

STATE OF ARKANSAS
STATE HIGHWAY DEPARTMENT

FISCAL YEAR	JOB NO	SHEET NO.	TOTAL SHEETS
1928	452	1	31
Prop. Brs. WALDRON S. RD. S. CO. DIST. 17			

PLAN OF PROPOSED BRIDGES
ON
WALDRON-SOUTH ROAD
SCOTT COUNTY

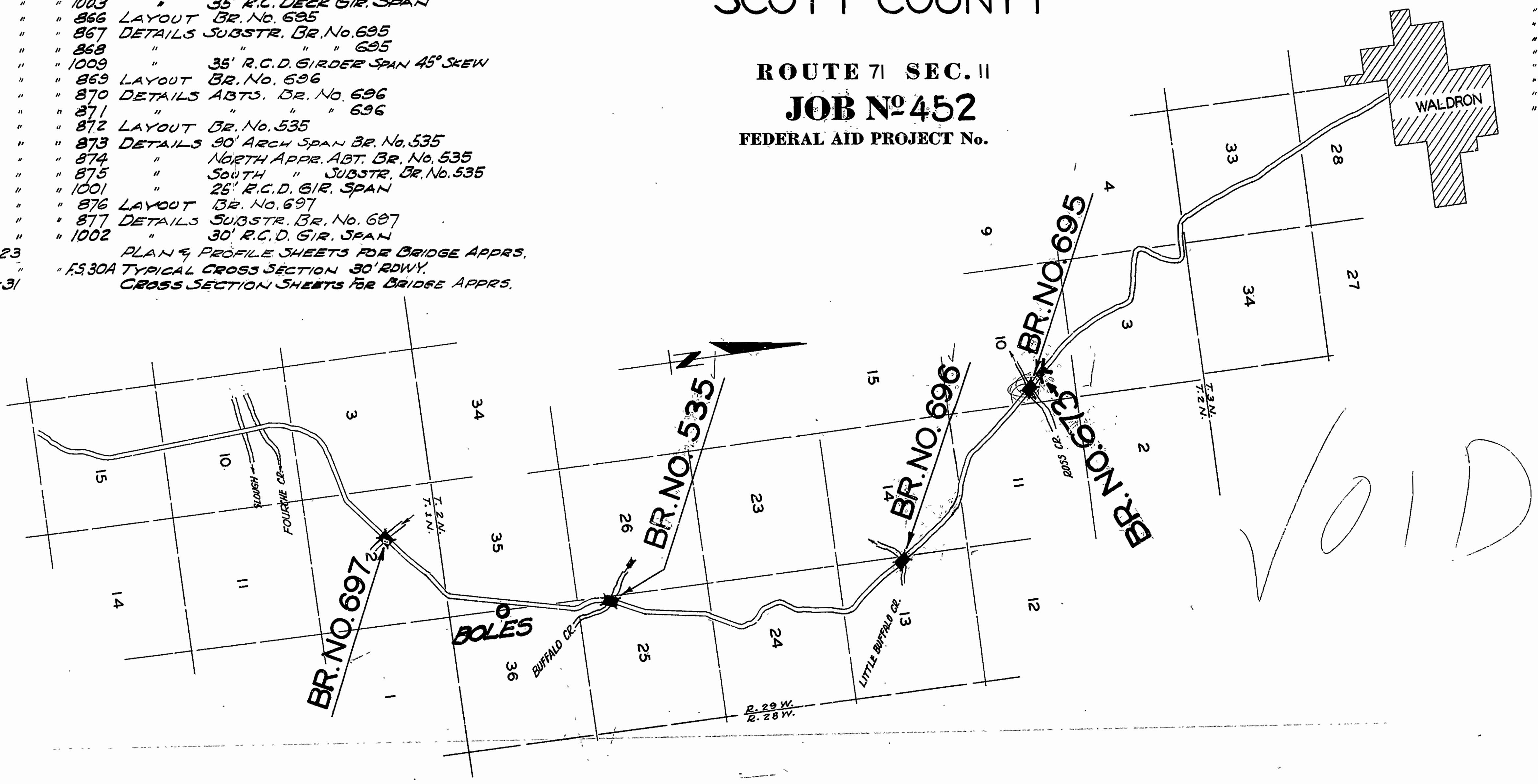
ROUTE 71 SEC. II
JOB No 452
FEDERAL AID PROJECT No.

INDEX OF SHEETS

SH. No.	DRWG. No.	TITLE SHEET
" 2 "	" 864 "	LAYOUT BR. No. 673
" 3 "	" 865 "	DETAILS SUBSTR. BR. No. 673
" 4 "	" 1003 "	35' R.C. DECK GIR. SPAN
" 5 "	" 866 "	LAYOUT BR. No. 695
" 6 "	" 867 "	DETAILS SUBSTR. BR. No. 695
" 7 "	" 868 "	" " " 695
" 8 "	" 1009 "	35' R.C.D. GIRDER SPAN 45° SKEW
" 9 "	" 869 "	LAYOUT BR. No. 696
" 10 "	" 870 "	DETAILS ABTS. BR. No. 696
" 11 "	" 871 "	" " " 696
" 12 "	" 872 "	LAYOUT BR. No. 535
" 13 "	" 873 "	DETAILS 90' ARCH SPAN BR. No. 535
" 14 "	" 874 "	NORTH APPR. ABT. BR. No. 535
" 15 "	" 875 "	SOUTH " SUBSTR. BR. No. 535
" 16 "	" 1001 "	25' R.C.D. GIR. SPAN
" 17 "	" 876 "	LAYOUT BR. No. 697
" 18 "	" 877 "	DETAILS SUBSTR. BR. No. 697
" 19 "	" 1002 "	30' R.C.D. GIR. SPAN
" 20-23 "		PLAN & PROFILE SHEETS FOR BRIDGE APPRS.
" 24 "		F.S. 30A TYPICAL CROSS SECTION 30' RDWY.
" 25-31 "		CROSS SECTION SHEETS FOR BRIDGE APPRS.

QUANTITIES

ITEM No.	DESCRIPTION	QUANTITY	UNIT
12	EARTH EXCAV. (RDY.)	734	Cu. Yds.
17	BORROW (")	26,637	" "
13	DRY EXCAV. FOR STRS.	1068	" "
13	WET " " "	879	" "
13	S.R. " " "	253	" "
54	GLASS "A" CONC.	669.97	" "
54	" "B" "	202.78	" "
54	" "C" "	498.0	" "
55	REINF. STEEL	198,904	LB.
69	RIP RAP	92	Sq. Yds.
74	CONG. RAILING FOR STRS.	968	Lin. Ft.



LAYOUT
Scale: 1"=2500'

GROSS LENGTH OF PROJECT = 2600' = 0.492 MI.
NET LENGTH OF PROJECT = 2600' = 0.492 MI.

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

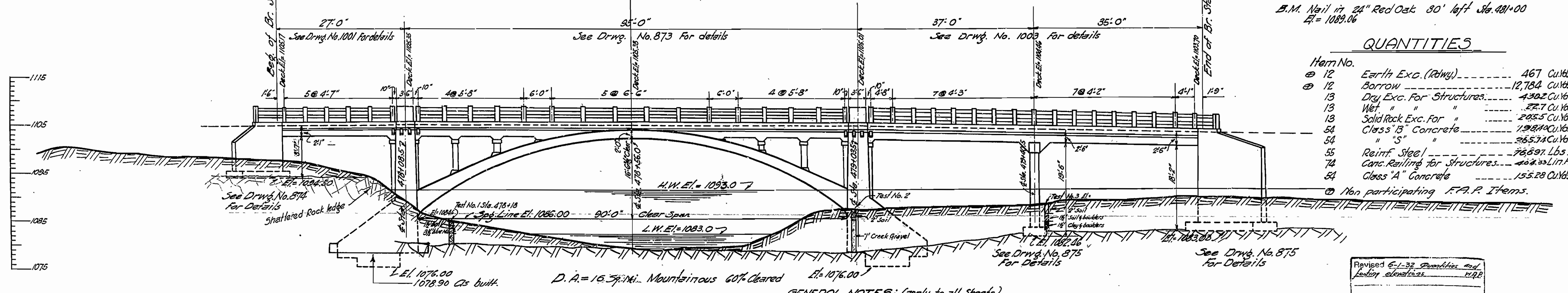
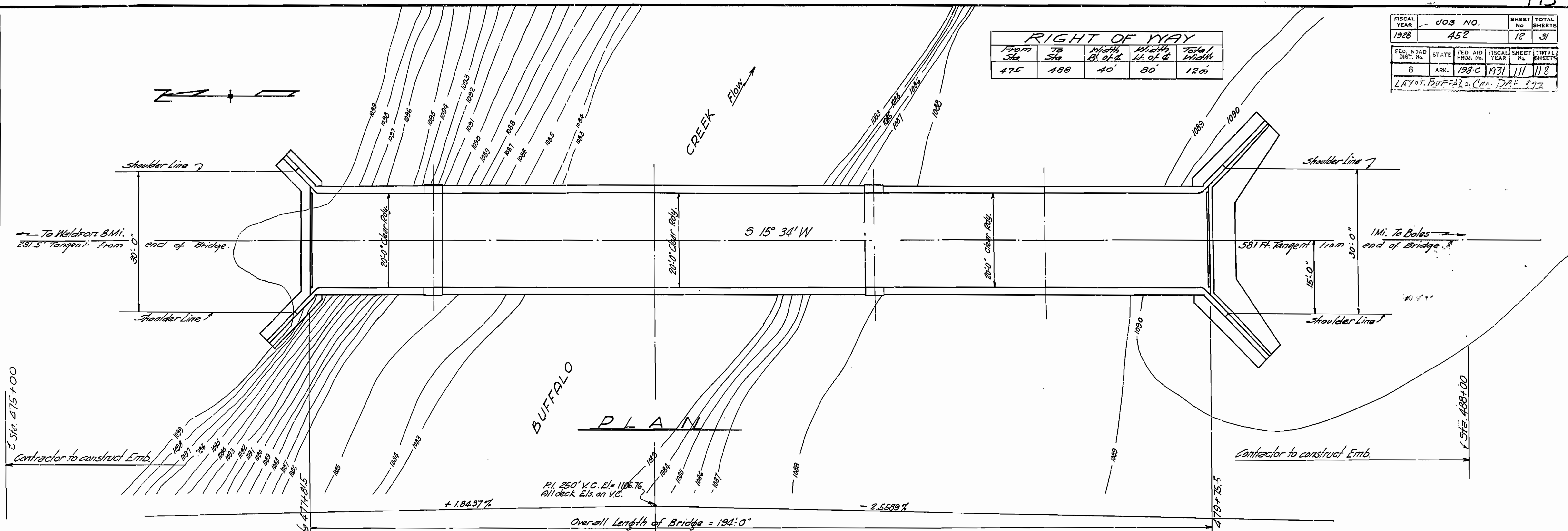
M.B. [Signature]
BRIDGE ENGINEER

BRIDGE No. 695-696
535-697-673 DRAWING NO. 863

FISCAL YEAR	JOB NO.	SHEET NO.	TOTAL SHEETS		
1928	452	12	31		
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	198-C	1931	111	118

LAYOUT OF BRIDGE OVER BUFFALO CREEK, PLAN, DATE 3/22

RIGHT OF WAY				
From Sta.	To Sta.	Width ft. of R.	Width ft. of L.	Total Width
475	488	40'	80'	120'



QUANTITIES

Item No.	Description	Quantity
12	Earth Exc. (Rwy.)	467 Cu.Yds.
12	Borrow	12,784 Cu.Yds.
13	Dry Exc. For Structures	4,302 Cu.Yds.
13	Wet "	22.7 Cu.Yds.
13	Solid Rock Exc. For "	2,055 Cu.Yds.
54	Class "B" Concrete	1,984 Cu.Yds.
54	" "S" "	265.74 Cu.Yds.
55	Reinf. Steel	76,697 Lbs.
74	Conc. Reinforcing for Structures	402.33 L in Ft.
54	Class "A" Concrete	155.28 Cu.Yds.

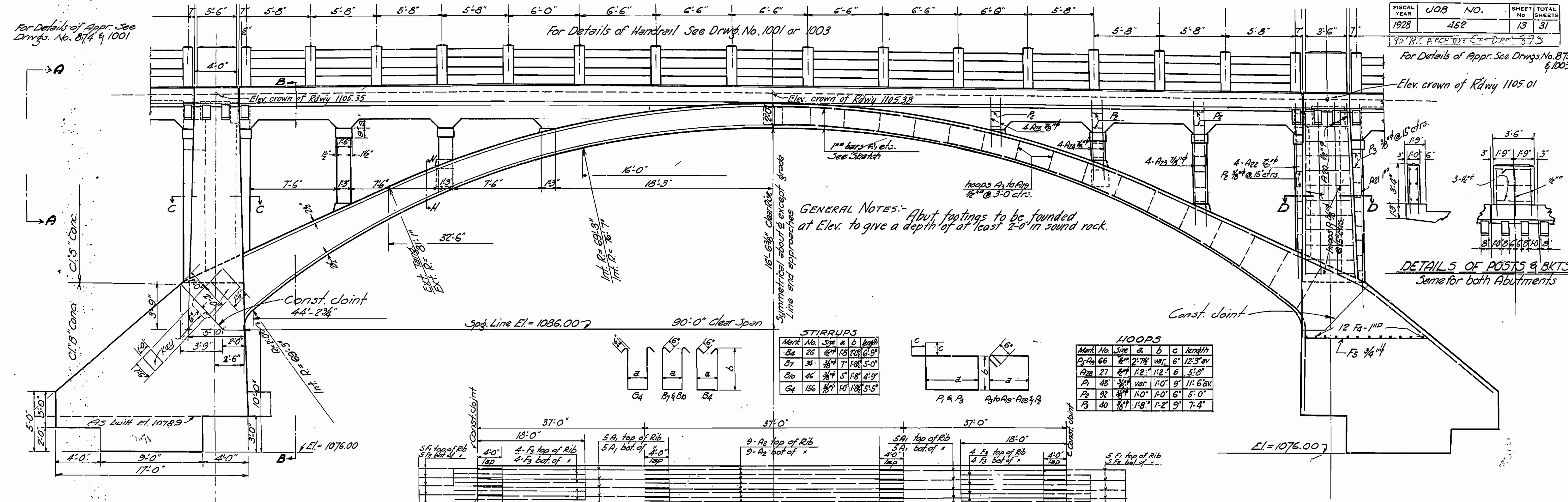
Non participating F.P.R. Items

ELEVATION

GENERAL NOTES: (apply to all Sheets)
 All exposed corners to have 3/4" chamfer unless otherwise noted.
 Precast Conc. handrails to be 1:3 mix. Max. agg. 1/4"
 All concrete in Arch Span above Const. Joints at Abts. and all conc. in approach spans above top of Col. Caps and above Const. Joints at Abts., except reinf. members, to be Cl. "S".
 All Conc. in Arch Abts. below Const. Joint to be Cl. "B".
 All Conc. in Appr. Spans below top of Col. Caps & Const. Joints at Abts. to be Cl. "A"
 Reinforcing Steel to be deformed bars of Structural or Intermediate grade.
 Shop List and Bending Diagrams of Reinf. Steel must be submitted by the Contractor before fabrication is begun.
 Plans showing falsework details for the Arch and proposed order of concreting must be submitted for approval before construction of the arch is begun.
 Roadway Drains & Exp. Devices to be paid for by reinf. steel.
 Tops of Arch Abts. to be founded at Blk. to give 2'-0" depth in sound rock.
 All concrete to be poured in the dry.
 Specifications: Ark. STD. ROAD AND BRIDGE SPECIFICATIONS adopted May 30th 1925 - Revised Oct. 14 1928

LAYOUT OF BRIDGE OVER BUFFALO CREEK
SCOTT COUNTY
 ROUTE 71 SEC. 11
ARKANSAS STATE HIGHWAY DEPARTMENT
 LITTLE ROCK, ARK.
 Drawn By: *EWS* Date: 6-7-28
 Traced By: *E.A.W.* Date: 6-7-28
 Checked By: *G.S.V.* Date: 6-9-28
BRIDGE NO. 535 Scale: 1 in. = 10 ft.
DRAWING NO. 872

M.B. Swann
 BRIDGE ENGINEER



GENERAL NOTES:- Abut footings to be founded at Elev. to give a depth of at least 2'-0\"/>

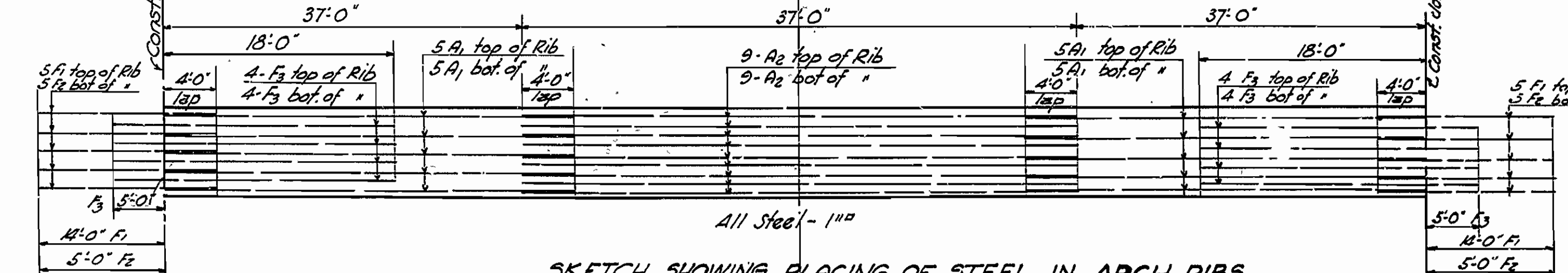
STIRRUPS

Mark	No.	Size	a	b	Length
Ba	26	3/8"	10"	10"	6'-9"
B7	38	3/8"	7"	18"	5'-0"
B10	46	3/8"	5"	18"	4'-9"
G4	156	3/8"	10"	18"	5'-5"

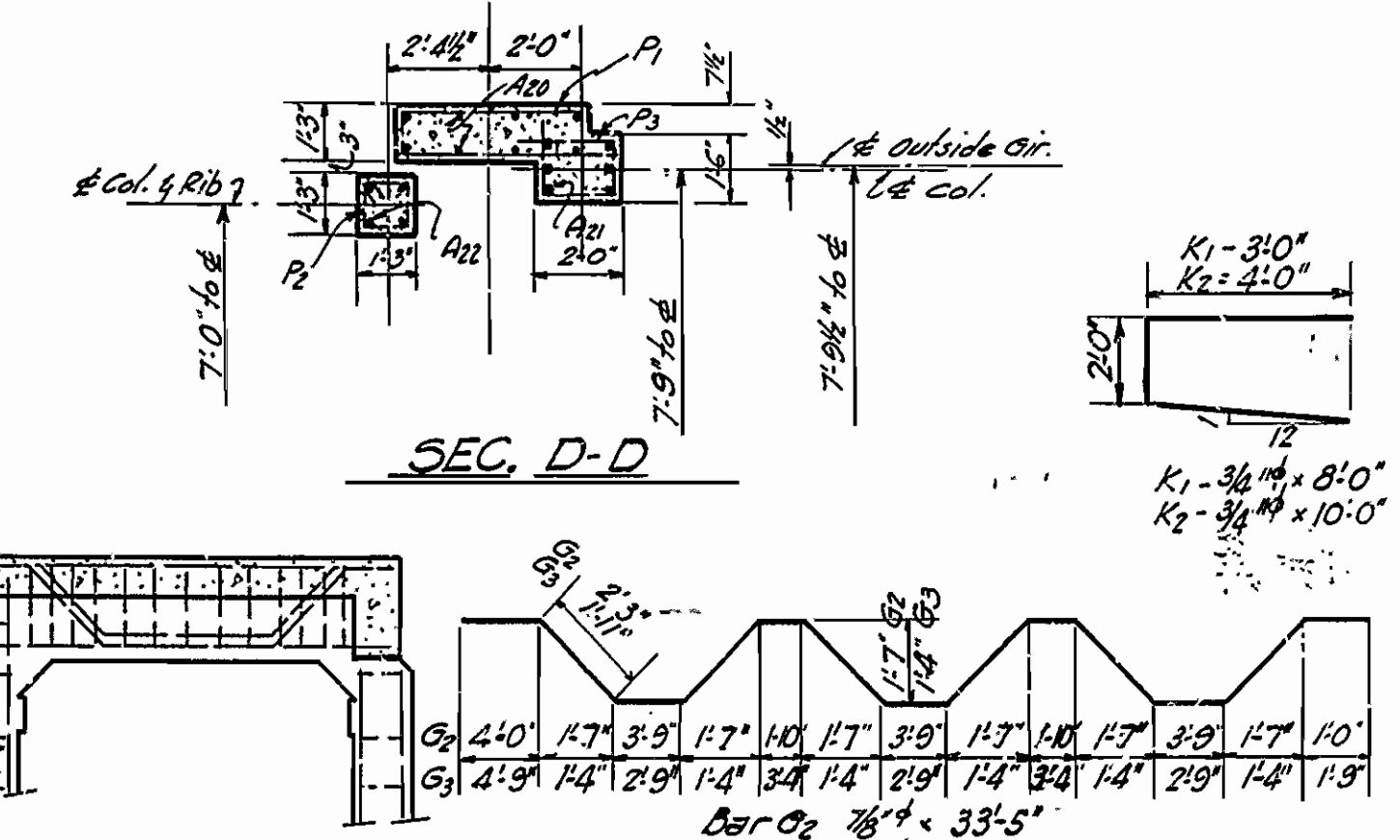
HOOPS

Mark	No.	Size	a	b	Length
A4	66	3/8"	2'-7 1/2"	var.	6'-12'-3" ov.
P1	48	3/8"	var.	1'-0"	9'-11'-6" ov.
P2	92	3/8"	1'-0"	1'-0"	6'-5'-0"
B	40	3/8"	1'-2"	9"	7'-4"

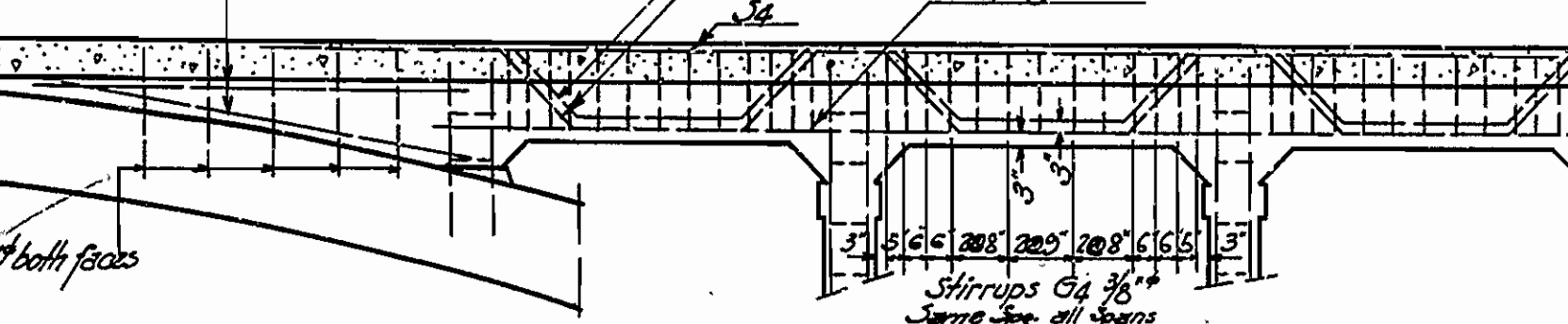
SKETCH SHOWING PLACING OF STEEL IN ARCH RIBS



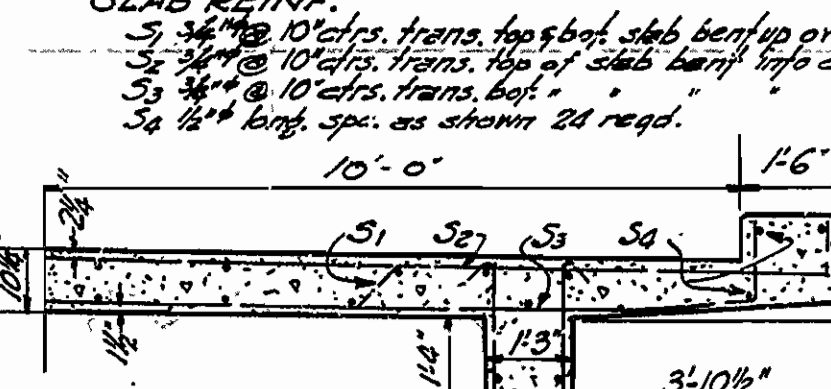
SEC. D-D



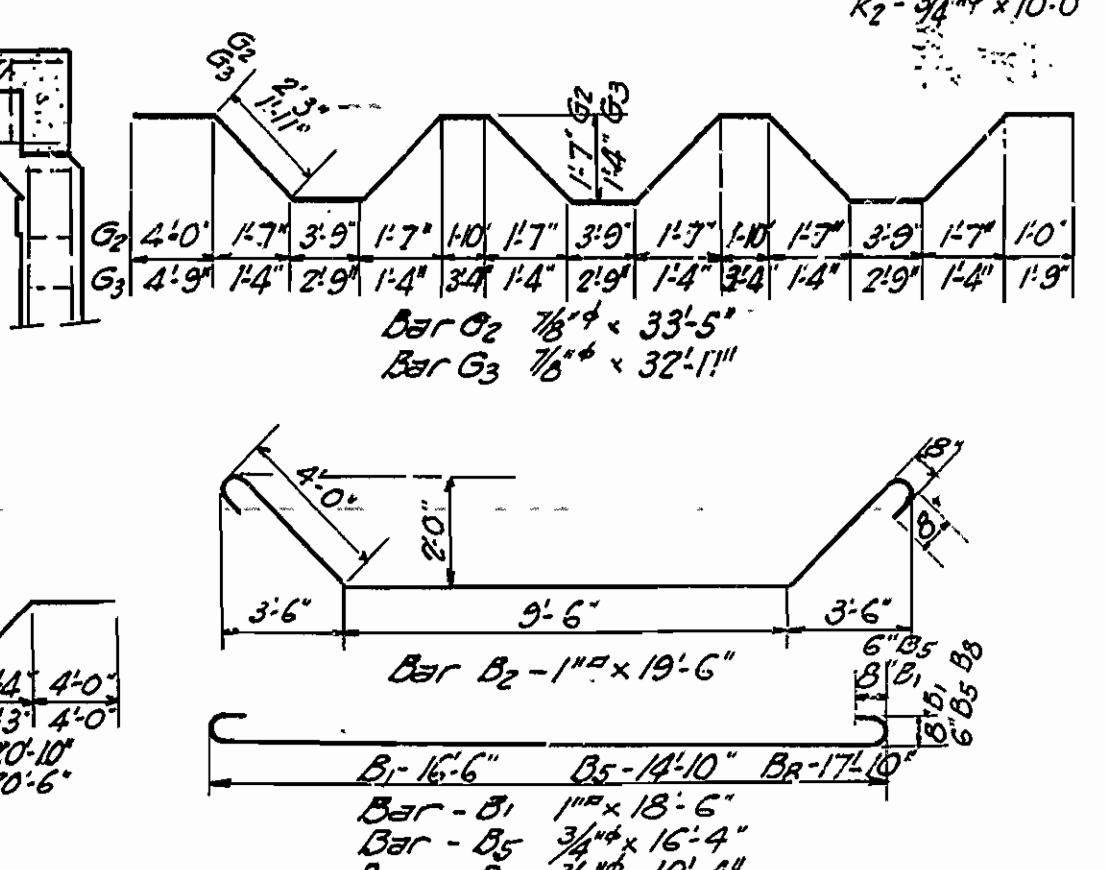
HALF LONG SEC. SHOWING REINF. IN LONG GIRDER



TYPICAL CROSS SECTION



DETAILS OF 90'-0" R.C. ARCH OVER BUFFALO CREEK SCOTT COUNTY ROUTE 71 SEC. 11

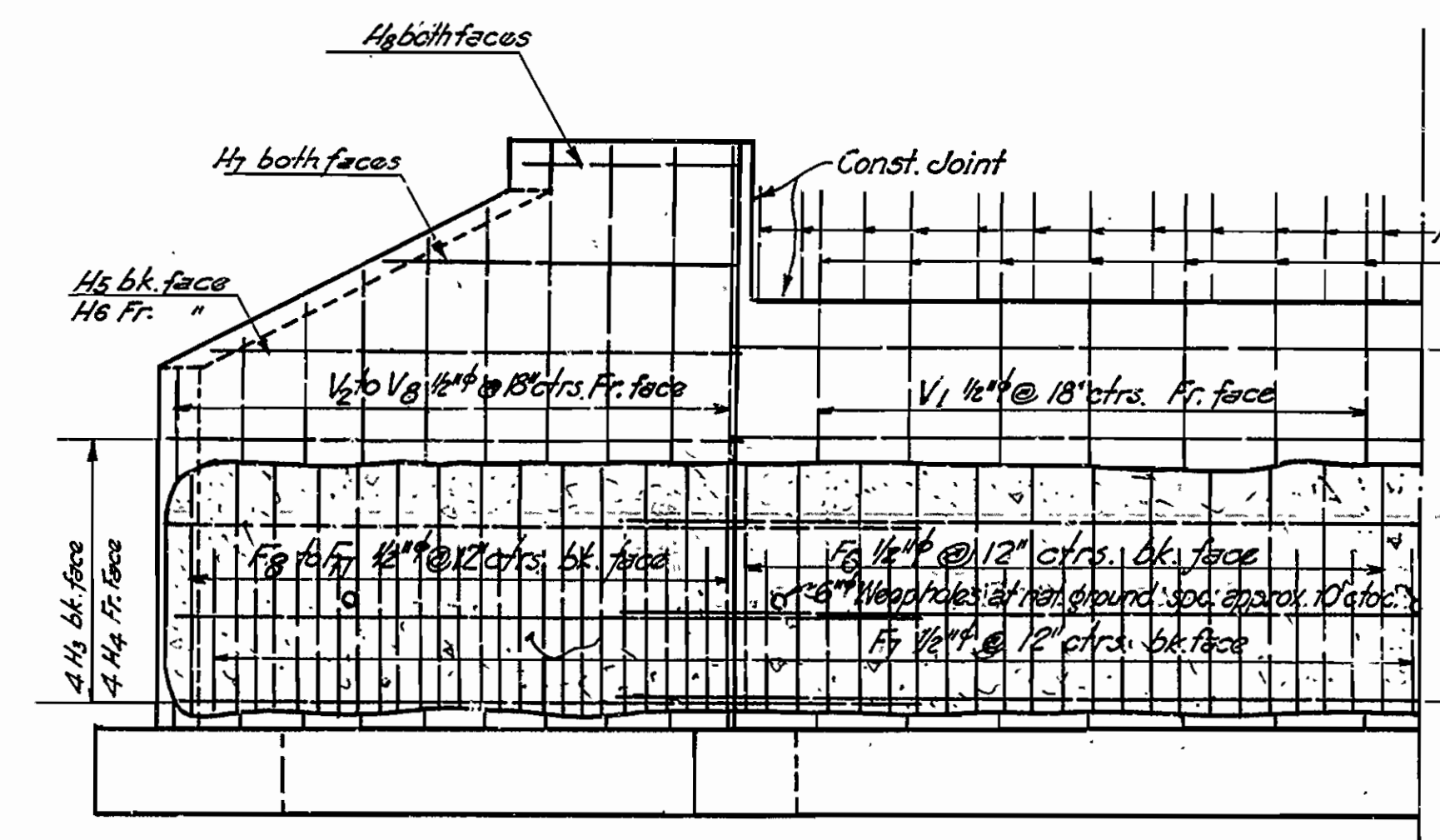


ARKANSAS STATE HIGHWAY DEPARTMENT
 LITTLE ROCK, ARK.
 Drawn By: *[Signature]* Date: 6-1-28
 Traced By: *[Signature]* Date: 6-6-28
 Checked By: *[Signature]* Date: 6-13-28
 BRIDGE NO. 535 DRAWING NO. 873

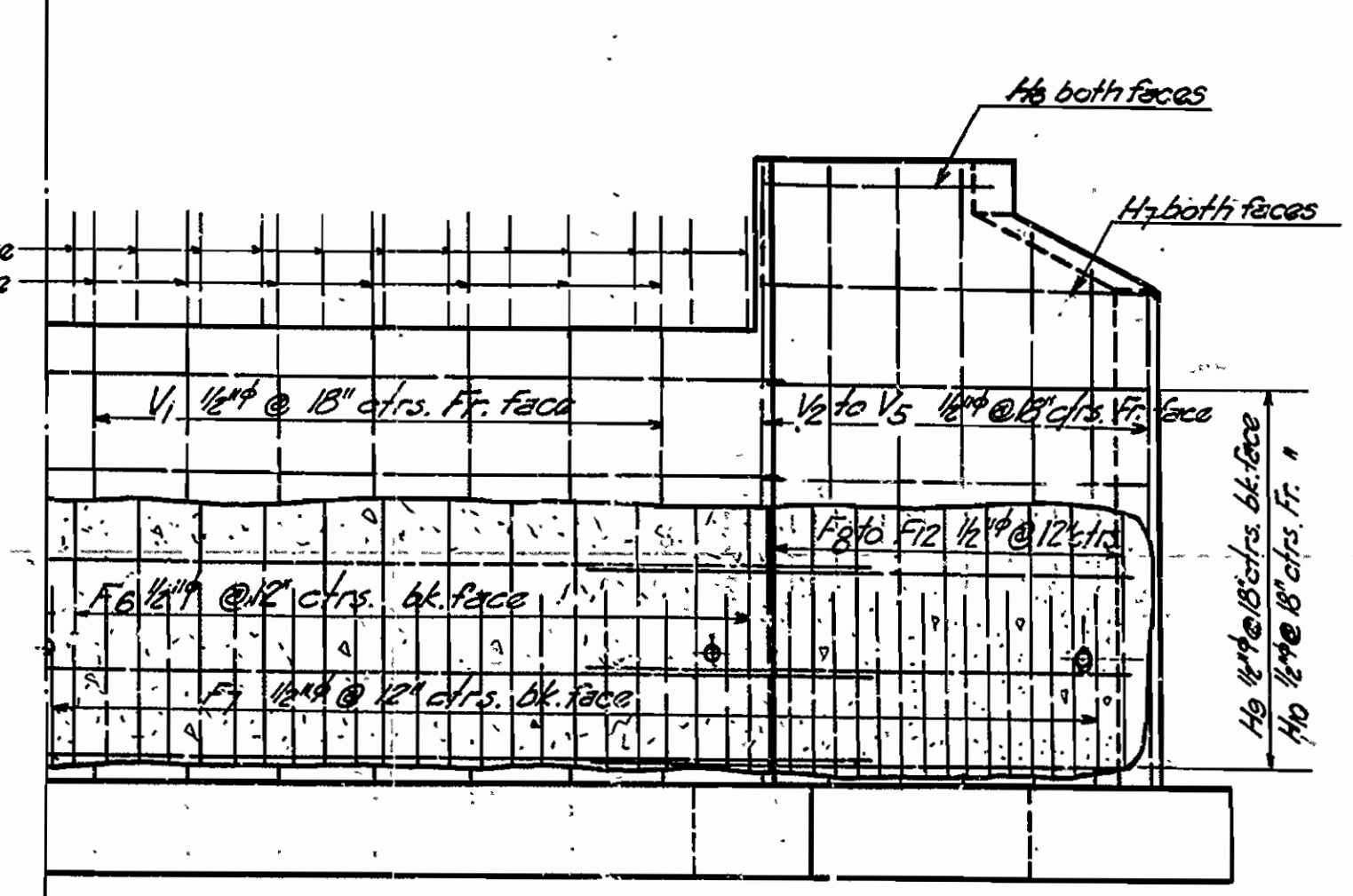
M. B. LAMAR
 BRIDGE ENGINEER

FISCAL YEAR	JOB NO.	SHEET NO.	TOTAL SHEETS
1928	452	14	31

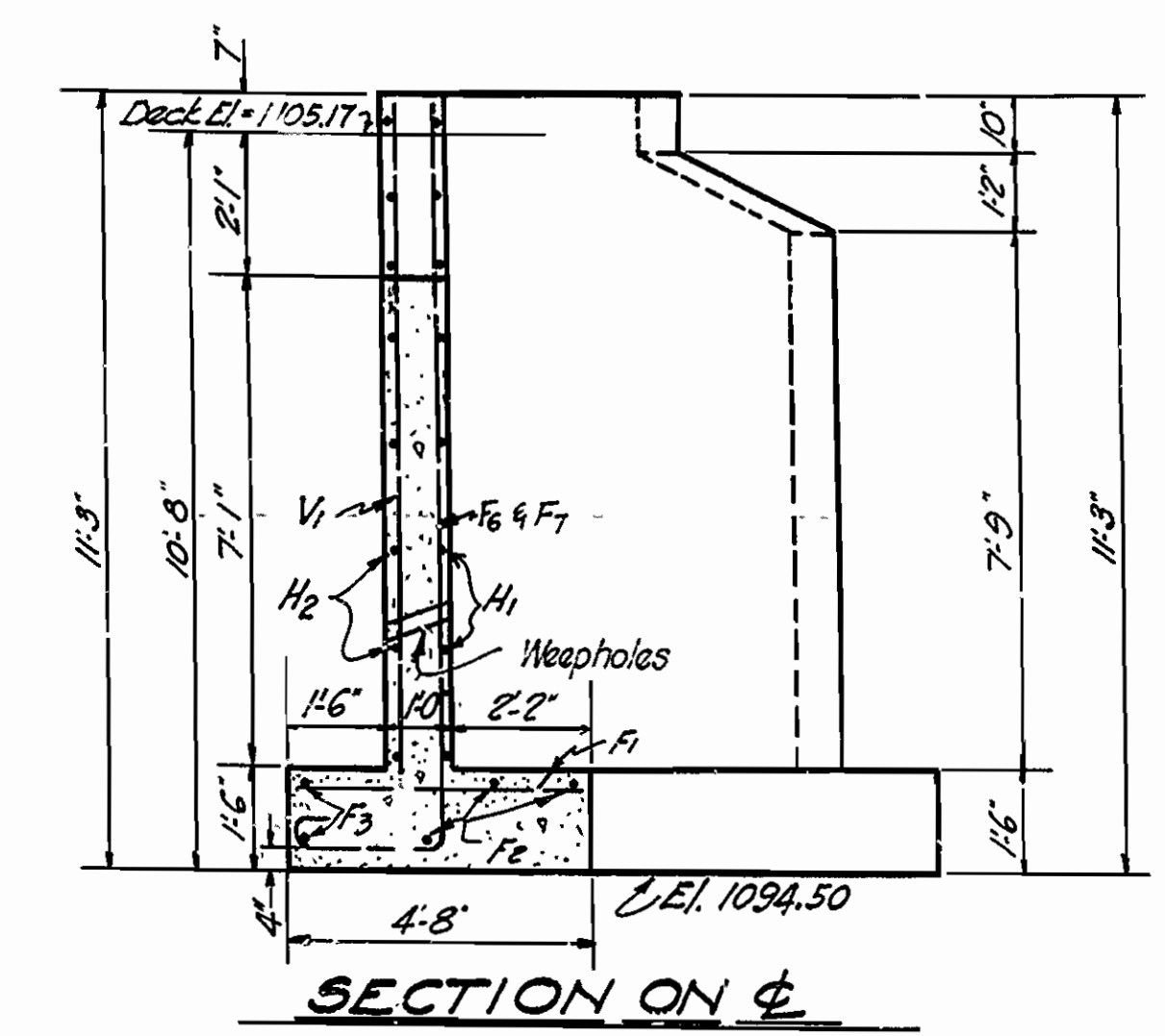
R.C. Abutment Over Buffalo Creek, Ark.



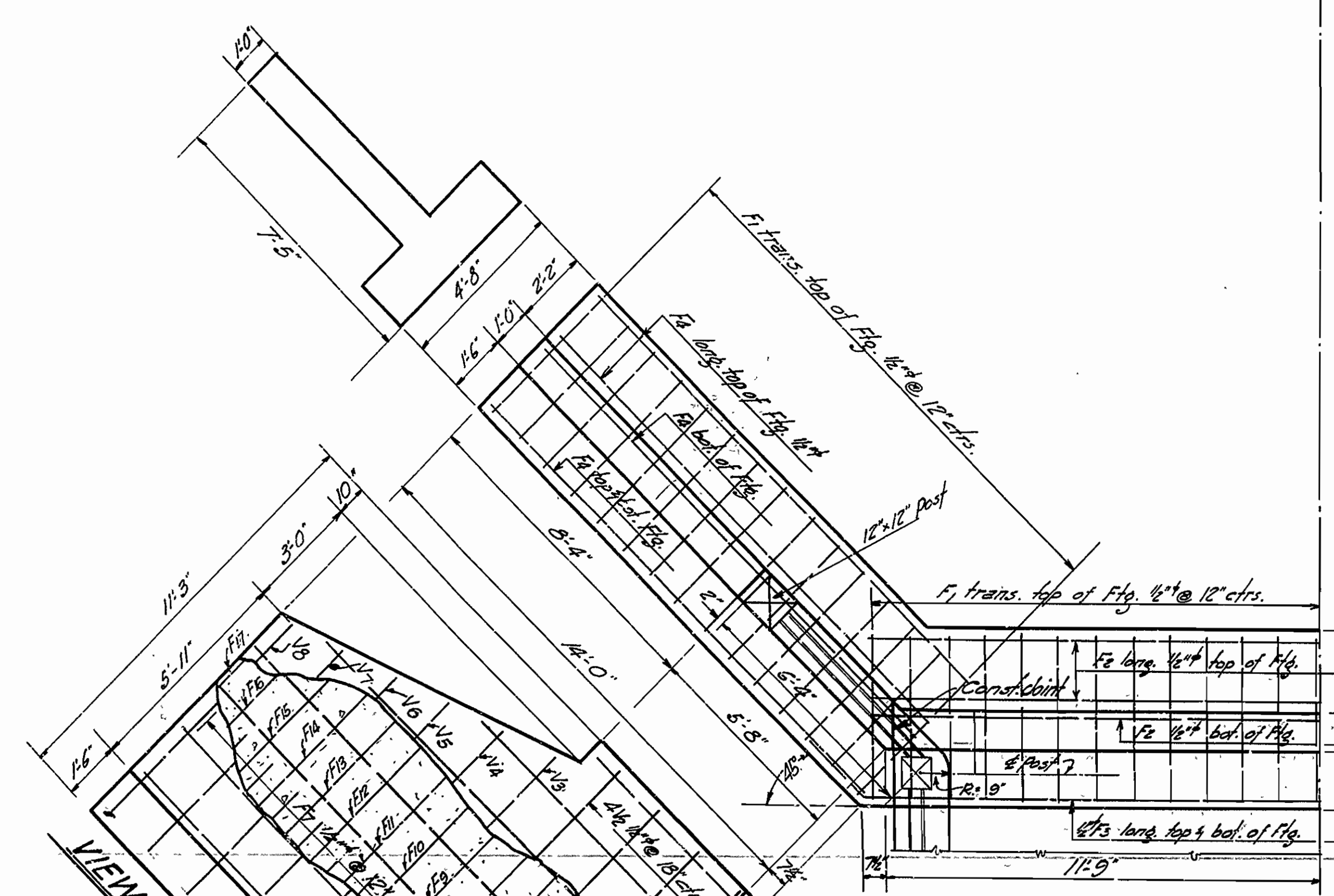
HALF ELEVATION (WEST)



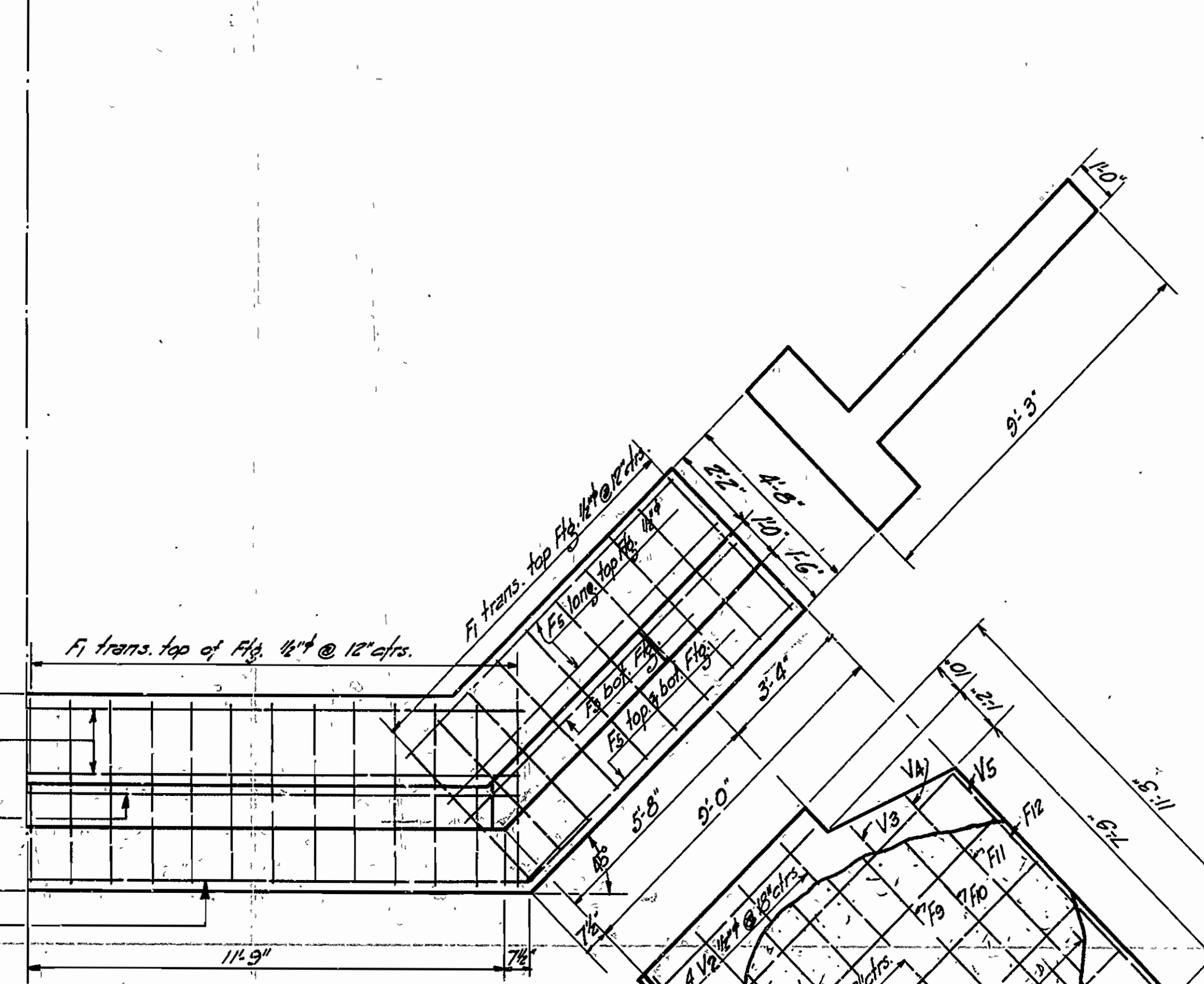
HALF ELEVATION (EAST)



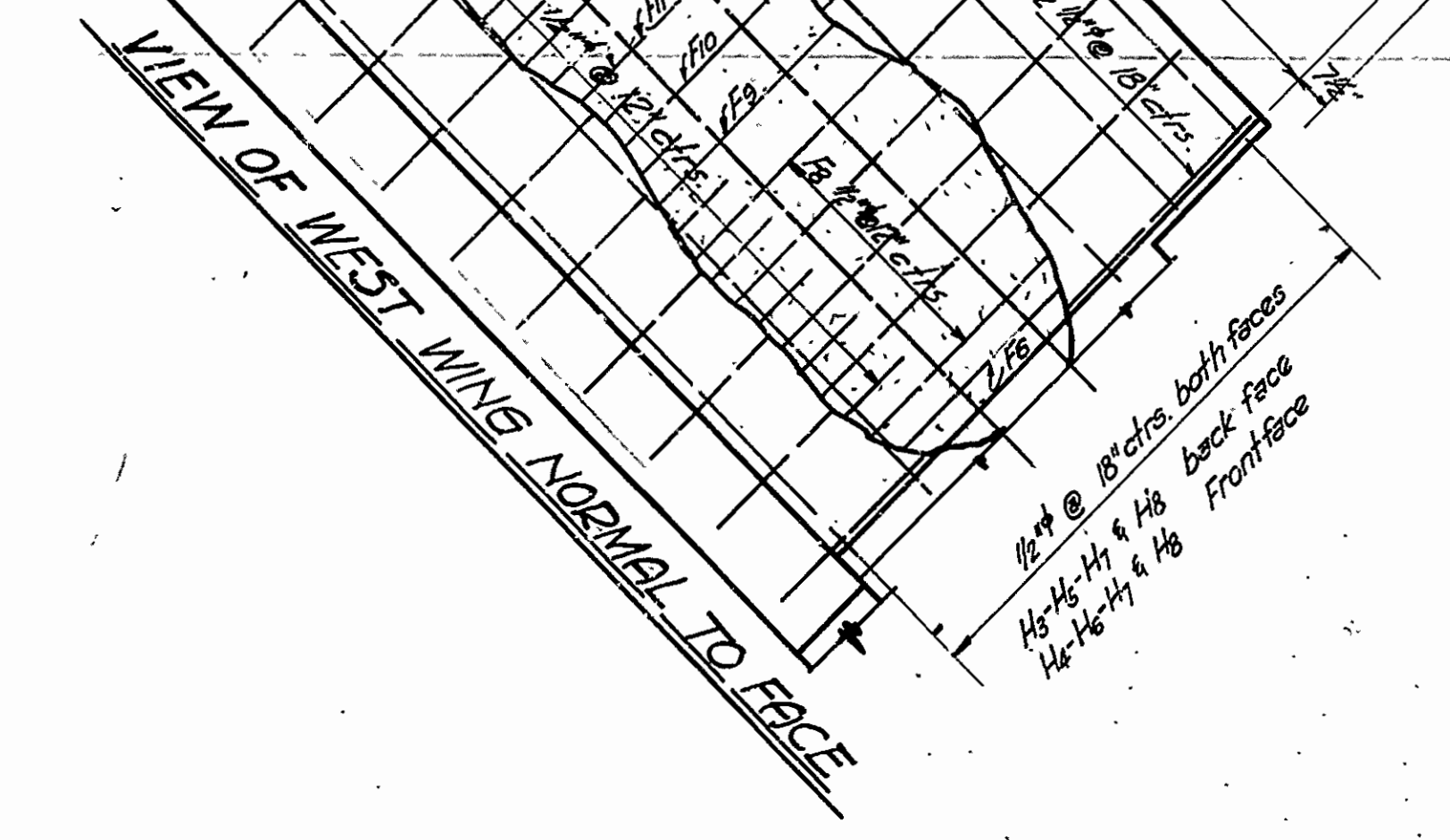
SECTION ON Φ



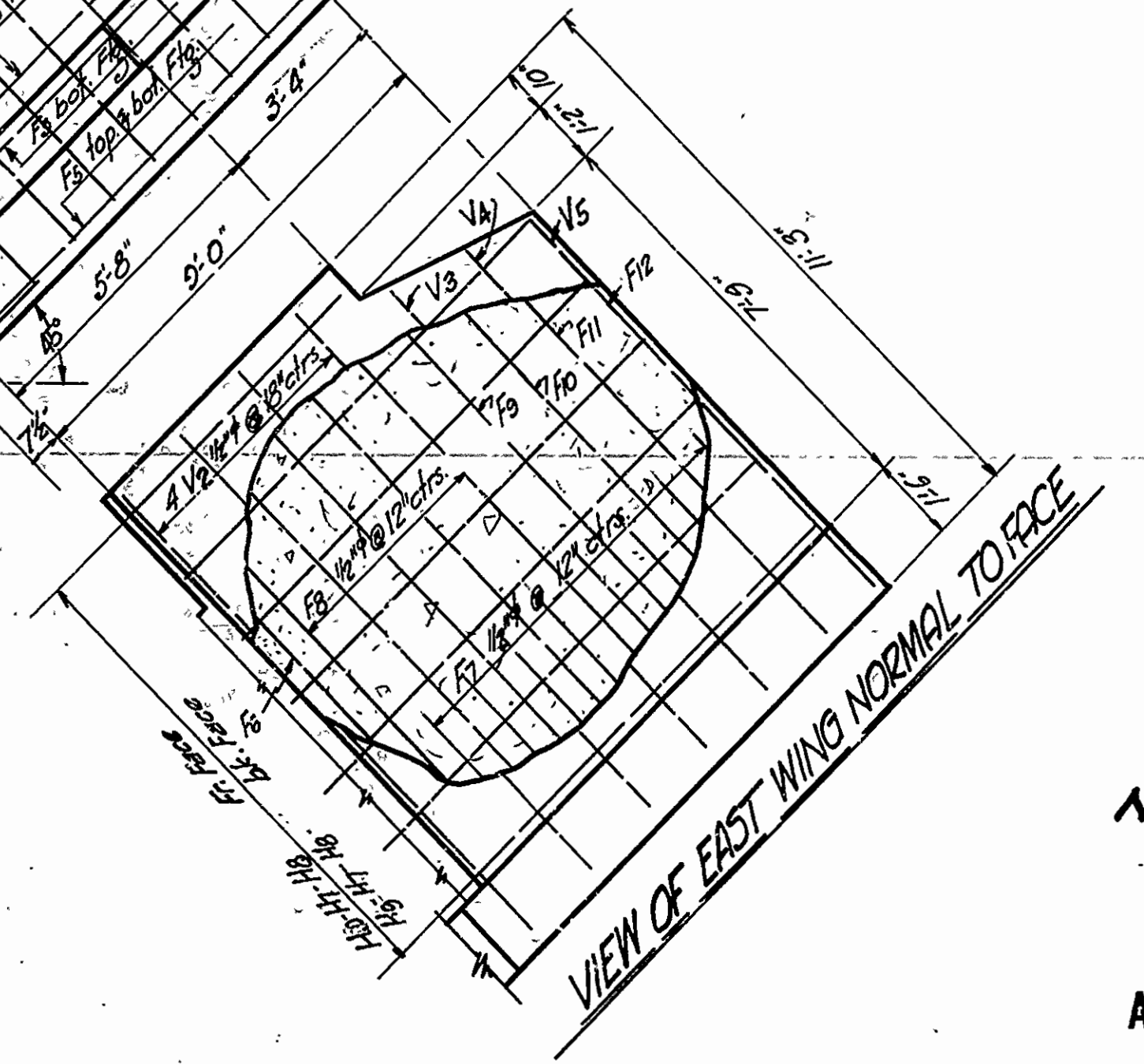
HALF PLAN (WEST)



HALF PLAN (EAST)

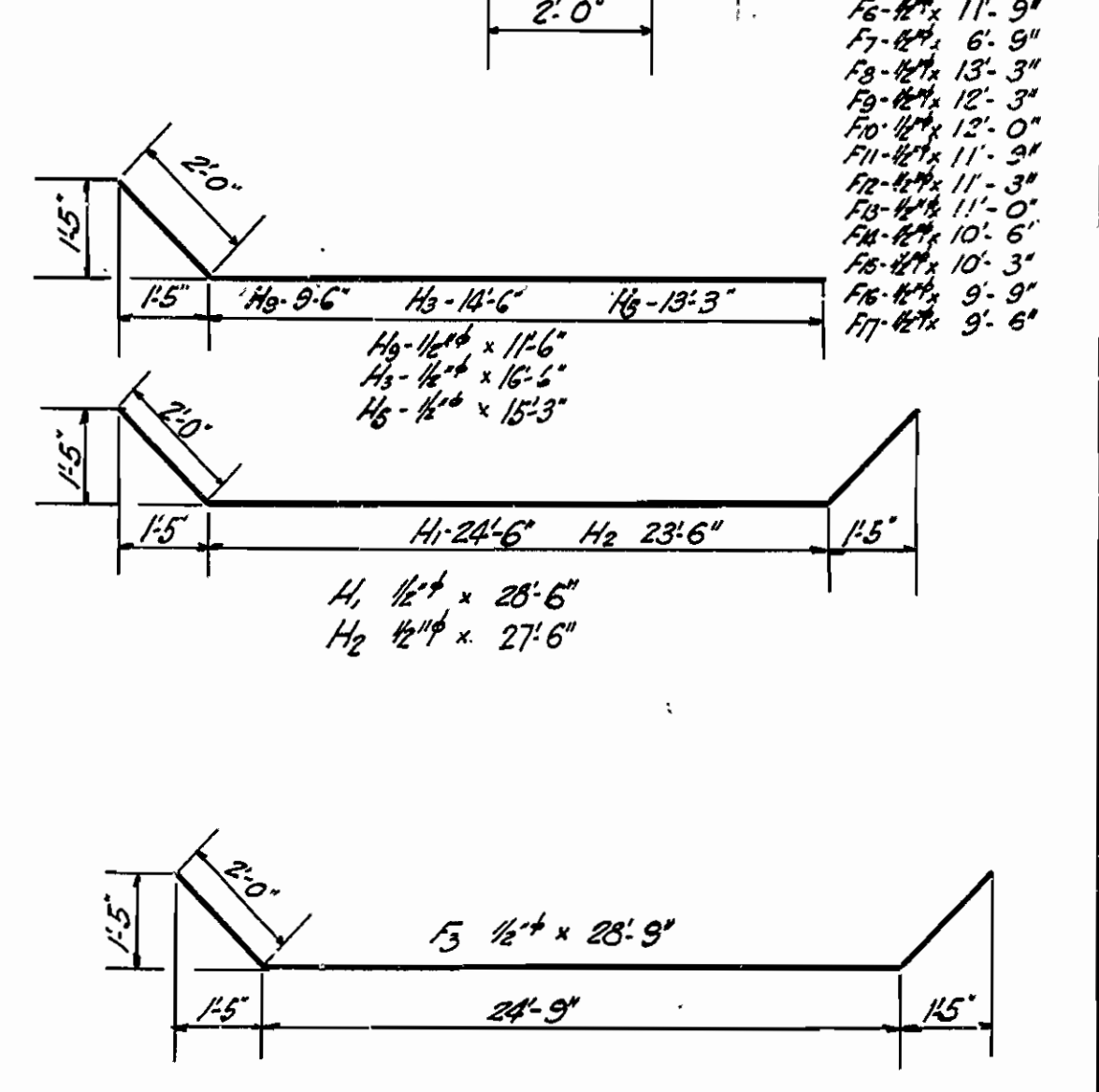


VIEW OF WEST WING NORMAL TO FACE



VIEW OF EAST WING NORMAL TO FACE

Label	Dimension
F5-9'5"	
F7-4'5"	
F8-10'8"	
F9-9'9"	
F10-9'5"	
F11-8'5"	
F12-8'5"	
F13-9'5"	
F14-9'5"	
F15-9'5"	
F16-9'5"	
F17-9'5"	



**DETAILS OF
R. C. ABUTMENT
NORTH APPROACH TO ARCH BRIDGE
OVER BUFFALO CREEK
SCOTT COUNTY**

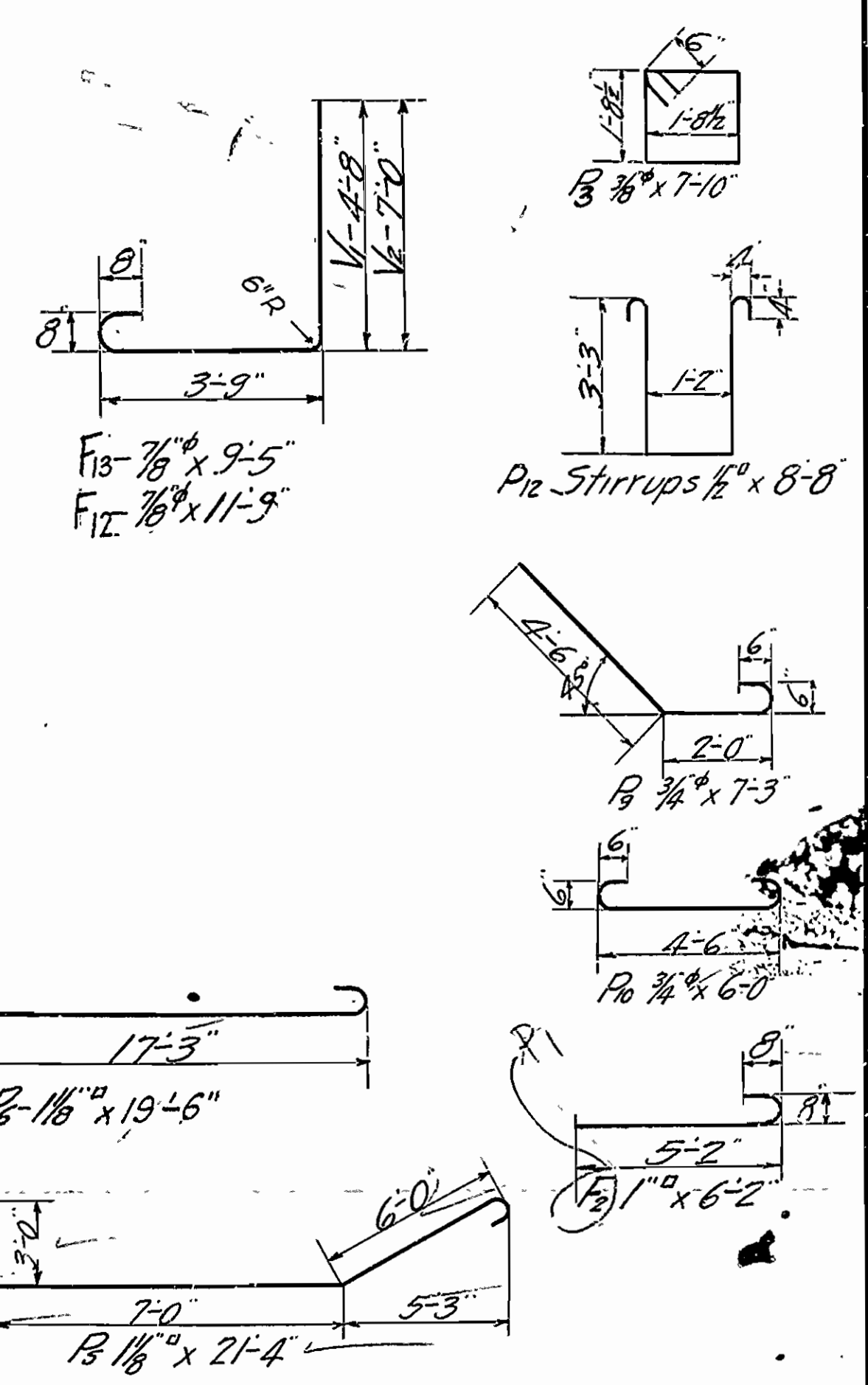
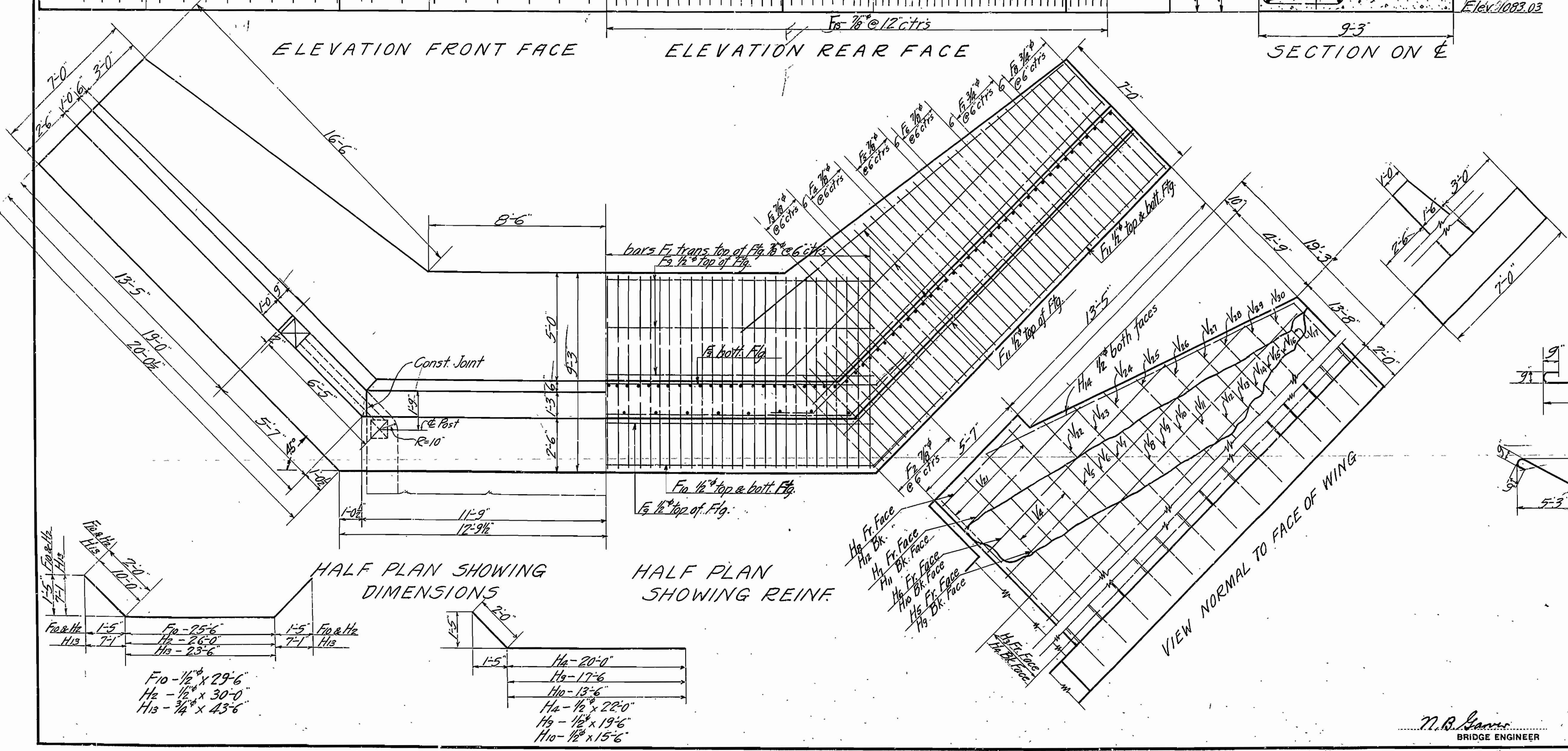
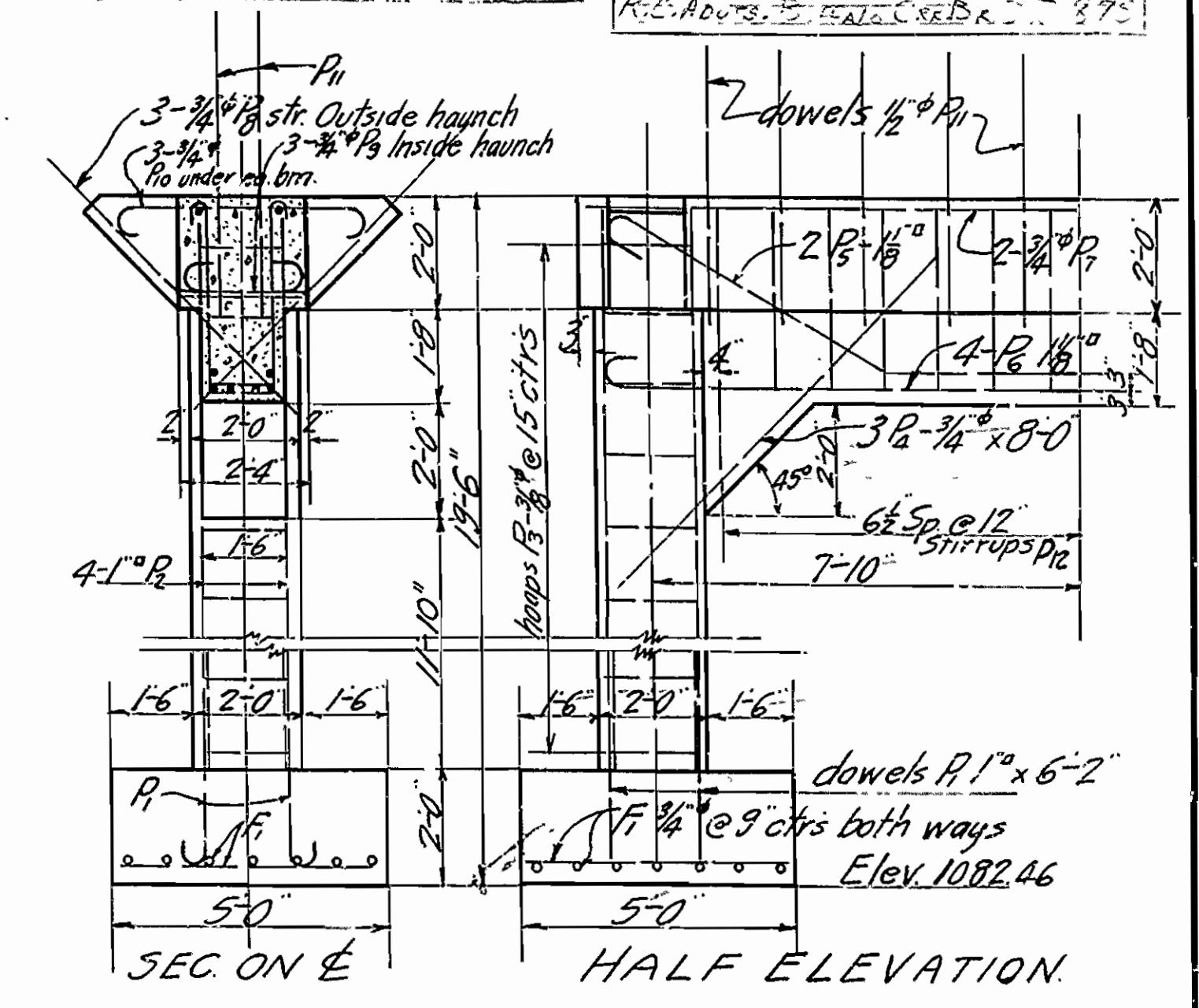
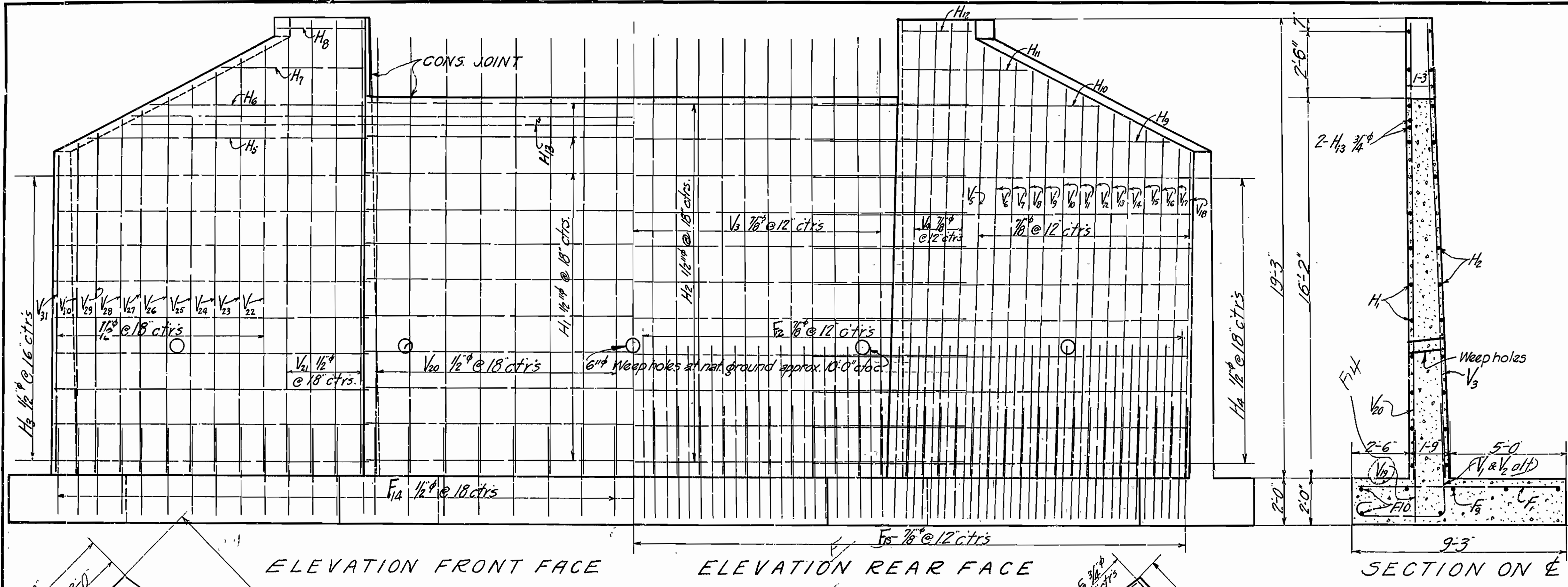
ROUTE 71 SEC. 11
ARKANSAS STATE HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.

Drawn By: *EWS* Date: 6-1-28
Traced By: *E.A.W.* Date: 6-7-28
Checked By: *G.S.V.* Date: 6-13-28
Scale: 3/8" = 1' ft.
BRIDGE NO. 535 DRAWING NO. 874

N.B. Beaver
BRIDGE ENGINEER

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	198-C-193	1933	14	178

FISCAL YEAR	Job No.	SHEET No.	TOTAL SHEETS
1928	452	15	31

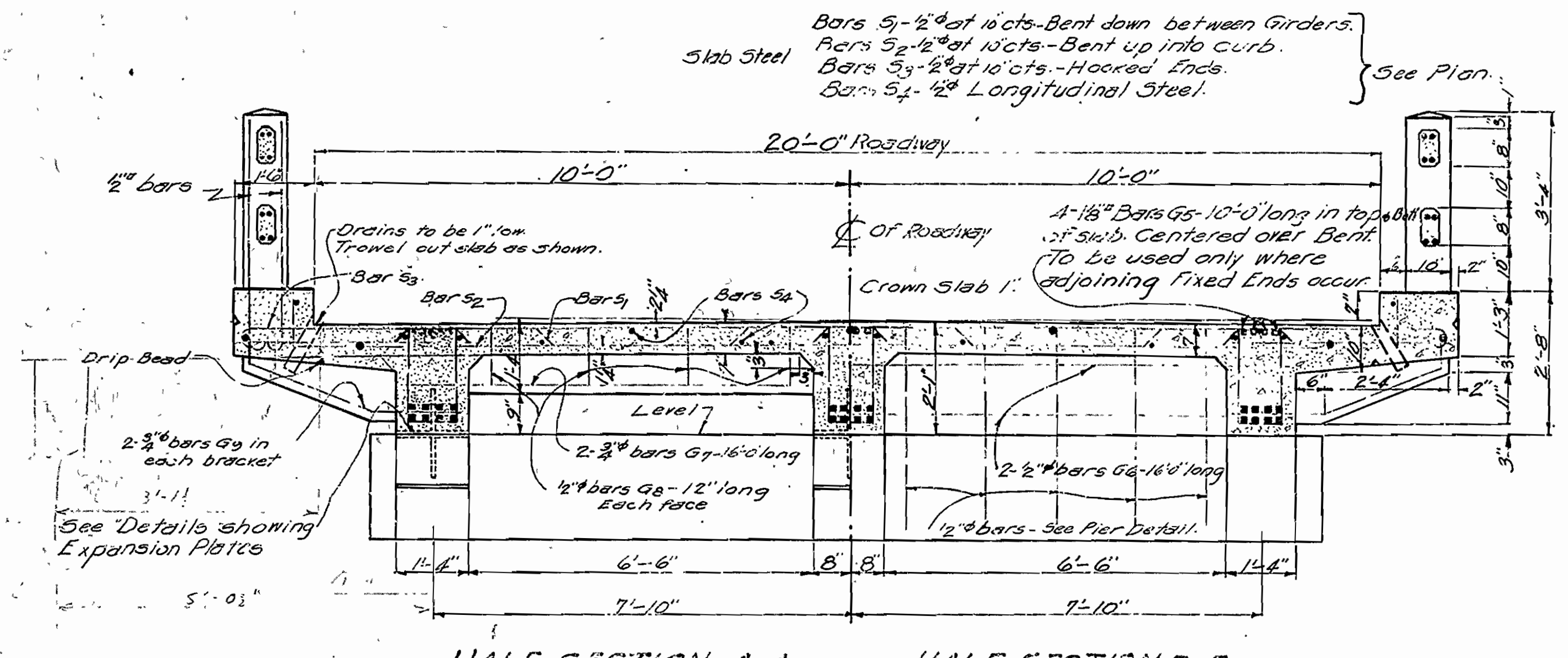
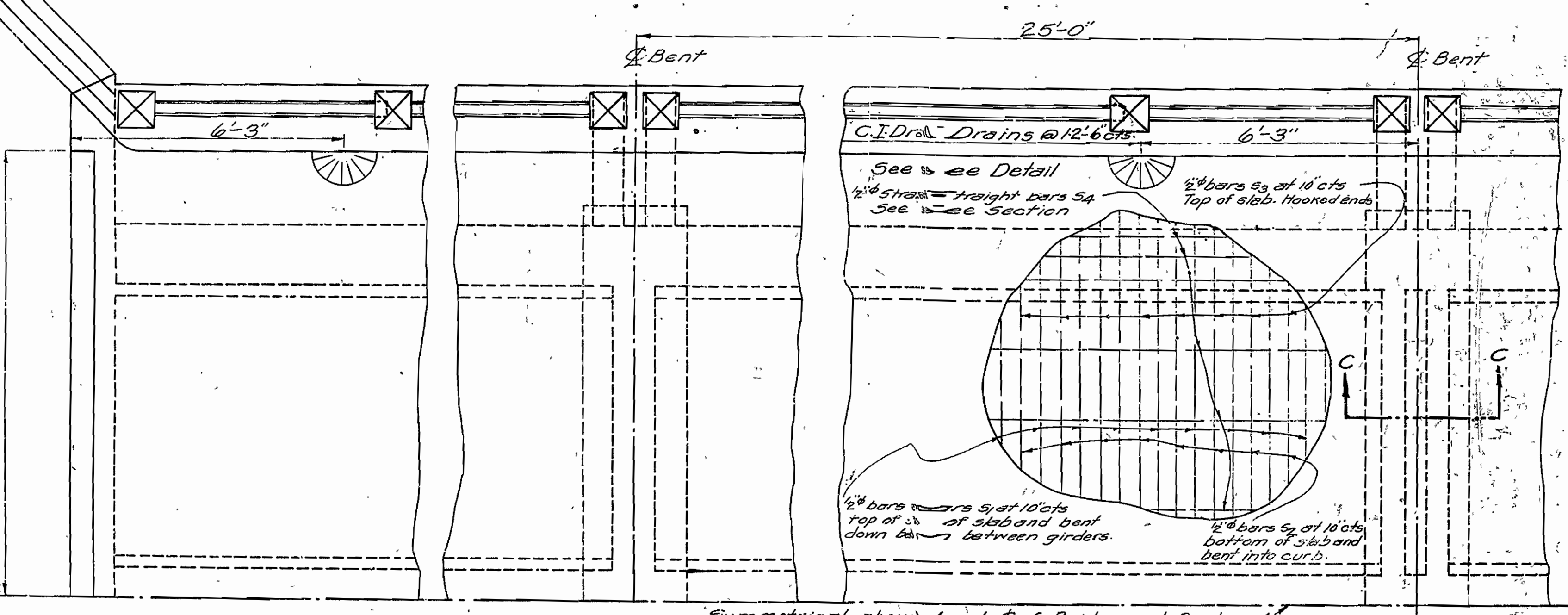
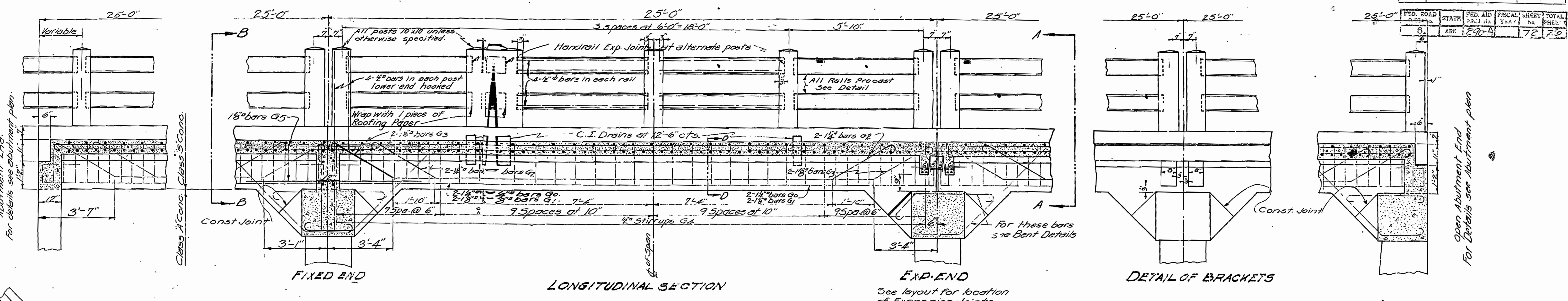


**DETAILS OF
R.C. ABUTMENT
SOUTH APPROACH TO ARCH BRIDGE
OVER BUFFALO CREEK
SCOTT COUNTY
ROUTE 71 SEC. 11**

**ARKANSAS STATE HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.**
 Drawn By: *Frederick* Date: 6-5-28
 Traced By: *W. H. H. H.* Date: 6-7-28
 Checked By: *G. S. V.* Date: 6-13-28
 Scale: 3/8" = 1' ft.
BRIDGE NO. 535 DRAWING NO. 875

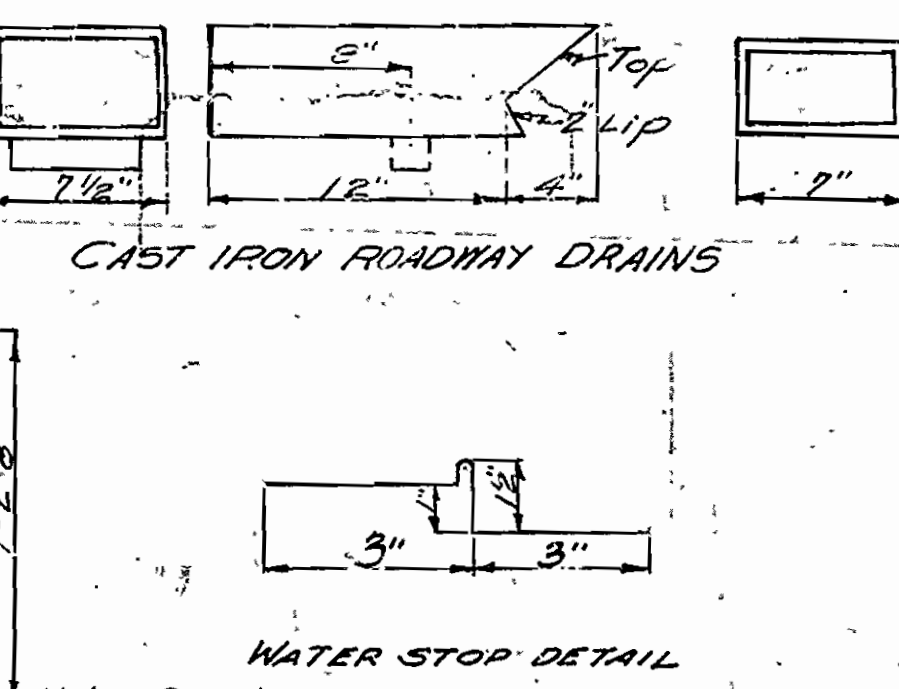
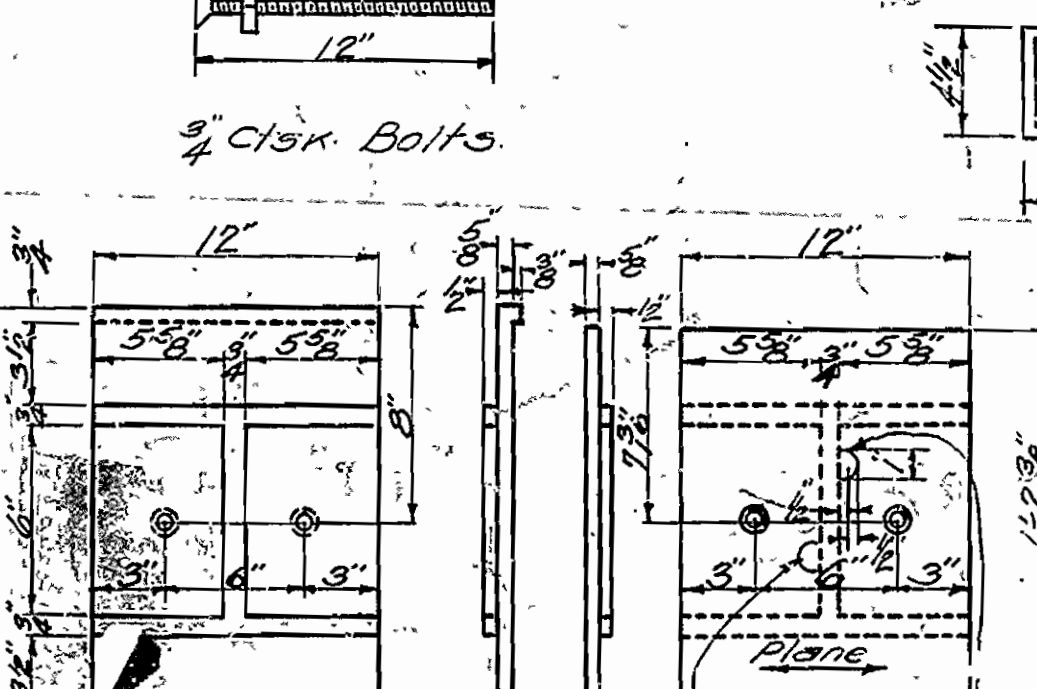
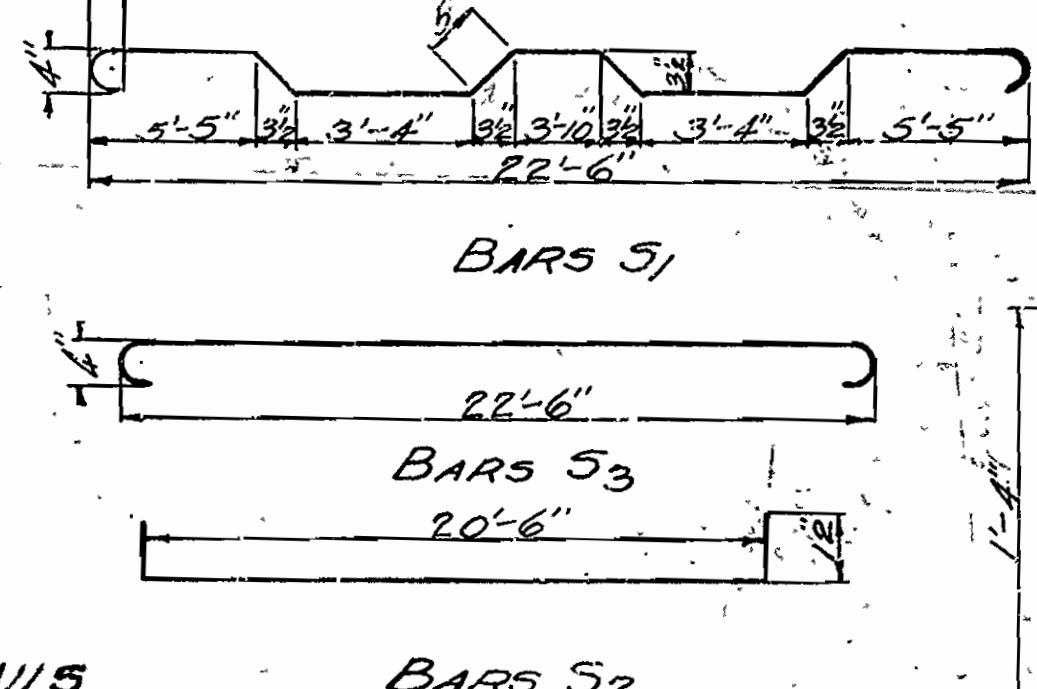
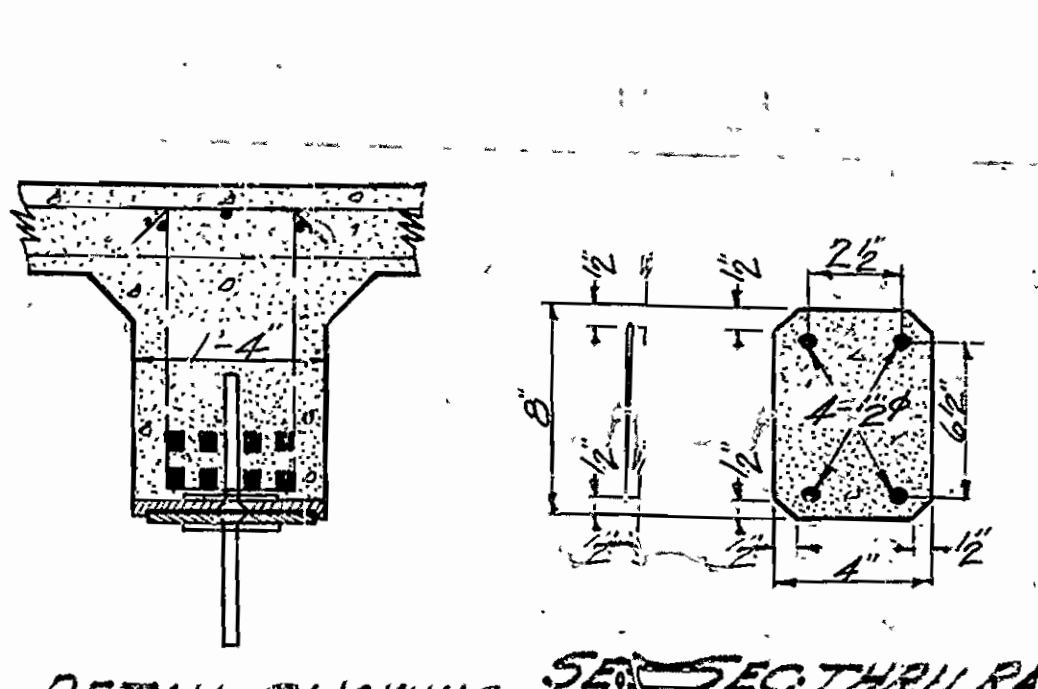
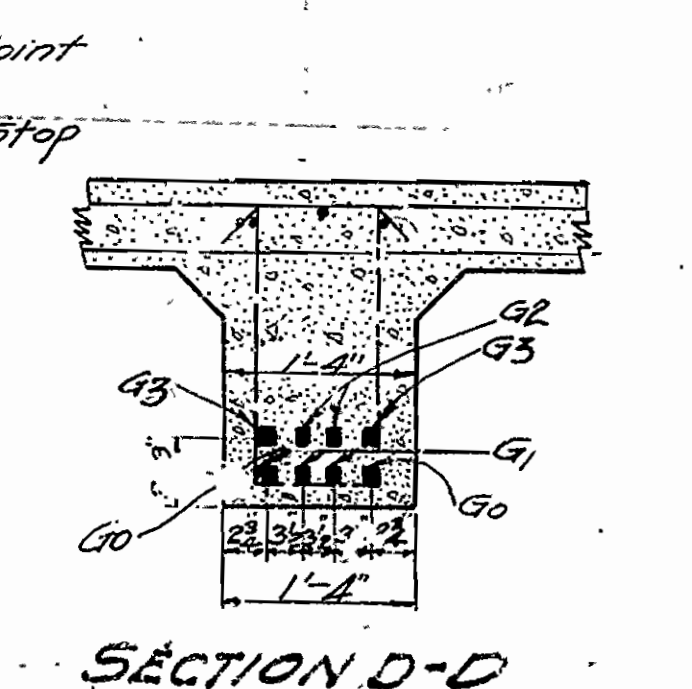
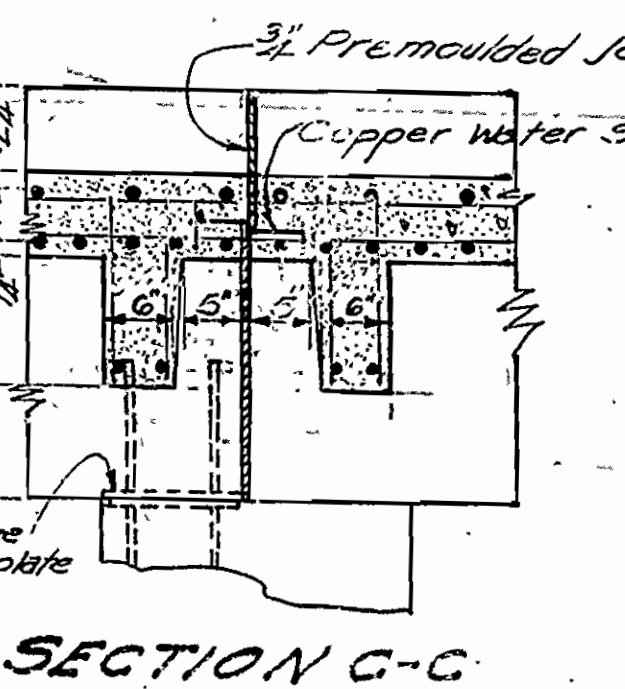
M. B. Swain
BRIDGE ENGINEER

FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1925	72	72



GENERAL NOTES

All exposed corners to have 3/4" chamfer unless noted otherwise.
 Precast Concrete Handrails to be 141 mix, maximum egg 5/8".
 Rail Posts to be Class 5 concrete.
 Concrete above top of Column Caps except Handrails to be Class 5 concrete. Below this point Class A concrete.
 All concrete to be placed in the dry.
 Reinforcing Steel to be deformed bars of Structural or Intermediate grade. Shop lists and bending diagrams shall 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.
 Specifications: Arkansas Standard Road and Bridge Specifications, adopted May 30, 1925 and revised.
 Note: This Drawing included in Job No. 1-1-1 for reference only.



STANDARD 25'-0" R.C. DECK GIRDER 20'-0" ROADWAY
ARKANSAS STATE HIGHWAY DEPARTMENT
 LITTLE ROCK, ARK.

Drawn By: *[Signature]* Date: *[Date]*
 Traced By: *[Signature]* Date: *[Date]*
 Checked By: *[Signature]* Date: *[Date]*

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

BRIDGE NO. *[Number]* DRAWING NO. 100