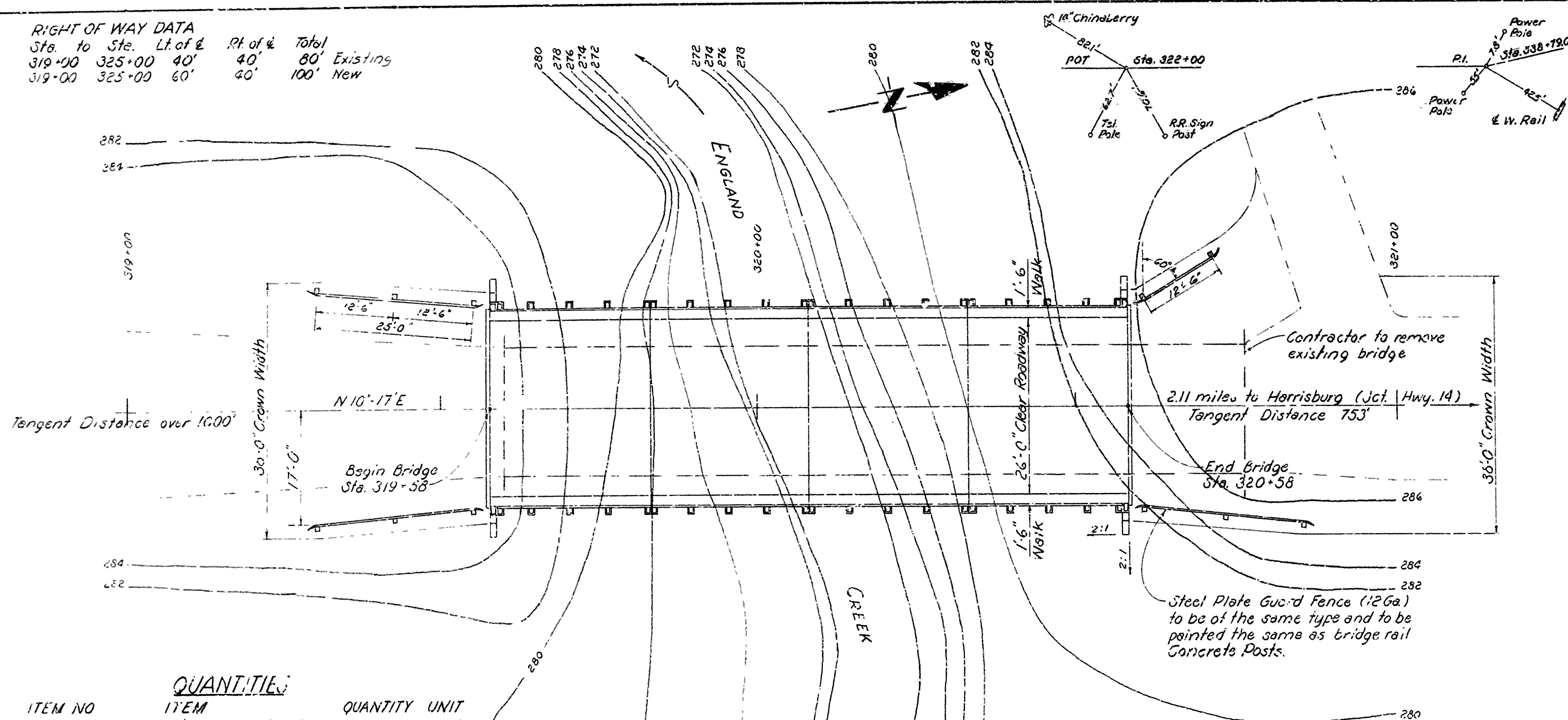


RIGHT OF WAY DATA

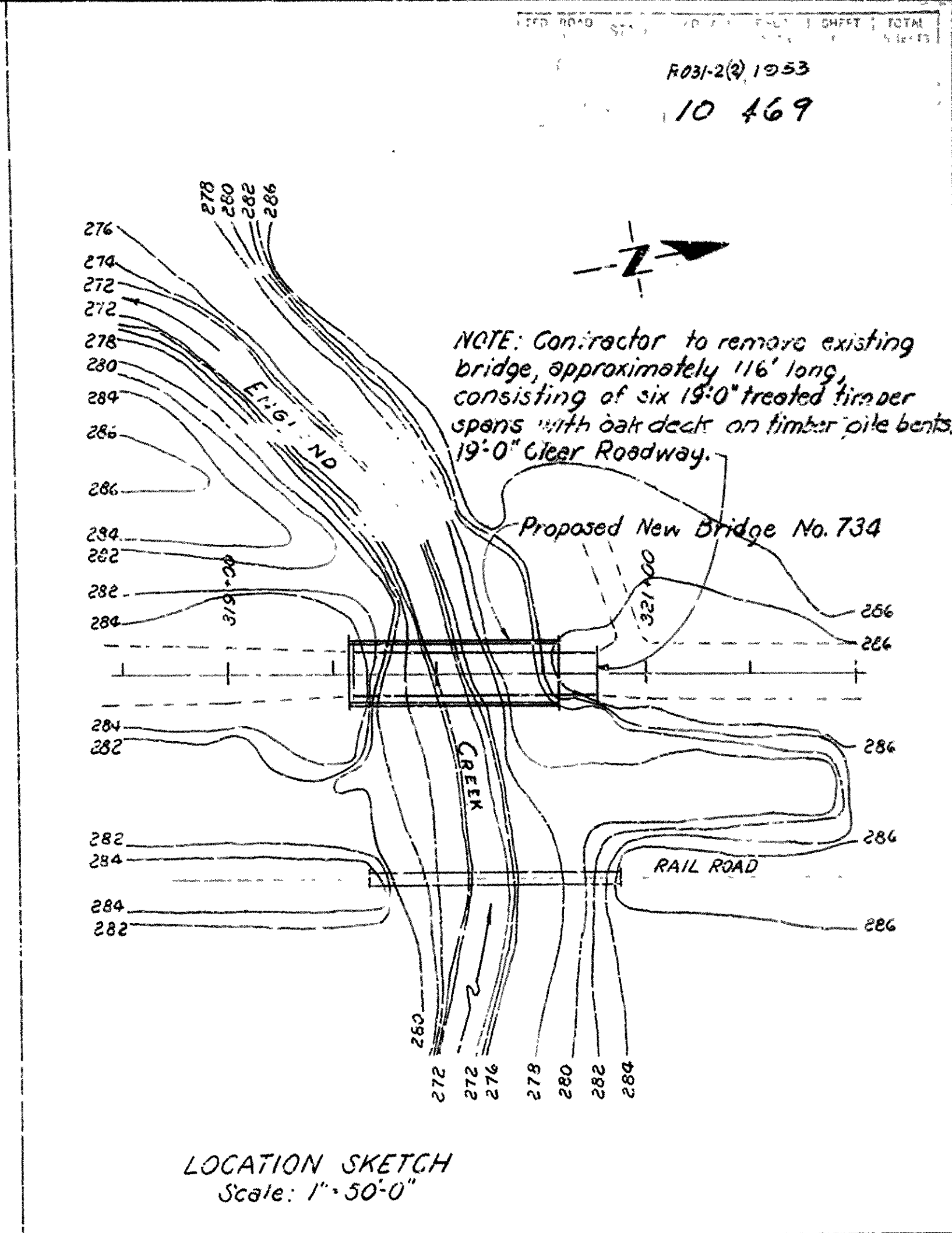
Sta. to Sta.	Lt. of C.	Rt. of C.	Total
319+00	325+00	40'	80' Existing
319+00	325+00	60'	100' New



QUANTITIES

ITEM NO	ITEM	QUANTITY	UNIT
103	Dry Excavation for Structures	50	Cu. Yd.
SP-802	Class 'S' Concrete for Bridges	184	Cu. Yd.
SP-803	Reinforcing Steel	29220	Lb.
SP-804	Concrete Piling - 16" Octagonal	756	Lin. Ft.
SP-805-3	Steel Plate Guard Rail	204	Lin. Ft.
929	Bridge Name Plates - Type 'C'	1	Each
SP-1052-9	Removal of Existing Bridge Structures	22%	Complete Item

PLAN



LOCATION SKETCH
Scale: 1" = 50'-0"

GENERAL NOTES:

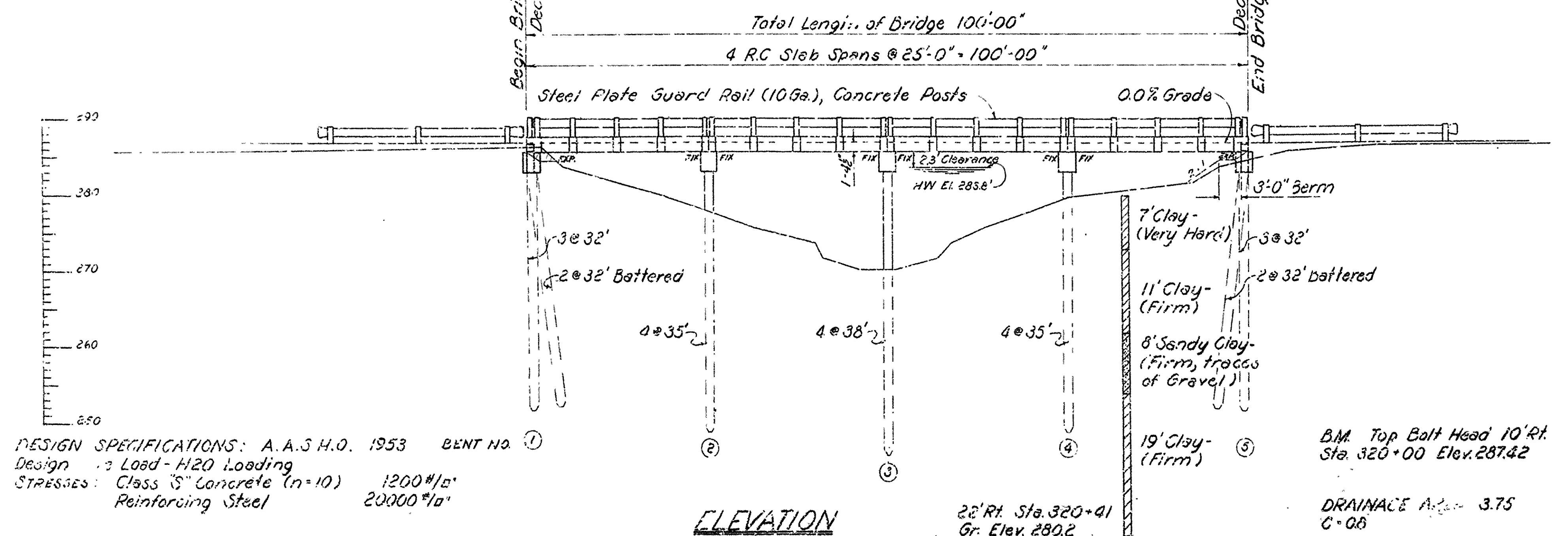
All concrete to be Class 'S' and shall be poured in the dry. All exposed corners to be chamfered $\frac{3}{8}$ " unless otherwise noted.
Concrete Piling to be 16" octagonal precast and shall be driven to a minimum capacity of 35 tons per pile and to a minimum penetration of 20' below natural ground line.
Lengths of piling shown are for estimating quantities only. Actual lengths are to be determined in the field.
Drive one pile in Bent No. 2 as a test pile. Cast 40' long.
Volume occupied by embedded pile heads will not be included in pay quantity of concrete caps.
The present bridge, which consists of six 19'-0" treated timber spans with 19'-0" roadway, treated pile bents with 4' timber bulkheads on and bents, shall be removed by the Contractor.
For Details of Standard Bents see Dwg. No. 5415.
For Details of Standard 25'-0" R.C. Slab Spans see Dwg. No. 5416.
SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction, adopted March 1, 1942.

LAYOUT OF
BRIDGE OVER ENGLAND CREEK
HARRISBURG - SOUTH
POINSETT COUNTY

ROUTE 1 SEC. 15

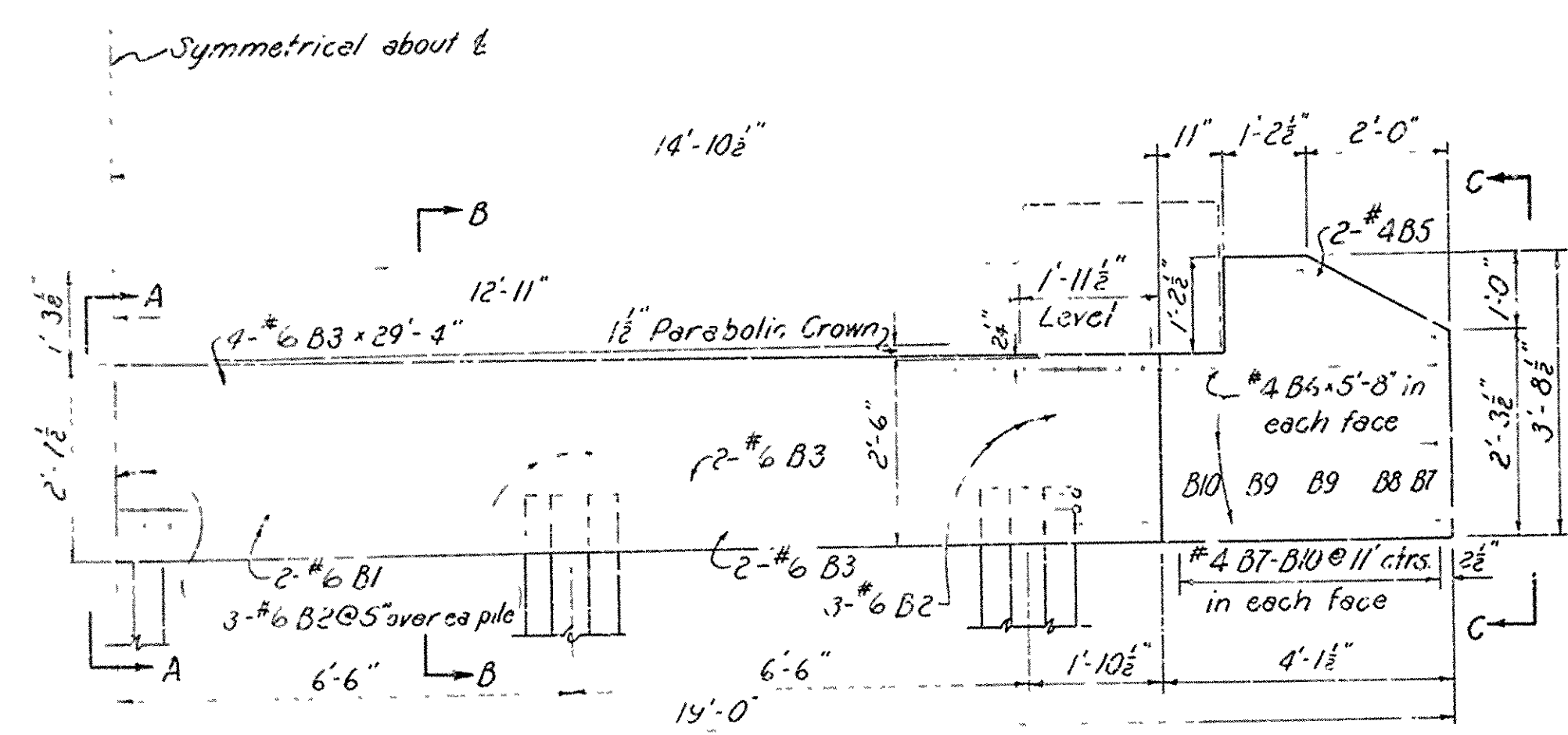
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn By: S.S. Date: 2-2-55
Traced By: Date: 10-2-55
Checked: Date: 10-2-55
Scale: 1" = 10'
BRIDGE NO. 734 DRAWING NO. B.391

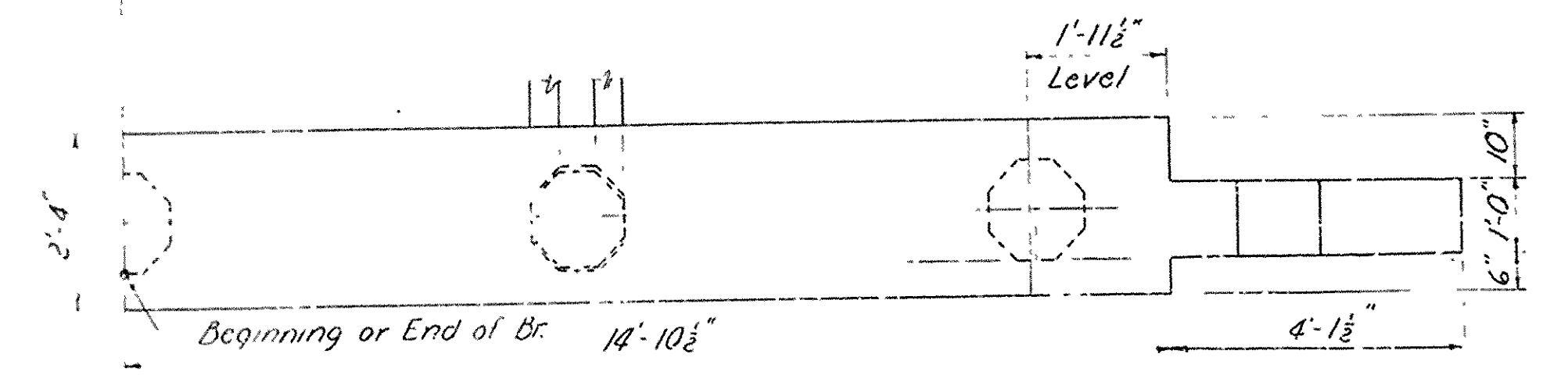


ELEVATION

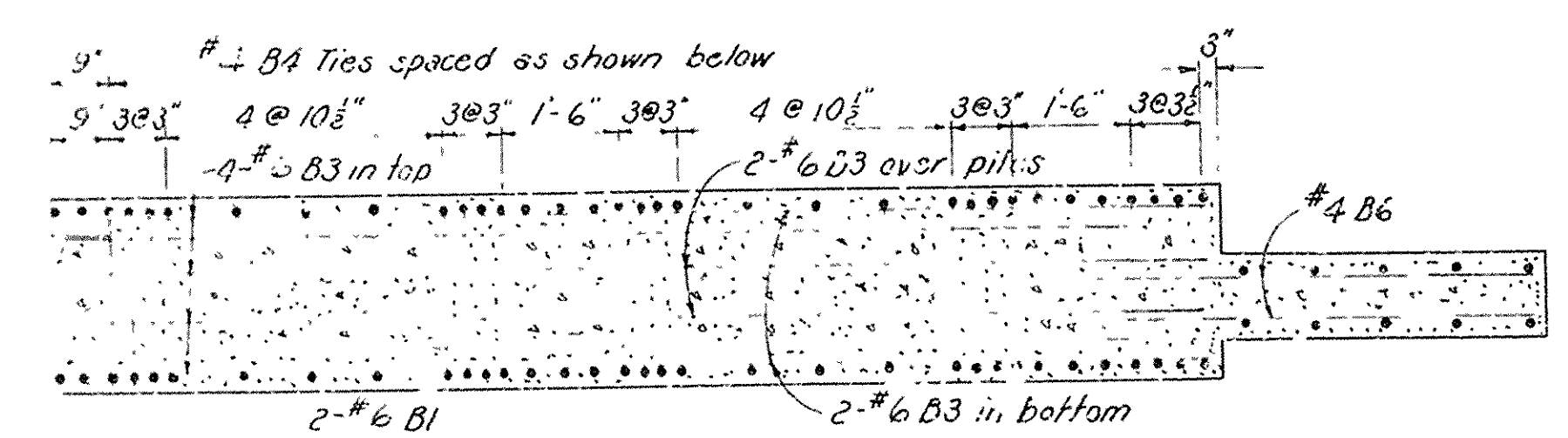
FED. ROAD DIST. NO.	STATE	FISCAL YEAR	PROJECT NO.	SHEET NO.	TOTAL SHEETS
6	ARK.				
STATE JOB NO.					



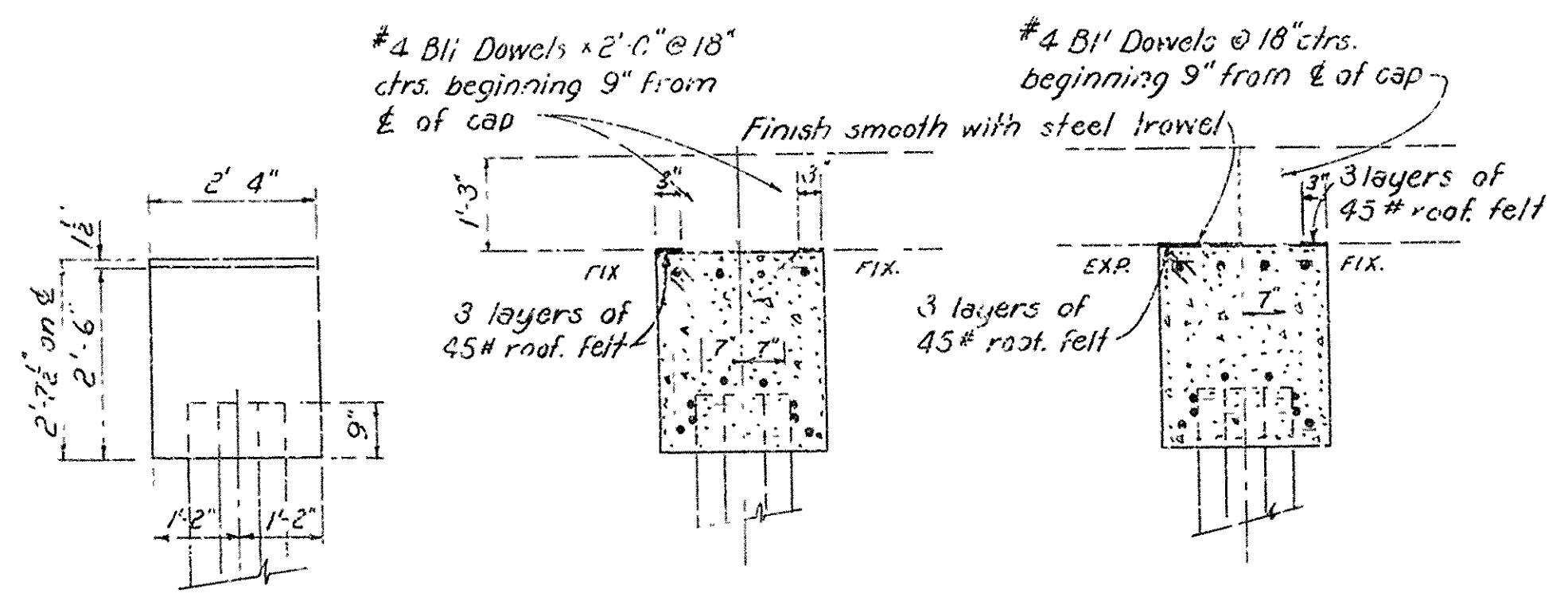
HALF ELEVATION OF END BENT



HALF PLAN OF END BENT



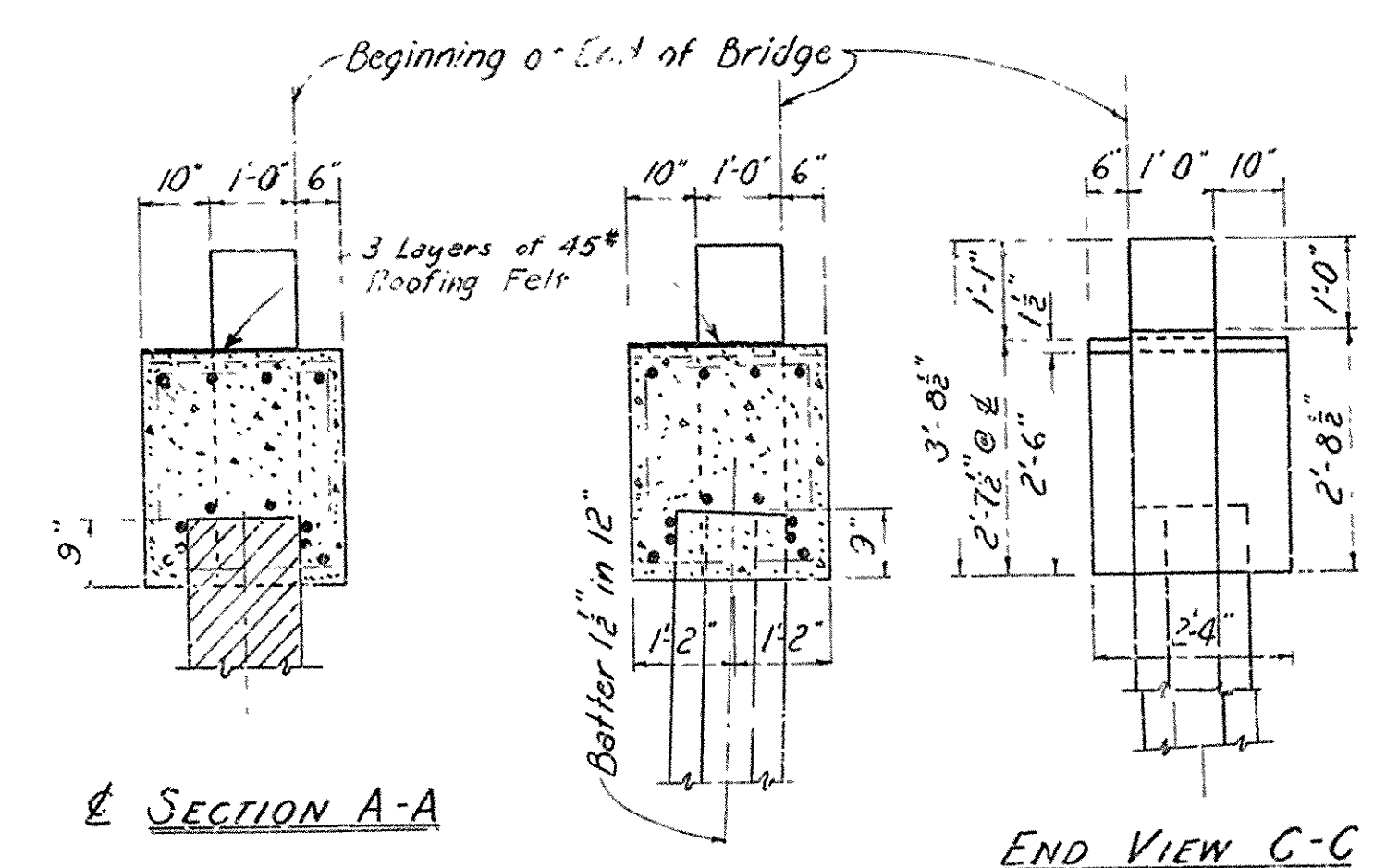
HALF SECTION OF END BENT



END VIEW

SECTIONS ON ϕ OF INTERM. BENTS

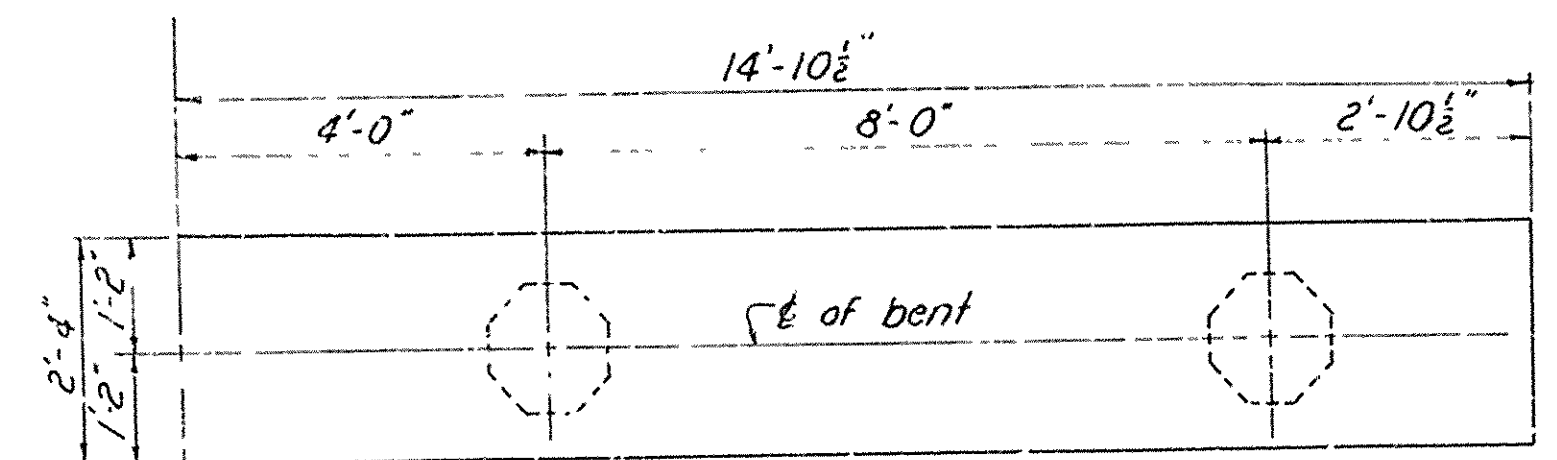
Note: See Layout for location of Expansion and Fixed Ends



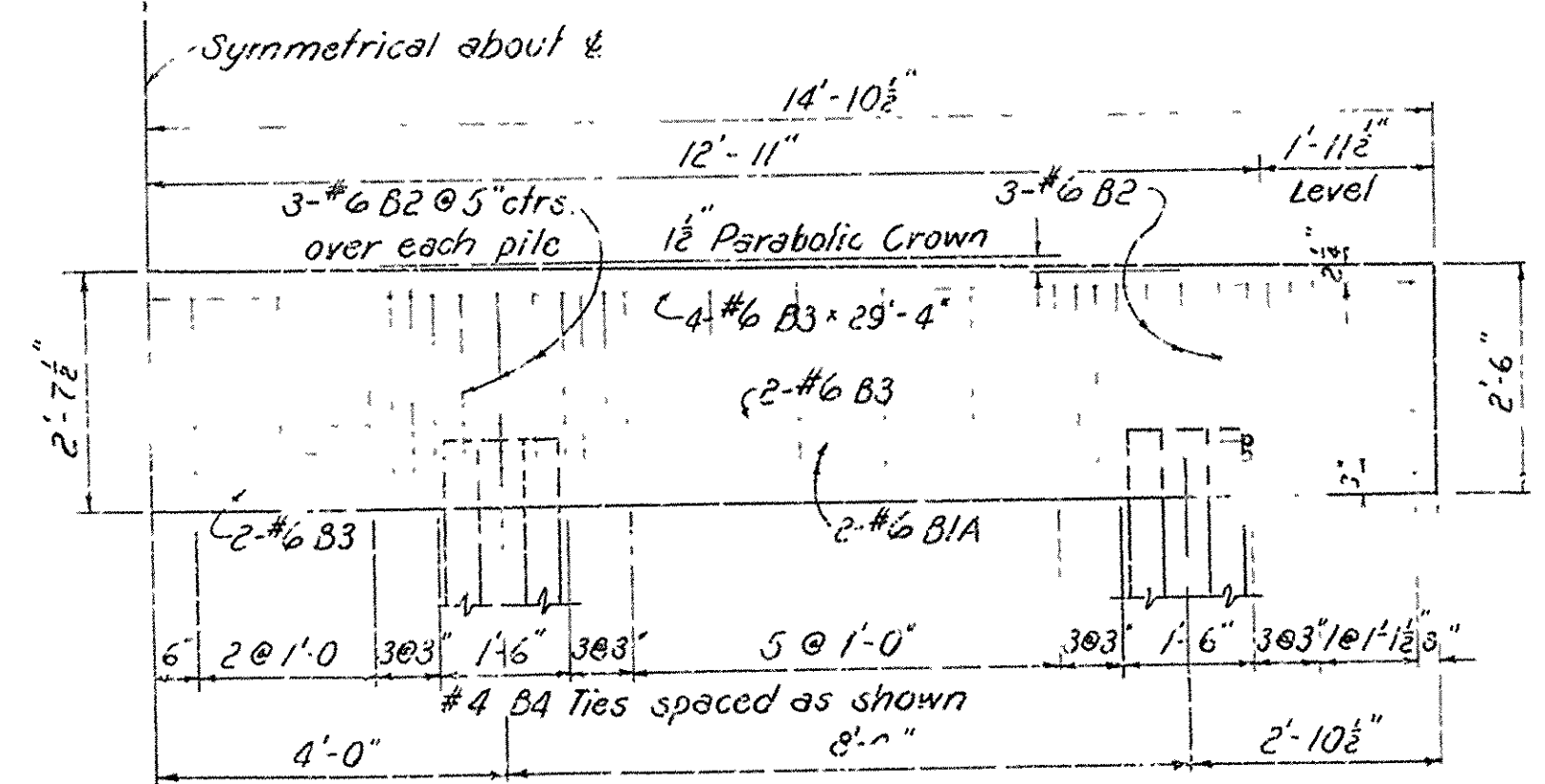
SECTION A-A

END VIEW C-C

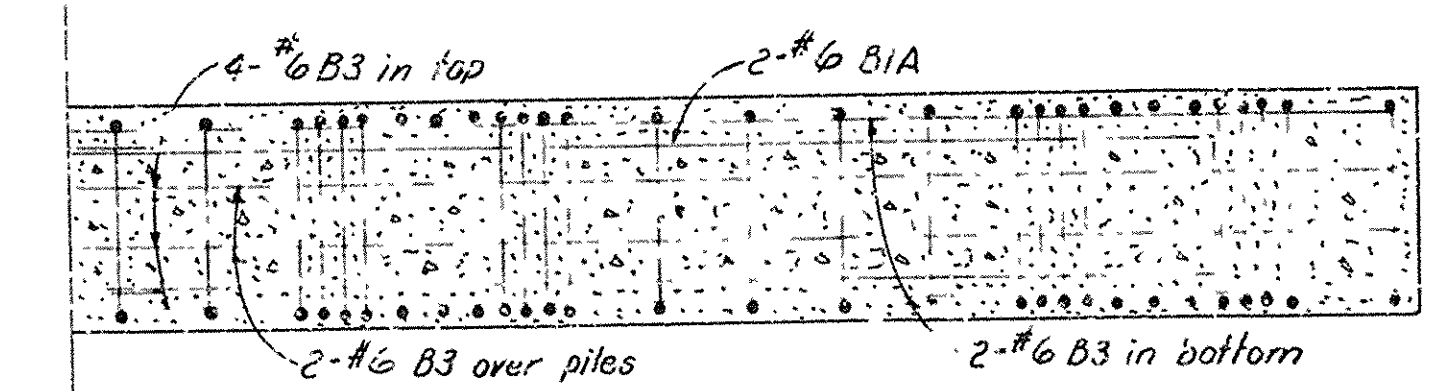
SECTION B-B



HALF PLAN OF INTERMEDIATE BENT



HALF ELEV. OF INTERMEDIATE BENT



HALF SECTION OF INTERMEDIATE BENT

BAR LIST FOR BENTS - EACH						STRAIGHT BARS			
BENT BARS									
Mark	Size	No. Req'd	End Bent	Int. Bent	Length	Bending Diagram	Mark	Size	No. Req'd
B1	#6	4			31'-5"		B3	#6	8
B1A	#6		4		29'-5"		B6	#4	12
B2	#6	15	12		6'-4"		B7	#4	4
B4	#4	52	46		8'-11"		B8	#4	4
B5	#4	4			3'-1"		B9	#4	8
							B10	#4	4
							B11	#4	20

Note: Dimensions relating to reinforcing steel are to centers of bars.

* One slab end fixed
x Both slab ends fixed

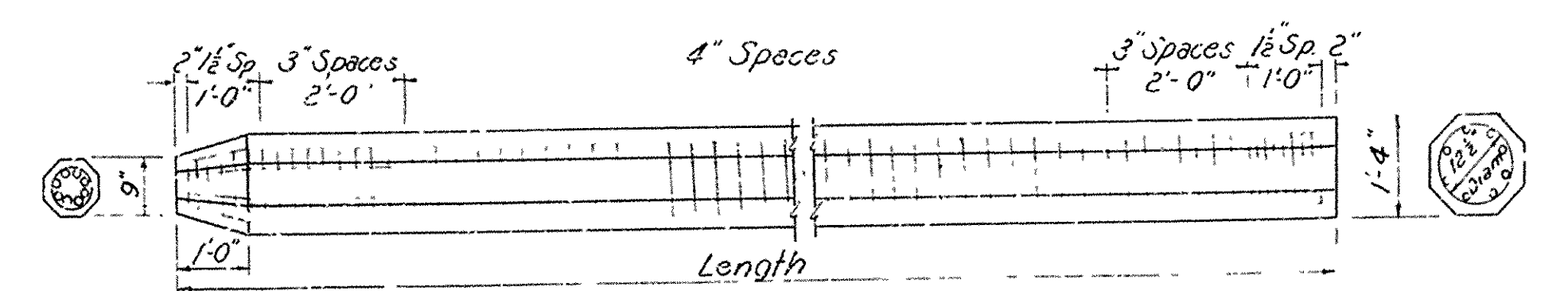
GENERAL NOTES

All concrete to be Class S and shall be poured in the dry. All exposed corners to be chamfered $\frac{1}{4}$ " unless otherwise noted.
Reinforcing steel to be deformed bars of intermediate grade, unless otherwise modified by Special Provisions. Shop lists and bending diagrams are to be submitted for approval.
All piles are to be driven to a minimum capacity of 30.0 tons each.
Volume occupied by embedded pile heads will not be included in the quantity of concrete in caps.
For Details of Standard 25'-0" R.C. Slab Spans, see Dwg. No. 5416.
Specifications: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1959.

DESIGN LIVE LOAD: H-20 LOADING A.A.S.H.O. 1957

DESIGN UNIT STRESSES:

Class S Concrete (n=10) 1200 #/sq in.
Reinforcing Steel (Int Grade) 20,000 #/sq in.



Reinforcing Vertical Bars: 8-#6 for lengths up to and including 35'
8-#7 for lengths 35' to 45'
Lengths over 45': 8-#7 and 4-#6 in middle third of pile
Spiral: No. 4 wire for all lengths.

DETAILS OF 16" OCTAGONAL PRECAST CONG PILE

(SEE DWG 2382 FOR LATEST PILE DETAILS)

DETAILS OF
STANDARD R.C. PILE BENTS
FOR 25'-0" R.C. SLAB SPANS
26'-0" CLEAR ROADWAY 1'-6" CURBS

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

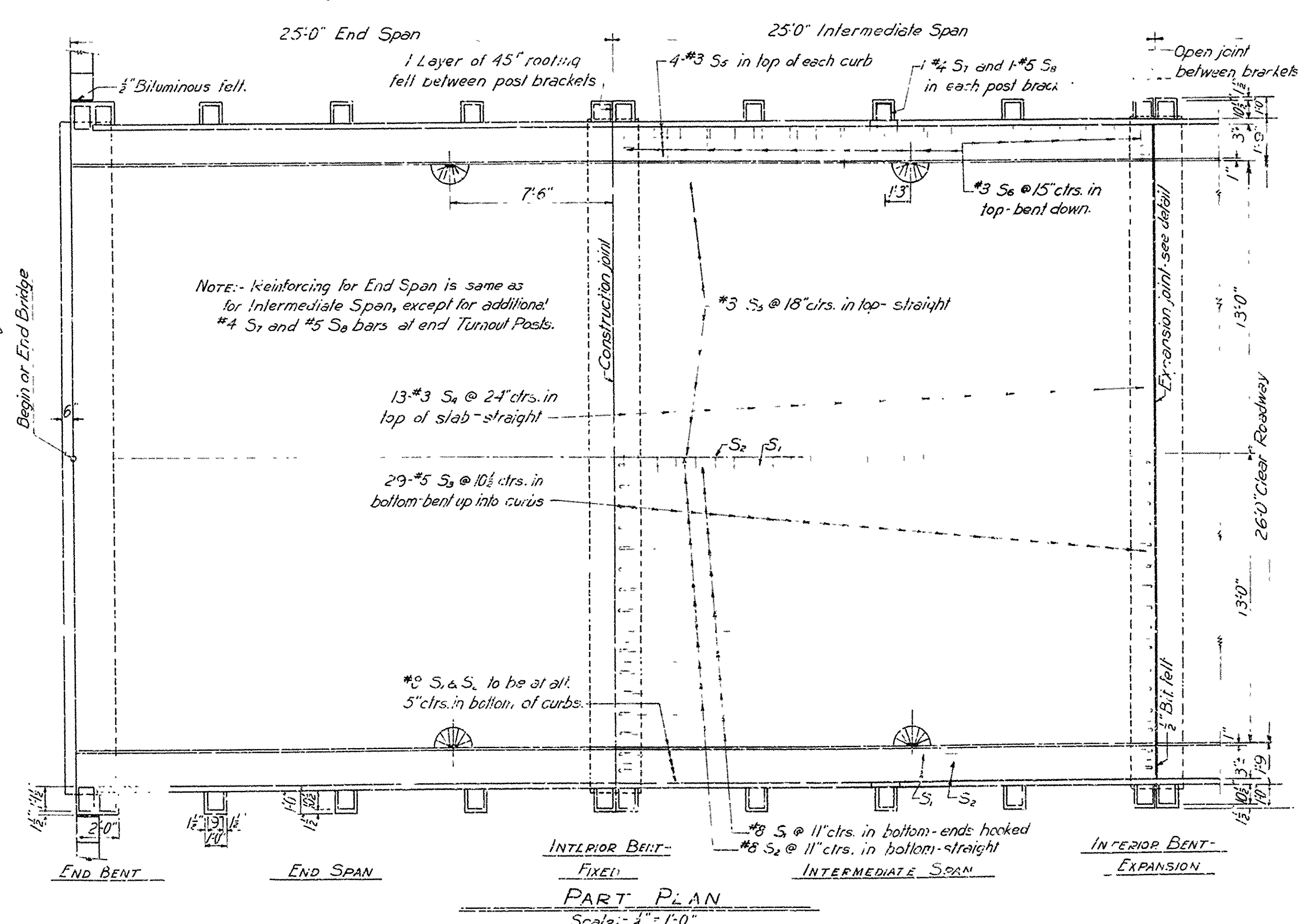
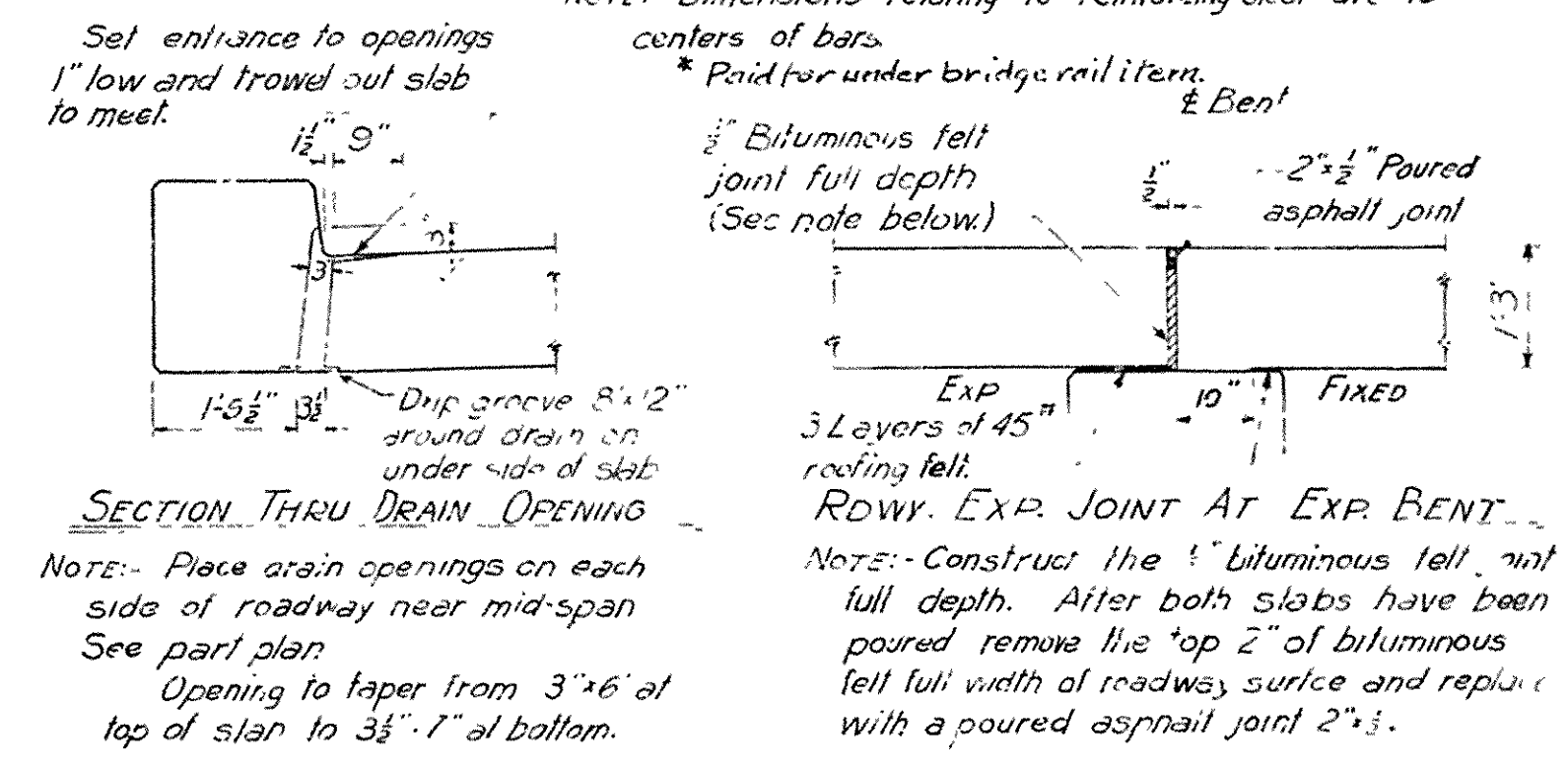
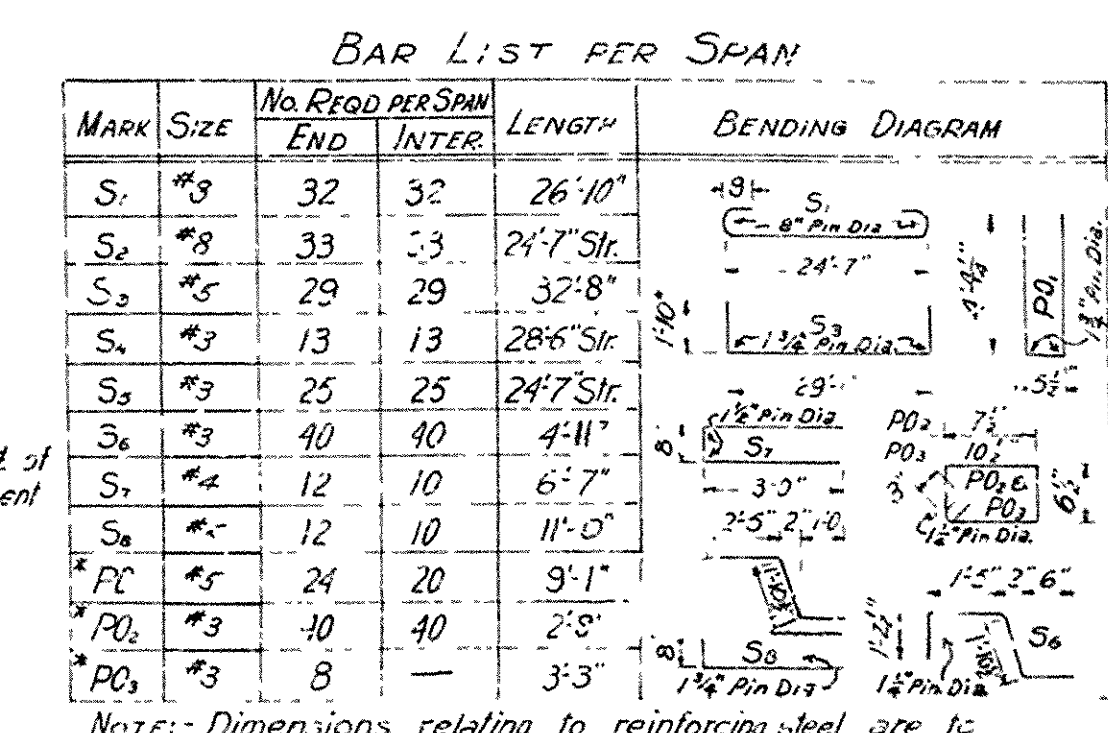
Drawn By: A.J. Date: 10-30-51
Tracer: B.S. Date: 7-27-53
Checked By: J.H. Date: 12-22-53

Scale: $\frac{1}{2}$ in. = 1 ft.

BRIDGE NO. DRAWING NO. 5415

Revision: Pile Capacity Deleted 1-25-55 H.B.
Revised Spec. Note; Added Pile Note 25 May 60 B.H.
Changed Bar Designations from round to flat.

Ward
BRIDGE DESIGN ENGINEER



GENERAL NOTES

All concrete to be Class 'S'. All exposed corners to be chamfered $\frac{3}{4}$ " unless otherwise noted.

Reinforcing steel to be deformed bars of intermediate grade, unless modified by Special Provisions. Shop lists and bending diagrams must be submitted and approved secured before fabrication is begun.

All reinforcing steel shall be accurately located in the forms and firmly held in place by means of steel wire supports of sufficient size and number to prevent misplacement during the course of construction, and to keep the steel a proper distance from the forms. Wire supports will not be paid for directly, but will be considered subsidiary in the item of "Reinforcing Steel." Shop lists and diagrams must be submitted for approval.

Payment for roofing felt, bituminous felt, and poured asphalt joints to be included in the price bid for Class S Concrete.

The plate guard rail shall be of the type shown or an equivalent rigid type as approved by the Engineer. The plate guard rail, including all concrete posts, shall be paid for at the unit price bid per linear foot for "Steel or Aluminum Plate Guard Bridge Railway".

Shop Paint:- The steel plate guard rail shall be painted in accordance with Section 809 of the Specifications before shipment.

Field Paint:- 1st Coat, red lead lined with lamp black; 2nd Coat Aluminum paint (for steel plate guard only)

This drawing shows general features of design only. Shop drawings shall be made in accordance with the specifications and shall be submitted and approval secured before fabrication is begun.

SPECIFICATIONS:- Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1959.

DESIGN LIVE LOAD-H-20 LOADING A.A.S.H.O. 1957

Load distribution to slab:- Dead Load = 195 %
Live Load = 217.5 % (Wheels/H) with 30 % Impact

UNIT STRESSES:- Class 'S' Concrete (f_c) = 10,000 psi
Reinforcing Steel (f_s) = 20,000 psi

DETAILS - STANDARD
25'-0" R.C. SLAB SPANS
26'-0" CLEAR ROADWAY 2 WALKS @ 1'-6"

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

Drawn By: W.C.H. Date: 10-30-51
 Traced By: J.E.H. Date: 4-12-52
 Checked By: J.H.H. Date: 11-9-52
W.C.H. 4-25-52

Scale: $\frac{1}{2}$ in. = 1 ft.
 EXCEPT AS NOTED

BRIDGE NO. DRAWING NO. 5416

Revised Curb Width 1-15-57 E.R.B
Revised Bar Designation 5-14-57 R.H.M.
Revised Rail Notes & Spec. Ref. 25 May 60 C.H.H.
Revised Curb Height 5-13-61 LK