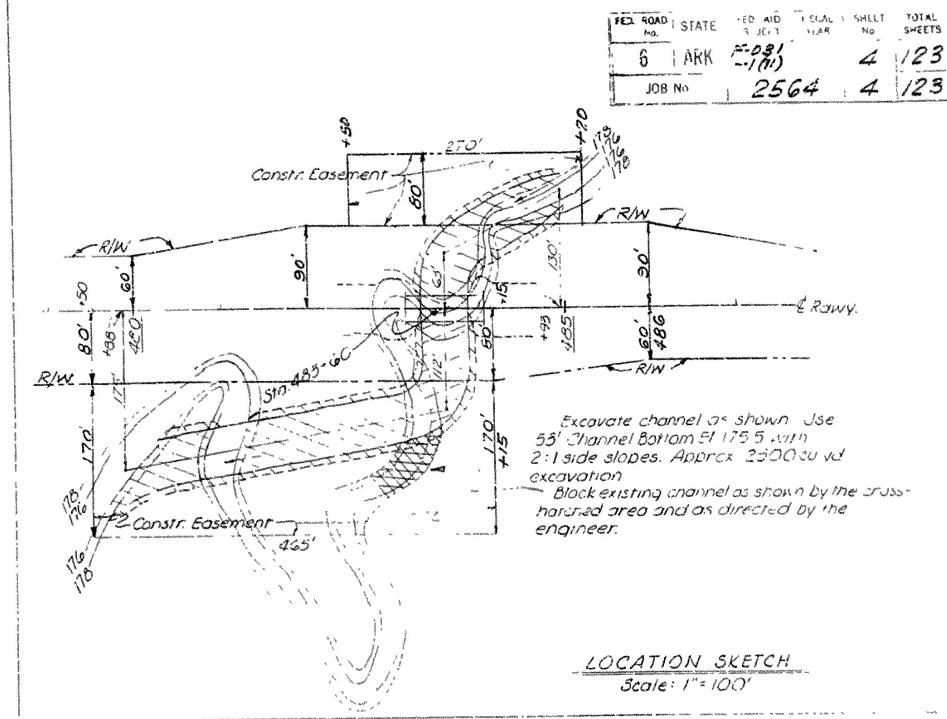
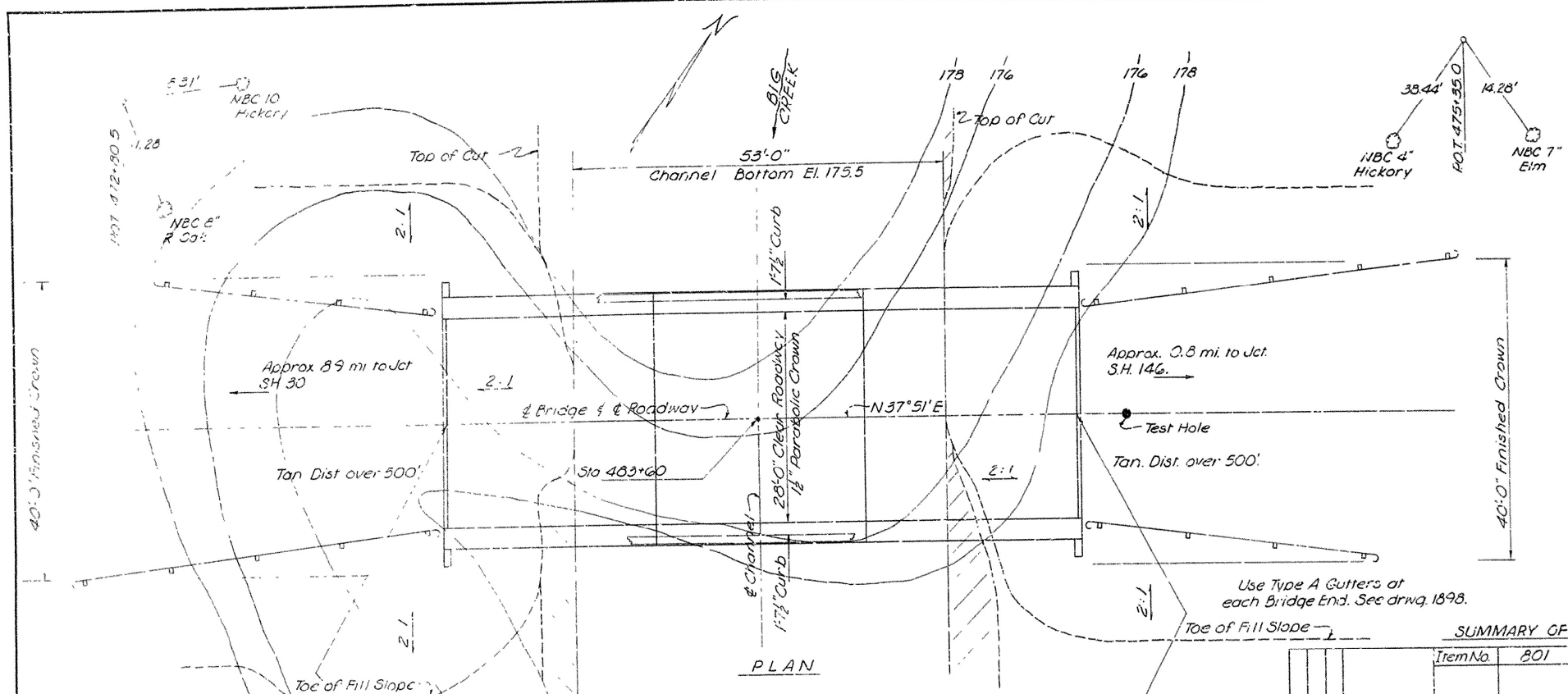
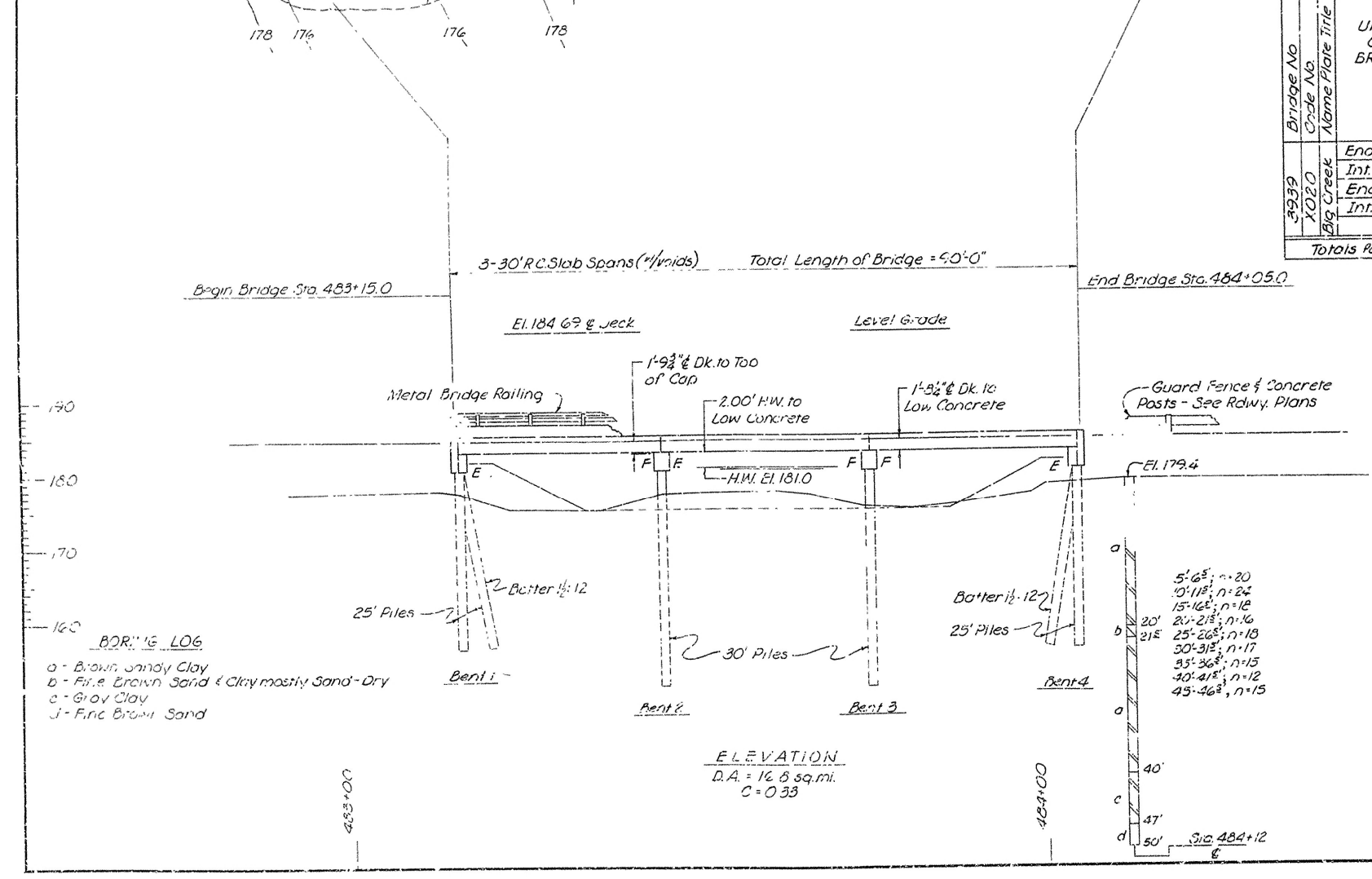


FED. ROAD No.	STATE	ACED MID 9 JUL 73	TOTAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK	2081 -1(11)		4	123
JOB No		2564		4	123



Slope 1

SUMMARY OF BRIDGE QUANTITIES - JOB 2564												
Bridge No.	Crd No.	Name Plate Title	UNIT OF BRIDGE	ItemNo.	BO1	SP 802	SP 802	SP 803	SP 804	SP 804-G	SP 803 (Alt #1) SP 803 (Alt #2)	SP 812
				Item	Common Excavation for Structures	Class A Concrete	Class S Concrete	Reinforcing Steel	Precast Concrete Piling (16" Oct)	Providing Equipment for Driving Test Piles	Metal (Aluminum) Bridge Railing (Alt #1) Metal (Steel) Bridge Railing (Alt #2)	Bridge Name Plates (Type C)
			Unit		Cu Yd.	Cu Yd.	Cu Yd.	Lb.	Lin Ft	Comp. Item	Lin Ft	Plate
3939	X020	Big Creek	End Bents 1 & 4		50		14.70	2150	250			1
			Int. Bents 2 & 3				12.78	2092	305			
			End Spans 1 & 3				97.96	21,846			116	
			Int. Span 2				48.26	10,332			50	
			Totals For Br No 3939	50	-	173.70	36,920	555	100%	176	1	



GENERAL NOTES

Bench Mark-Nail in Root 24" Sweet Gum 28' Rt. Sta. 478 + 02. Elevation 177.88.

Exposed corners to be chamfered 2/4" unless otherwise noted.

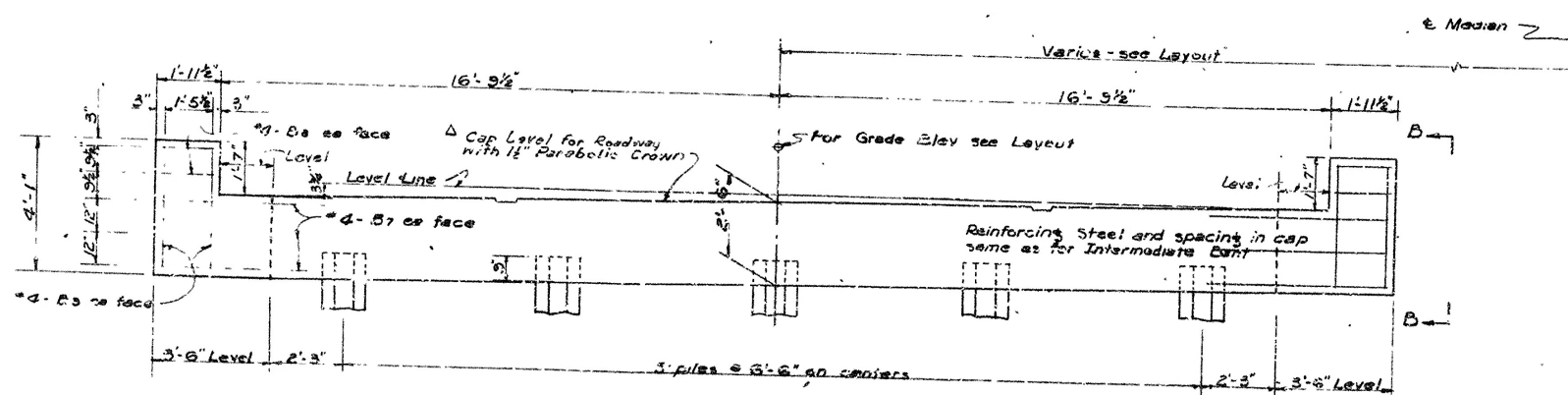
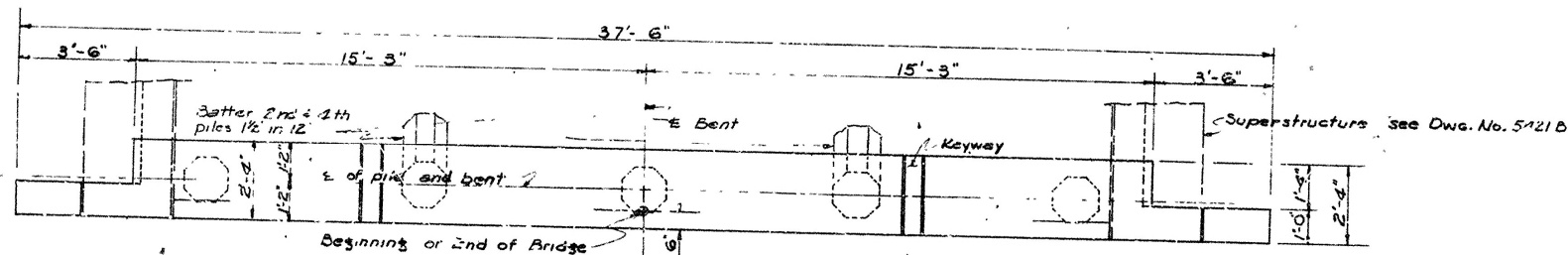
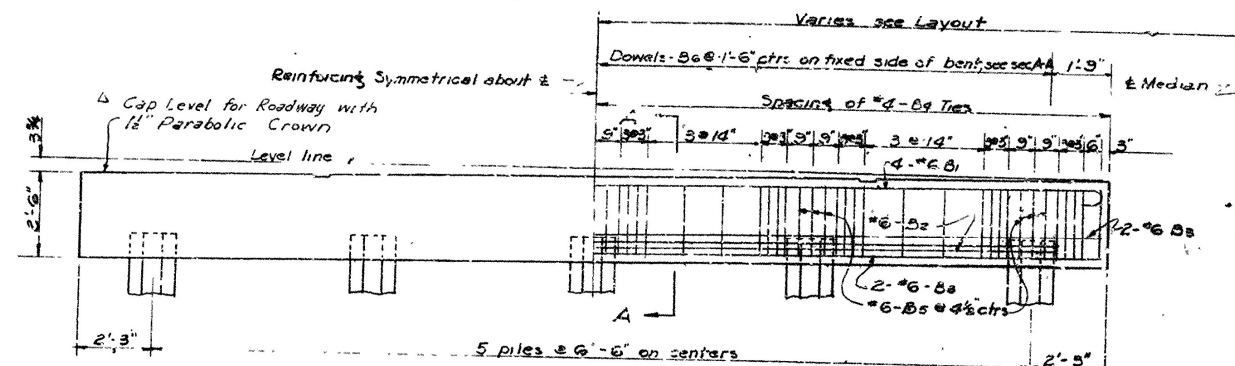
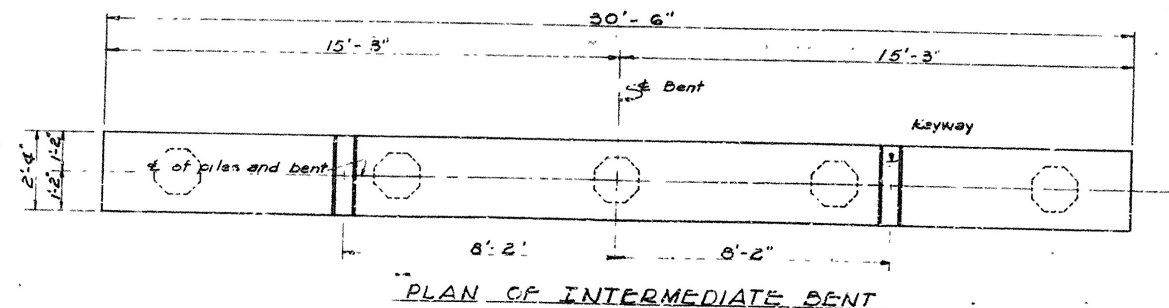
All piling shall be 18" octagonal precast concrete and shall be driven with an approved air, steam or diesel hammer to a minimum bearing capacity of 35 tons per pile, and to a minimum penetration 20' below the ground line. Drive one 35' test pile in Bent 2.

Lengths of piling shown are assumed for estimating quantities only. Actual pile lengths to be determined in the field. Piles in end bents to be driven after embankment is in place.

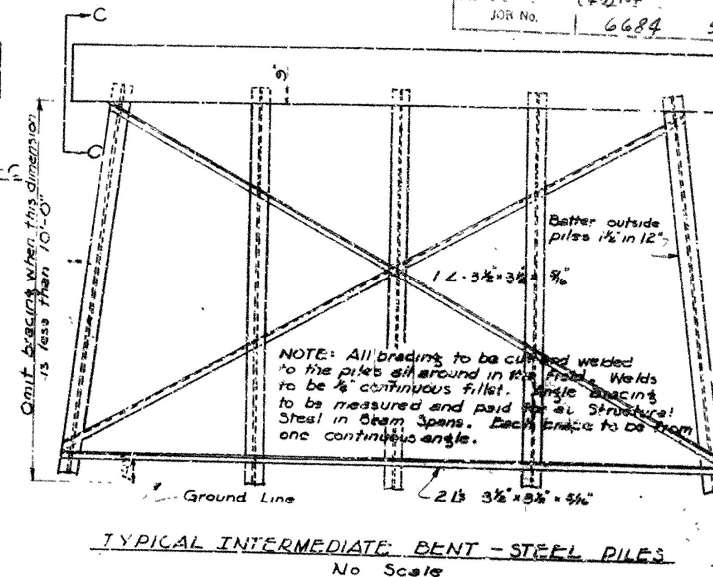
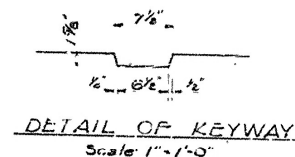
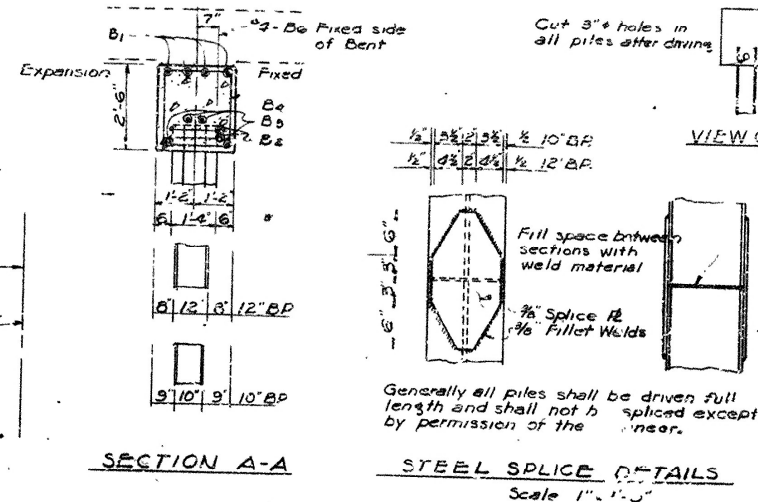
For details of substructure see dwg. no. 5421A.
For details of superstructure see dwg. no. 13082.
For details of 18" Octagonal Precast Concrete Piles see dwg. no. 2382.

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

LAYOUT OF BRIDGE OVER
BIG CREEK
ST. CHARLES - WEST
ARKANSAS CO.
ROUTE 1 SEC. 5
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, AR.
DRAWN BY: W.H. DATE: 2-22-64
TRACED BY: _____ DATE: _____ SCALE: 1" = 10'
CHECKED BY: W.H. DATE: 2-24-64
BRIDGE NO. 3939 DRAWING NO. 13017



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



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&B, 12" H&B, 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. 5421B.
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	3'-6"	
B2	#6	4	4	3'-6"	
B3	#6	4	4	30'-1"	
B4	#2	50	50	6'-11"	
B5	#6	15	15	6'-5"	
B6	#4	-	38	2'-6"	
B7	#4	12	-	5'-0"	
B8	#4	8	-	1'-8"	
B9	#4	6	-	3'-9"	
B10	#4	-	12	1'-8"	
B11	#4	-	12	1'-8"	
B12	#4	-	12	1'-8"	

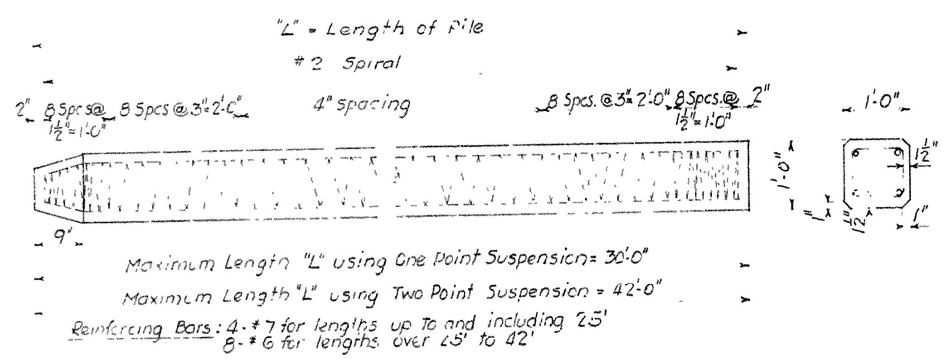
Dimensions are to centers of bars

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

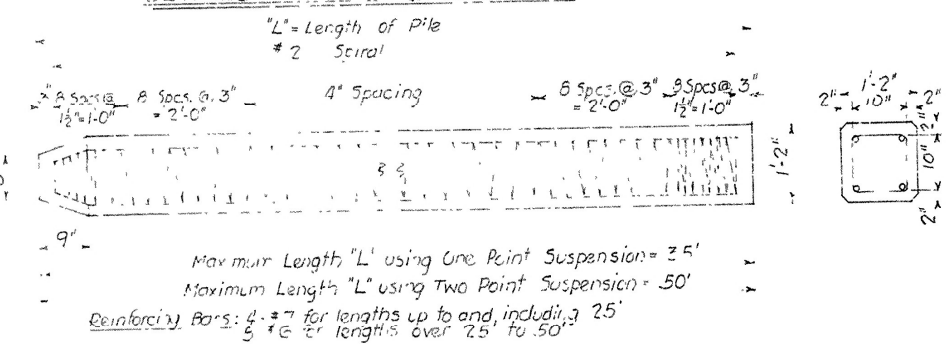
28'-0" CLEAR ROADWAY 2 CURBS @ 1'-6"
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

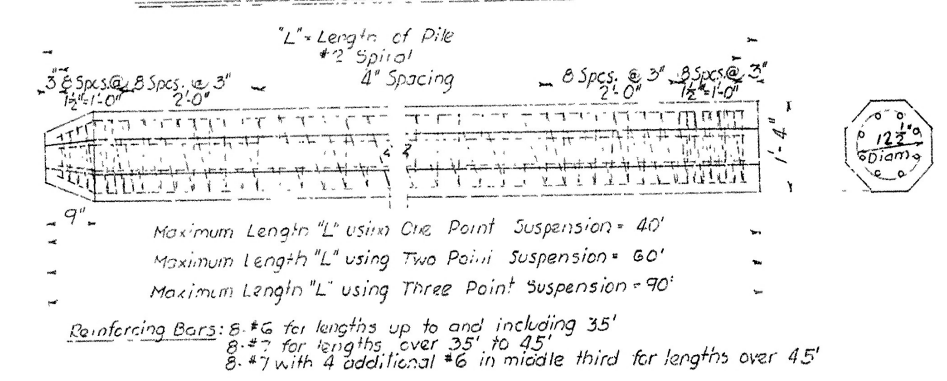
DRAWN BY: *[Signature]* DATE: 7-16-57
TRACED BY: *[Signature]* DATE: 6-14-58
CHECKED BY: *[Signature]* DATE: 6-14-58
BRIDGE NO. *[Blank]* DRAWING NO. 5421A
FILE 33 DWS NO. 100234



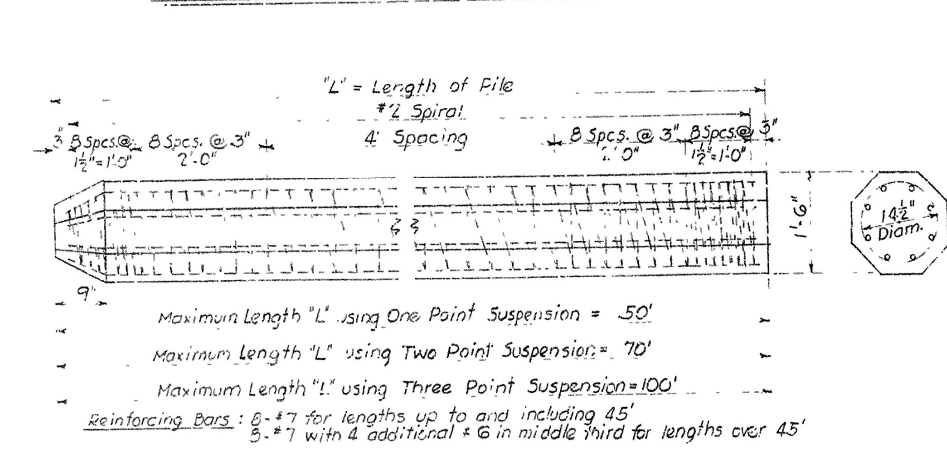
DETAILS OF 12" SQUARE PILE



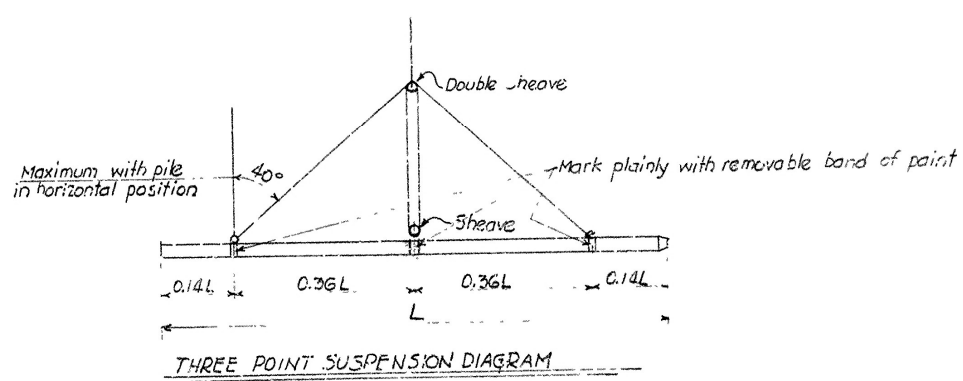
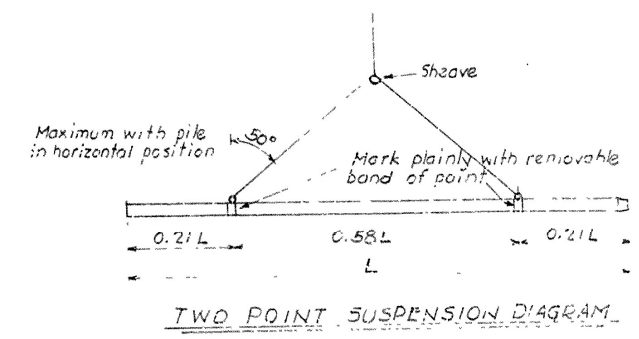
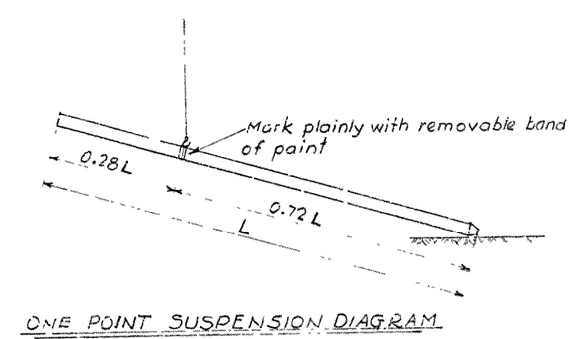
DETAILS OF 14" SQUARE PILE



DETAILS OF 16" OCTAGONAL PILE



DETAILS OF 18" OCTAGONAL PILE



Prestressing Alternate:-

As an alternate to the reinforcement shown, these piles may be prestressed by the use of steel strands of high tensile cold-drawn uncoated stress-relieved wire strands having an ultimate tensile strength of not less than 250,000 p.s.i. and an elongation at rupture of not less than 3% in 10'; number and size of strands and prestressing load to be as follows:-

Pile Size	Wire Strands No. Nominal Dia.	*Prestressing Force Per Strand
12" Square	8 3/16"	10150*
14" Square	12 3/16"	10150*
16" Octagonal	12 3/8"	14000*
18" Octagonal	16 3/8"	14000*

* Prestressing force to be not more than 0.7 of the ultimate value of strand.

To permit splicing for buildup, where necessary, of prestressed piles, reinforcing as shown in details shall be provided in butt end of pile for a length of 5' and 6' for No. 6 & No. 7 bars respectively.

GENERAL NOTES

All concrete to be Class "S"
Longitudinal reinforcing steel shall be deformed bars of intermediate grade, unless otherwise modified by Special Provisions. Spiral shall be formed from plain round billet steel reinforcing bars.
SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1959.

DETAILS OF STANDARD PRECAST CONCRETE PILES

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

DRAWN BY: L.W.H. DATE: 7-26-56
TRACED BY: J.A. DATE: 4-27-58
CHECKED BY: D.L.K. DATE: 7-27-56
REVIEWED BY: J.M. DATE: 4-2-58
BRIDGE NO. DRAWING NO. 2382

Revisions:-
Provisions for prestressing 1-6-58 H.S.
Prestressing strands, forces 4-14-58 H.B.
Number Prestressing Strands 16" Pile 10-31-58 H.B.
General Notes 2-26-60 A.J.

J.P. Carlson
BRIDGE DESIGN ENGINEER

See Revised 5-22-61