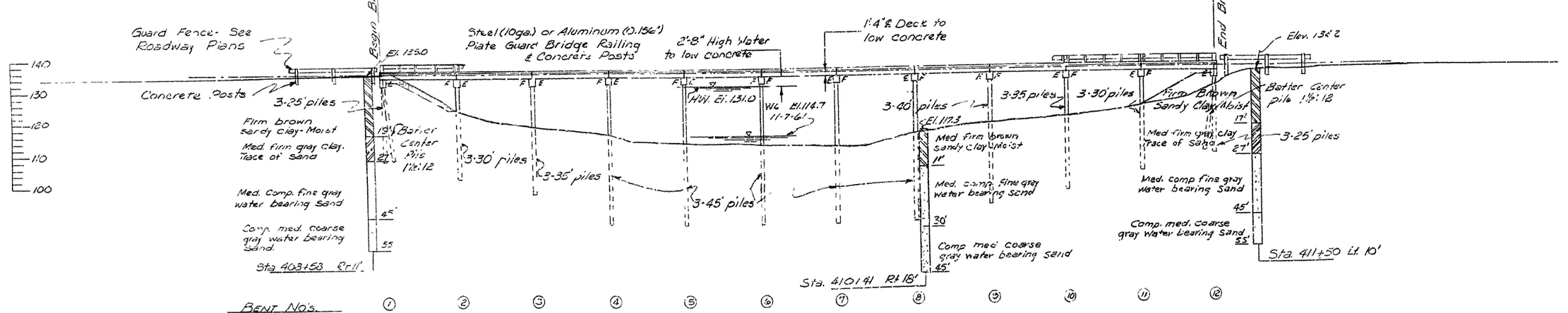


Note: Contractor to remove existing 277.3' treated timber bridge with 4" concrete deck overlay. Existing roadway 18'±. See Section 1006 of the Specifications. Construct a 225' detour bridge approx. 50' downstream. Deck Elev 134.0 See Special Provision 1008-1.

PLAN

Total length of bridge = 275'-0"  
11-25' R.C. Slab Spans

Level Grade - & Deck Elev 135'-0"



ELEVATION

Drainage Area - 157± a. i.  
C = 0.25

GENERAL NOTES

Bench Mark - Iron pin marked 402 East End of Bridge 45' South Highway No. 4. Elevation 130.31.  
All piling to be 16" Octagonal Precast Concrete Piles driven to a minimum bearing capacity of 3. tons per pile, and a minimum penetration of 20 feet below the natural ground line.  
Lengths of piling shown are assumed for estimating quantities only; actual lengths to be determined in the field. Drive one 35 ft. test pile in Bent No. 2 and 11 and one 50 ft. test pile in Bent No. 7.  
For details of 25' R. C. Slab Spans see Drawing No. 5463-E.  
For details of Pile Bents see Drawing No. 5463-F  
Riprap Bridge ends with concrete removed from existing deck as directed by the Engineer. All remaining concrete shall be disposed of in a manner set forth in the Specifications.

Loading:	H-15	AASHTO	1957
Stresses:	Class 3 Concrete (n=10)		1,200 psi
	Reinforcing Steel		20,000 psi

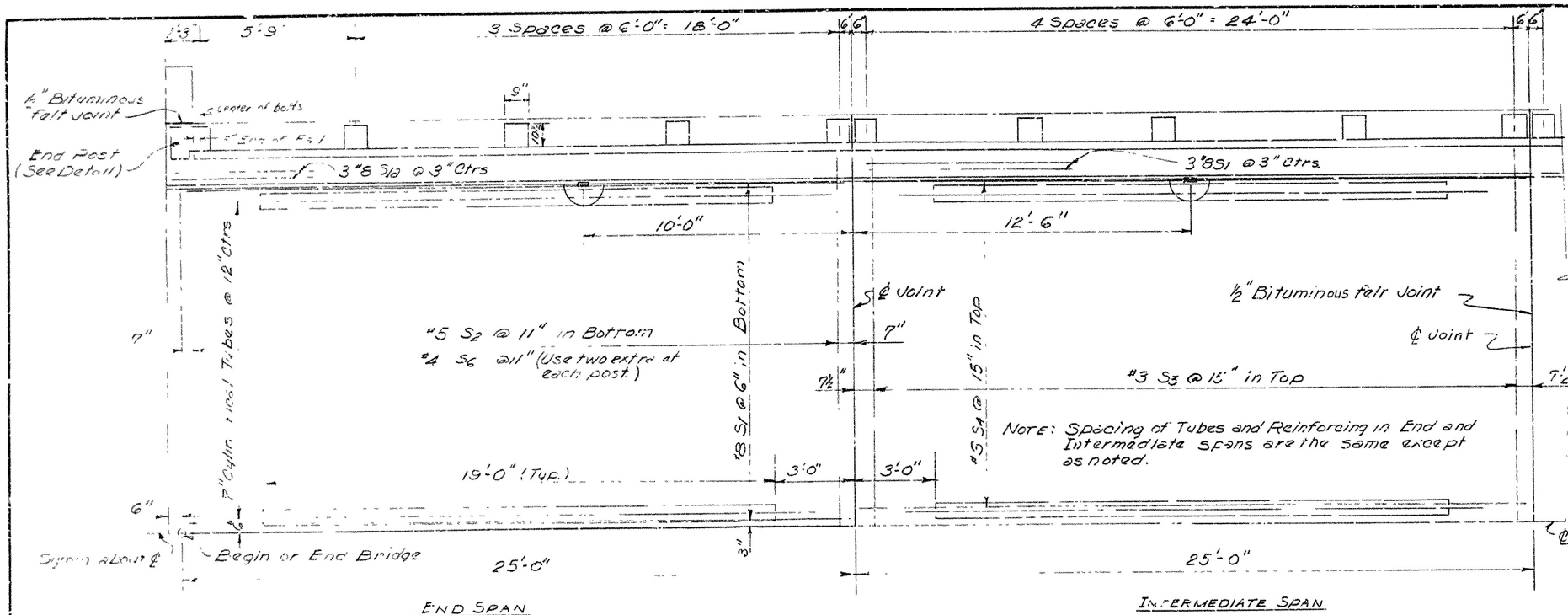
SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1959, designated Special Provisions

LAYOUT OF BRIDGE  
OVER BOGGY BAYOU  
CANAL 43, BOGGY & LITTLE BOGGY BAYOU  
BRIDGES & APPROACHES  
DESHA COUNTY  
ROUTE 4 SEC. 17  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

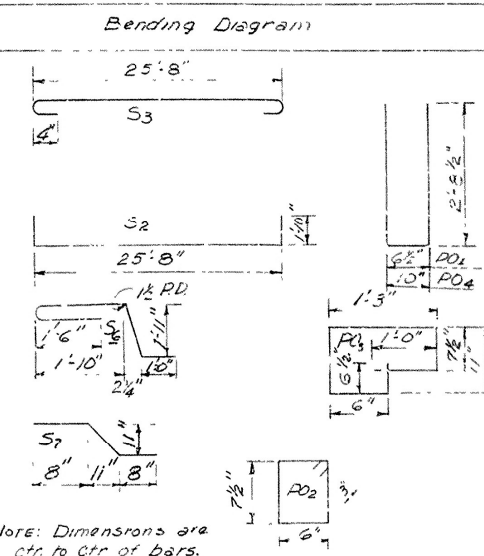
DRAWN BY: C.E.V. DATE: 11-29-61  
TRACED BY: DATE: 11-30-61  
CHECKED BY: F.R.B. DATE: 11-30-61  
SCALE: 1"=20'  
BRIDGE NO. 3593 DRAWING NO. 11715

J. P. Dickson  
BRIDGE ENGINEER

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



Mark	Size	No. Required		Length		Pin
		End	Inter.	End	Inter.	Dia.
S <sub>1</sub>	8	48	54	24'-8"	24'-8"	Str
S <sub>10</sub>	8	6	-	25'-2"	-	Str
S <sub>2</sub>	5	27	27	29'-3"	29'-3"	1 1/2"
S <sub>3</sub>	3	20	20	25'-7"	26'-7"	2 1/2"
S <sub>4</sub>	3	20	20	24'-8"	24'-8"	Str
S <sub>5</sub>	3	8	-	25'-2"	-	Str
S <sub>5A</sub>	4	-	8	-	24'-8"	Str
S <sub>6</sub>	4	74	74	6'-5"	6'-5"	3"
S <sub>7</sub>	4	184	184	2'-7"	2'-7"	1 1/2"
S <sub>8</sub>	4	12	-	2'-0"	-	Str
S <sub>9</sub>	4	12	-	1'-10"	-	Str
*PQ <sub>1</sub>	3	18	20	5'-10"	5'-10"	1 1/2"
*PQ <sub>2</sub>	3	24	30	2'-8"	2'-8"	1 1/4"
*PQ <sub>3</sub>	3	6	-	4'-7"	-	1 1/4"
*PQ <sub>4</sub>	5	4	-	6'-1"	-	1 1/2"



NOTE: Dimensions are  
etc to etc of bars.

\* Non-Pay Item

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 approval secured before fabrication is begun.

✓ All cylindrical tubes used to form voids shall be of moisture protected, laminated type construction, minimum thickness 0.200, and shall be furnished complete with end closures.

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 a sufficient size and number to prevent displacement during the course of construction, but in no case of lesser design than that shown.

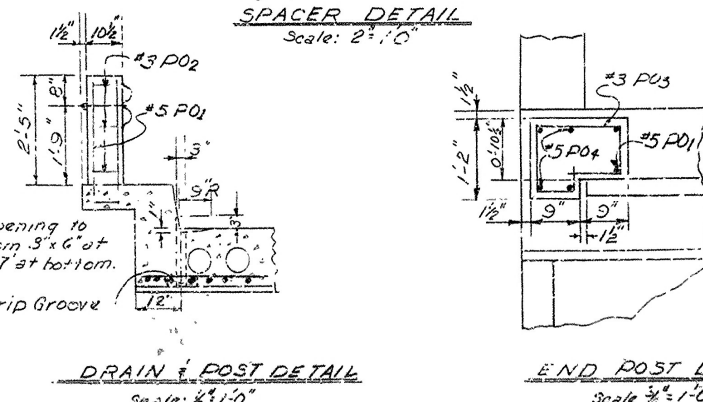
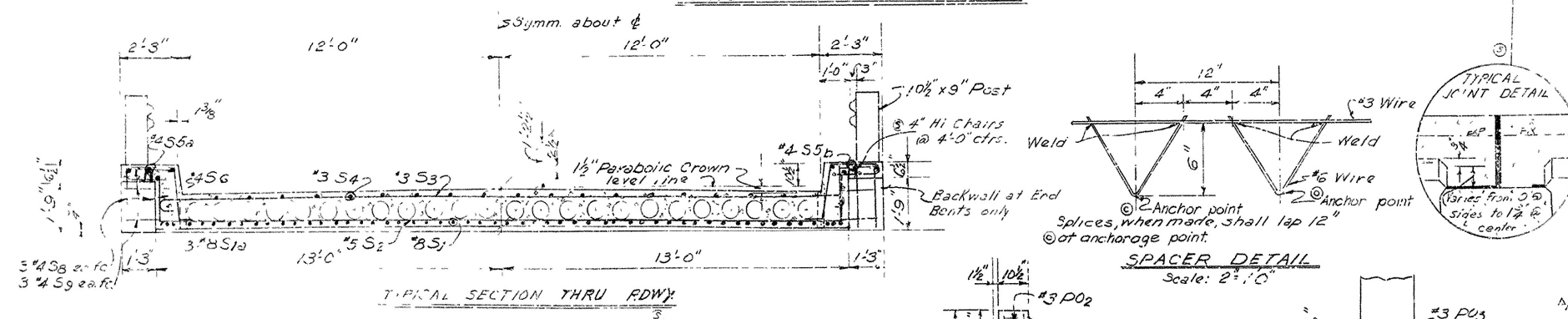
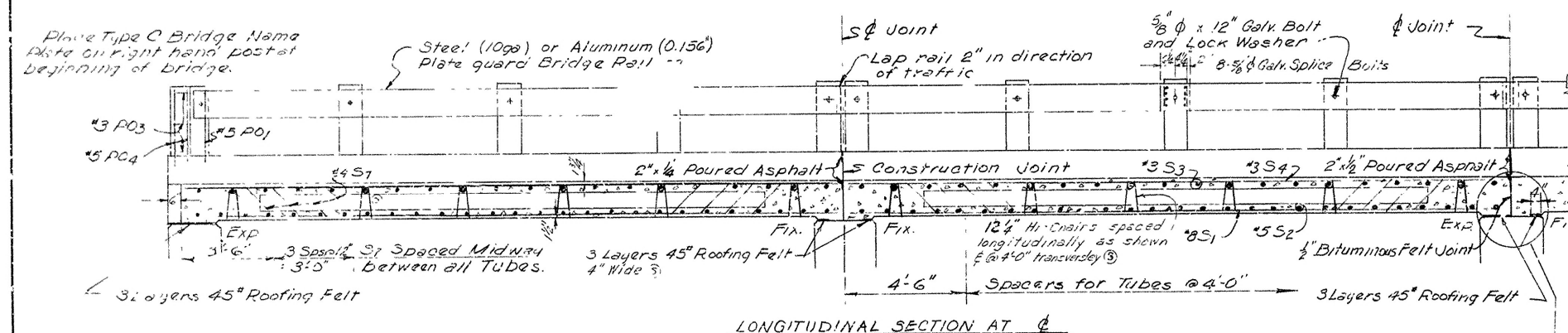
Wire supports for reinforcing bars will not be paid for directly, but will be considered subsidiary to the item "Reinforcing Steel".

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 "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.

Steel or Aluminum Plate Guard shall be of the type shown or an equivalent rigid type as approved by the Engineer. The roll, including all concrete post... fastenings shall be paid for at the unit price bid per linear foot for "Steel or Aluminum Plate Guard Bridge Railing".



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

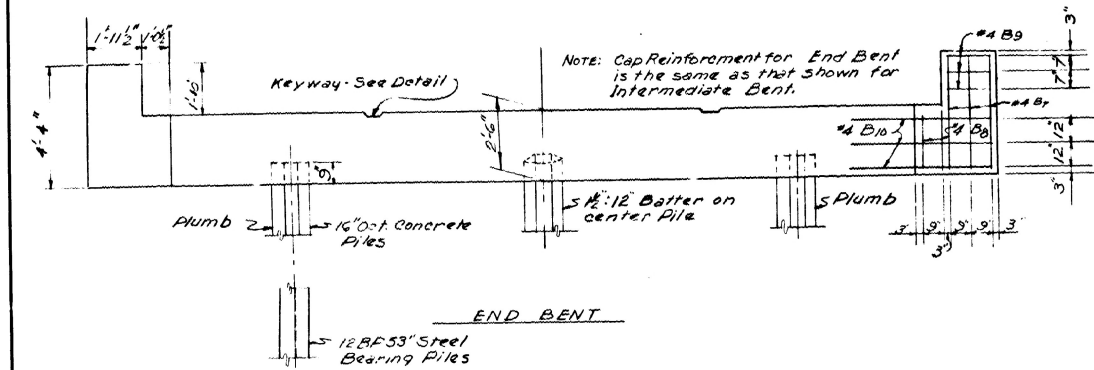
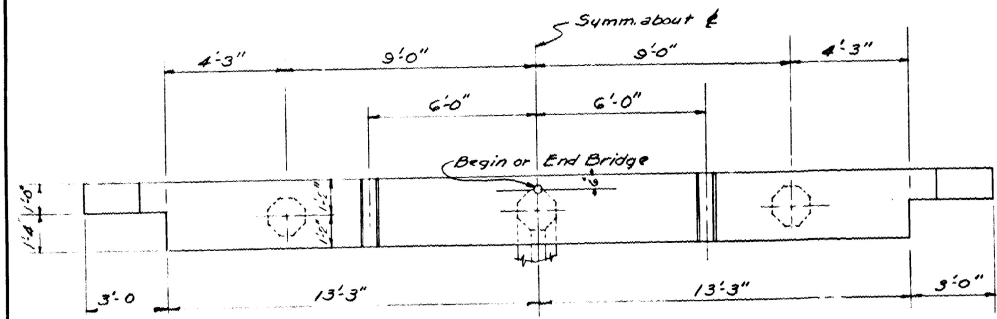
DESIGN SPECIFICATIONS: AASHTO 1961<sup>Δ</sup>  
 Design Live Loading: H-15  
 Load Distribution to Slab: Dead Load; 150 #/ft  
 Live Load; 0.184<sup>Δ</sup> Wheels per foot of width plus 30% impact  
 Unit Stresses: Class S Concrete (n=10) 1,200 psi  
 Reinforcing Steel 20,000 psi

- A Revised: 3-30-62 ERB Cld Rev 4-2-62  
" Tube Spacer and anchor location 4.6 4-25-62
- Q Rev. Tube Note. 9-10-62 DR.
- ⑤ Revised: 5-6-63 JAS Remarks See page 5  
Rev Bar Accessory 1.2 XT 4-6-63
- ⑩ Revised 7-25-63 JWG 7-31-63 JAS  
Included anchorage points, changed  
heavy bolters in #10 ribs

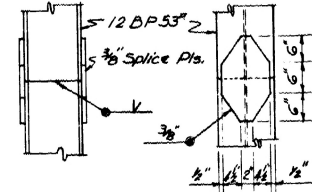
DETAILS OF STANDARD  
 25'-0" R.C. SLAB SPANS (WITH)  
 24'-0" CLEAR ROADWAY 1'-0" CURBS  
 ed  
 ROUTE SEC.  
 ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.  
 DRAWN BY: M.B. DATE: 9-7-61  
 TRACED BY: DATE: SCALE: 3/8" = 1'-0" 2" x 36" not used  
 CHECKED BY: J.W.E. DATE: 2-12-61  
 BRIDGE NO. DRAWING NO. 5463-F

DRAWN BY: U.B. DATE: 9-7-61  
 TRACED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ SCALE: 3/8" = 1'-0" as noted  
 CHECKED BY: gm DATE: 9-12-61  
 BRIDGE NO. \_\_\_\_\_ DRAWING NO. 5463-F

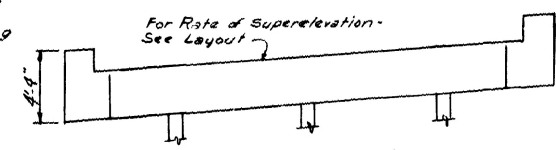
FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					



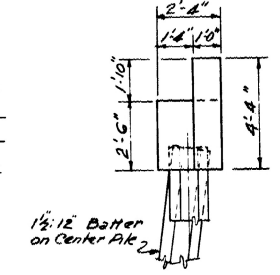
NOTE: The contractor may for his convenience and at his own expense provide as many as three splices per pile for steel bearing piling. Minimum spacing between splices shall be 5 feet.



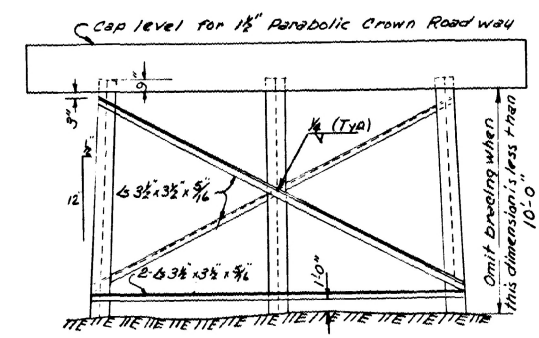
PILE SPLICE DETAIL  
Scale: 3/4" = 1'-0"



ELEVATION END BENT FOR SUPER-ELEVATED SPANS  
Scale: 1" = 5'-0"

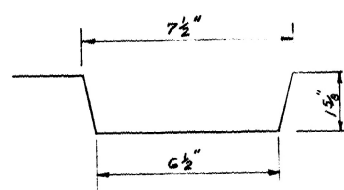
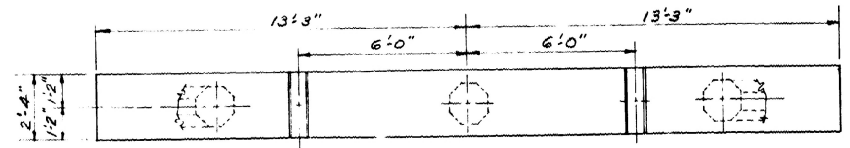


END VIEW

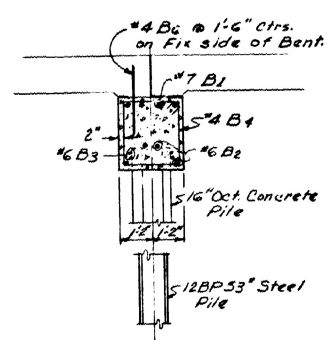
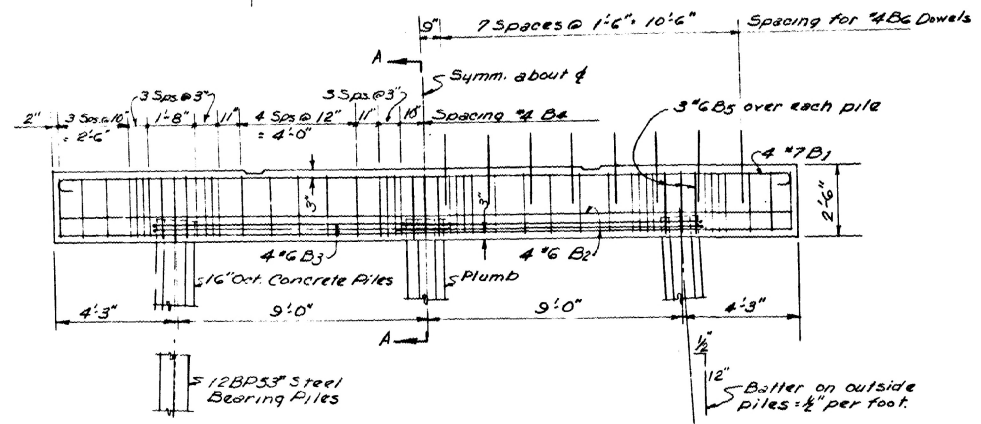


INTERMEDIATE BENT - STEEL PILES  
Scale: 1/4" = 1'-0"

NOTE: The lengths of bracing members shall be determined in the field. Each member shall be one continuous angle and shall be welded to the steel bearing piles as shown. Angle bracing shall be measured and paid for as "Structural Steel in Beam Span".

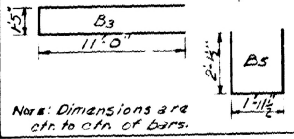


DETAIL OF KEYWAY  
Scale: 3/8" = 1"



SECTION A-A

BAR LIST					
Mark	Size	No. Required	Length	Pin Dia.	Bending Dia.
B1	#7	4	27'-10"	5/8"	
B2	#6	4	26'-2"	5/8"	
B3	#6	4	23'-4"	2 1/2"	
B4	#4	40	8'-9"	1/2"	
B5	#6	9	6'-2"	2 1/2"	
B6	#4	*	2'-6"	5/8"	
END BENT ONLY					
B7	#4	12	4'-0"	5/8"	
B8	#4	8	2'-0"	5/8"	
B9	#4	12	1'-7"	5/8"	
B10	#4	12	5'-0"	5/8"	



**GENERAL NOTES**  
All concrete to be Class R and to be poured in the dry. 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 are to be submitted and approval secured before fabrication is begun.  
All piling shall be driven to a minimum capacity of 30 tons per pile. Piling shall be either 12BP53 steel bearing piles, or 18" octagonal precast concrete piles as shown on the layout.  
For details of Standard 25" R.C. Slab Span see Drawing No. 5463F.  
For details of Standard 19" R.C. Slab Span see Drawing No. 5470.

\* 1/6 Req'd. for Fix-Exp.  
32 Req'd. for Fix-Fix.

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

Revised pile splice note 2-23-62 JDB  
Revised Title (removed for Void Type Spans) F.E. 7-31-63  
Revised to include 19'-0" span 7-24-63 JWG  
Revised wing for 9' above gutter 8-2-63 JWG, Ch. DRL

**DETAILS OF  
STANDARD PILE BENTS  
19'-0" TO 25'-0" R.C. SLAB SPAN  
24'-0" CLEAR ROADWAY - 1'-0" CURBS**

**ROUTE SEC.  
ARKANSAS STATE HIGHWAY COMMISSION**

LITTLE ROCK, ARK.  
DRAWN BY: M.B. DATE: 9/19/61  
TRACED BY: DATE: 9/27/61  
CHECKED BY: DATE: 9/27/61  
BRIDGE NO. DRAWING NO. 5463-F