	30'-8"			
H4	3/8"	11'-3"	8'-9"	2'-6"	
H5	3/8"	14'-2"			
H7	3/8"	11'-3"	7'-9"	3'-6"	
H13	3/8"	11'-3"			
H23	1/2"	14'-6"			
H26	1/2"	13'-6"			
H28	1/2"	12'-9"			
S5	3/8"	5'-0"			
H30	3/8"	32'-6"			

GENERAL NOTES

All concrete to be Class "A". All exposed corners to be chamfered 1/4" unless otherwise noted.
 Dimensions relating to reinforcing steel are to centers of bars unless otherwise noted. Oak header bolts are to be paid for at the unit price bid for reinforcing steel.
 For details of superstructure see Drwg. No. 4526 & 4529
 Precast concrete piles to be Class "S" and to have a minimum capacity of 25 tons each.



DETAILS OF ABUTMENT NO. 2
 BRIDGE OVER NORTH FORK OF WHITE RIVER
 NORFOLK MOUNTAIN HOME ROAD
 BAXTER COUNTY
 ROUTE 5, SEC. 8

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

Drawn By: W.C.H. Date: 5-18-36
 Traced By: W.C.H. Date: 5-10-36
 Scale: 1/4" = 1'-0" Unless Noted

N. O. Brown
 BRIDGE ENGINEER

BRIDGE NO. 587 DRAWING NO. 4535