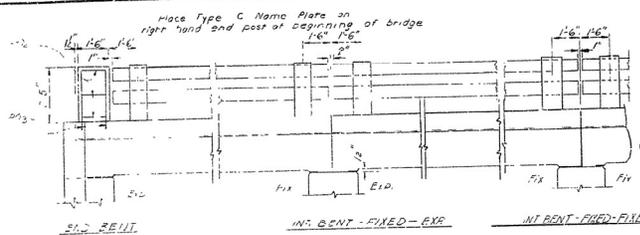
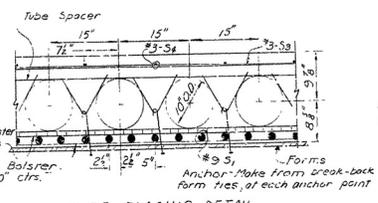


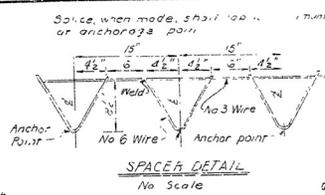
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.				
JOB NO.					
Varies from 3' at edge to 9' @ E					



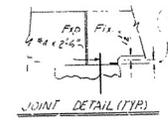
PART SIDE ELEVATION
No Scale



TUBE PLACING DETAIL
No Scale



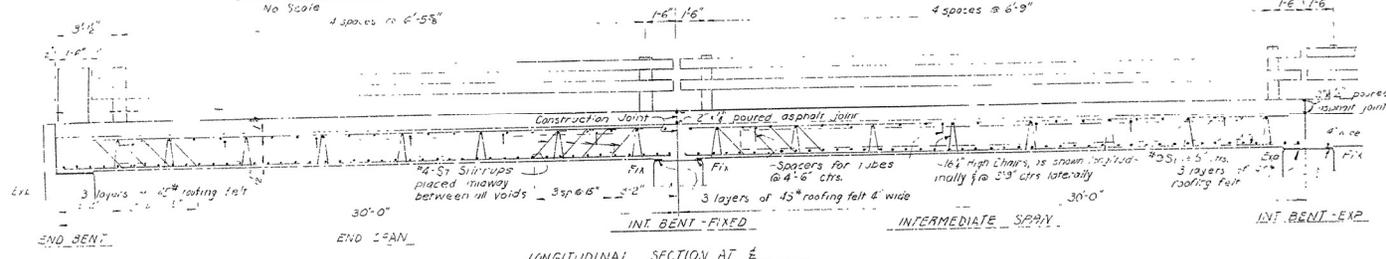
SPACE DETAIL
No Scale



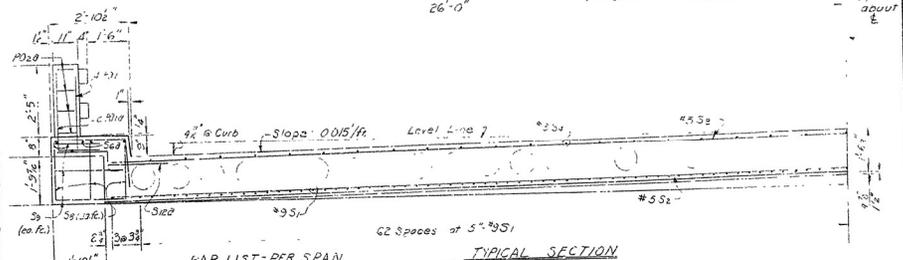
JOINT DETAIL (TYP)

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 secured before fabrication is begun.
 All cylindrical tubes used to form voids shall be moisture protected, lap-jointed 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 1" or 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 course of construction, but in no case of lesser design than that shown.
 Wire supports for reinforcing bars will not be sold for directly but will be considered subsidiary to the time of Reinforcing Steel.
 Tubes for forming voids and wire supports and spacers for tubes will not be sold for directly and will be considered subsidiary to the time 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 Drug. No. 14989 or 14992 as shown on Bridge layout.
 SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, edition of 1959, and 1966 Supplemental Specifications.
 DESIGN SPECIFICATIONS: AASHTO 1981
 Design Live Loading: HS20 and Special Interstate Loading of two 24,000# axles 4' on centers.
 Load Distribution to Slab: Dead Load - 182 psf Live Load - 0.174 wheel/ft width plus unit stresses: Class S Concrete (in-10) 2,200 psi 30% impact. Reinforcing Steel 20,000 psi



LONGITUDINAL SECTION AT E



TYPICAL SECTION

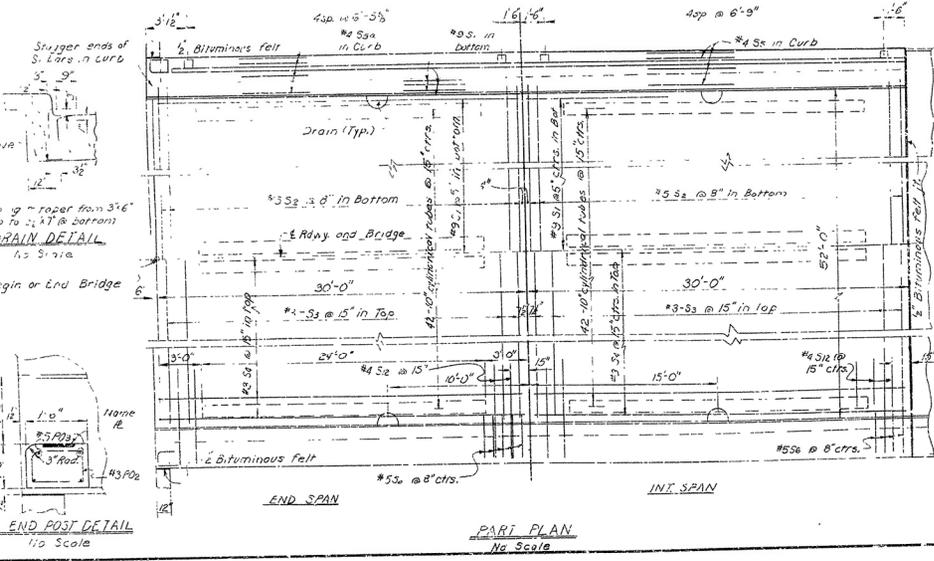
BAR LIST - PER SPAN

Bar	Size	No. Bars	Span	Length	Area	Bar Dia.
S1	9	131	131	23'-7"	317	3/8"
S2	5	45	45	53'-0"	317	3/8"
S3	3	24	24	34'-7"	23	3/8"
S4	3	41	41	23'-7"	571	3/8"
S5a	4	8	8	30'-7"	317	3/8"
S5b	4	8	8	23'-7"	317	3/8"
S6	5	90	90	53'-6"	12	3/8"
S7	4	328	328	35'-7"	12	3/8"
S8	6	12	12	25'-2"	317	3/8"
S9	4	12	12	25'-6"	317	3/8"
S10	4	16	16	65'-3"	12	3/8"
P01	6	60	60	35'-11"	24	3/8"
P02	3	40	40	3'-7"	12	3/8"
P03	3	6	6	4'-11"	12	3/8"
P04	5	4	4	6'-6"	12	3/8"

Bending Diagram showing bar placement and dimensions.

DETAILS OF STANDARD
 30'-0" R. C. SLAB SPANS
 TYPE B RAIL
 52'-0" CLEAR ROADWAY, 2 CURBS (1'-6")
 ROUTE SEC.
 ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.
 DRAWN BY: NIM DATE: 7 Sept 66
 CHECKED BY: EAH DATE: 9-8-66
 BRIDGE NO. _____ SCALE: 3/8"=1' or as noted
 DRAWING NO. 15100



PART PLAN
No Scale

END POST DETAIL
No Scale

FED. ROAD NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK	562(J)			
JOB NO.		11748	G	30	

For R/W Data - See Rdwy. Plans

GENERAL NOTES

Bench Mark-Nail in side curb, pole 34' Rt. Sta. 57+25, Elev. 214.68.
 All piling shall be 18" Octagonal Precast Concrete driven with an approx. 11/2" steam or diesel hammer to a minimum bearing capacity of 4+ tons per pile and to a minimum penetration of 20'. Lengths of piling shown are to be used for estimating quantities only. Actual lengths to be determined in the field. Drive one 45' test pile in Bent 3 and one 40' test pile in Bent 1. Piles in end bents to be driven after embankment is in place.

For details of Precast Concrete Piling see Drwg. No. 2382
 For details of Substructure see Drwg. No. 15100A
 For details of Superstructure see Drwg. No. 15100

SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1959, the 1966 Supplemental Specifications thereto, and applicable Special Provisions.

DESIGN SPECIFICATIONS: AA,HR 1981
 Live Loading: HS20
 Unit Stresses: Class S Concrete (n=10) 1,200 psi
 Reinforcing Steel 20,000 psi

SUMMARY OF BRIDGE QUANTITIES - JOB 11748

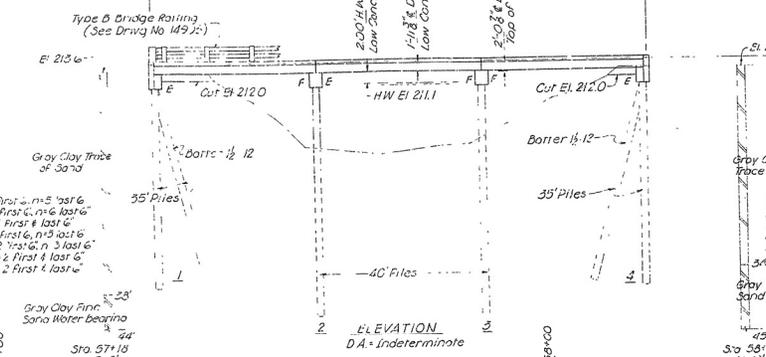
Item No.	801	802	803	804	804	805 (Alt 1) 805 (Alt 2)	812	1002
UNIT OF BRIDGE	Common Excavation for Structures	Class S Concrete	Reinforcing Steel	Precast Concrete Piling (16" Oct)	Providing Equipment for Driving Test Piles	Bridge Railing (Type B) (All 1) Metal (Aluminum)	Bridge Name Plates (Type C)	Removal of Existing Bridge Structures
	Cu Yd	Cu Yd	Lb	Lin Ft	Comp Item	Lin Ft	Plate	Comp Item
Bents 1 & 3	108	24.84	2,994	565				
Bents 2 & 4		22.30	2,361	645				
Spans 1 & 3		153.40	36,450		110.0			
Span 2	108	284.20	18,185		60.0			100.0
Totals - Job 11748			60,590	1,210	100%	176.0		

* See 59-806-10

Remove existing 74' timber bridge with 5-3 pile bents and untreated timber deck. Major portion become the property of the Contractor and its salvage value shall be reflected in his bid. See sec. 100% of the Specifications.

3-30' R.C. Slab Spans w/voids Total Length of Bridge = 90'-0"
 ELEV. 215.05 @ Deck Level Grade

Begin Bridge Sta 57+27 End Bridge Sta 58+17



4-55' n=4 first 6, n=5 last 6
 5-105' n=4 first 6, n=6 last 6
 6-155' n=4 first 6 last 6
 7-105' n=2 first 6, n=3 last 6
 8-255' n=2 first 6, n=3 last 6
 9-205' n=2 first 6 last 6
 10-355' n=2 first 6 last 6

Gray Clay Trace of Sand
 4-55' n=4 first 6, n=5 last 6
 5-105' n=4 first 6, n=6 last 6
 6-155' n=4 first 6 last 6
 7-105' n=2 first 6, n=3 last 6
 8-255' n=2 first 6, n=3 last 6
 9-205' n=2 first 6, n=4 last 6

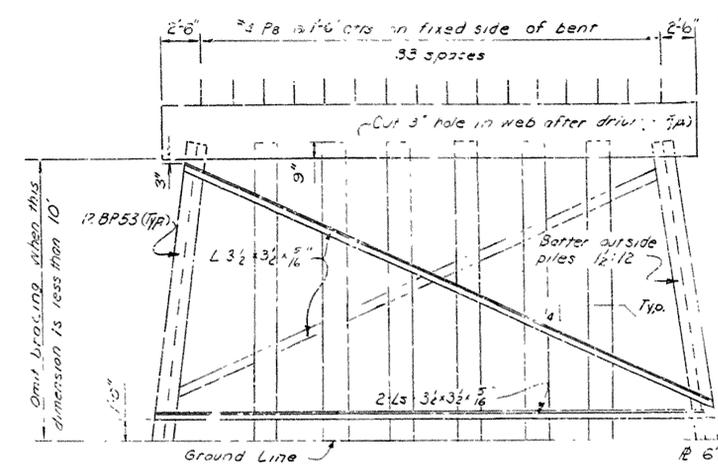
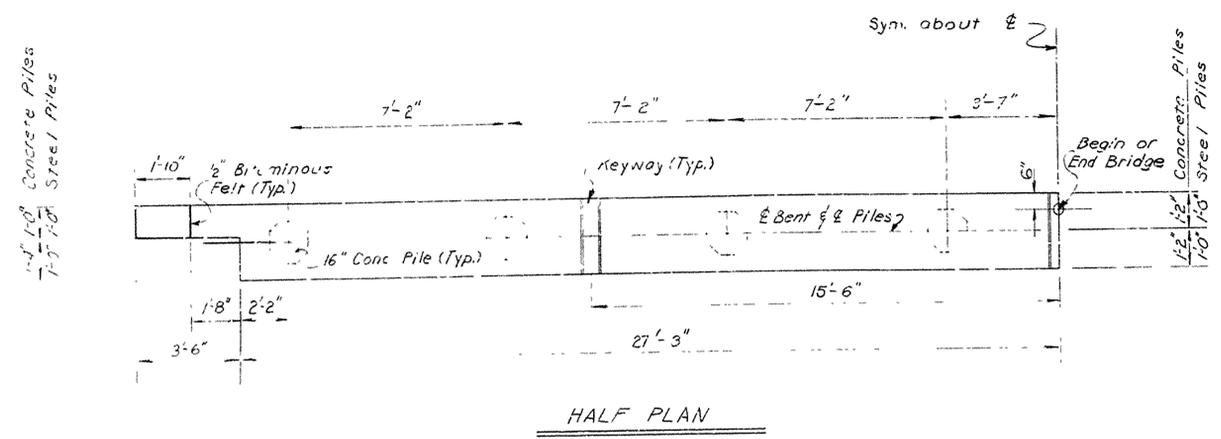
Rev 8/16/66 Changed Spans from 25 to 30' R/W: A QK.FMM.

LAYOUT OF BRIDGE OVER DIVERSION CHANNEL
 7th STREET EXTENSION (W. MEMPHIS)
 CRITTENDEN COUNTY
 ROUTE 191 SEC. 1
 ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.
 DRAWN BY: RWM DATE: 8-5-66 SCALE: 1" = 10'
 CHECKED BY: FWH DATE: 8-8-66
 BRIDGE NO. 5122 DRAWING NO. 13747

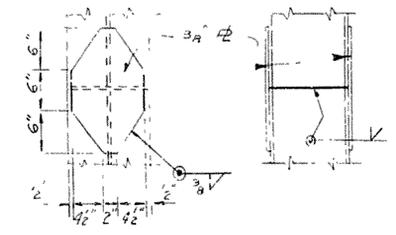
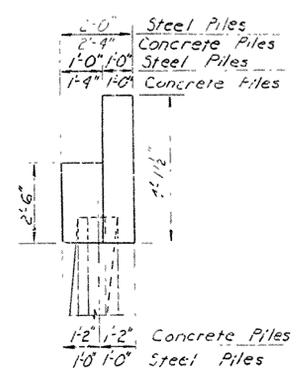
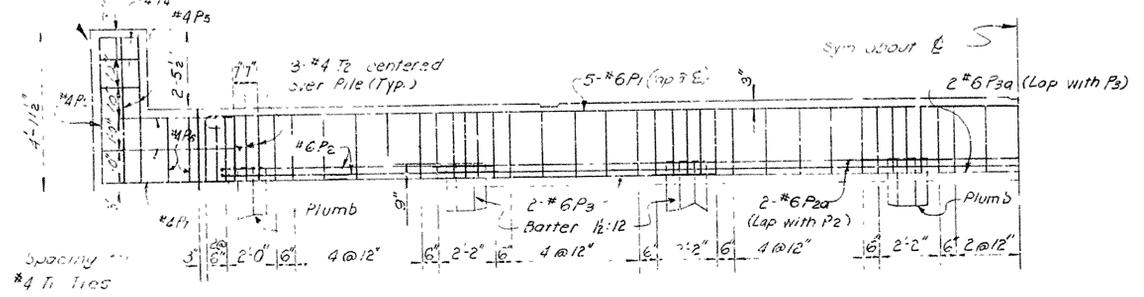
BRIDGE ENGINEER

FED. ROAD NO.	STATE	FED. AID PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.				
JOB NO.					



NOTE: Steel pile tip reinforcement will not be paid for directly but shall be considered subsidiary to the item of "Steel Bearing Piling."

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



REINFORCING DETAIL FOR STEEL PILE TIP

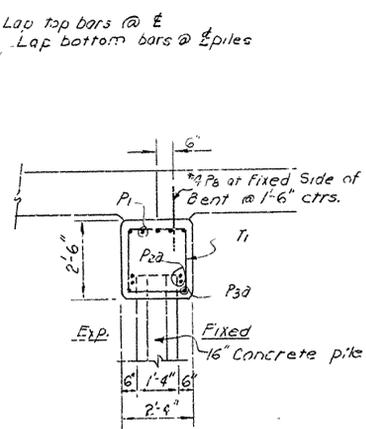
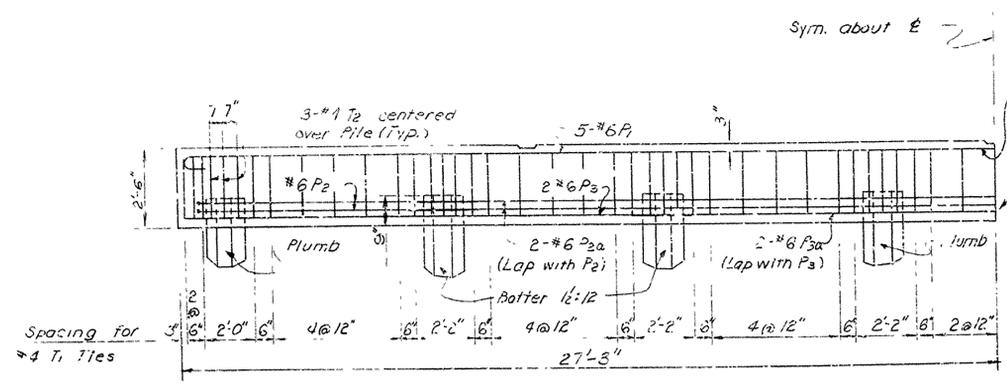
NOTE: The contractor may for his convenience and at his own expense provide as many as three splices per pile for steel bearing piling. Minimum spacing between splices shall be 5 feet.

GENERAL NOTES

All concrete to be Class S and shall 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 for approval before fabrication.

All piling shall be driven to minimum capacity of 44 tons per pile. Piling shall be either 12 BP 53 steel bearing piles, or 16" octagonal precast concrete piles as shown on the layout.

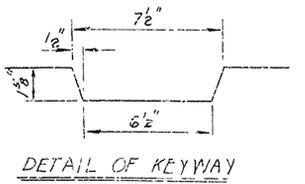


BAR LIST

PK	SIZE	No. Per Bent	Length	Pin D.O.	Bending Diagram
P1	6	10	28'-12"	4 1/2"	[Bending Diagram for P1, P2]
P2	6	4	20'-0"	3 1/2"	
P3	6	4	17'-6"	3 1/2"	[Bending Diagram for P3, P4]
P4	4	12	1'-7"	3 1/2"	
P5	4	12	4'-7"	3 1/2"	[Bending Diagram for P5, P6]
P6	4	8	2'-3"	3 1/2"	
P7	4	12	5'-3"	3 1/2"	[Bending Diagram for P7, P8]
P8	4	12	2'-6"	3 1/2"	
T1	6	2	24'-0"	3 1/2"	[Bending Diagram for T1, T2]
T2	4	24	6'-11" or 6'-7" **	1 1/2"	

For details of Standard 30" RC Slab Span see Drawing No. 15100

SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1959, the 1966 Supplemental Specifications thereto, and applicable Special Provisions.



SECTION AT END INTERMEDIATE BENT

DETAILS OF STANDARD PILE BENTS FOR 30'-0" R.C. SLAB SPANS 52'-0" CLEAR ROADWAY, 1'-6" CURBS

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: FJM DATE: 31 Aug 66

TRACED BY: DATE: 31 Aug 66

CHECKED BY: FMH DATE: 9-6-66

BRIDGE NO. DRAWING NO. 15100-A