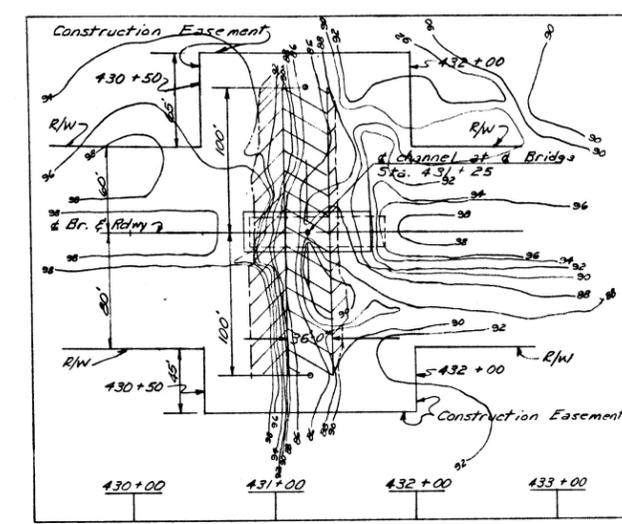
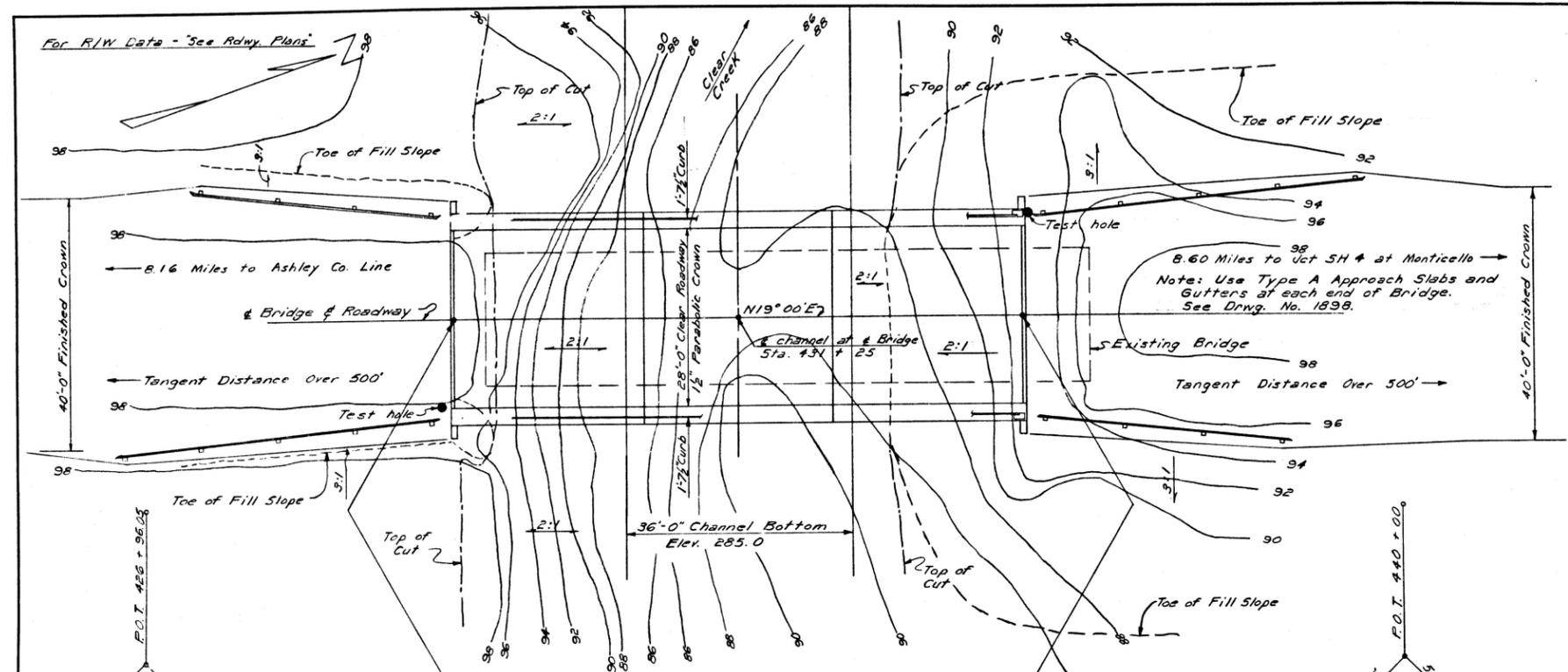


FED. ROAD No.	STATE	FED. AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	233-11151		19	54
JOB No.		2680	19	54	



Note: Excavate channel 100' upstream and downstream. Channel bottom Elev. 85.0. Channel bottom to be 36' wide with 2:1 side slopes. Channel Excavation Approx. 750 cu. yds.

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

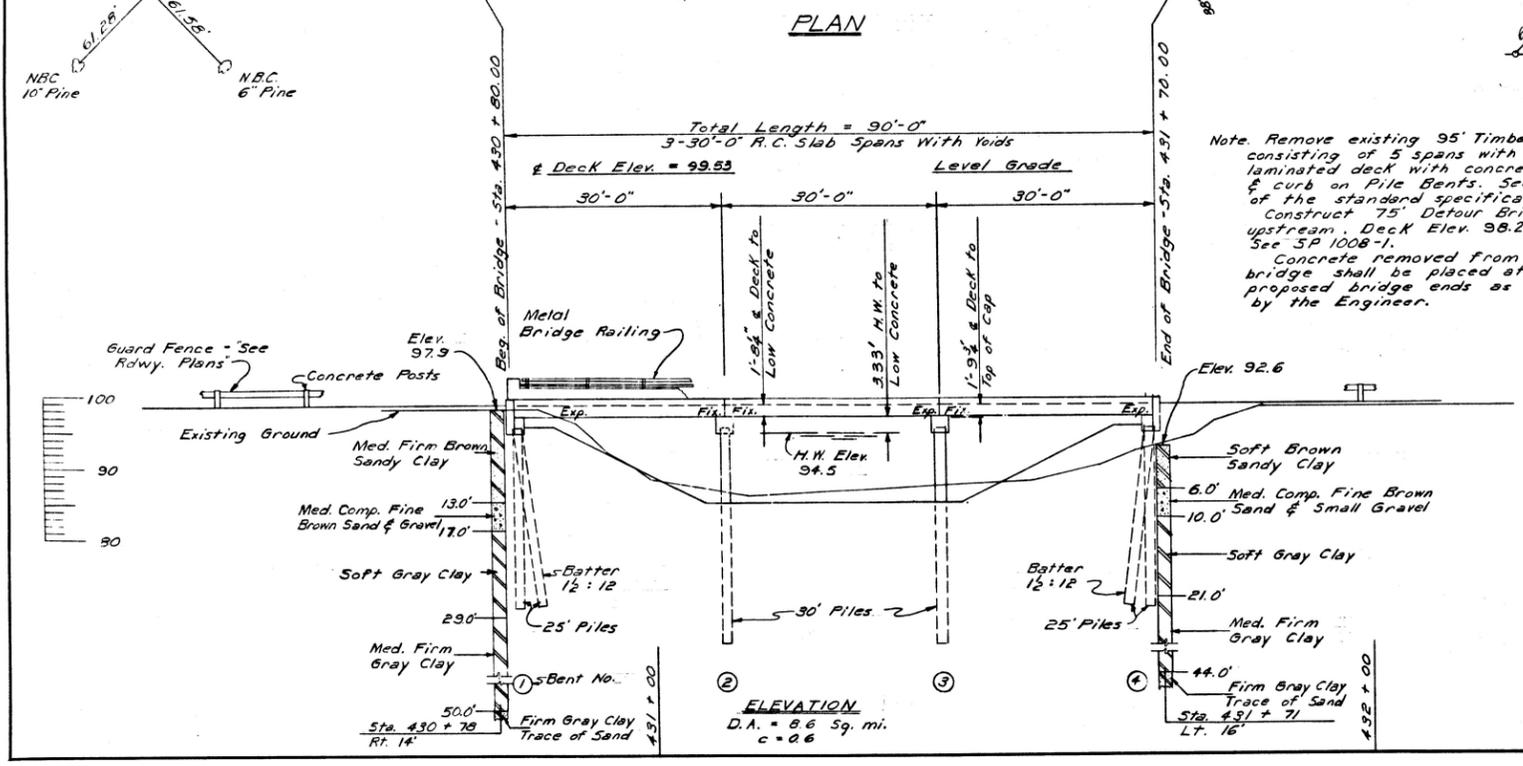
**GENERAL NOTES**

Bench Mark - Wall in Side Power Pole 35' Rt. Sta. 429+05. Elev. 100.00 (Assumed).  
All piling shall be 18" octagonal precast concrete and shall be driven with an approved air, steam or diesel hammer to a minimum bearing capacity of 30 tons per pile, and to a minimum penetration 20' below the ground line.  
Lengths of piling shown are assumed for estimating quantities only. Actual lengths to be determined in the field. Piles in end bents to be driven after embankment is in place. Drive one 35' test pile in Bent No. 2.  
For Details of Substructure see Dwg. No. 54214.  
For Details of Superstructure see Dwg. No. 15062.  
For Details of 18" Octagonal Precast Concrete Piles see Dwg. No. 2382.

**SPECIFICATIONS:** Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1959, and designated Special Provisions.

Loading: NS20 AASHO 1981  
Stresses: Class S Concrete (n=10) 1,200 psi  
Reinforcing Steel 20,000 psi

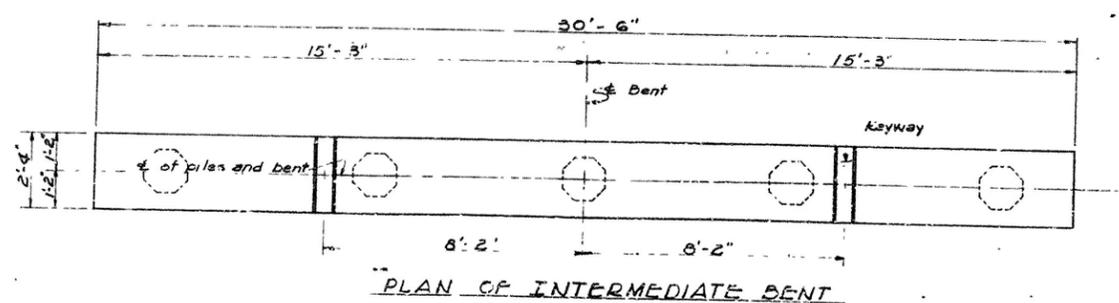
Note: Remove existing 95' Timber Bridge consisting of 5 spans with 2" x 4" laminated deck with concrete overlay & curb on Pile Bents. See Sec. 1006 of the standard specifications. Construct 75' Detour Bridge 40' upstream. Deck Elev. 98.2 See SP 1008-1.  
Concrete removed from existing bridge shall be placed at the proposed bridge ends as directed by the Engineer.



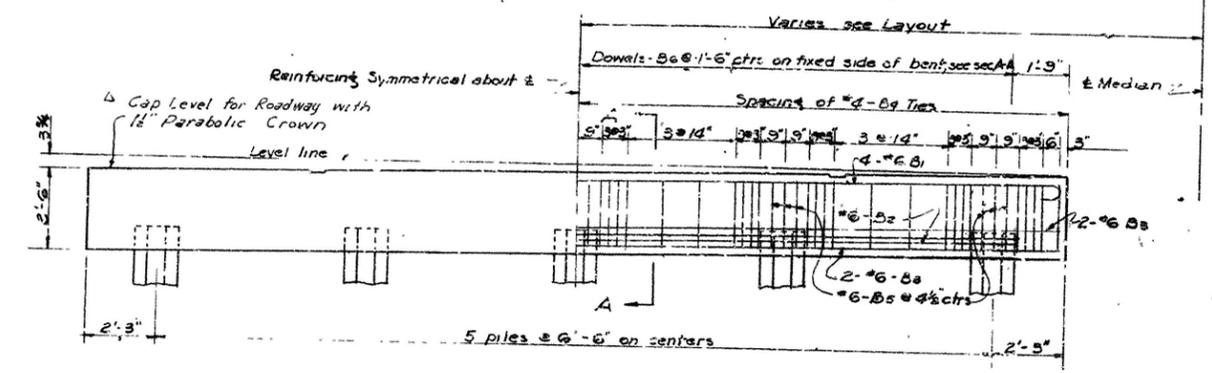
**LAYOUT OF BRIDGE OVER CLEAR CREEK**  
**ASHLEY CO. LINE - MONTICELLO**  
**BRIDGES & APPROACHES**  
**DREW COUNTY**  
**ROUTE 81 SEC. 3**  
**ARKANSAS STATE HIGHWAY COMMISSION**  
LITTLE ROCK, ARK.

DRAWN BY: JAS DATE: 6-24-64 SCALE: 1" = 10'-0"  
CHECKED BY: W.E.W. DATE: 6-25-64  
BRIDGE NO. 3935 DRAWING NO. 12969

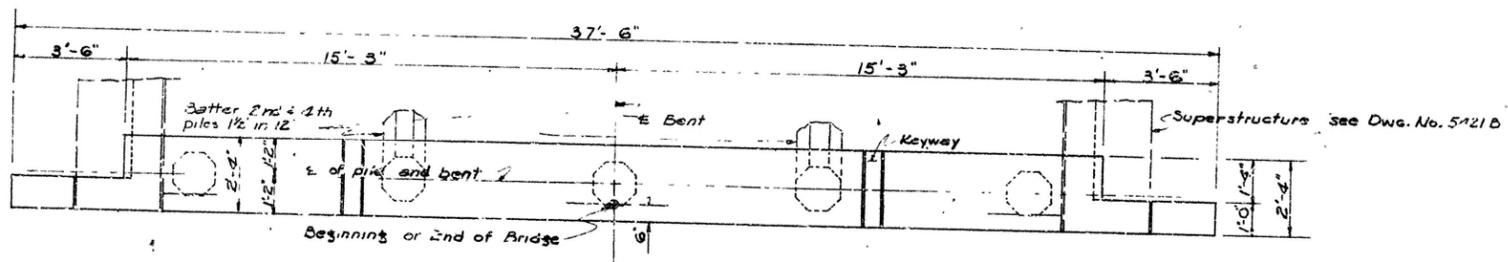
L.P. Carlson  
BRIDGE ENGINEER



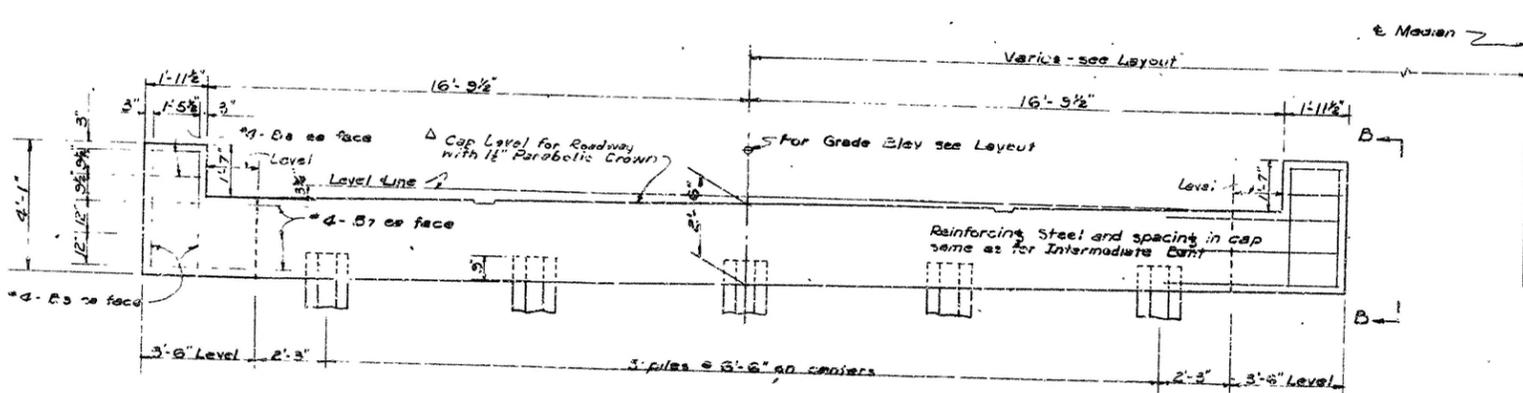
PLAN OF INTERMEDIATE BENT



ELEVATION OF INTERMEDIATE BENT

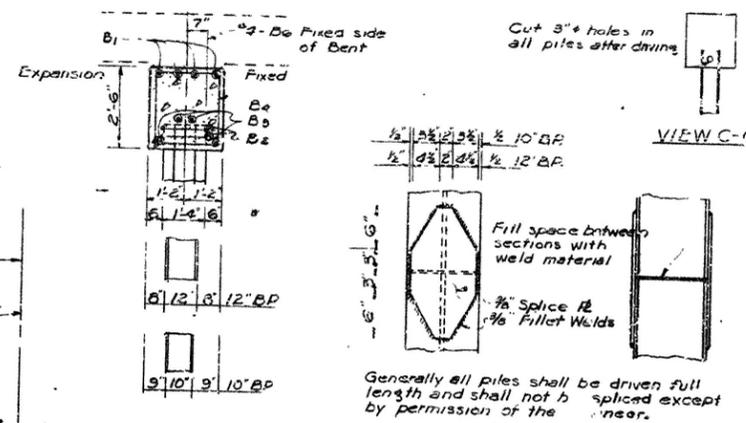


PLAN OF END BENT



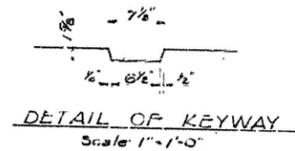
ELEVATION OF END BENT (BACK FACE)

NOTE: Reverse crown when the median is on the left.

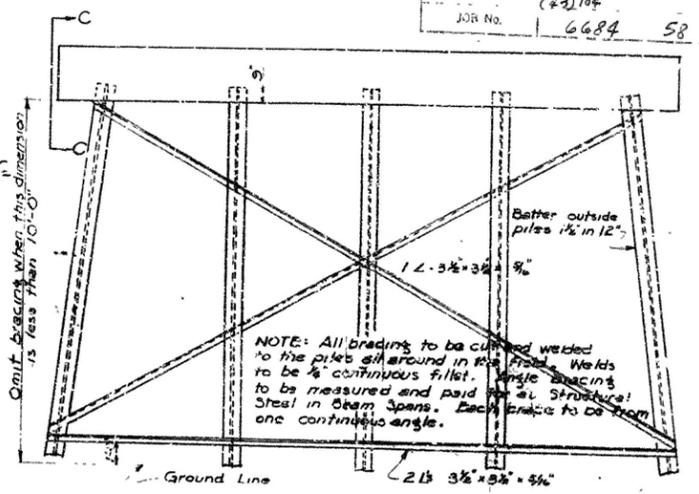


SECTION A-A

STEEL SPLICE DETAILS  
Scale 1"=1'-0"



DETAIL OF KEYWAY  
Scale 1"=1'-0"



TYPICAL INTERMEDIATE BENT - STEEL PILES  
No Scale

GENERAL NOTES

All concrete to be Class S and shall be poured in the dry. All exposed corners to be chamfered 1/4" unless otherwise noted.  
 Reinforcing steel to be deformed bars of intermediate grade unless otherwise noted by Special Provisions. Shop lists and bending diagrams are to be submitted for approval before fabrication is begun.  
 All piling shall be driven to a minimum capacity of 55 tons per pile.  
 Piling shall be either 10" H&E, 12" H&E, steel bearing piles or 16" octagonal precast concrete piles as shown on the layout.  
 Volume occupied by embedded pile heads will not be included in the pay quantities of concrete caps.  
 For Details of Standard 30'-0" R.C. Slab Spans see Drawing No. 5421 B  
 SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1959.

BAR LIST PER BENT

MARK	SIZE	NO. PER BENT		LENGTH	BENDING DIAGRAM
		END	INT		
B1	#6	4	4	31'-6"	[Diagram showing B1 bars]
B2	#6	4	4	31'-6"	
B3	#6	4	4	30'-1"	[Diagram showing B3 bars]
B4	#4	50	50	6'-11"	
B5	#6	15	15	6'-5"	[Diagram showing B5 bars]
B6	#4	18	18	2'-6"	
B7	#4	12	-	3'-0"	[Diagram showing B7 bars]
B8	#4	8	-	1'-8"	
B9	#4	6	-	3'-9"	[Diagram showing B9 bars]
B10	#4	6	-	3'-9"	

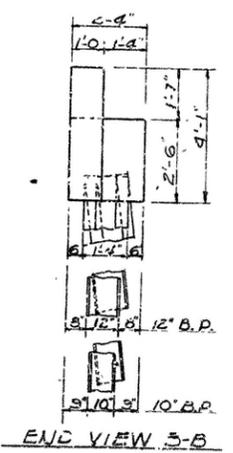
Dimensions are to centers of bars

DETAILS OF STANDARD PILE BENTS FOR STD. 30'-0" R.C. SLAB SPANS

28'-0" CLEAR ROADWAY 2 CURBS @ 1'-6"  
 ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.

DRAWN BY: [Signature] DATE: 7-16-57  
 TRACED BY: [Signature] DATE: [Signature]  
 CHECKED BY: [Signature] DATE: [Signature]  
 BRIDGE NO. DRAWING NO. 5421 A  
 File as Dwg No. 100.23.1



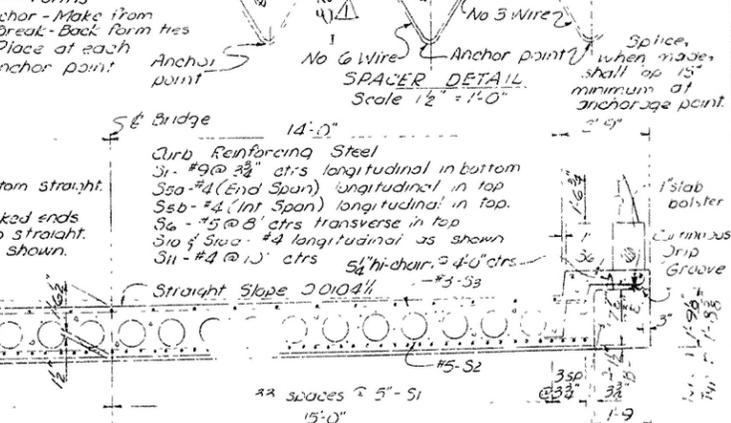
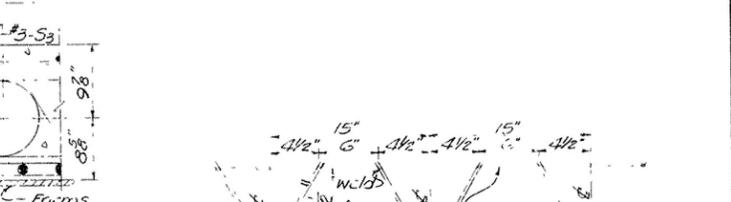
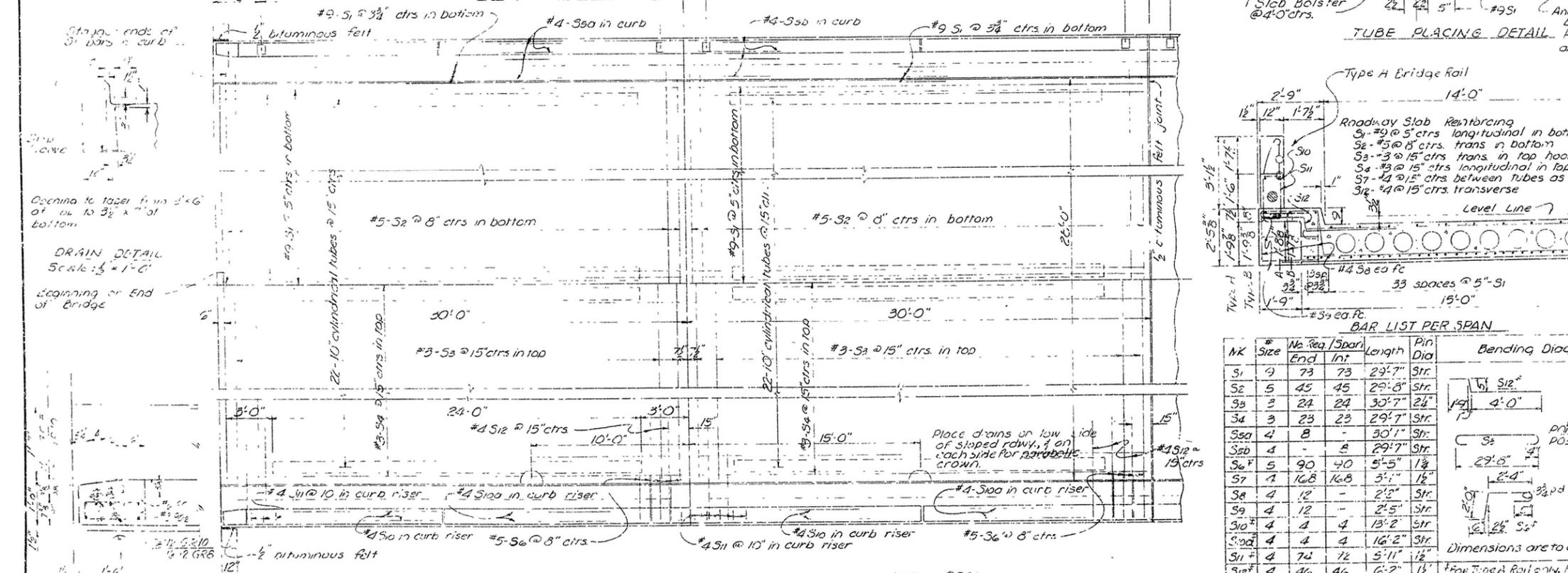
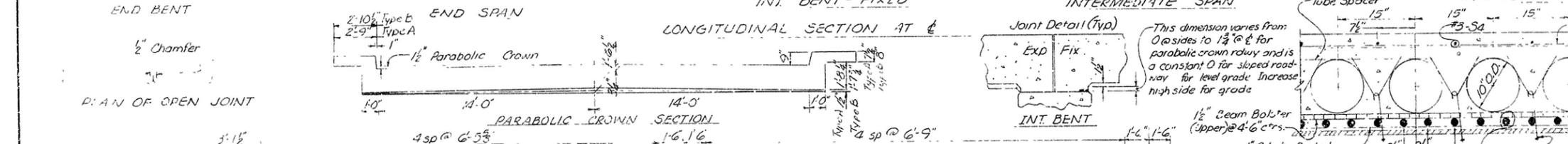
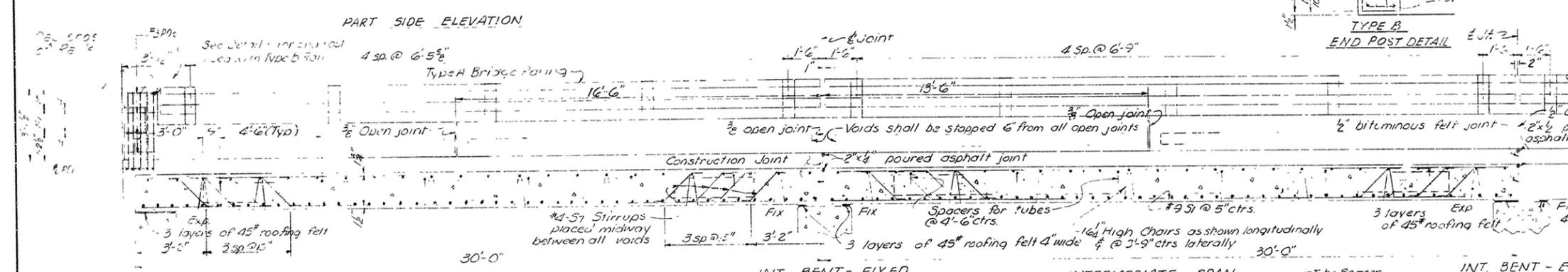
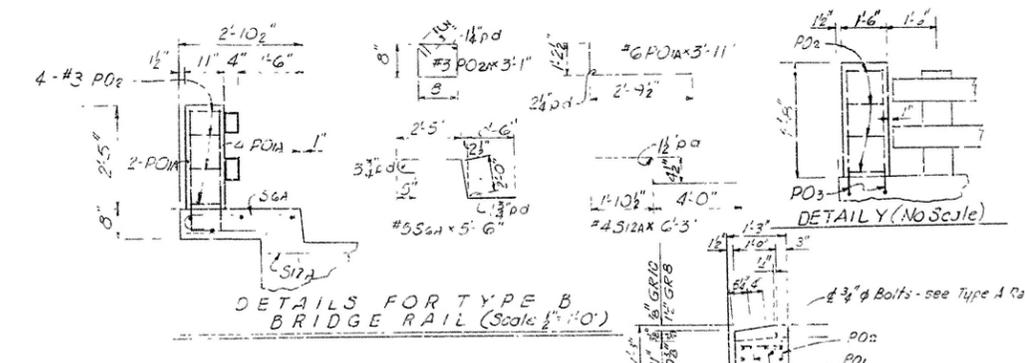
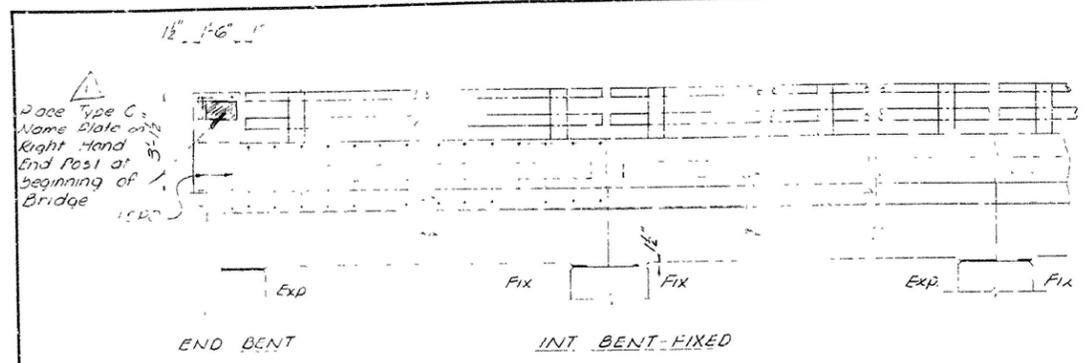
END VIEW 3-B

BRIDGE DESIGN ENGINEER

FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					

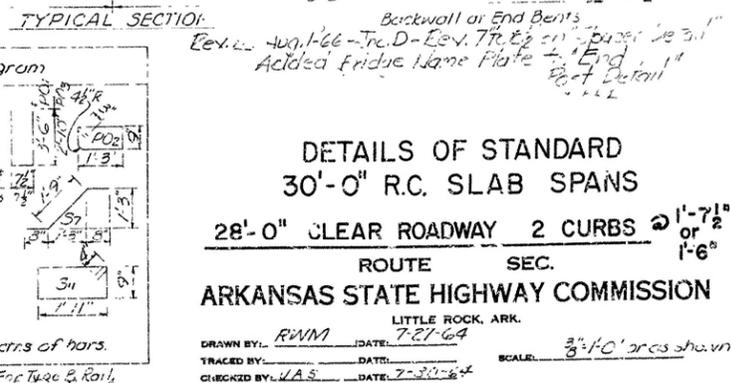
**GENERAL NOTES:**  
 All concrete to be Class S. All exposed corners to be chamfered 3/4" unless otherwise noted.  
 Reinforcing steel to be deformed bars of intermediate or hard grade. Shop lists and bending diagrams must be submitted and approved before fabrication is begun.  
 All cylindrical tubes used to form voids shall be moisture protected, laminated type construction, minimum thickness 0.225 for 10" tubes and 0.175" for 6" tubes, and shall be furnished complete with end closures.  
 All reinforcing 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 joints shall be measured and paid for as Class S Concrete.  
 For details of Bridge Railing see Drawg. No. 14993 or 14992 as shown on Bridge Layout.

**SPECIFICATIONS:** Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1959.  
**DESIGN SPECIFICATIONS:** AASHTO 1961  
 Design Live Loading: HS20 and Special Interstate Loading of two 20,000 lb axles 4'-0" on centers.  
 Load Distribution to Slab: Dead Load - 182 psf; Live Load - 0.174 wheels/ft width plus 30% impact.  
 Unit Stresses: Class S Concrete (n=10) 1,200 psi; Reinforcing Steel 20,000 psi



**BAR LIST PER SPAN**

BAR	Size	No. Req. (Spars)	Length	Pin Dia
S1	4	73	29'-7"	3/8"
S2	5	45	29'-8"	3/8"
S3	3	24	30'-7"	24"
S4	3	23	29'-7"	3/8"
S5a	4	8	30'-1"	3/8"
S5b	4	8	29'-7"	3/8"
S6	5	90	5'-5"	1 1/2"
S7	7	168	16'-8"	1 1/2"
S8	4	12	2'-5"	3/8"
S9	4	12	2'-5"	3/8"
S10	4	4	13'-2"	3/8"
S11	4	4	16'-2"	3/8"
S12	4	4	6'-2"	3/8"
S13	5	4	7'-7"	1 1/2"
P01	3	3	4'-5"	1 1/2"
P02	3	3	6'-3"	1 1/2"



**DETAILS OF STANDARD 30'-0" R.C. SLAB SPANS**  
 28'-0" CLEAR ROADWAY 2 CURBS @ 1'-7 1/2" or 1'-6"  
 ROUTE SEC.  
 ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.  
 DRAWN BY: RWM DATE: 7-21-64  
 CHECKED BY: JAS DATE: 7-20-64  
 BRIDGE NO. DRAWING NO. 15062

END POST DETAIL (Scale 1/2"=1'-0")  
 PART PLAN (Scale 1/4"=1'-0")  
 Revised: Added Type B Rail 3-5-65 RWM, Lck. FMH