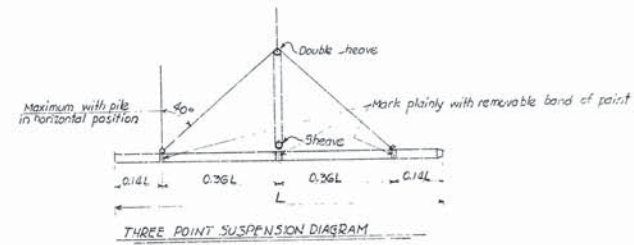
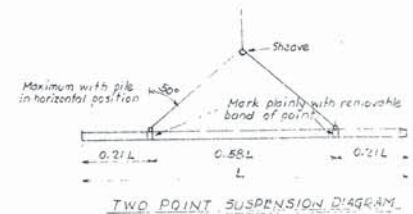
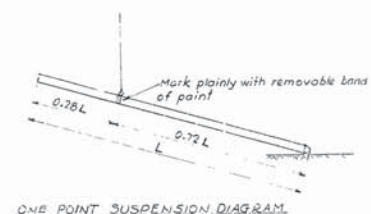


DETAILS OF 16" OCTAGONAL PILE



Prestressing Alternates:-

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.	Strand Dia.	Prestressing Force Per Strand
12" Square	6	3/16"	10150*
14" Square	7	3/8"	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 prestressing pins, reinforcing as shown in details, shall be provided in butt end of pile for a length of 3' and 6' for No. 6 & No. 7 bars respectively.

GENERAL NOTES

All concrete to be Class "B".
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 1958.

DETAILS OF STANDARD PRECAST CONCRETE PILES

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

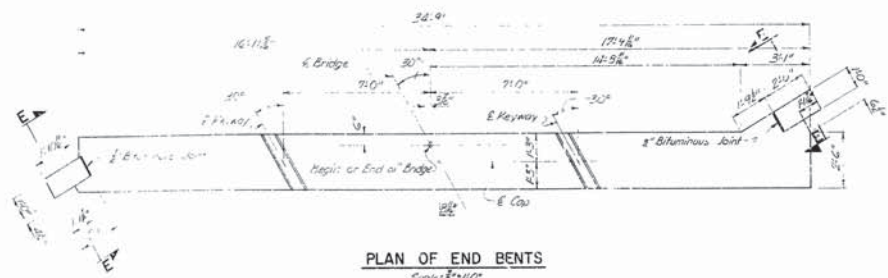
DESIGNED BY: DATE: 1-26-55
CHECKED BY: DATE: 4-17-55
REVIEWED BY: DATE: 7-27-55
BRIDGE NO. DATE: 4-2-55
DRAWING NO. 2382

C.P. Carls
ENGINEER

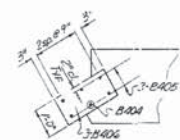
See Revised 5-22-61



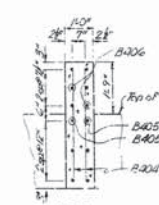
REVISED	DATE	BY	CHKD.	FILE NO.	FILE DATE	FILE YEAR	SHEET NO.	TOTAL SHEETS
6	1/17							
BENT STD.								



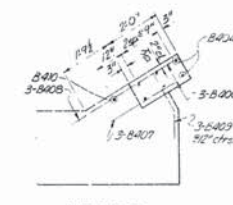
PLAN OF END BENTS
Scale: 1/8"=1'-0"



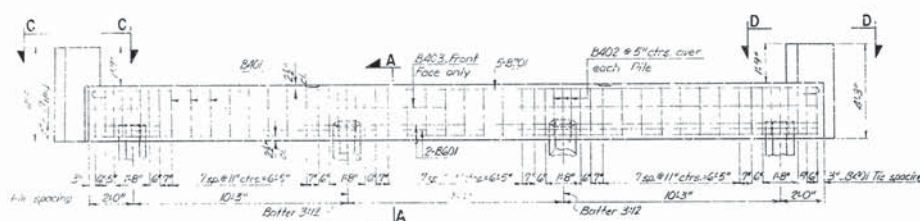
VIEW C-C
Scale: 1/8"=1'-0"



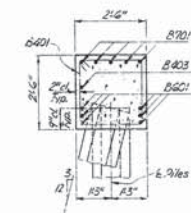
SECTION C-C
Scale: 1/8"=1'-0"



VIEW D-D
Scale: 1/8"=1'-0"



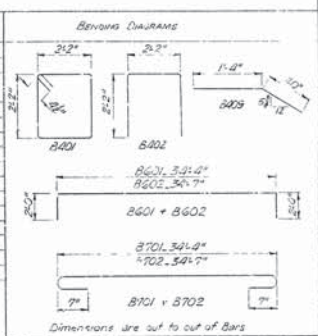
ELEVATION OF END BENTS
Scale: 1/8"=1'-0"



SECTION A-A
Scale: 1/8"=1'-0"

BAR LIST EACH BENT

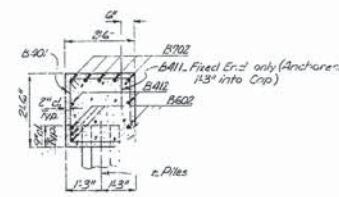
MAP	NO. REQ'D	INT. BENT	LENGTH	FIN DIA.
B401	42	25	71'-2"	2"
B402	12	15	61'-3"	2"
B403	1	-	54'-4"	5/8"
B404	12	-	51'-10"	5/8"
B405	6	-	51'-9"	5/8"
B406	12	-	11'-7"	5/8"
B407	3	-	21'-0"	5/8"
B408	3	-	41'-4"	5/8"
B409	3	-	21'-0"	5/8"
B410	1	-	21'-4"	5/8"
B411	-	-	21'-6"	5/8"
B412	-	-	34'-7"	5/8"
B413	6	-	38'-11"	5/8"
B414	-	-	38'-4"	5/8"
B415	5	-	34'-0"	5/8"
B416	-	-	34'-5"	5/8"



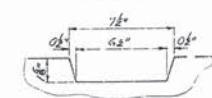
* 25 Piles of Fix-Exp. Bents
46 Piles of Fix-Fix Bents

NOTES

- ALL CONCRETE TO BE CLASS 5 AND TO BE POURED IN THE DRY.
- ALL EXPOSED CORNERS TO BE CHAMFERED 5/4".
- REINFORCING STEEL TO BE ASTM A615, GRADE 40. SHOP LISTS AND BENDING DIAGRAM ARE TO BE SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN. ALL PILING SHALL BE 16" OCTAGONAL PRECAST CONCRETE PILES AND SHALL BE DRIVEN TO A MINIMUM CAPACITY OF 44 TONS PER PILE.



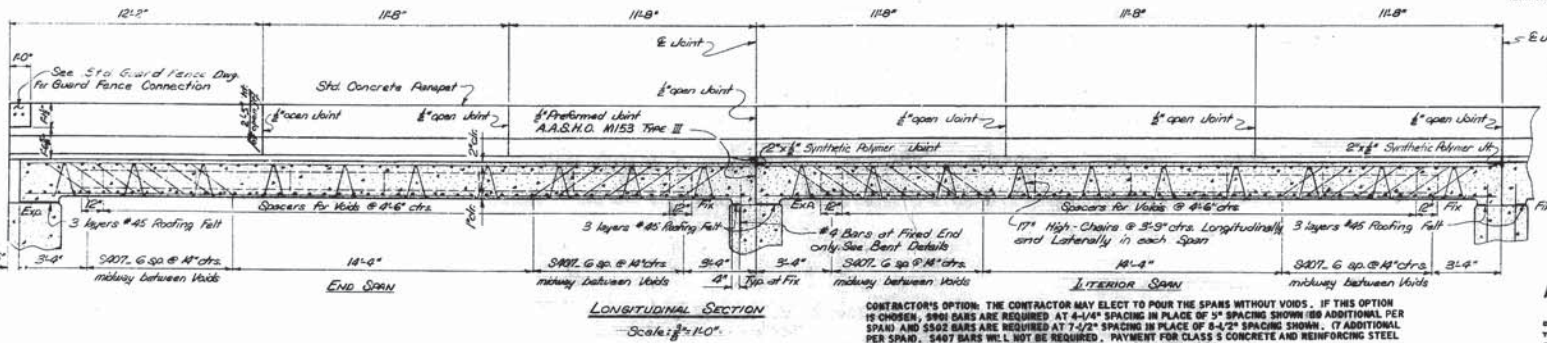
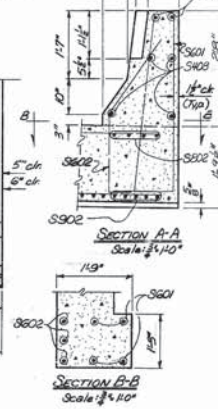
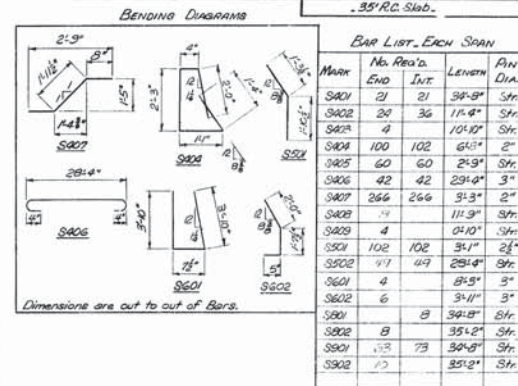
SECTION B-B
Scale: 1/8"=1'-0"



KEYWAY DETAIL
Scale: 1/8"=1'-0"

DETAILS OF STANDARD
PILE BENTS FOR
35' R.C. SLAB SPANS
30° FWD. SKEW-26' RDWY
CONCRETE PARAPET RAIL

ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DESIGNED BY: K.M.G. DATE: 16 Feb. 78
CHECKED BY: J.E. DATE: 16 Feb. 78
BRIDGE NO. DRAWING NO. 14953 A



CONTRACTOR'S OPTION: THE CONTRACTOR MAY ELECT TO POUR THE SPANS WITHOUT VOIDS. IF THIS OPTION IS CHOSEN, 9901 BARS ARE REQUIRED AT 4'-4" SPACING IN PLACE OF 5" SPACING SHOWN (88 ADDITIONAL PER SPAN) AND \$302 BARS ARE REQUIRED AT 7'-4" SPACING IN PLACE OF 8'-2" SPACING SHOWN. (7 ADDITIONAL PER SPAN). 5407 BARS WILL NOT BE REQUIRED. PAYMENT FOR CLASS 5 CONCRETE AND REINFORCING STEEL WILL BE BASED ON THE QUANTITIES SHOWN FOR SLAB SPANS WITH VOIDS.

"5" AND SHALL BE POURED IN THE DRY. ALL EXPOSED CORNERS SHALL OTHERWISE NOTED.

M A615, GRADE 40. SHOP LISTS AND BENDING DIAGRAM MUST BE SUBMITTED BEFORE FABRICATION IS BEGUN.

ALL CYLINDRICAL TUBES USED TO FORM VOIDS SHALL BE OF MOISTURE PROTECTED, LAMINATED TYPE CONSTRUCTION, MINIMUM THICKNESS 0.225", AND SHALL BE FURNISHED COMPLETE WITH END CLOSURES.

ALL REINFORCING STEEL AND FIBER TUBES SHALL BE ACCURATELY LOCATED IN THE FORMS AND FIRMLY LOCATED BY MEANS OF STEEL WIRE SUPPORTS AND SPACERS FOR TUBES OF A SUFFICIENT NUMBER AND SIZE 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 "CLASS 5 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, PREFORMED JOINT, AND SYNTHETIC POLYMER JOINTS SHALL BE MEASURED AND PAID FOR AS CLASS 5 CONCRETE.

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1972, AND APPLICABLE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS:	AASHTO	1969
DESIGN LIVE LOADING:	H20	
UNIT STRESSES:	CLASS 5 CONCRETE (f' = 40)	1,200 PSI
	REINFORCING STEEL	20,000 PSI

Revised: 7-19-72 By GRM ch. JMS
Revised: 2-1-73 by J.P.S. ch. by F.H

DETAILS OF STANDARD
35°0" R.C. SLAB SPAN (WITH VOIDS)
26°0" CLEAR RUNWAY
STD. CONCRETE PARAPET
 ROUTE SEC.
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 23 July 71
 DRAWN BY: K.M.G. DATE: 12/1/71 SCALE: As Noted
 TRACED BY: J.D. DATE: 5/12/71
 CHECKED BY: J.D. DATE: 5/12/71
 BRIDGE NO. DRAWING NO. 14954