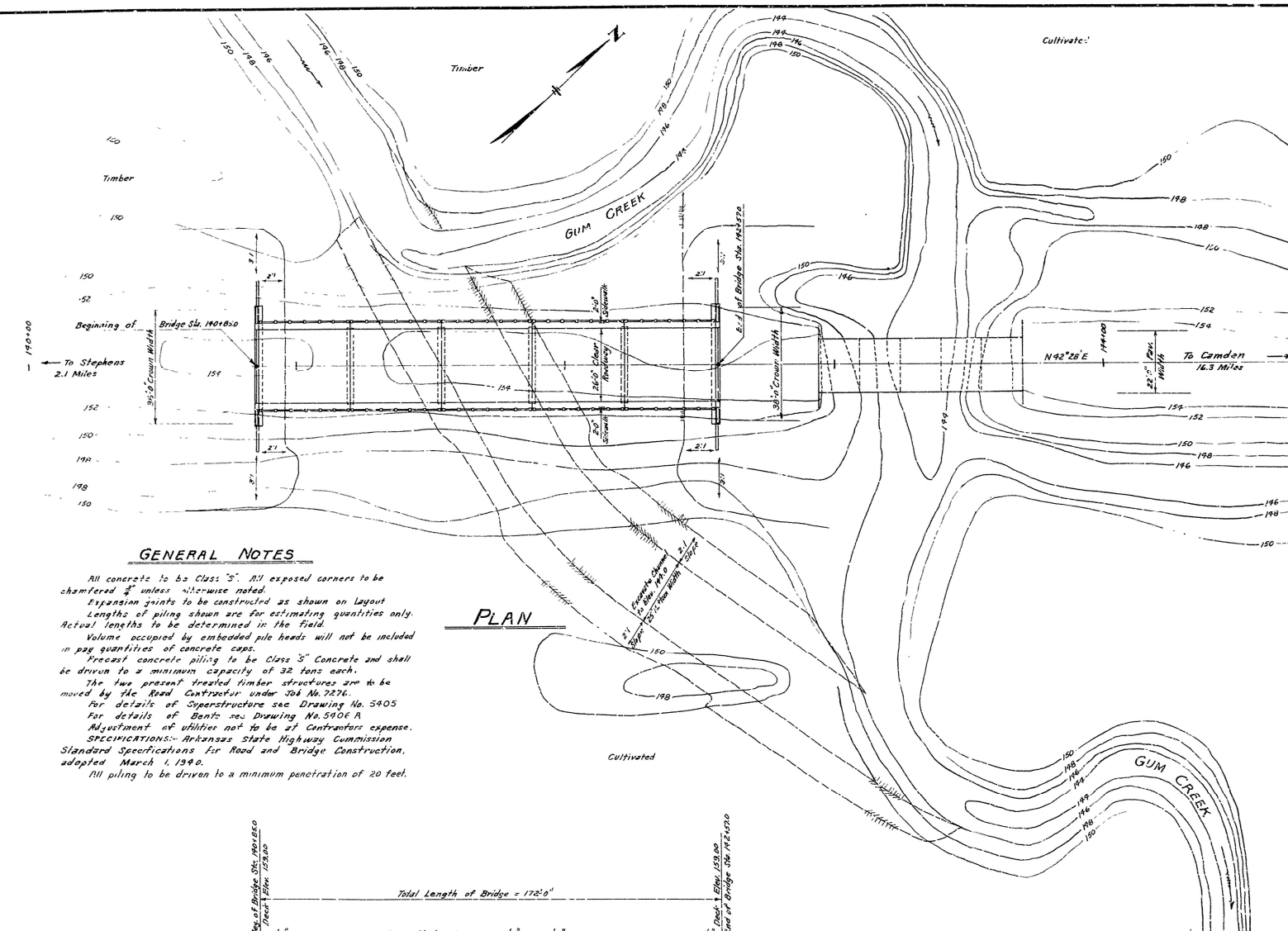


FED. ROAD DIST. NO.	STATE	F.A.P. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARR.	F-223 (1)	1941	3	12
STATE JOB NO. 7326					



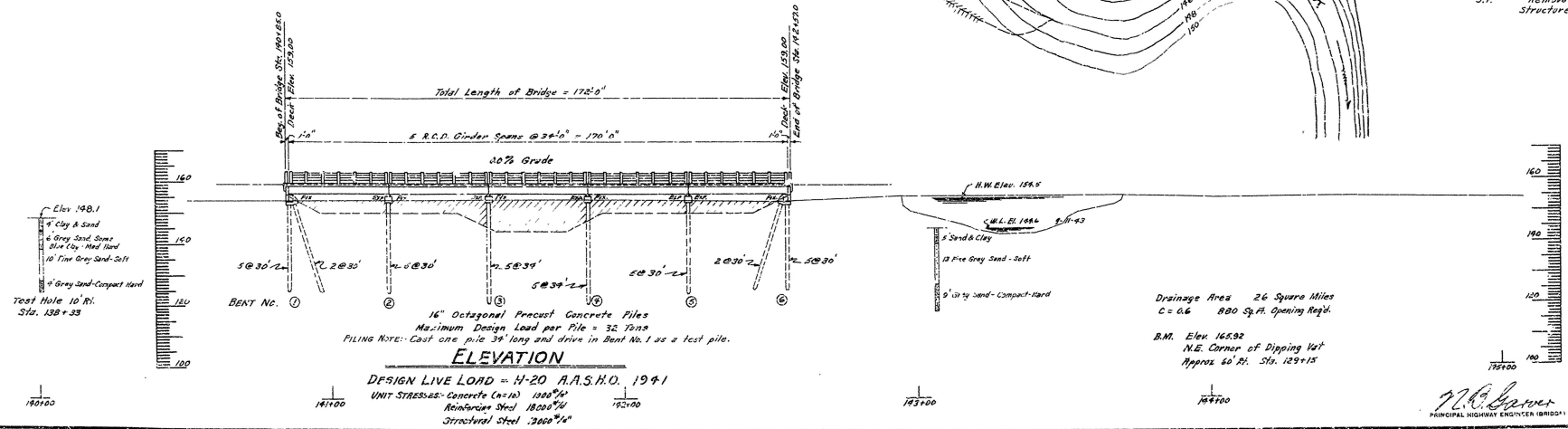
### GENERAL NOTES

All concrete to be Class "S". All exposed corners to be chamfered  $\frac{1}{4}$ " unless otherwise noted.  
Expansion joints to be constructed as shown on Layout.  
Lengths of piling shown are for estimating quantities only. Actual lengths to be determined in the field.  
Volume occupied by embedded pile heads will not be included in pay quantities of concrete caps.  
Precast concrete piling to be Class "S" Concrete and shall be driven to a minimum capacity of 32 tons each.  
The two present treated timber structures are to be removed by the Road Contractor under Job No. 7276.  
For details of Superstructure see Drawing No. 5405.  
For details of Bents see Drawing No. 5406 A.  
Adjustment of utilities not to be at Contractor's expense.  
SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction, adopted March 1, 1940.  
All piling to be driven to a minimum penetration of 20 feet.

### PLAN

### QUANTITIES

ITEM NO.	ITEM	QUANTITY	UNIT
103	Dry Excavation for Structures	30	Cu.Yd.
S.P.#002	Class "S" Concrete for Bridges	272.9	Cu.Yd.
S.P.#003	Reinforcing Steel	651.90	Lb.
S.P.#004	16" Octagonal Concrete Piling	1069	Lin.Ft.
805	Concrete Nailing	358	Lin.Ft.
S.P.#007	Metal Bearing and Roadway Expansion Devices	11980	Lb.
929	Bridge Name Plates (Type "B")		Each
S.P.	Removal of Existing Bridge Structures and Maintaining Traffic (Maintaining Traffic only)	30%	Complete Item



### ELEVATION

DESIGN LIVE LOAD = H-20 A.A.S.H.O. 1941  
UNIT STRESS: Concrete (C-10) 1000 PSI  
Reinforcing Steel 18000 PSI  
Structural Steel 30000 PSI

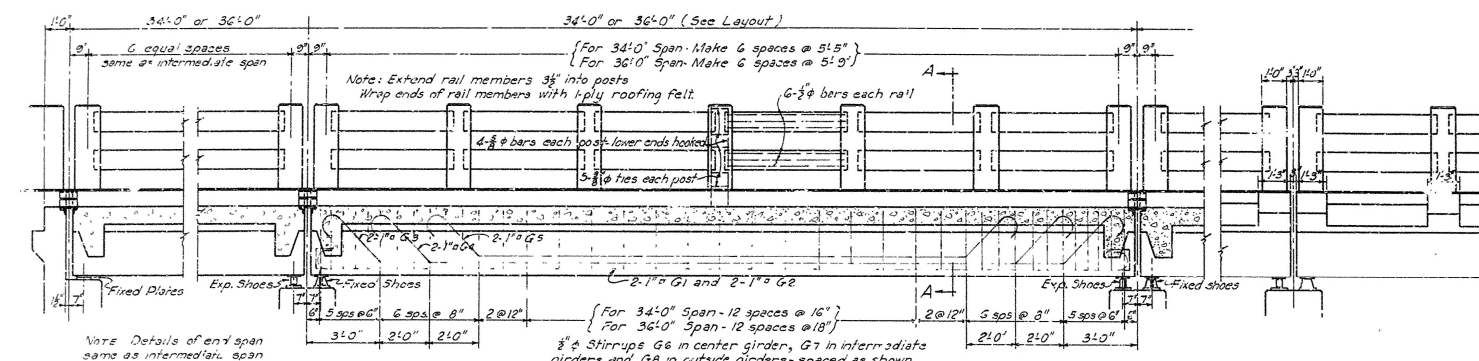
### LAYOUT OF BRIDGE OVER GUM CREEK STEPHENS-CAMDEN ROAD OUACHITA COUNTY

ROUTE 79 SEC. 3  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
Drawn By: W.C.H. Date: 9-30-43  
Traced By: W.C.H. Date: 11-23-43  
Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
BRIDGE NO. 2354 DRAWING NO. 6530

Principal Highway Engineer (Bridges)

ROAD NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.				
STATE JOB NO. 7299					

Reinforcing Steel Note: All reinforcing steel shall be accurately located in the forms and firmly held in place during construction by means of steel wire supports. Wire supports will not be paid for directly but will be considered subsidiary to the item of Reinforcing Steel.



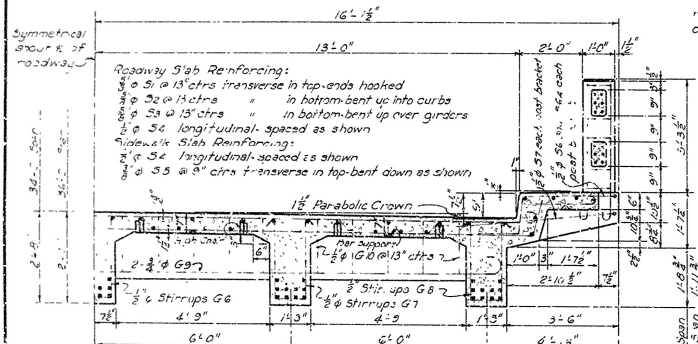
RAIL SECTION  
Scale: 1/2" = 1'-0"

END SPAN

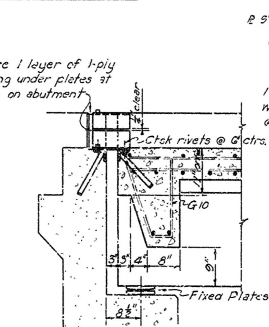
INTERMEDIATE SPAN

LONGITUDINAL SECTION

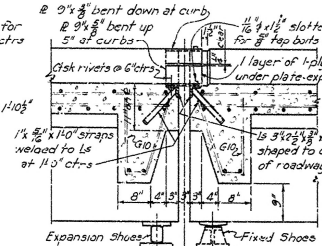
PART SIDE ELEVATION



HALF CROSS SECTION A-A  
Scale: 3/4" = 1'-0"



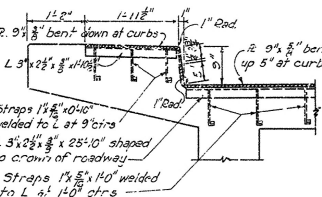
SECTION THRU SIDEWALK  
AT EXPANSION JOINTS  
Scale: 3/4" = 1'-0"



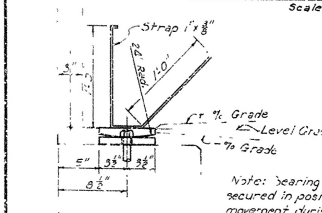
EXPANSION DETAILS AT PIERS  
Scale: 3/4" = 1'-0"

EXP DETAILS AT ABUTS  
Scale: 3/4" = 1'-0"

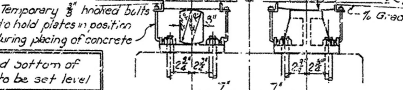
DETAILS OF GIRDER STEEL  
AT MIDSPAN  
Scale: 1/4" = 1'-0"



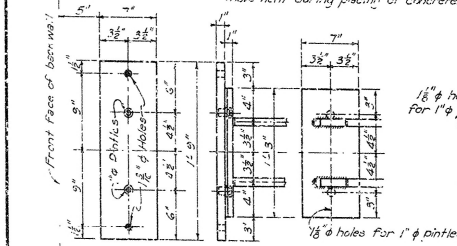
SECTION THRU  
RDY & SIDEWALK EXP DEVICES  
Scale: 3/4" = 1'-0"



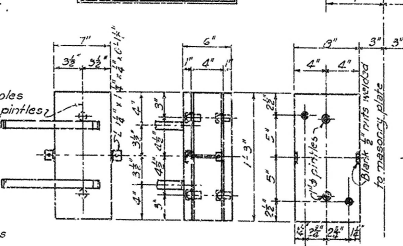
DETAIL OF PINTLE  
Scale: 3/4" = 1'-0"



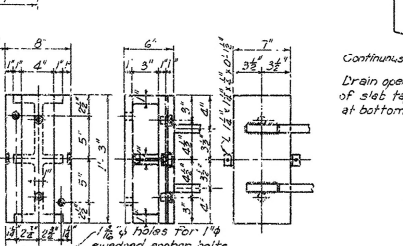
DETAIL OF ANCHOR BOLT  
Scale: 3/4" = 1'-0"



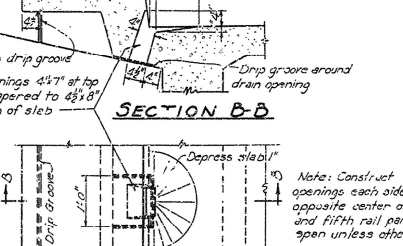
TOP VIEW  
OF MASONRY PLATE  
DETAILS OF BEARING PLATES  
AT ABUTMENTS - FIXED ONLY  
Scale: 1/2" = 1'-0"



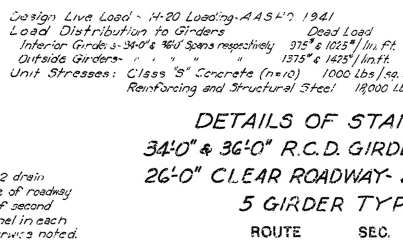
SIDE VIEW  
OF TOP PLATE



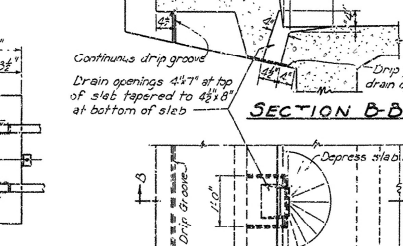
TOP VIEW  
OF MASONRY PLATE



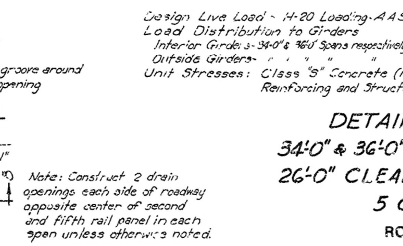
SIDE VIEW  
OF TOP PLATE



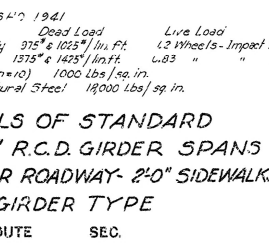
TOP VIEW  
OF BASE



SIDE VIEW  
OF TOP PLATE



TOP VIEW  
OF TOP PLATE



DETAILS OF EXPANSION SHOES  
DETAILS OF FIXED SHOES  
DETAILS OF SHOES AT INTERMEDIATE BENTS  
Scale: 1/2" = 1'-0"

DETAIL OF DRAIN OPENING  
Scale: 3/4" = 1'-0"

Revisions: added note on bar support - N.B. 6-1-44

BAR LIST PER SPAN									
Mark	Size	Length	No. Required	A	B	C	D	Bending Diagram	
			34'-0" Span	36'-0" Span					
G1	1 1/2"	36'-6"	10	33'-5"					
G1	1 1/2"	38'-6"	10	35'-3"					
G2	1 1/2"	35'-3"	10	33'-3"	8"				
G2	1 1/2"	37'-3"	10	35'-3"	6"				
G3	1 1/2"	35'-8"	10	38'-0"	2'-0"	2'-4"	1'-0"		
G3	1 1/2"	38'-4"	10	38'-0"	3'-2"	2'-7"	2'-1"		
G4	1 1/2"	31'-8"	10	24'-0"	2'-0"	2'-4"	1'-0"		
G4	1 1/2"	34'-4"	10	26'-0"	3'-2"	2'-7"	2'-1"		
G5	1 1/2"	23'-11"	10	20'-0"	2'-0"	2'-4"	1'-0"		
G5	1 1/2"	29'-8"	10	22'-0"	2'-0"	2'-4"	1'-0"		
G6	3/4"	6'-4"	39	2'-4"					
G6	3/4"	6'-10"	39	2'-7"					
G7	3/4"	6'-3"	78	2'-3"					
G7	3/4"	6'-9"	78	2'-6"					
G8	3/4"	6'-1"	78	2'-2"					
G8	3/4"	6'-7"	78	2'-5"					
G9	3/4"	3'-6"	4	2'-0"	6"				
G9	3/4"	2'-3"	4	2'-0"	6"				
G10	3/4"	3'-4"	40	1'-5"	1'-6"				
G10	3/4"	3'-10"	40	1'-8"	1'-9"				
S1	3/4"	27'-9"	32	33'					
S2	3/4"	28'-10"	32	33'					
S3	3/4"	28'-9"	31	33'					
S4	3/4"	17'-6"	100						
S4	3/4"	18'-6"	100						
S5	3/4"	6'-6"	90						
S6	3/4"	11'-4"	14	14'					
S6A	3/4"	11'-0"	14	14'					
S7	3/4"	10'-11"	14	14'					

GENERAL NOTES

All concrete to be Class "S". All exposed corners to be chamfered 3/8" unless otherwise noted. Reinforcing steel to be deformed bars of structural or intermediate grade. All dimensions relative to reinforcing steel are to centers of bars. Shop lists and bending diagrams must be submitted by the Contractor and approved before fabrication is begun. Roadway expansion and bearing devices will be paid for at the unit price bid for Metal Bearing and Roadway Expansion Devices. Shop drawings of shoes and expansion devices shall be made in compliance with specifications and shall be submitted and approved before fabrication is begun. All weld connections to be 3/4" fillet welds, unless otherwise noted. Masonry plates shall be finally seated on three layers of burlap saturated with red lead. This work and material to be included in the price bid for Metal Bearing and Roadway Expansion Devices. Base of fixed shoes and rockers of expansion shoes to be cast of structural steel. All other parts of shoes, bearing plates and expansion devices to be structural steel. Paint: All exposed parts of cast or structural steel shall be given one shop coat of red lead and raw linseed oil. Field paint: First coat, white lead tinted with lamp black; second coat, aluminum paint. Specifications: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction adopted March 6, 1940. Design Live Load - H-20 Loading - AASHTO 1941. Load Distribution to Girders: Dead Load 915' x 1025' / 114 ft. Live Load 1335' x 1425' / 114 ft. L-83. Interior Girders - 34'-0" & 36'-0" spans respectively. Outside Girders - 34'-0" & 36'-0" spans respectively. Unit Stresses: Class "S" Concrete (n=10) 1000 lbs./sq. in. Reinforcing and Structural Steel 18000 lbs./sq. in.

DETAILS OF STANDARD

34'-0" & 36'-0" R.C.D. GIRDER SPANS  
26'-0" CLEAR ROADWAY - 2'-0" SIDEWALKS  
5 GIRDER TYPE  
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

Drawn By: H.B. Date: 1-28-44  
Traced By: H.B. Date: 1-14-44  
Checked By: Date:  
BRIDGE NO. 925-A, 226-A. DRAWING NO. 5405