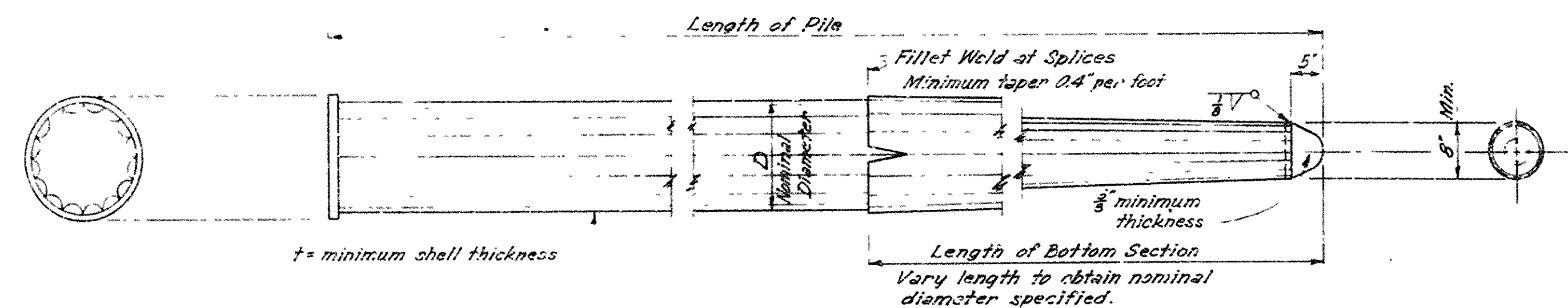
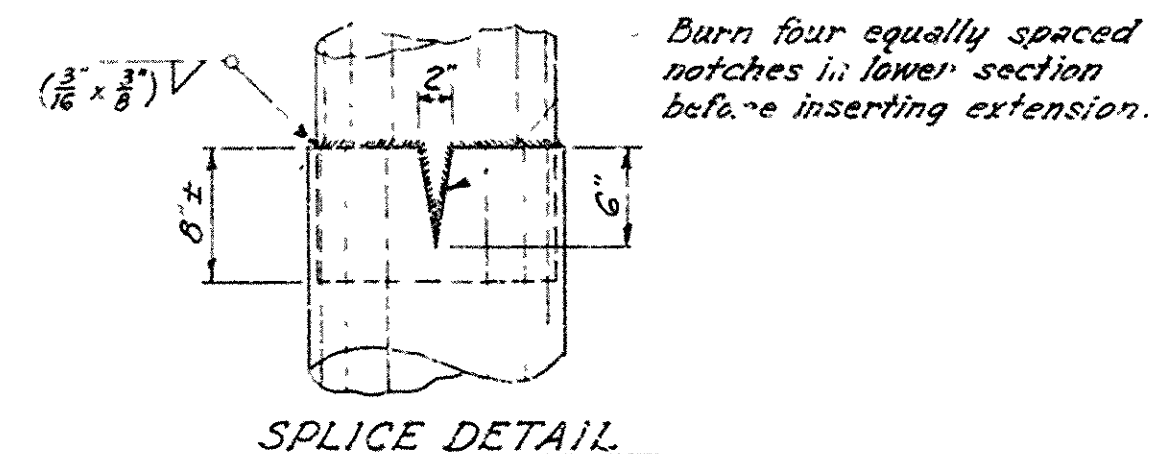


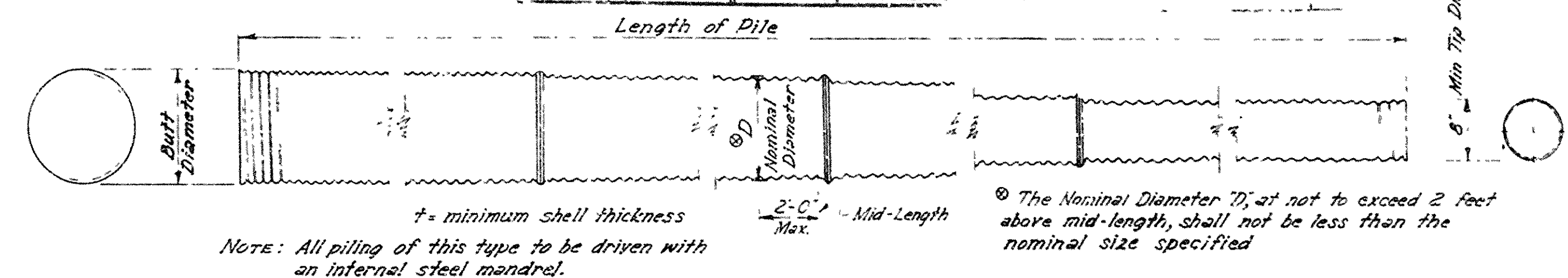
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED
12-21-77	105-12-21-77		
9-8-72	502-1-9-72		
	627-7-23-81		



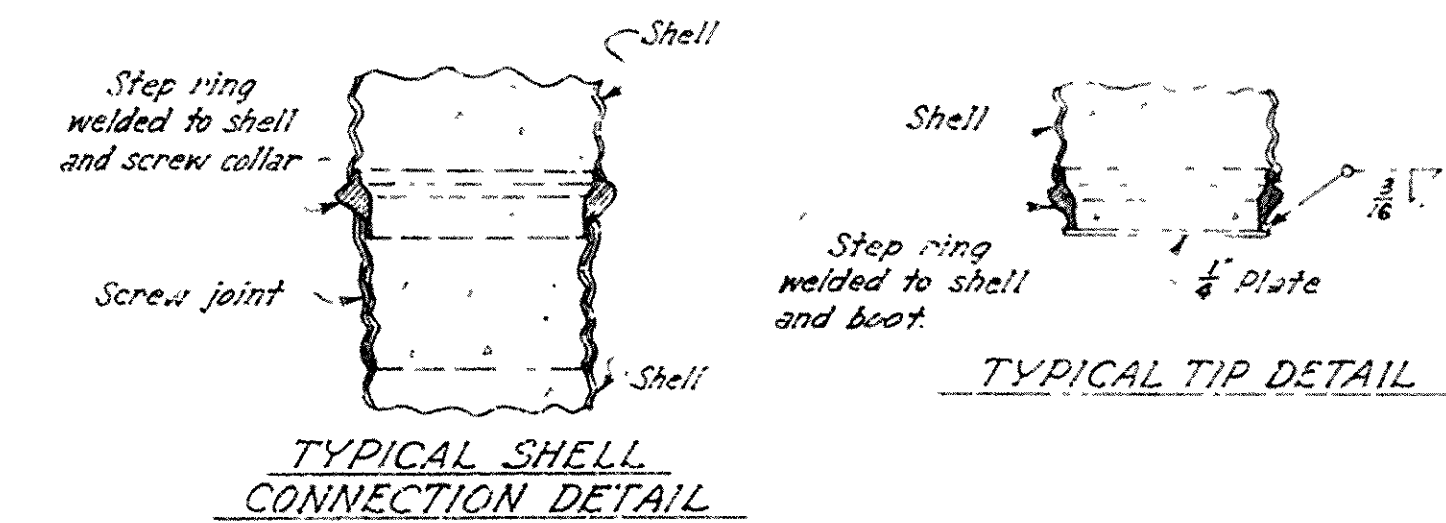
NOMINAL SIZE D	MIN SHELL THICK. t	REINFORCING STEEL	
		END BENT PILES BARS A	FOUND'N PILES BARS C
12"	7 Ga	4 - #6 x 3'-0"	4 - #6 x 4'-0"
14"	7 Ga	4 - #6 x 3'-0"	4 - #6 x 4'-0"
16"	7 Ga	4 - #6 x 3'-0"	4 - #6 x 4'-0"
18"	7 Ga	4 - #6 x 3'-0"	4 - #6 x 4'-0"



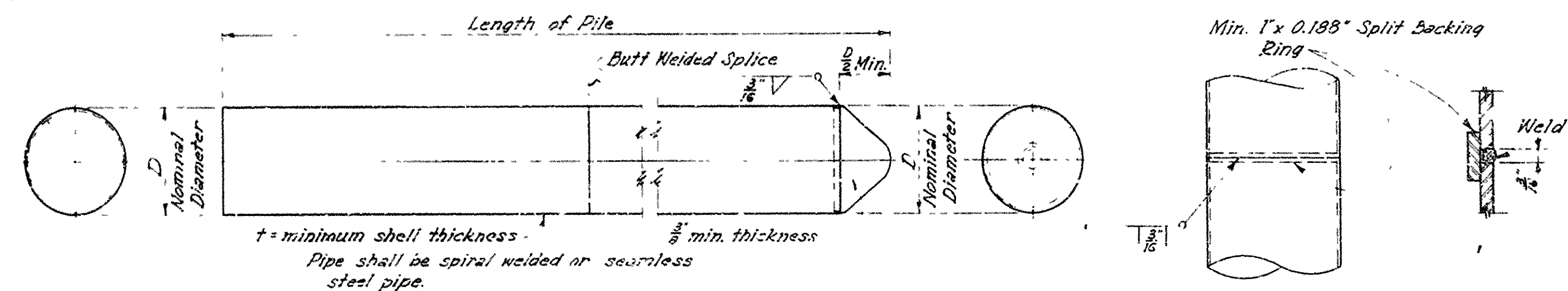
VERTICALLY FLUTED SHELL PILES



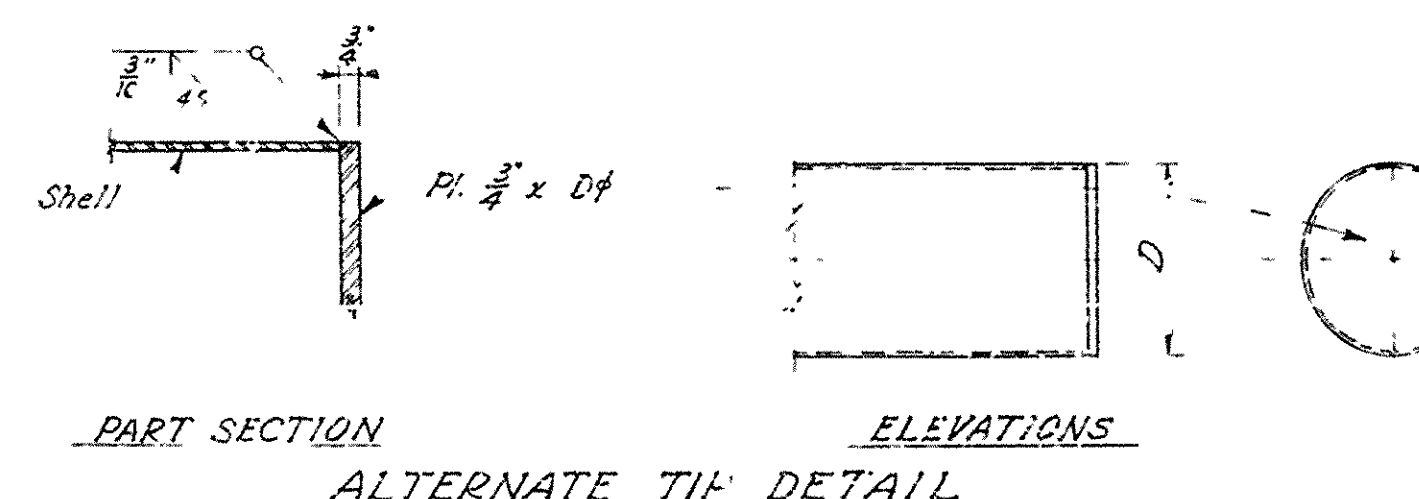
NOMINAL SIZE D	MIN SHELL THICK. t	REINFORCING STEEL		
		END BENT BARS A	BARS B	FOUND'N PILES BARS C
12"	16 Ga	4 - #6	4 - #6	8 - #6 x 4'-0"
14"	16 Ga	4 - #6	4 - #6	8 - #6 x 4'-0"
16"	16 Ga	4 - #6	4 - #6	8 - #6 x 4'-0"
18"	16 Ga	4 - #6	4 - #6	8 - #6 x 4'-0"



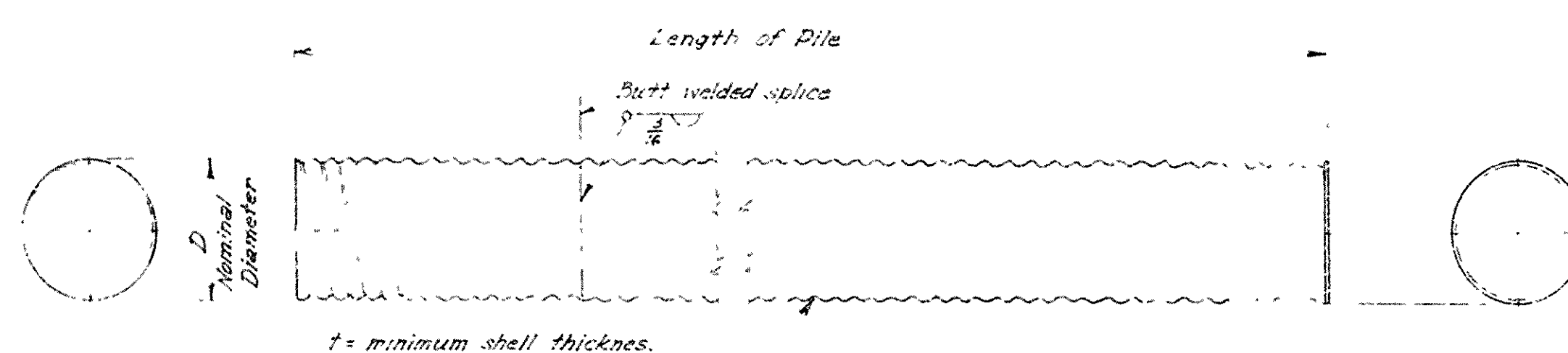
HORIZONTALLY CORRUGATED SHELL PILES



NOMINAL SIZE D	MIN SHELL THICK. t	REINFORCING STEEL	
		END BENT PILES BARS A	FOUND'N PILES BARS C
12"	0.172	4 - #6 x 3'-0"	4 - #6 x 4'-0"
14"	0.172	4 - #6 x 3'-0"	4 - #6 x 4'-0"
16"	0.172	4 - #6 x 3'-0"	4 - #6 x 4'-0"
18"	0.188	4 - #6 x 3'-0"	4 - #6 x 4'-0"

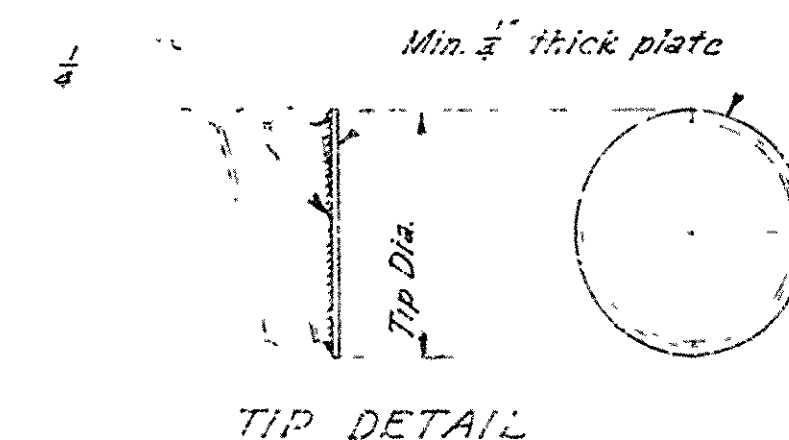


PLAIN ROUND SHELL PILES

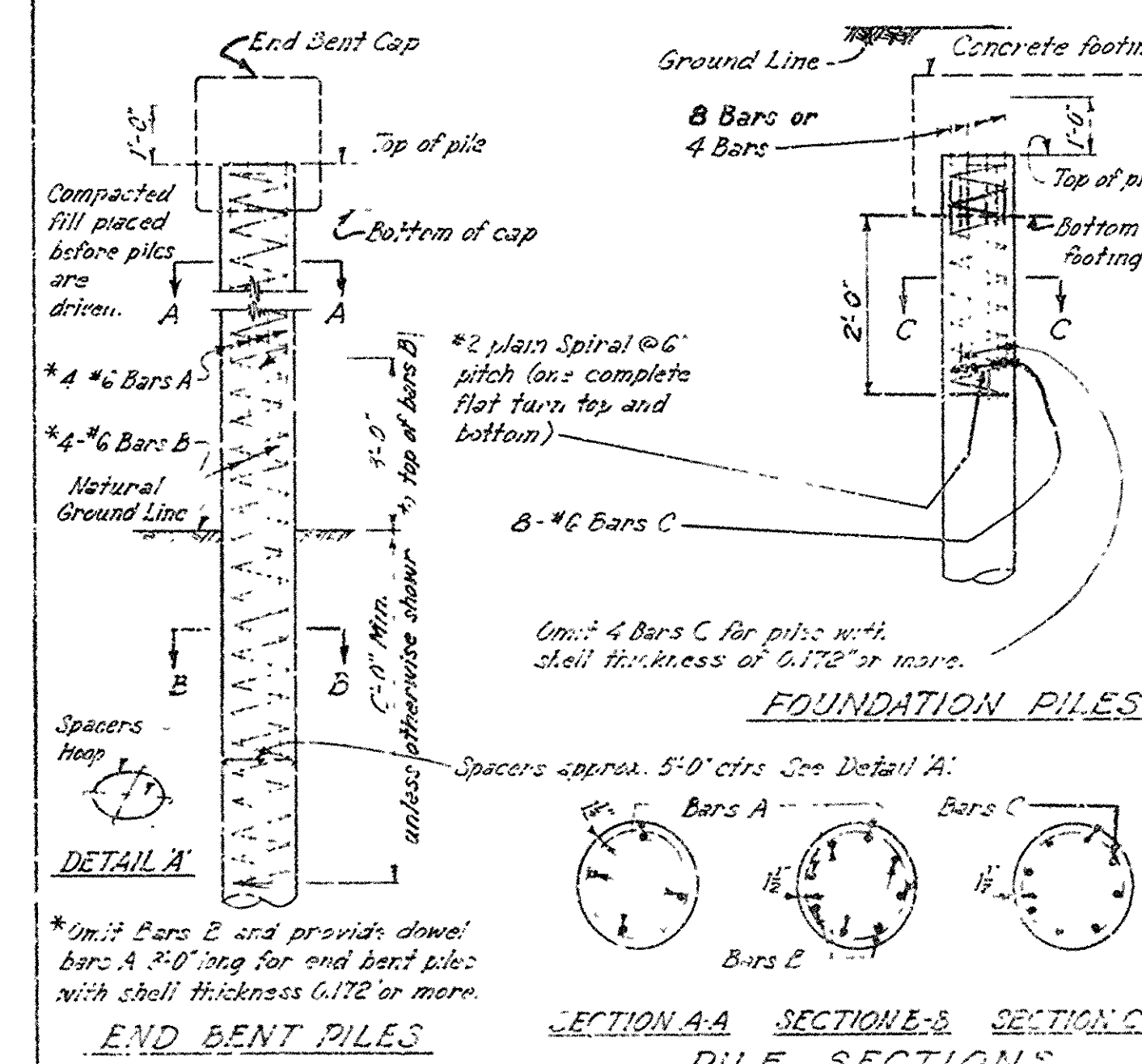


Note: All piling of this type to be driven with an internal steel mandrel

NOMINAL SIZE D	MIN SHELL THICK. t	REINFORCING STEEL		
		END BENT PILES BARS A	BARS B	FOUND'N PILES BARS C
12"	16 Ga	4 - #6	4 - #6	8 - #6 x 4'-0"
14"	16 Ga	4 - #6	4 - #6	8 - #6 x 4'-0"
16"	16 Ga	4 - #6	4 - #6	8 - #6 x 4'-0"
18"	16 Ga	4 - #6	4 - #6	8 - #6 x 4'-0"



SPIRAL CORRUGATED ROUND SHELL PILES



GENERAL NOTES

Metal shells shall be filled with Class S Concrete after driving has been completed.

Reinforcing steel, except spirals, shall be deformed bars of 151-1 A615 Grade 40. Unless otherwise modified by Special Provisions. Spiral reinforcing shall be plain bars of ASTM A82. Dimensions relating to reinforcing steel are to centers of bars. Payment for all reinforcing steel to be included in the unit price per linear foot bid for "Bearing Piles".

Pile size designated on the Bridge Layout is nominal diameter of pile. Gages of metal shown are in accordance with U.S. Standard Gage.

Splices, where necessary, shall be made as shown, or as recommended by the Manufacturer, and approved by the Engineer. Cutoff or buildup will be paid for in accordance with the Standard Specifications.

SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1972 and applicable Special Provisions.

Revisions:
Added notes 6-12-57 H.B.
7-11-58 9-23-57 H.B.
Reinf. Det. 4-24-59 A.I.
Tr. Det. 4-24-59 A.I.
Sigsbee Inc. 1-1-60
Specs. 7-2-60 A.I.
Revised: 7-14-67 U.S.
Reinf. Det. 7-24-67 A.I.
Reinf. Designation Rev. 12-21-67 C.W.B.
8-8-72. Revised for 1972 Specs.

DETAILS OF CONCRETE FILLET METAL SHELL PILES

12", 14", 16" & 18" NOMINAL SIZE

ROUTE SEC.
ARIZONA STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: H.B. DATE: 5-6-57
TRACED BY: A.I. DATE: 4-24-59
CHECKED BY: A.I. DATE: 7-2-60
TRACING: A.I. DATE: 9-27-72
BRIDGE NO. DRAWING NO. 2381-A

A hand-drawn map of the Hurricane Creek area. The map shows a creek flowing from the top left towards the bottom right. A dashed line indicates the 'Relocated Hurricane Creek'. A bridge, labeled 'Bridge #3709', crosses the creek. Another bridge, labeled 'Bridge #3709 B', is shown further downstream. The map includes several measurements: '16/14', '16/15', '10', '16/16', and '16/17'. A compass rose is located in the bottom left corner, showing North (N), South (S), East (E), and West (W). The map is drawn on a grid of dashed lines.

GENERAL NOTES

REFERENCES

For Details of RC Spans see Dwg. #ST2-2.
For Details of Pile Bents see Dwg. #ST2-3.

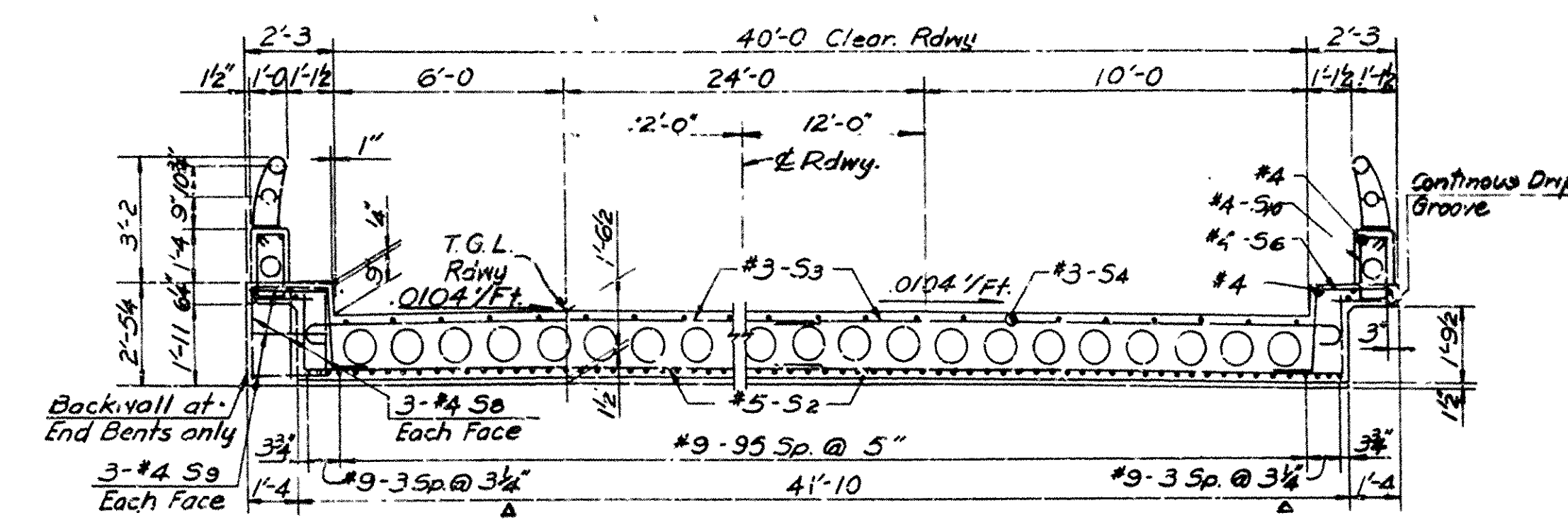
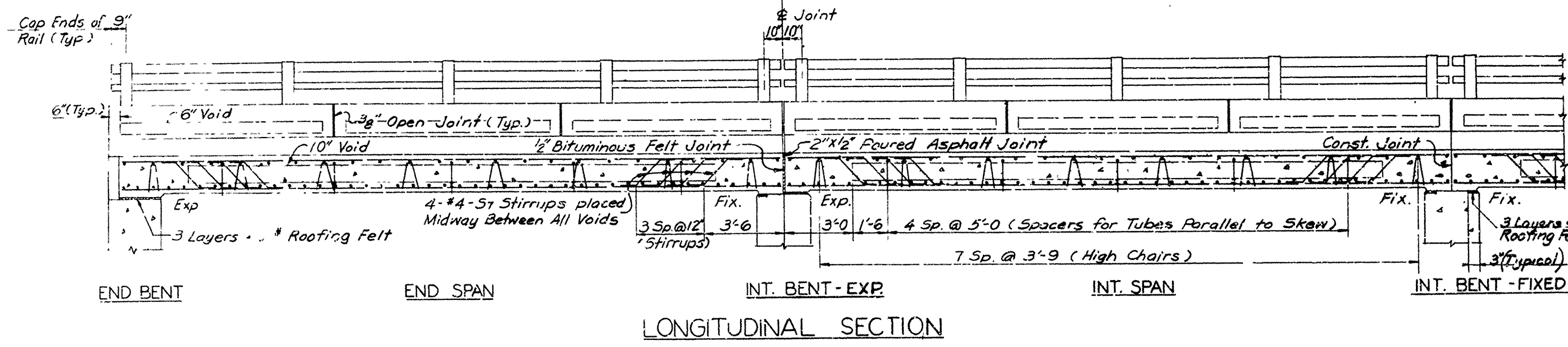
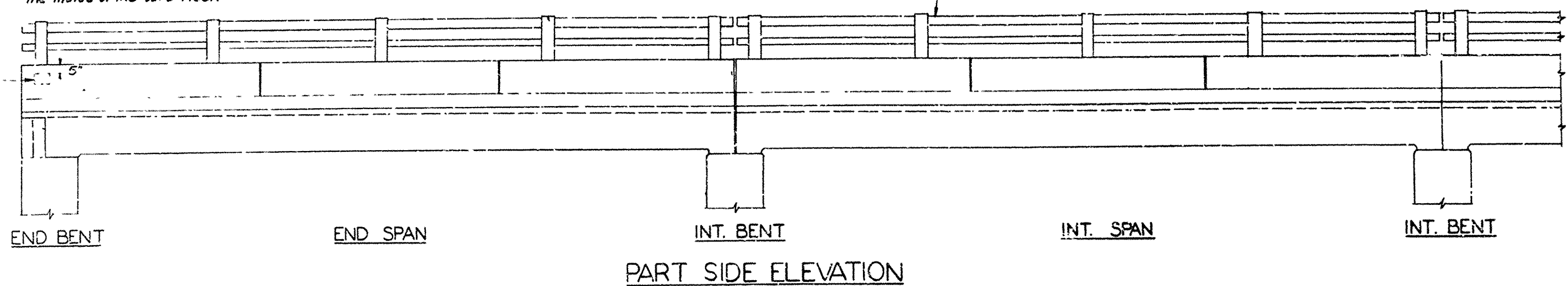
In Charge of C. McC
Made By J. J. H.
Traced By ---
Checked By C. McC

A.H.D. DRAWING No. 12737

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	1-40-4 (91/93)		36	230
JOB NO. 6717					

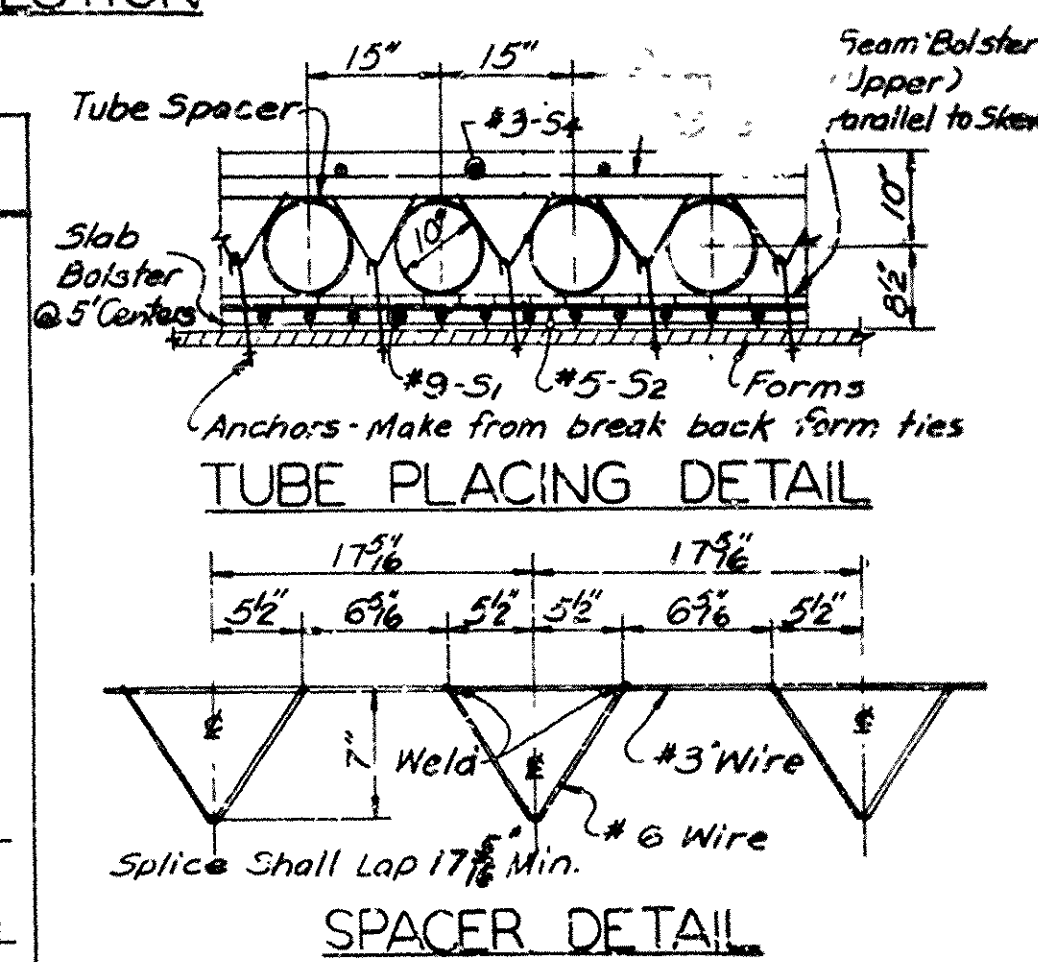
Place Type C Name Plate on right-hand side of each bridge, in the direction of traffic, on the inside of the curb riser.

Aluminum Bridge Railing - Alternate #1
Metal (Steel) Bridge Railing - Alternate #2



BAR LIST PER SPAN

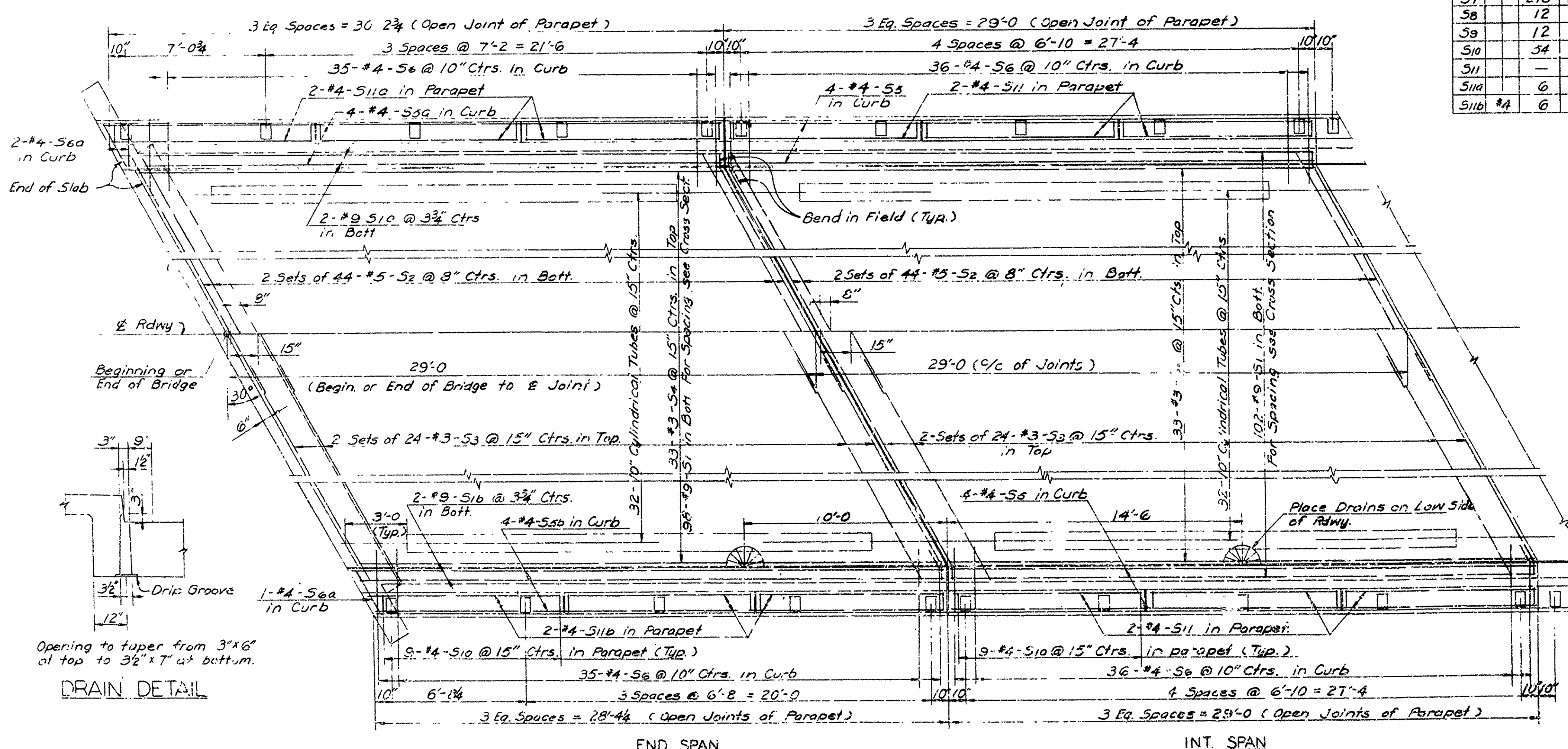
Mark	Size	No. Bars Per Span	Length	Bending Diagram
S1	#9	98	102	28'-7.5 ft.
S1a	#9	2	—	29'-2.5 ft.
S1b	#9	2	—	28'-10.5 ft.
S2	#5	88	88	27'-1.2 ft.
S3	#3	48	48	24'-1.1 ft.
S4	#3	33	33	28'-7.5 ft.
S5	#4	—	8	28'-7.5 ft.
S5a	#4	—	—	28'-7.5 ft.
S5b	#4	—	—	28'-7.5 ft.
S6	#7	72	72	6'-6 ft.
S6a	#7	—	—	6'-7 ft.
S7	#4	248	248	3'-1 ft.
S8	#12	—	—	2'-1.5 ft.
S9	#12	—	—	2'-0.5 ft.
S10	#4	54	54	5'-4 ft.
S11	#12	—	—	9'-3.5 ft.
S11a	#6	—	—	9'-8.5 ft.
S11b	#4	6	—	9'-0.5 ft.



DESIGN SPECIFICATIONS AASHTO-1961A
Load Distribution to Slab: Δ Dead Load: 182 #/ft.
 Δ Live Load: .174 Wheels/ft. Width with 30% Impact

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 or hard grade. Shop Lists and Bending Diagrams must be submitted and Approval secured before Fabrication is begun.
All Cylindrical Tubes used to form voids shall be moisture protected laminated type construction, minimum thickness .0225 inches, and shall be furnished complete with End Closure.
All Reinforcing Steel and Fiber Tubes shall be accurately located in the Forms and firmly held in place by means of Steel Wire Supports and Spacers for Tubes of sufficient size and number to prevent displacement during the course of construction, but in no case of lesser design than that shown.
Wire Supports for Reinforcing Bars will not be paid for directly but will be considered subsidiary to the item of Reinforcing Steel.
Tubes for forming voids and Wire Supports and Spacers for Tubes will not be paid for directly but will be considered subsidiary to the item of Class S Concrete.
Shop Lists and Diagrams of Wire Supports and Spacers for Tubes shall be submitted for Approval before Fabrication is begun.
Roofing Felt, Bituminous Felt and Poured Asphalt Joint shall be measured and paid for as Class S Concrete.

Δ Revised & Corrected 6-30-64 JWG CHK'd gmm



Opening to taper from 3'x6' at top to 3'x7' at bottom.

DRAIN DETAIL

In Charge of C. H. C.
Made By J. J. H.
Traced By J. J. H.
Checked By L. B.

ARKANSAS STATE HIGHWAY COMMISSION			
LITTLE ROCK, ARKANSAS			
INTERSTATE ROUTE 40		SECTION	
DETAILS OF R.C. SLABS			
BRIDGES OVER RELOCATED HURRICANE CREEK			
BRIDGE NO. 3709A 3709 B		SCALE None	BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS
DRAWING NO. ST2-2		DATE	

