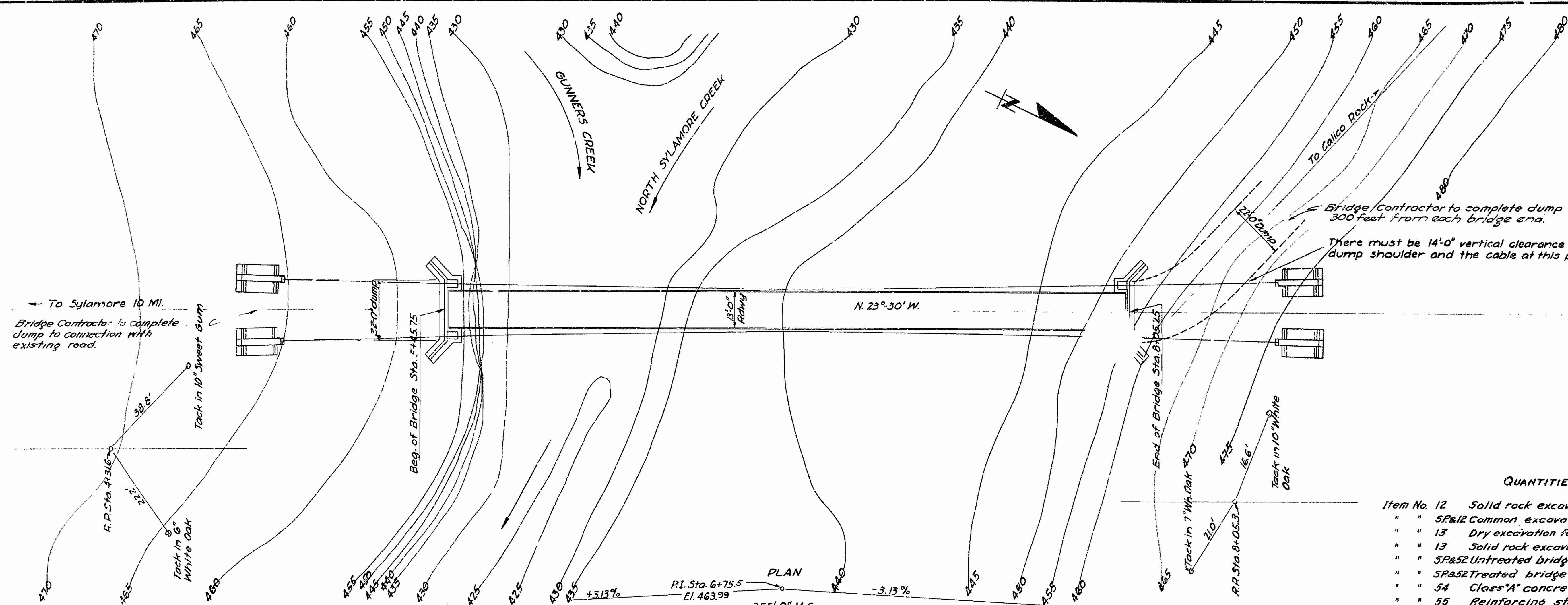


FISCAL YEAR	Job No.	SHEET No.	TOTAL SHEETS
1930	5733	2	9

Federal Road District No.	State	Project No.	Fiscal Year	Sheet No.	Total Sheets
6	Ark.	2-A	1930	2	9



**QUANTITIES:**

Item No. 12	Solid rock excavation	350	Cu Yds.
" "	5Pa12 Common excavation	100	" "
" "	13 Dry excavation for structures	25	" "
" "	13 Solid rock excavation for structures	627	" "
" "	5Pa52 Untreated bridge timber	3,675	MFBM
" "	5Pa52 Treated bridge timber	21,090	MFBM
" "	54 Class "A" concrete	132.56	Cu Yds.
" "	55 Reinforcing steel	18,375	Lbs.
" "	55 Structural steel	29,000	Lbs.
" "	74 Concrete railing for structures	16	Lin Ft.
" "	5P Galvanized steel bridge cable	780	Lin Ft.
" "	5P Steel castings	5100	Lbs.

**PLAN**

PI. Sta. 6+75.5 El. 463.99

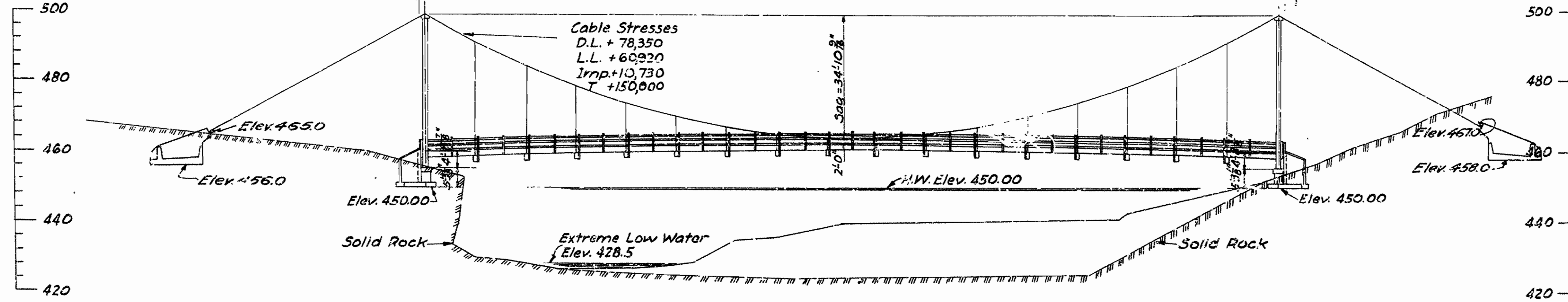
255'-0" V.C.

Total Length of Bridge = 259'-6"

255'-0" c. to c. of towers

17 panels @ 15'-0" = 255'-0"

Beg. of Br. Sta. 5+45.75	Deck Elev. 460.00
Deck Elev. 460.44	
Deck Elev. 460.83	
Deck Elev. 461.16	
Deck Elev. 461.44	
Deck Elev. 461.66	
Deck Elev. 461.83	
Deck Elev. 461.94	
Deck Elev. 461.99	
Deck Elev. 461.99	
Deck Elev. 461.94	
Deck Elev. 461.83	
Deck Elev. 461.66	
Deck Elev. 461.44	
Deck Elev. 461.16	
Deck Elev. 460.83	
Deck Elev. 460.44	
End of Br. Sta. 8+05.25	Deck Elev. 460.00



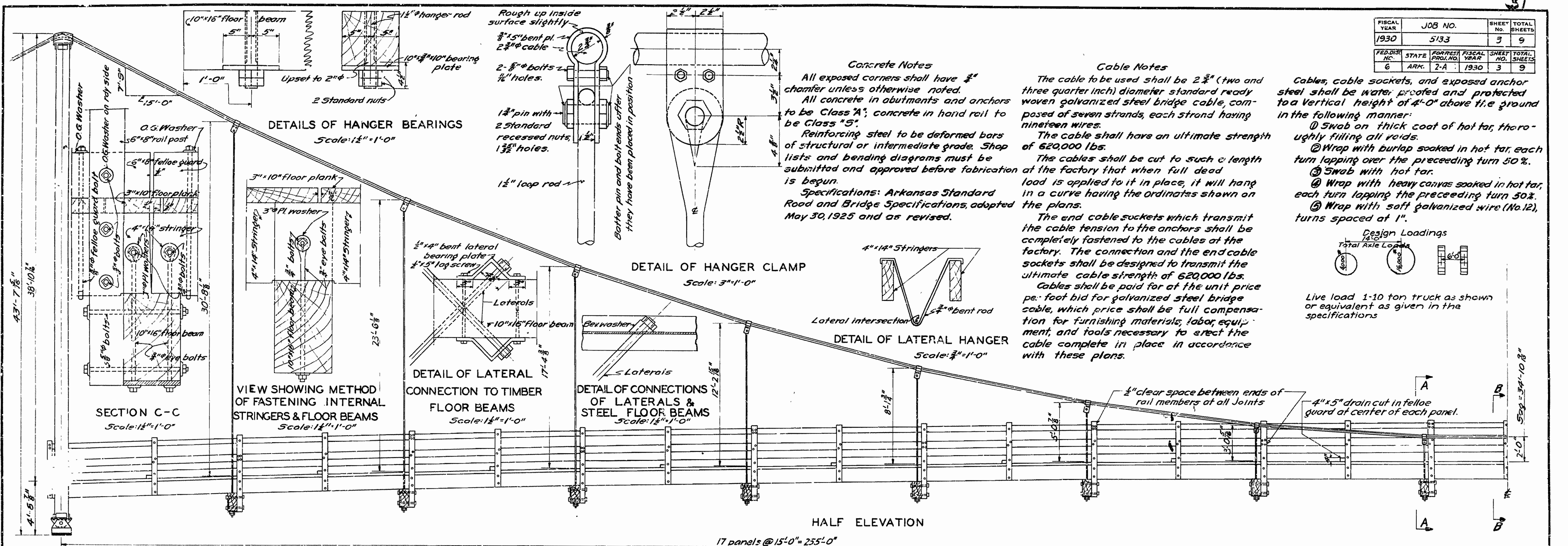
Nearest B.M. on 8" Hard Maple, 75' lt. of Sta. 7+60, Elev. 440.69 (Datum Assumed)  
 Drainage Area = 8 Square Miles  
 For Details see Drawings No. 3021, 3022, 3023 & 3024  
 For General Notes see Drawing No. 3021

ELEVATION

**LAYOUT OF BRIDGE OVER NORTH SYLAMORE CREEK**  
 STONE COUNTY  
 ROUTE 5 SEC. 6  
 ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.  
 Drawn By: *W.B. Sawyer* Date: 1-16-31  
 Traced By: *W.B. Sawyer* Date: 1-17-31  
 Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 BRIDGE NO. 1400 DRAWING NO. 3020

*W.B. Sawyer*  
 BRIDGE ENGINEER

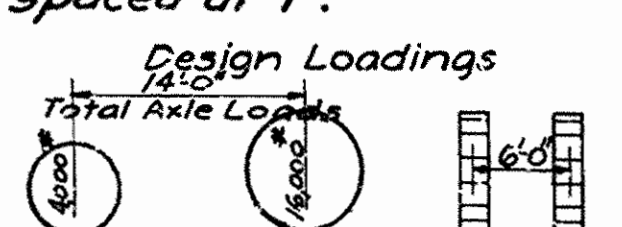
FISCAL YEAR	JOB NO.	SHEET NO.	TOTAL SHEETS
1930	5133	3	9
FED. DIST. NO.	STATE	FORREST NO.	FISCAL YEAR
6	ARK.	2-A	1930
SHEET NO.	TOTAL SHEETS		
3	9		



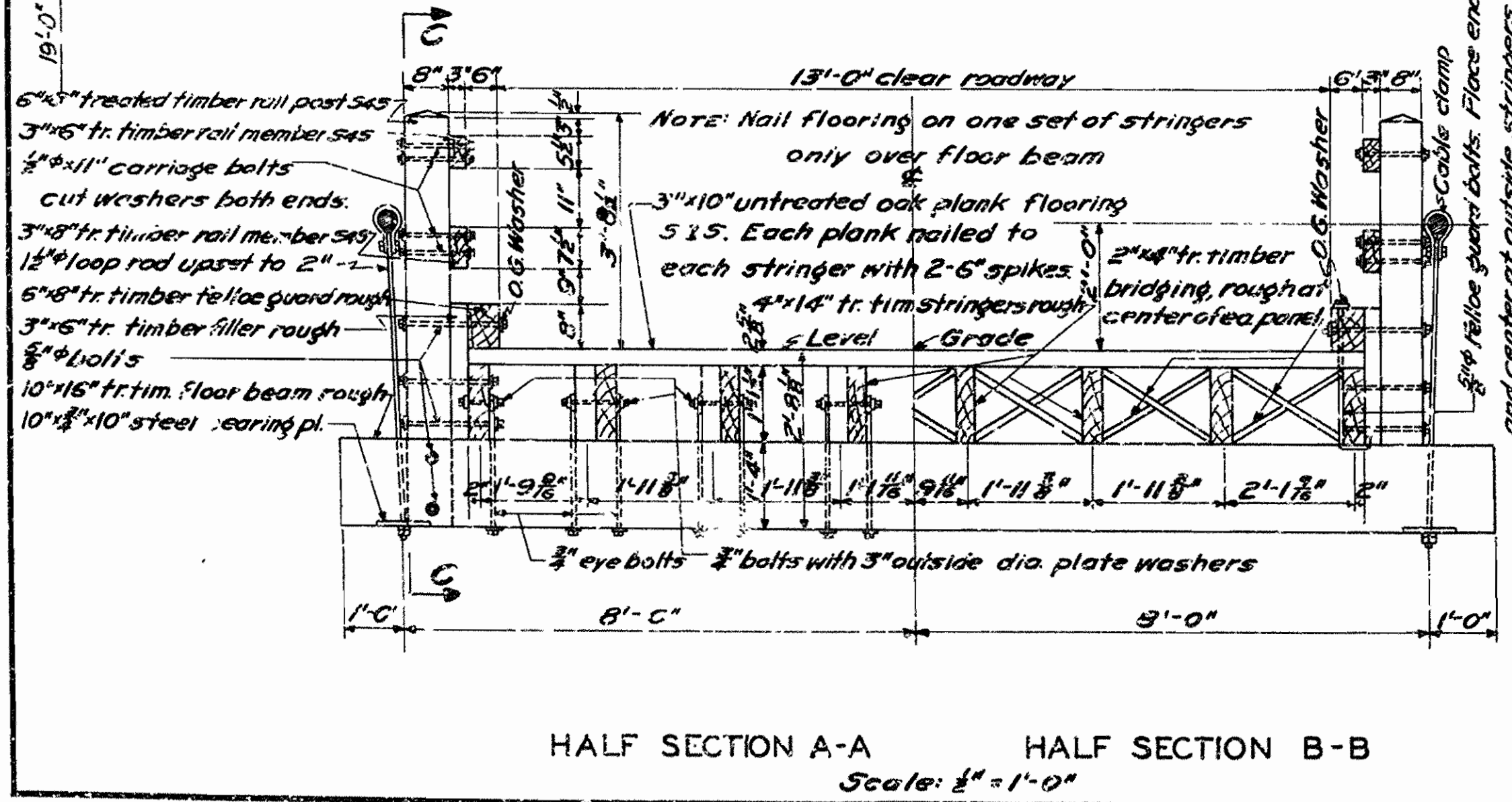
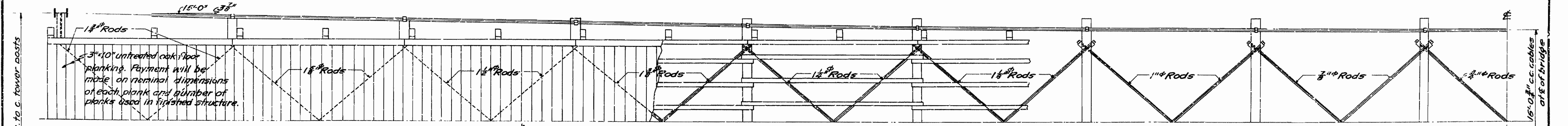
**Concrete Notes**  
All exposed corners shall have 3/8" chamfer unless otherwise noted.  
All concrete in abutments and anchors to be Class 'A'; concrete in hand rail to be Class 'S'.  
Reinforcing steel to be deformed bars of structural or intermediate grade. Shop lists and bending diagrams must be submitted and approved before fabrication is begun.  
Specifications: Arkansas Standard Road and Bridge Specifications, adopted May 30, 1925 and as revised.

**Cable Notes**  
The cable to be used shall be 2 3/8" (two and three quarter inch) diameter standard ready woven galvanized steel bridge cable, composed of seven strands, each strand having nineteen wires.  
The cable shall have an ultimate strength of 620,000 lbs.  
The cables shall be cut to such a length at the factory that when full dead load is applied to it in place, it will hang in a curve having the ordinates shown on the plans.  
The end cable sockets which transmit the cable tension to the anchors shall be completely fastened to the cables at the factory. The connection and the end cable sockets shall be designed to transmit the ultimate cable strength of 620,000 lbs.  
Cables shall be paid for at the unit price per foot bid for galvanized steel bridge cable, which price shall be full compensation for furnishing materials, labor, equipment, and tools necessary to erect the cable complete in place in accordance with these plans.

Cables, cable sockets, and exposed anchor steel shall be water proofed and protected to a vertical height of 4'-0" above the ground in the following manner:  
1. Swab on thick coat of hot tar, thoroughly filling all voids.  
2. Wrap with burlap soaked in hot tar, each turn lapping over the preceding turn 50%.  
3. Swab with hot tar.  
4. Wrap with heavy canvas soaked in hot tar, each turn lapping the preceding turn 50%.  
5. Wrap with soft galvanized wire (No. 12), turns spaced at 1".



Live load 1-10 ton truck as shown or equivalent as given in the specifications



**Treated Timber Notes**  
All timber to be Southern Yellow Pine or Pacific Coast Douglas Fir, except floor plank.  
All timber to be framed and bored before treatment.  
The preservative used for the treatment of timber shall be of grade 1 of creosote oil for structural timber.  
All timbers shall be given a ten (10) pound treatment of creosote oil by the empty cell process, except floor plank.  
Stringers to be dapped at ends and are to be bolted together with one bolt as shown.  
Malleable or cast iron washers are to be used under all heads and nuts of machined bolts unless otherwise noted.  
Specifications: Arkansas Standard Road and Bridge Specifications, adopted May 30th, 1925 and as revised.  
All hardware used in connecting timber to timber will not be paid for as such, but will be included in the price bid for treated or untreated bridge timber.

**Structural Steel Notes**  
Turned bolts 3/4", open holes 1/2".  
All holes in tower connections to be sub-punched 3/8" and reamed to 1/2" while towers are assembled. This applies to shop as well as field holes.  
All field connections shall be turned bolts.  
Shop paint: After being completely assembled and all shop work finished, all pieces shall be given one coat of red lead and raw linseed oil before shipment.  
Field paint: Apply two coats of different colors as specified by the engineer. All field rivet heads and marred places of shop paint are to be spot painted with red lead and raw linseed oil before first field coat is applied.  
All floor beams to be milled to exact length after framing angles have been riveted.

Floor beam connections to be sub-punched 3/8" and reamed to 1/2" through a metal template.  
Structural shapes of equal or greater strength may be substituted for shapes shown here, but payment will be made in accordance with sizes given on this plan.  
These plans show 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 30th, 1925 and as revised.

For information regarding steel castings other than that given here, see special provisions for steel castings and Arkansas Standard Road and Bridge Specifications, adopted May 30, 1925 and as revised.  
Shop drawing of castings shall be made in compliance with specifications, submitted and approved before casting is begun.

**DETAILS OF 255'-0" SUSPENSION SPAN**  
FOR BRIDGE OVER NORTH SYCAMORE CREEK  
STONE COUNTY  
ROUTE 5 SEC. 8  
**ARKANSAS STATE HIGHWAY COMMISSION**  
LITTLE ROCK, ARK.

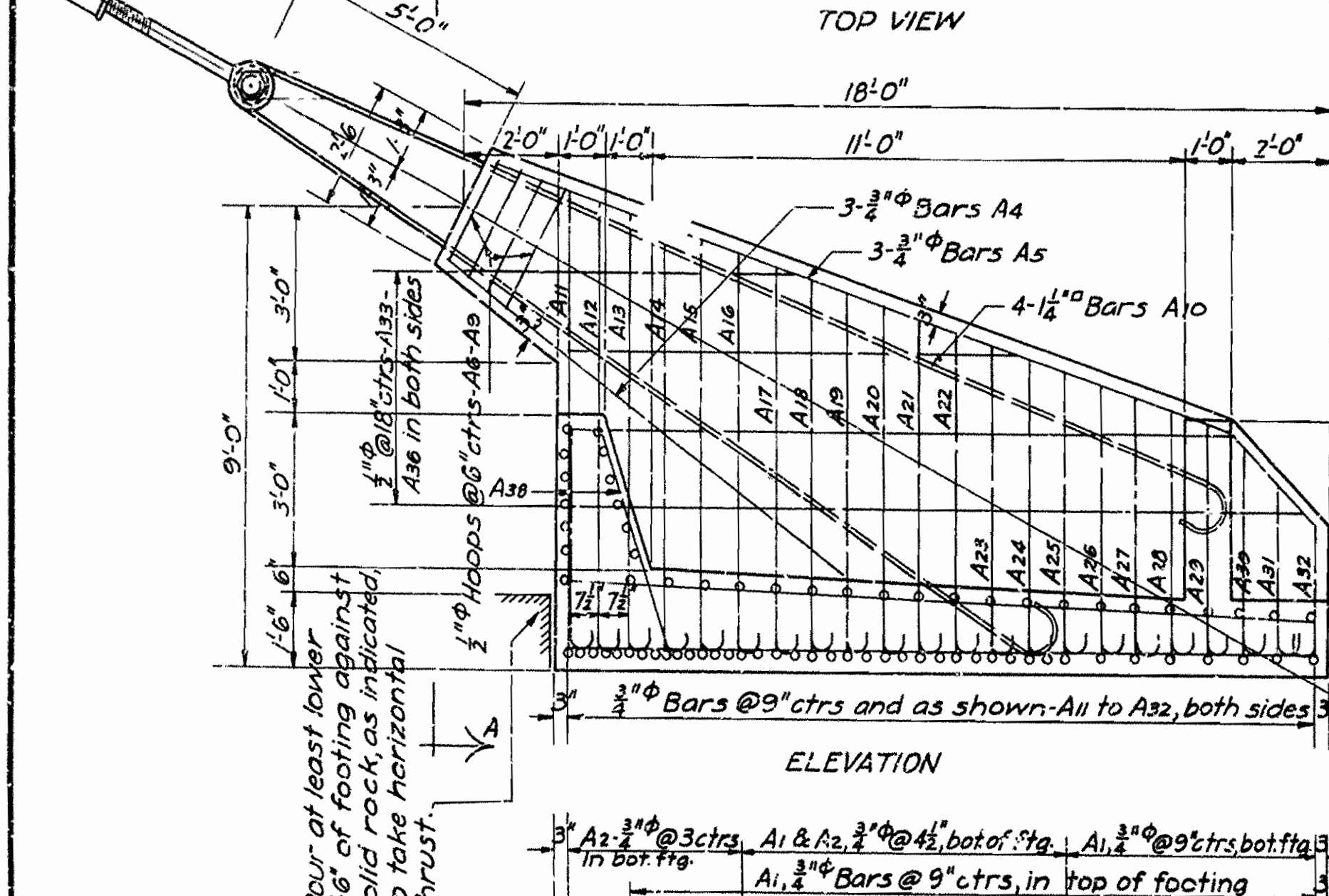
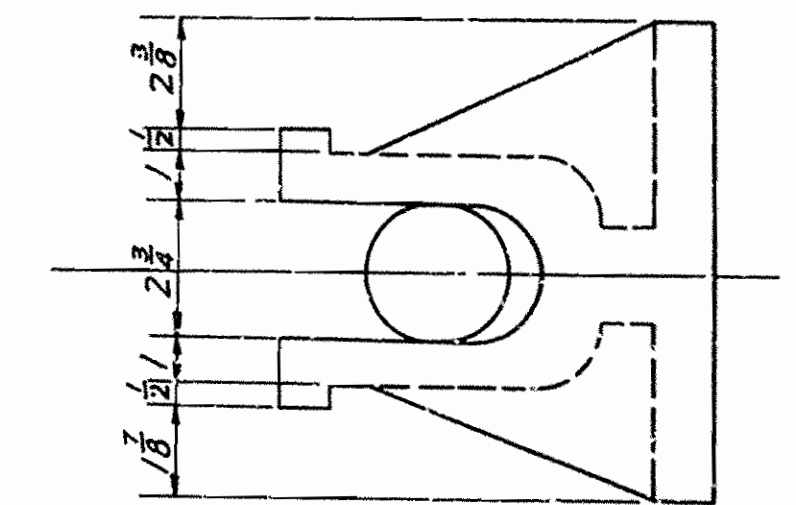
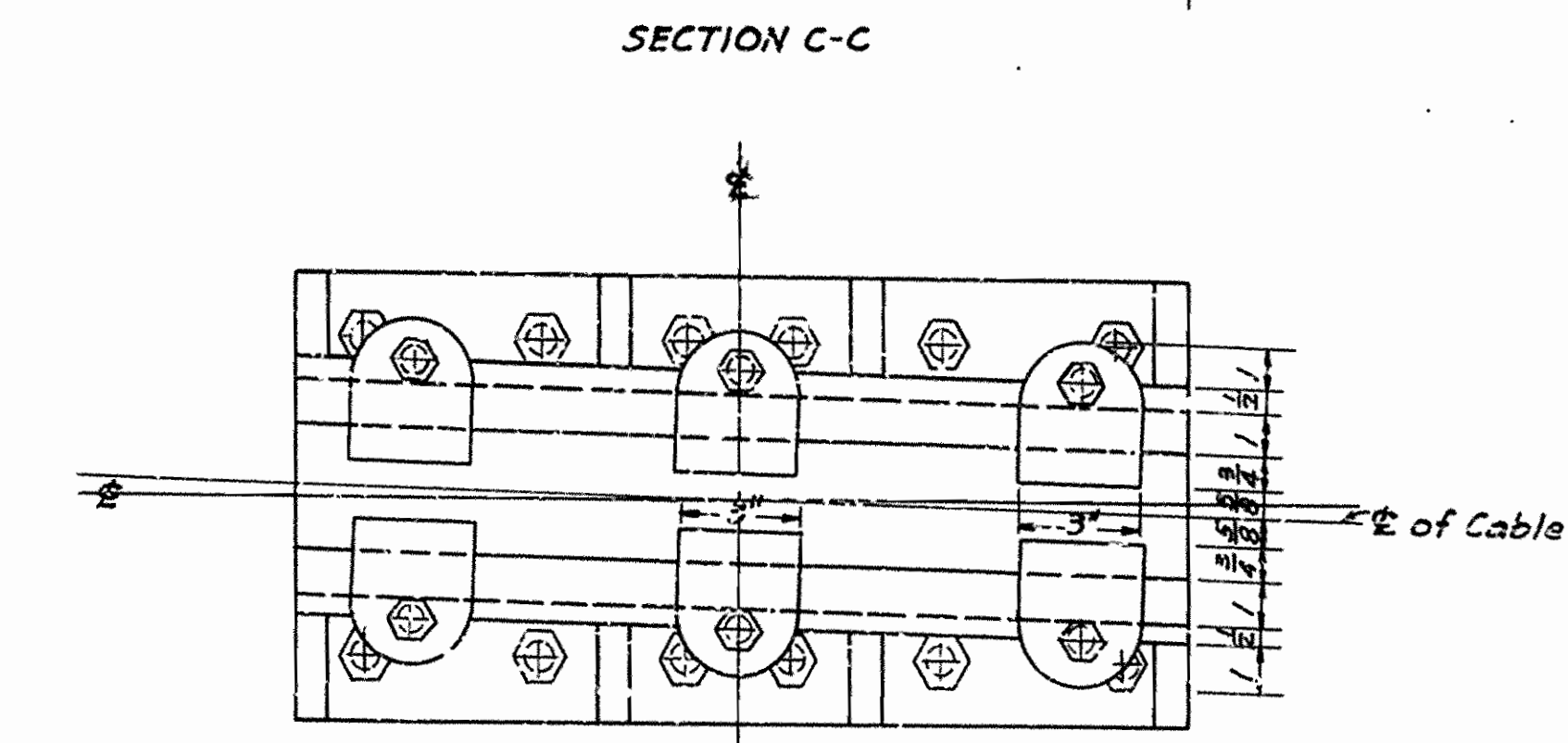
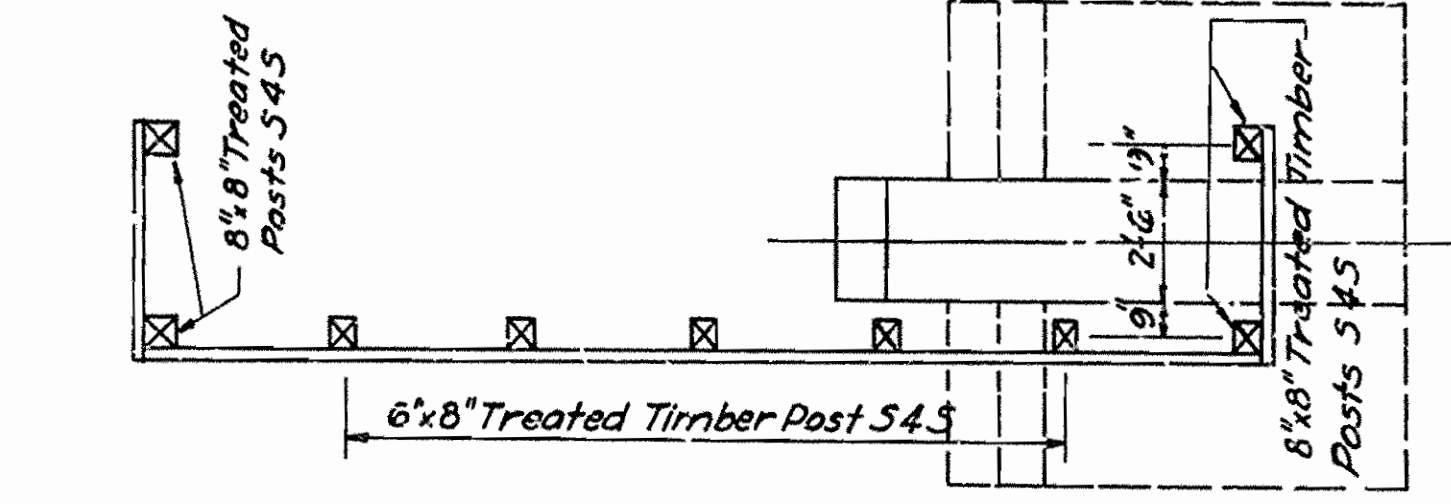
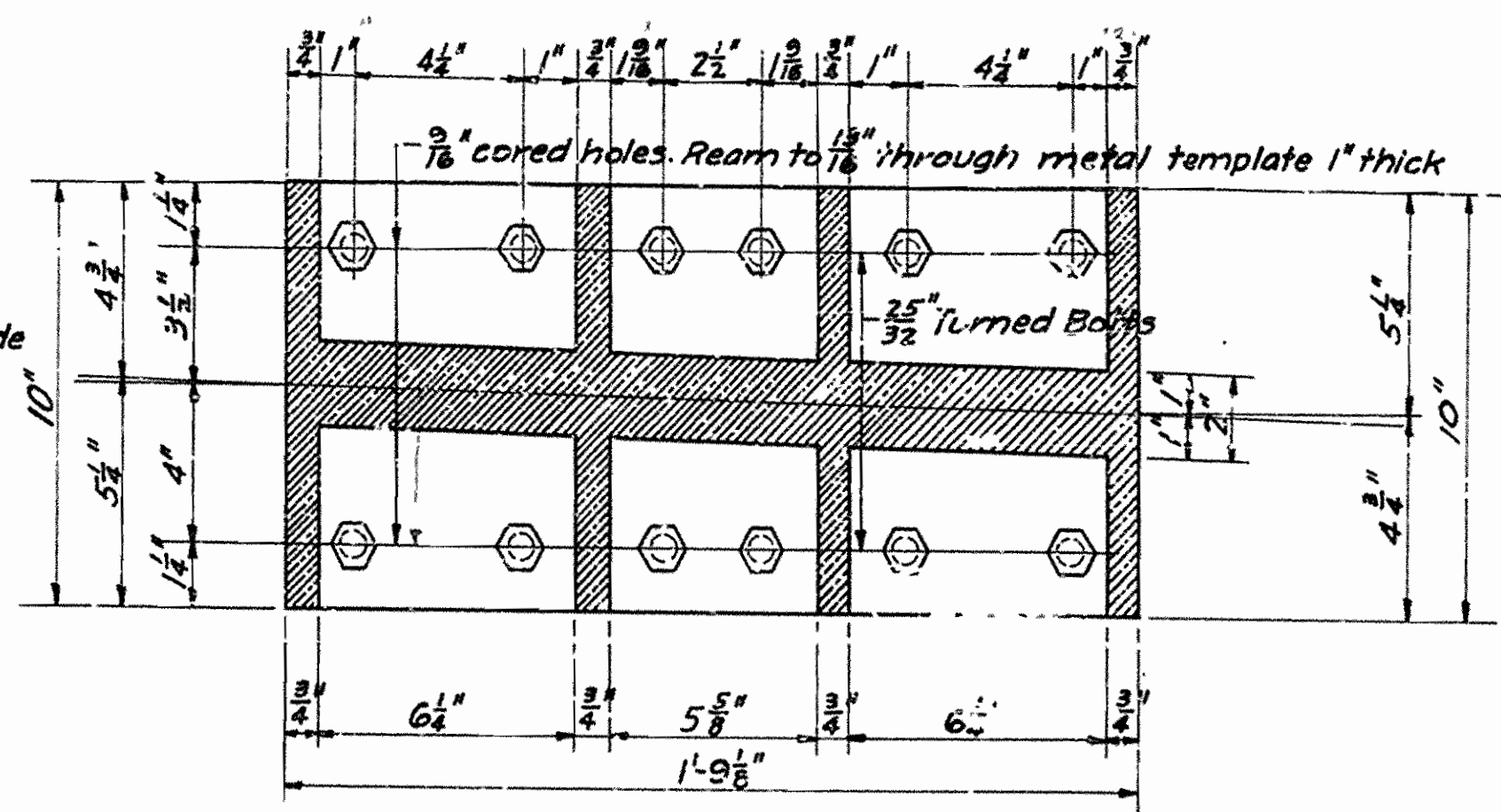
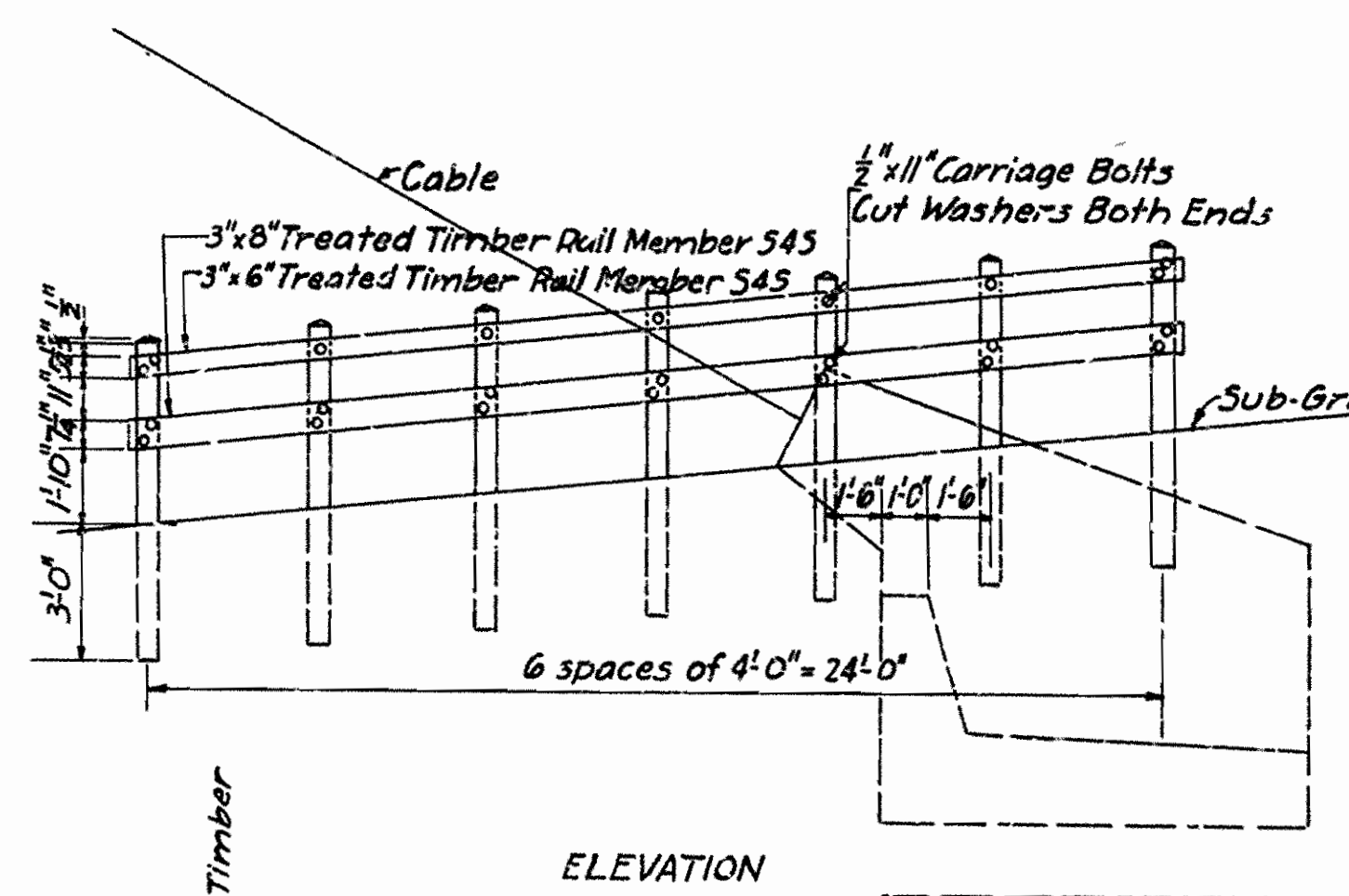
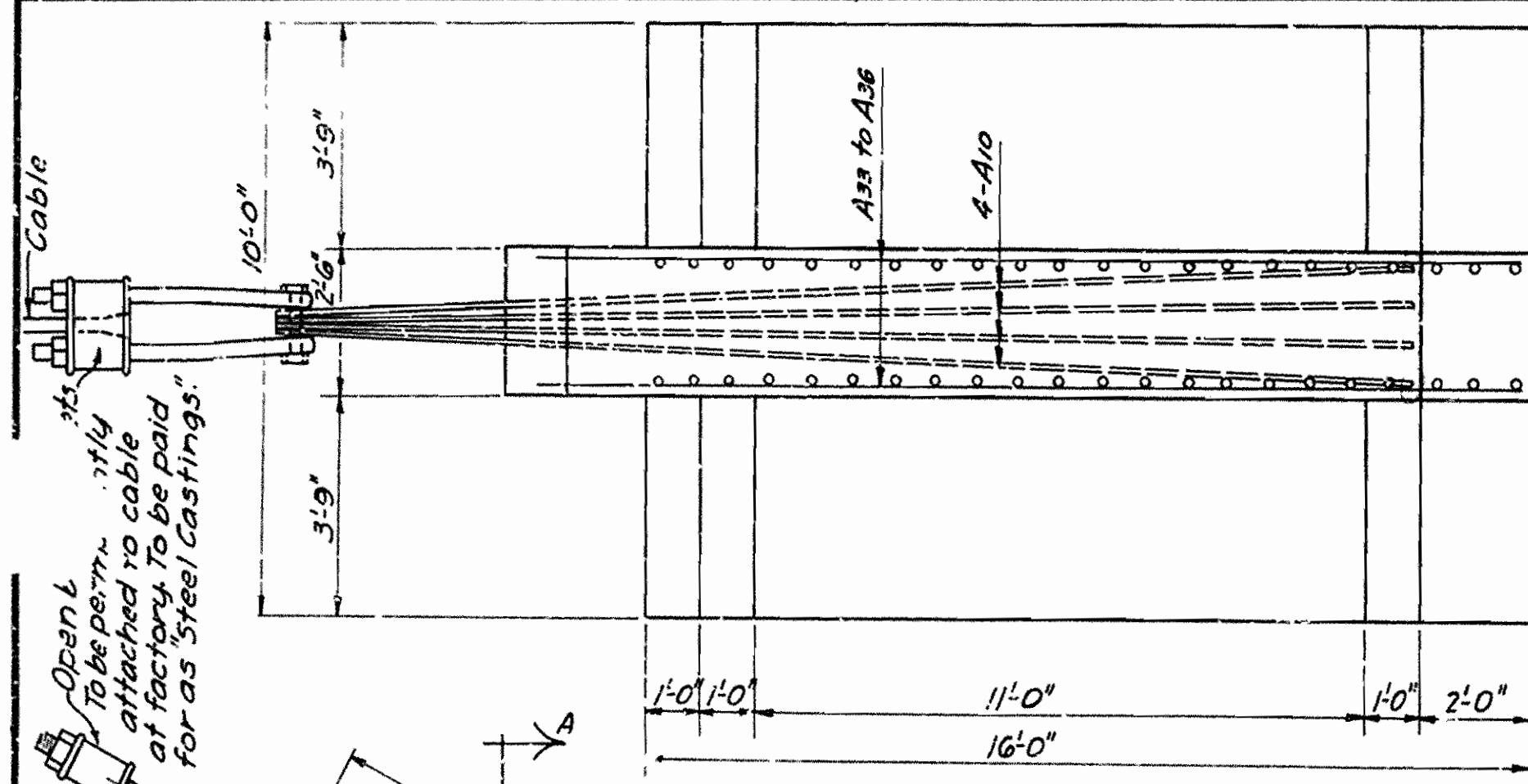
Drawn By: N.B. Lanier Date: 1/16/31  
Traced By: E.A. Kinn Date: 1/20/31  
Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
Scale: 1/4" = 1'-0" (as noted)  
BRIDGE ENGINEER  
BRIDGE NO. 1400 DRAWING NO. 3021

Bar	Size	Length	Bending Diagram	Bar	Size	Length	Bending Diagram
A10	1/4"	45'-5"		A2	3/4"	11'-1"	
A6-A9	1/2"	Varies		A38	3/4"	5'-3"	
A37	3/4"	15'-10"		A5	3/4"	18'-6"	

FISCAL YEAR	JOB NO.	SHEET NO.	TOTAL SHEETS
1930	5135	4	9

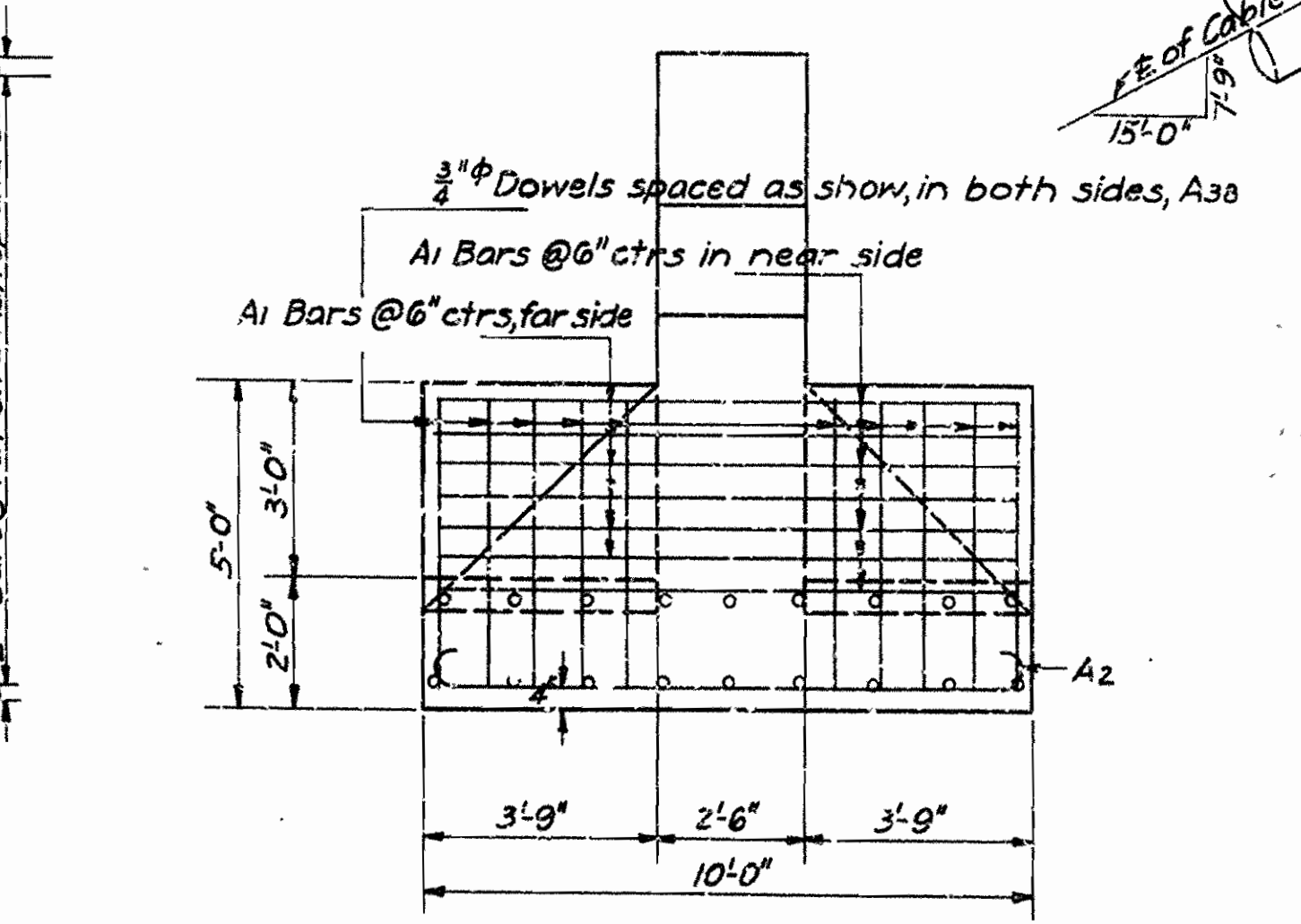
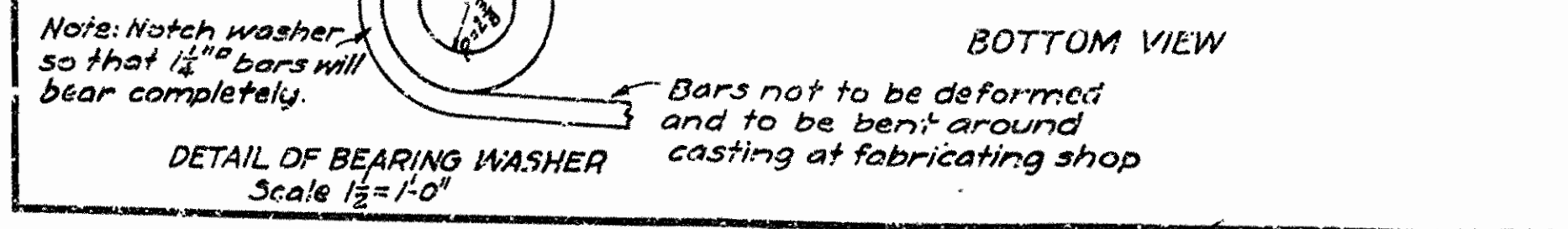
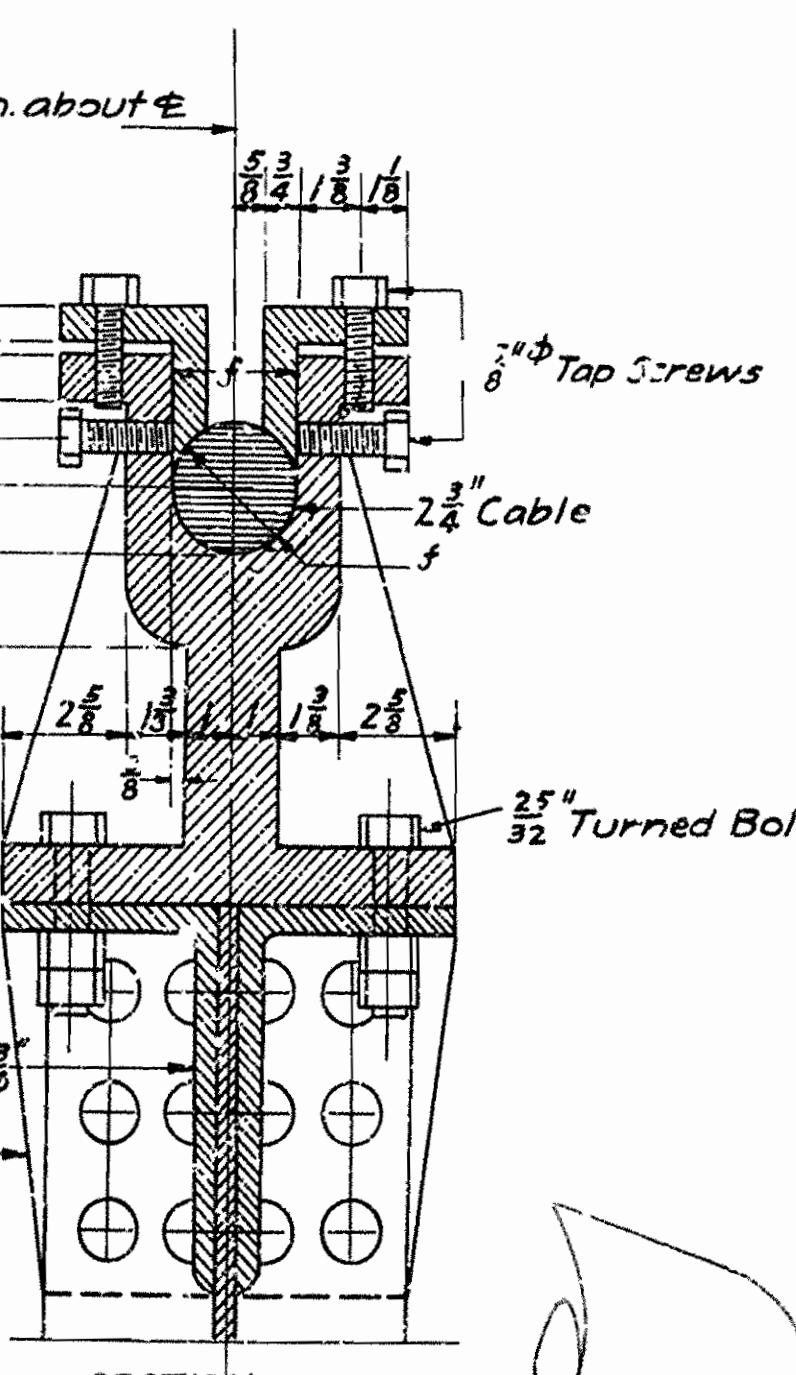
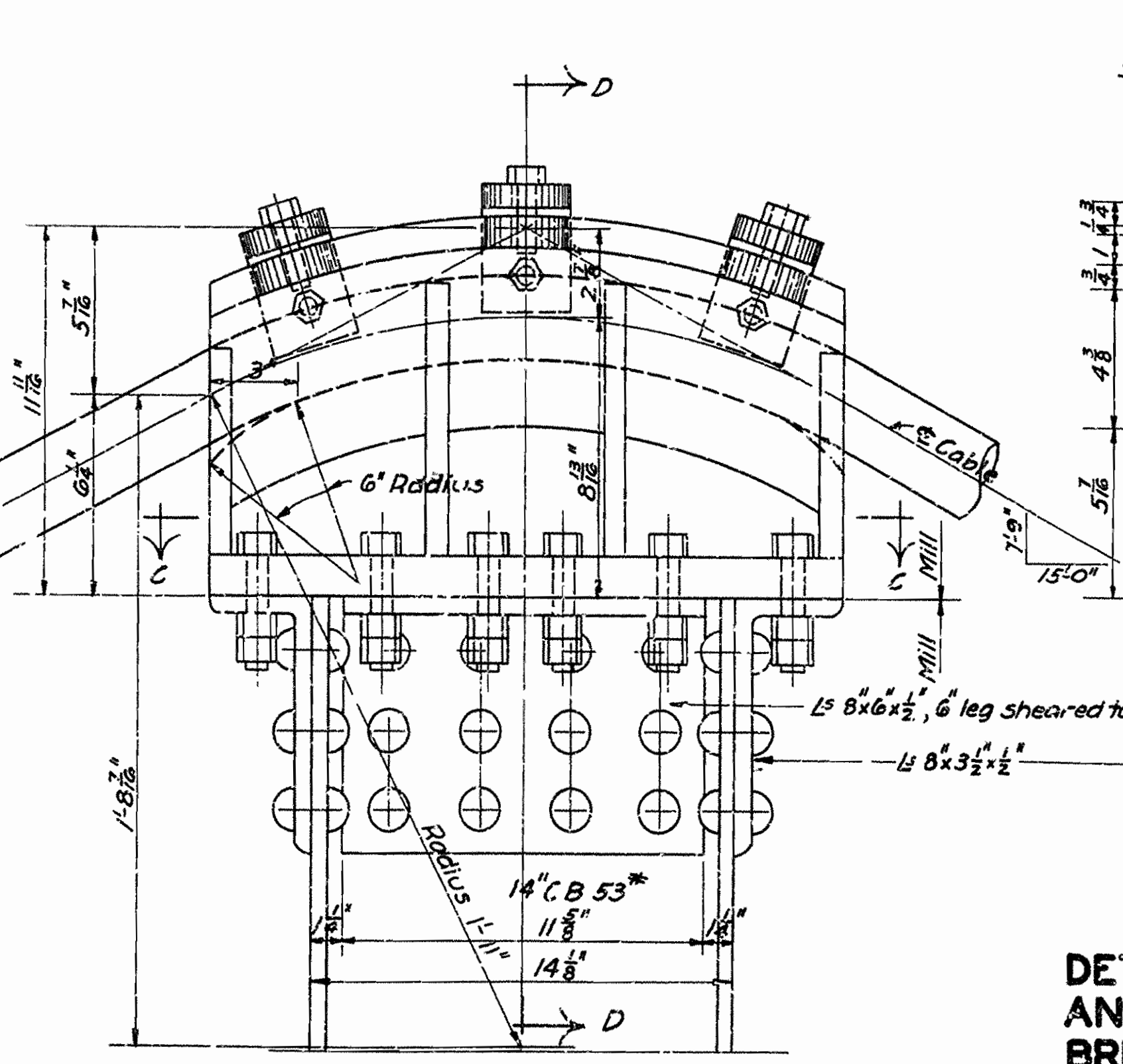
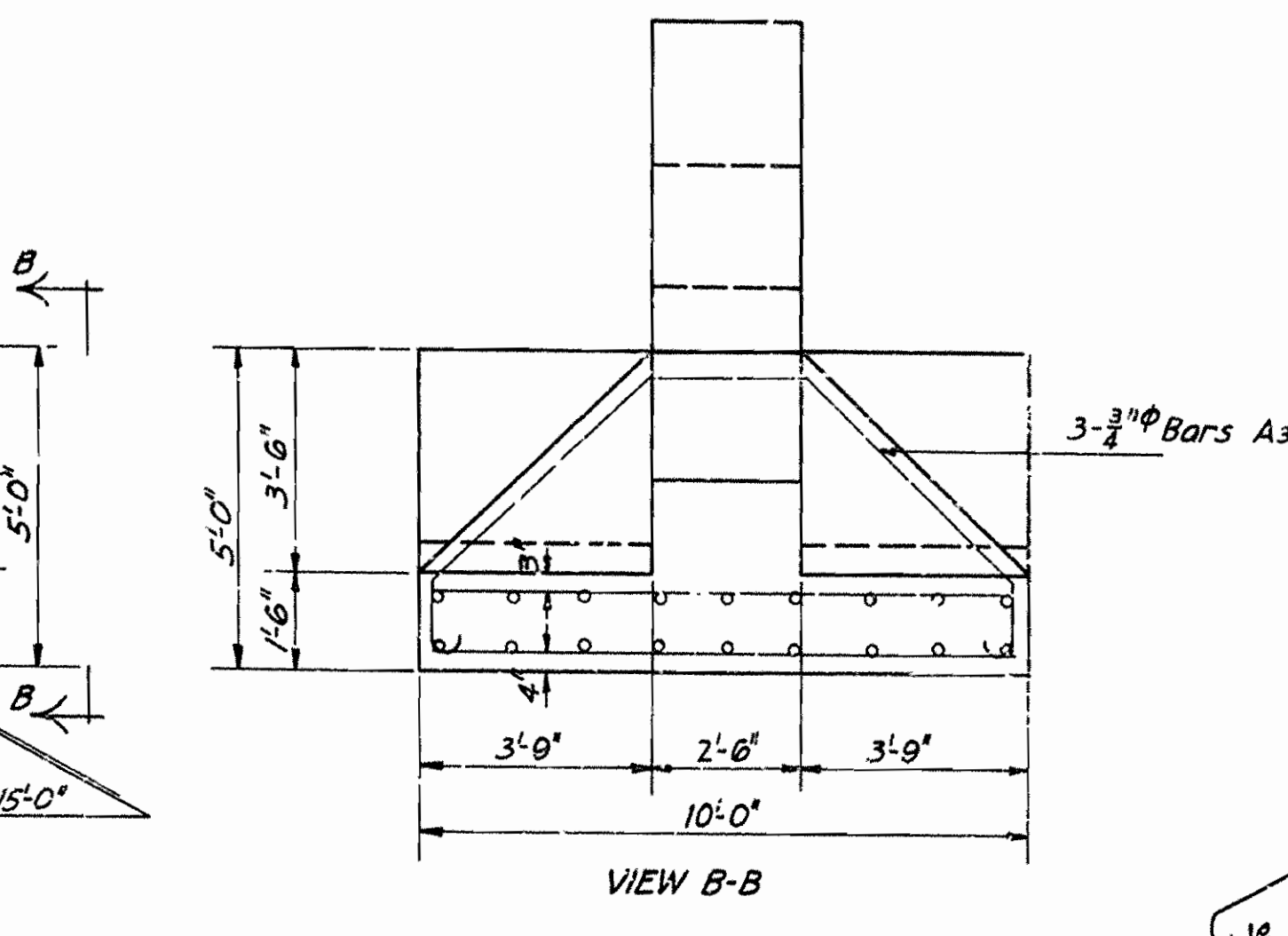
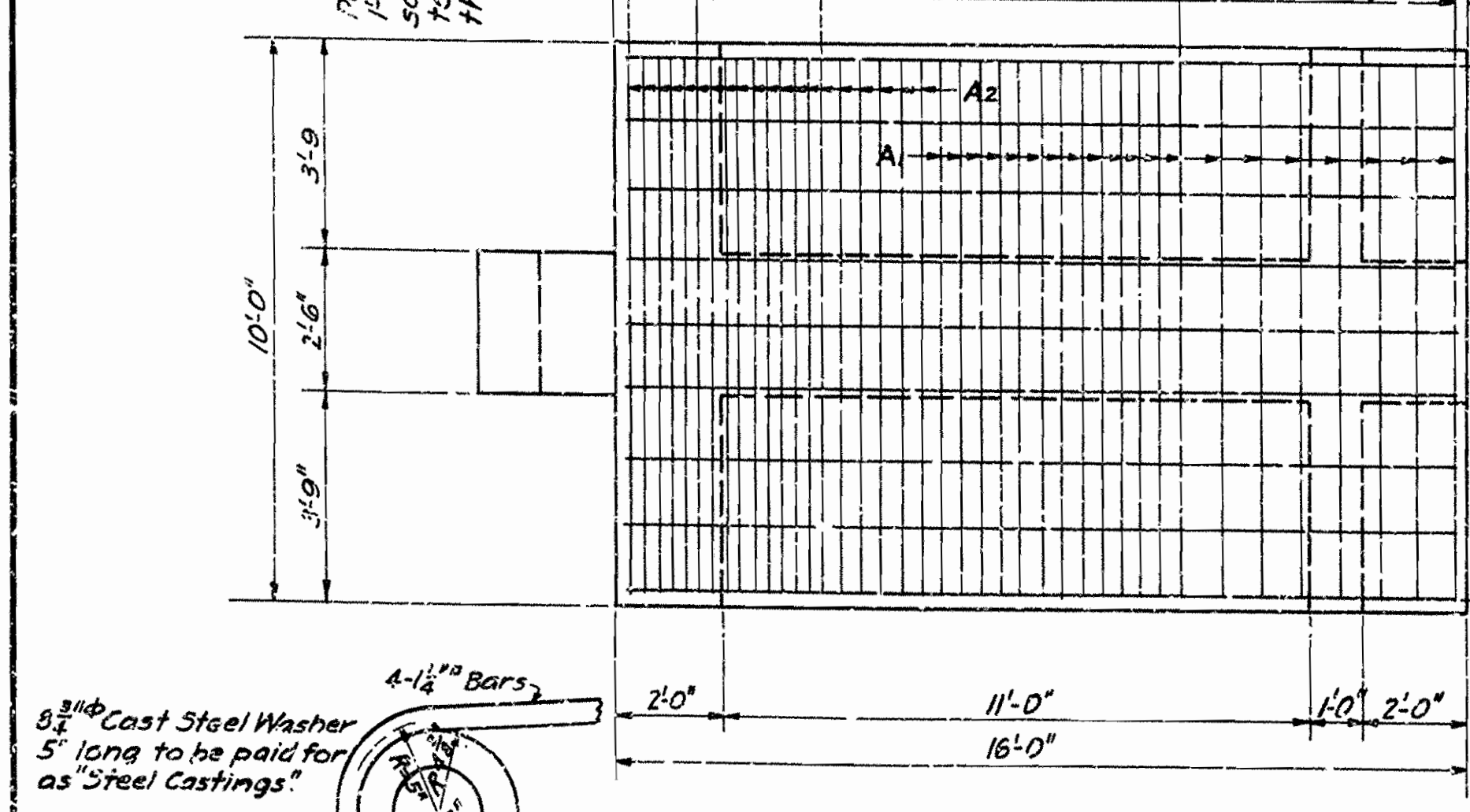
FED. ROAD DIST. NO.	State	Forest Proj. No.	Fiscal Year	Sheet No.	Total Sheets
6	Ark.	2-A	1930	4	9



DETAILS OF ANCHOR GUARD FENCE AT SOUTH END OF BRIDGE  
Scale 1/4" = 1'-0"

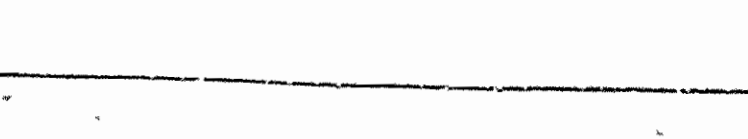
TOP VIEW

END VIEW



ELEVATION  
DETAILS OF CAST STEEL SADDLES  
Scale 3/4" = 1'-0"

SECTION D-D  
DETAILS OF CONCRETE ANCHORS AND CAST STEEL SADDLES FOR BRIDGE OVER N. SYLAMORE CREEK  
STONE COUNTY



DETAIL OF BEARING WASHER  
Scale 1/2" = 1'-0"

ANCHOR DETAILS  
Scale 3/8" = 1'-0"

ROUTE 5 SEC. 6  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
Drawn By: Noe Date: 12-8-30  
Traced By: Noe Date: 12-17-30  
Checked By: Noe Date: 12-17-30  
BRIDGE NO. 1400 DRAWING NO. 3022

*W. B. G...*  
BRIDGE ENGINEER