

DATE REVISED	DATE PLUMED	DATE REPAIRED	DATE PAID	FED. PROJ. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	605-0050-1	5	34
				JOB NO.	NS-59-1		① 4340 - QUANTITIES - 21347	

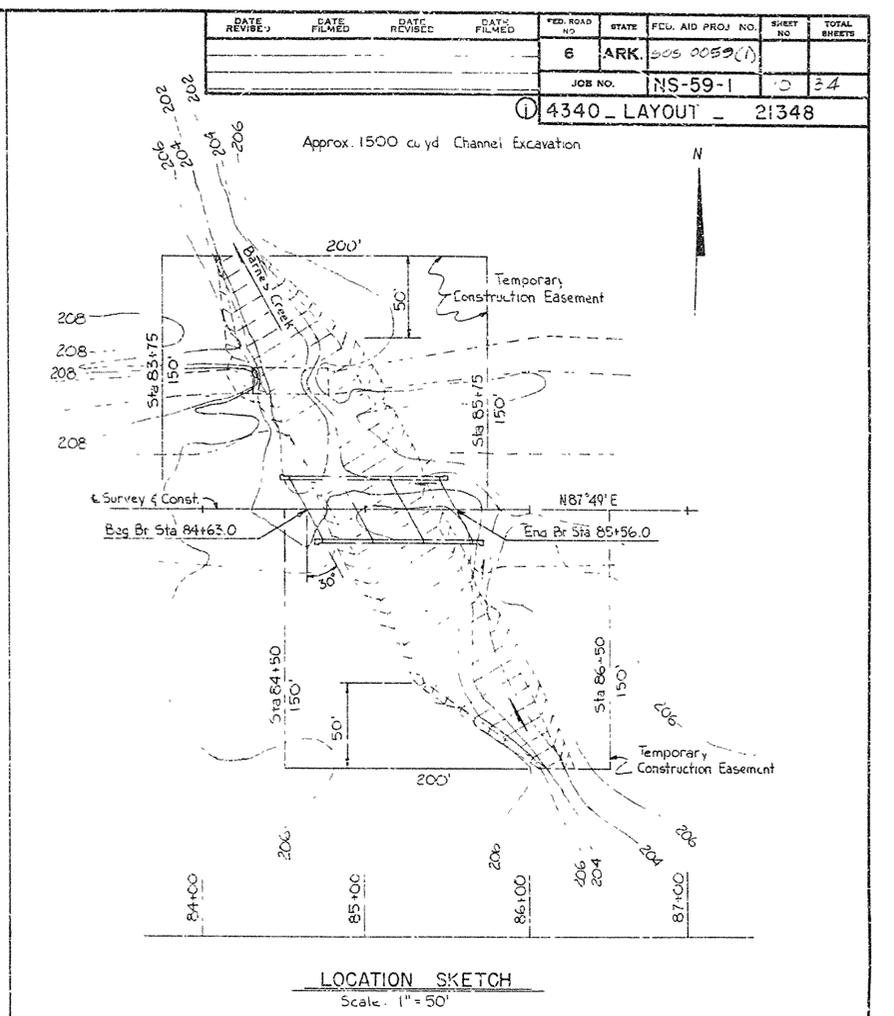
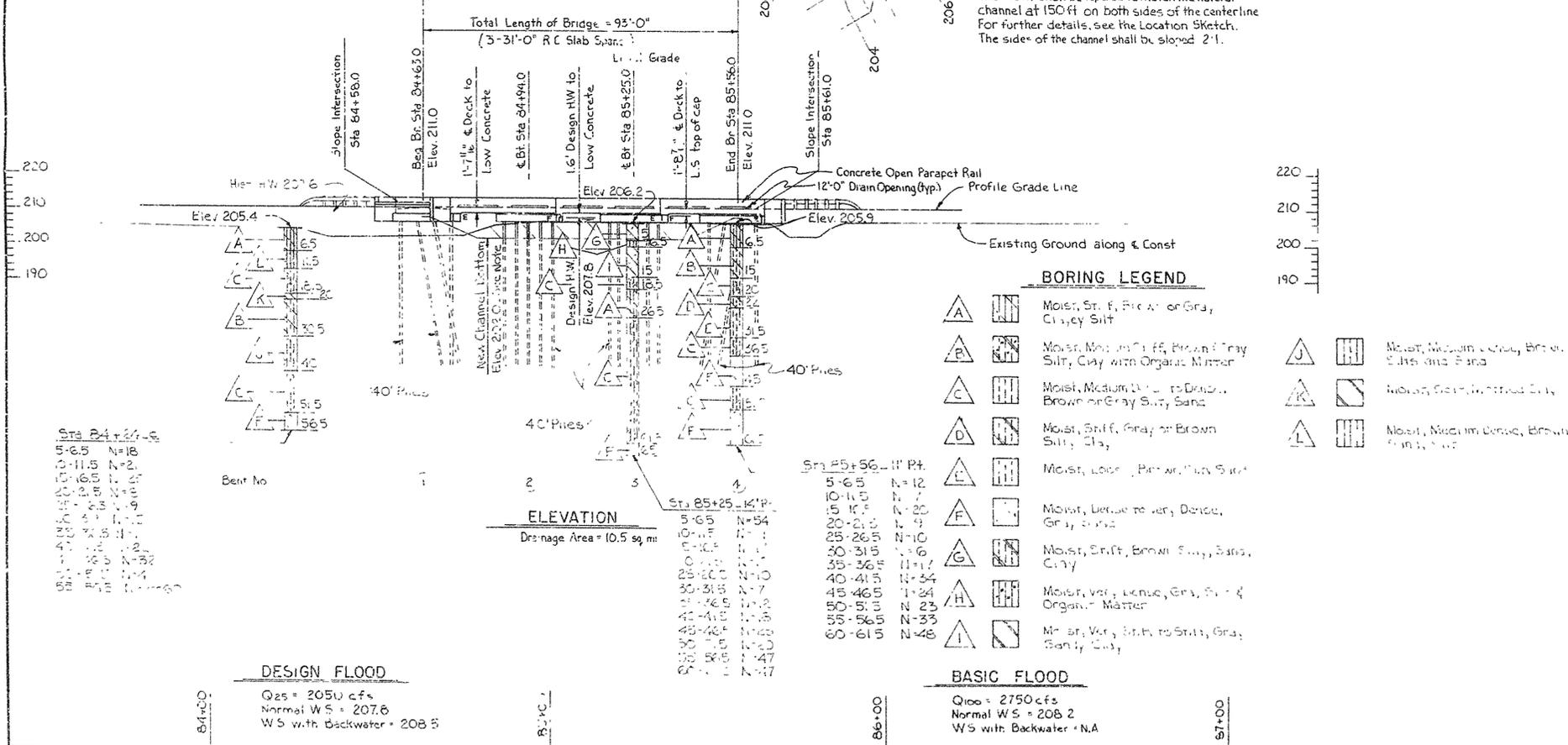
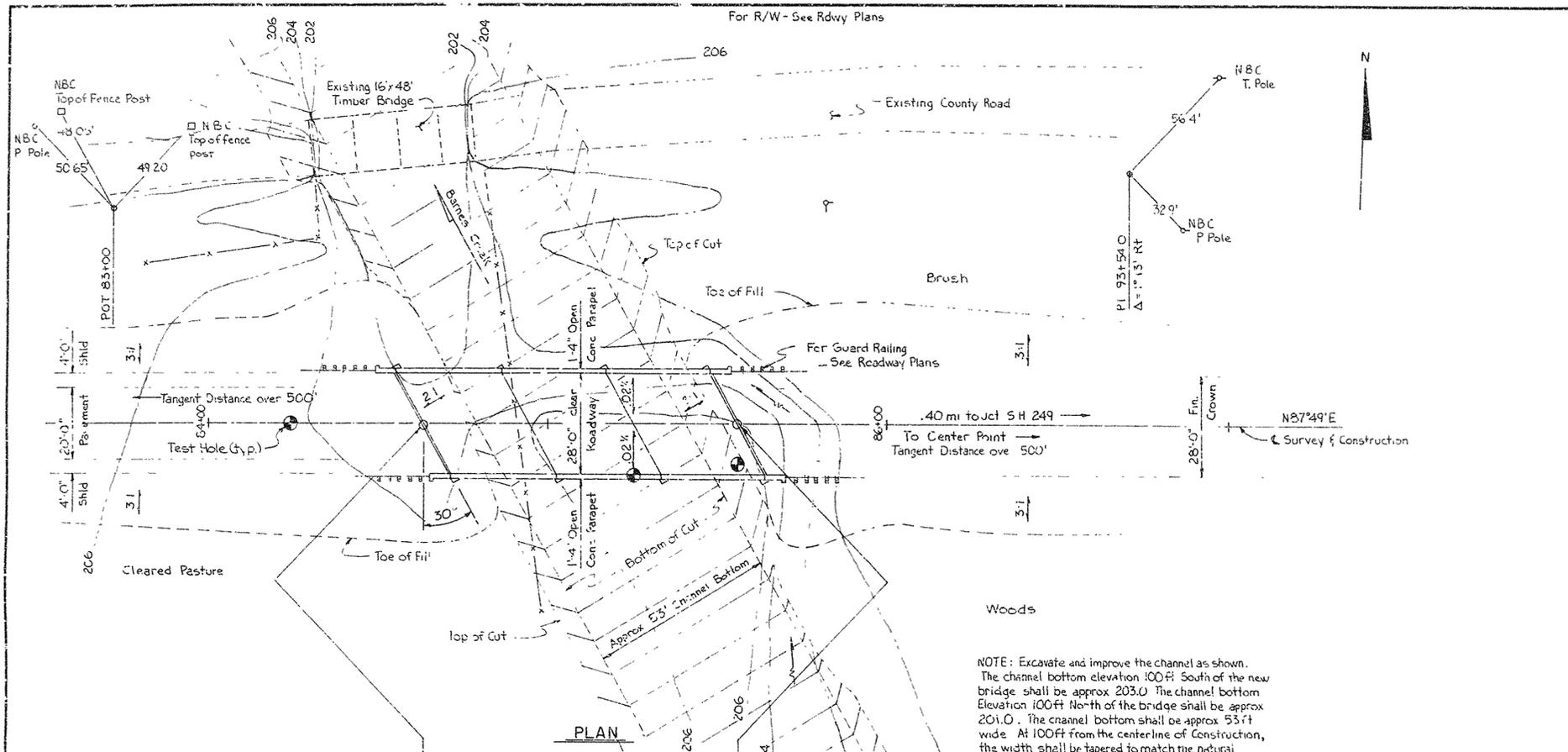
SCHEDULE OF BRIDGE QUANTITIES

BRIDGE NO. X020	NAME BARNES	FLATE CREWK	UNIT OF STRUCTURE	ITEM NO.	SP & 802	803	SP & 804	* SP & 805	812
				ITEM	CLASS S CONCRETE	BOILED LINSEED OIL	REINFORCING STEEL (GRADE 60)	PRECAST CONCRETE PILING (16" DIA. or 16" SQ.)	BRIDGE NAME PLATE (TYPE C)
				UNIT	CU. YD.	GAL.	LB.	LIN FT	EACH
4340			END BENT NOS. 1 & 4		20.00		2525	320	
			INTERMEDIATE BENT NOS. 2 & 3		15.48		2320	405	
			2-31'-0" END R.C. SLAB SPANS		105.80	4.8	18205		1
			1-31'-0" INT. R.C. SLAB SPANS		52.12	2.4	9040		
TOTALS FOR JOB NO. NS-59-1					194.40	7.2	32,090	725	1

\* REFERS TO SP 802-5  
 NOTE: 970 LB. OF STRUCTURAL STEEL IN DRAINS OF SLAB SPANS MEASURED AND PAID FOR AS CLASS S CONCRETE

SCHEDULE OF BRIDGE QUANTITIES  
 CENTER POINT - WEST  
 PRAIRIE COUNTY  
 CO. ROUTE 1 SEC.  
**ARKANSAS STATE HIGHWAY COMMISSION**  
 LITTLE ROCK, ARK.  
 DRAWN BY: J.G.T. DATE: 8-27  
 CHECKED BY: P.M.G. DATE: 8-27 SCALE: None  
 DESIGNED BY: DATE:  
 BRIDGE NO. 4340 DRAWING NO. 21347

*[Signature]*  
 BRIDGE ENGINEER



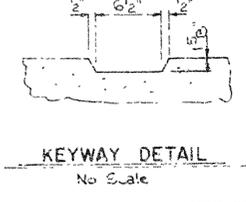
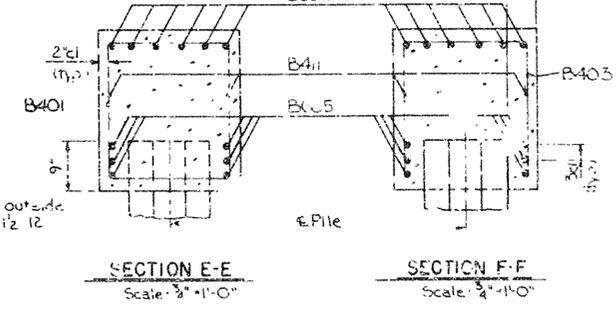
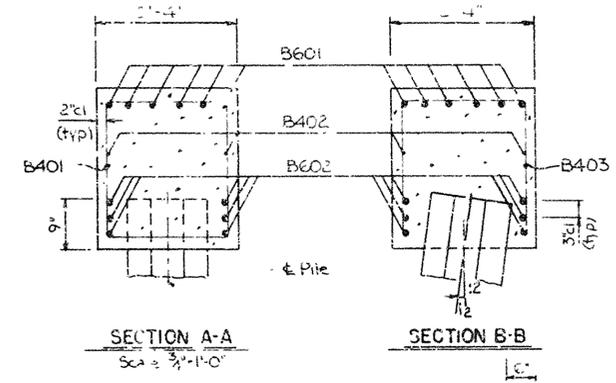
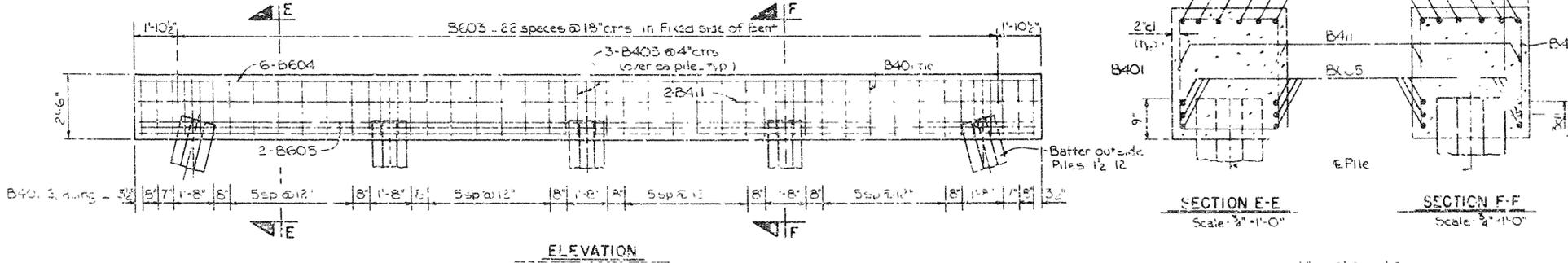
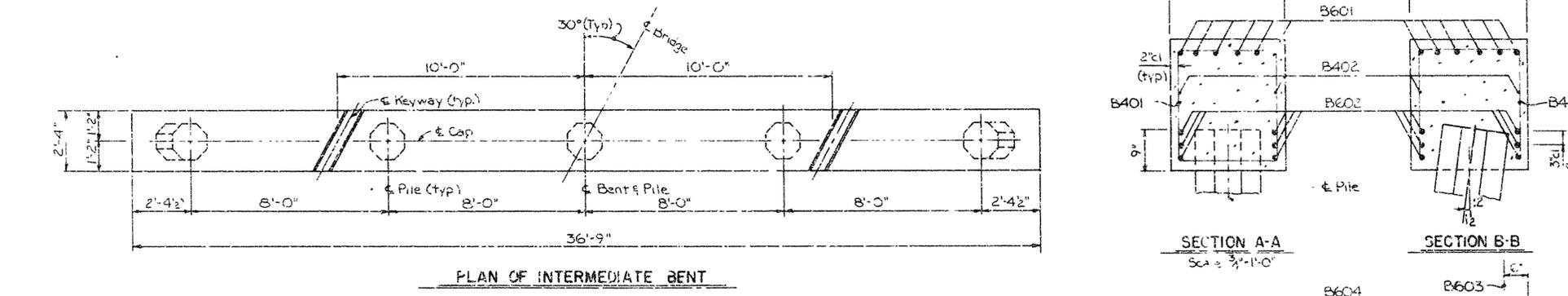
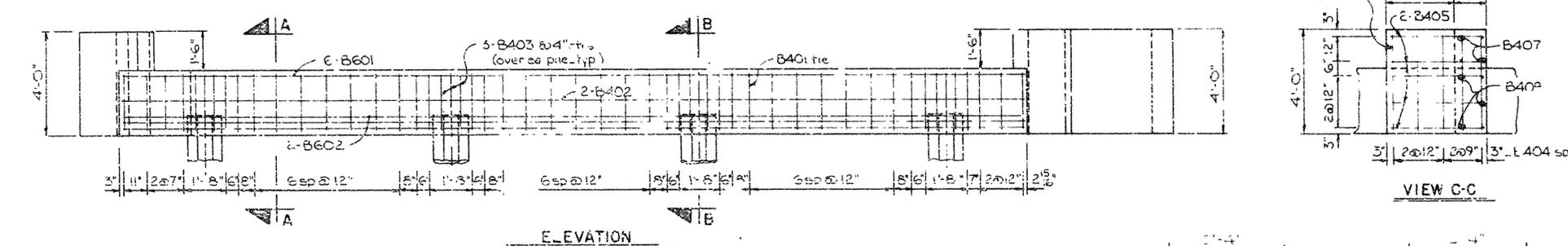
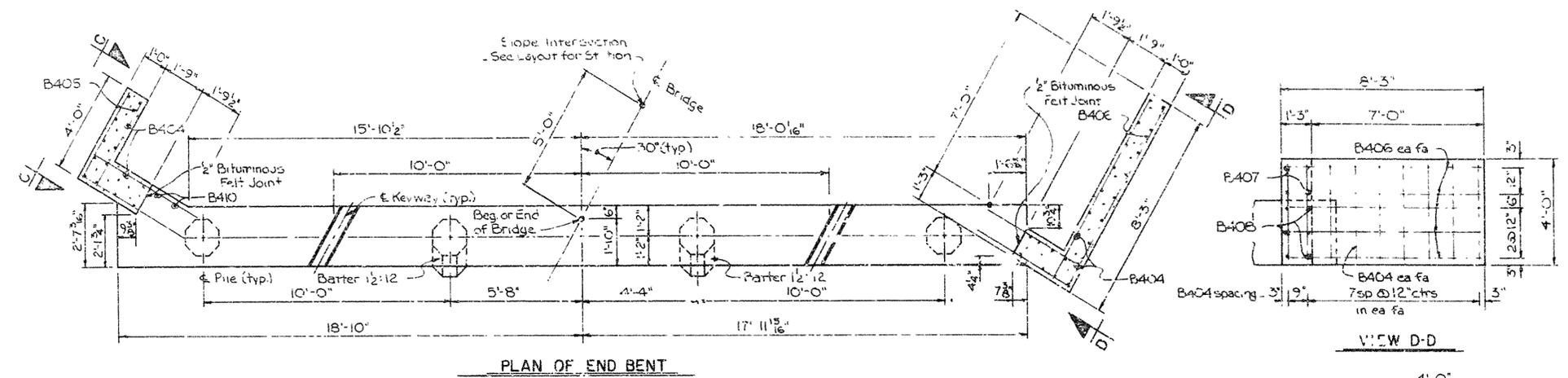
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**LAYOUT OF BRIDGE OVER BARNES CREEK CENTER POINT - WEST PRAIRIE COUNTY CO. ROUTE 11 SEC. ARKANSAS STATE HIGHWAY COMMISSION LITTLE ROCK, ARK.**

BRIDGE NO. 4340 DRAWING NO. 21348

DATE: 5-9-77  
 DRAWN BY: JGT  
 CHECKED BY: JAS  
 SCALE: 1" = 20'

DATE REVISION	DATE REVISION	DATE REVISION	DATE REVISION	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	106-005001	11	34
				JOB NO.	NS-59-1			
				4340 - BENT DTLS. - 21349				



**BAR LIST - EACH BENT**

MARK	NO.	REQ'D	LENGTH	PIN DIA	BENDING DIAGRAMS
		End	Int.		
B401	41	38	9'-2"	2"	
B402	2	-	5'-6"	Str	
B403	12	15	6'-2"	2"	
B404	36	-	3'-8"	Str	
B405	10	-	3'-8"	Str	
B406	10	-	7'-11"	Str	
B407	8	-	2'-5"	Str	
B408	6	-	4'-3"	Str	
B409	6	-	6'-0"	Str	
B410	2	-	2'-2"	Str	
B411	-	2	36'-5"	Str	
B601	6	-	36'-6"	Str	
B602	6	-	40'-3"	3 3/4"	
B603	-	*	2'-4"	Str	
B604	-	6	36'-5"	Str	
B605	-	6	40'-2"	3 3/4"	

Dimensions are out to out of bars

**GENERAL NOTES**

ALL CONCRETE SHALL BE CLASS 'S' AND SHALL BE POURED IN THE DRY. EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED. MINIMUM 28 DAY COMPRESSIVE STRENGTH  $f_c = 3500$  PSI

REINFORCING STEEL TO BE ASTM A615, OR A617, GRADE 60 (YIELD STRENGTH = 60,000 PSI). SHOP LISTS AND BENDING DIAGRAMS MAY BE SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.

PIILING SHALL BE 16" OCTAGONAL OR 16" SQUARE PRECAST CONCRETE PILE, AND THESE SHAPES SHALL NOT BE MIXED. ALL PILING SHALL BE DRIVEN TO A MINIMUM CAPACITY OF 44 TONS PER PILE.

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

LIVE LOAD: H15

METHOD OF DESIGN: LOAD FACTOR

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1973 EDITION WITH INTERIM SPECIFICATIONS.

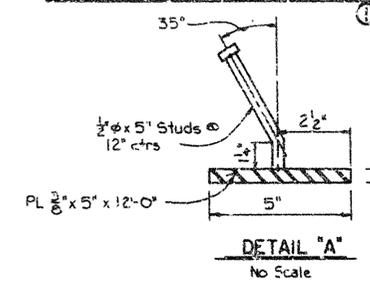
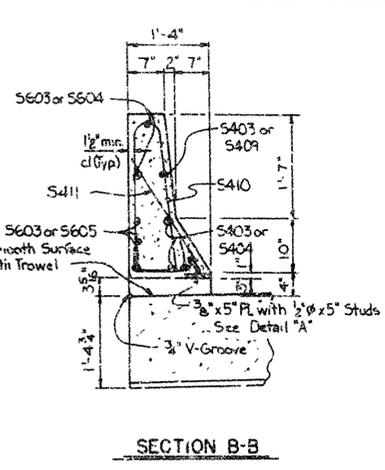
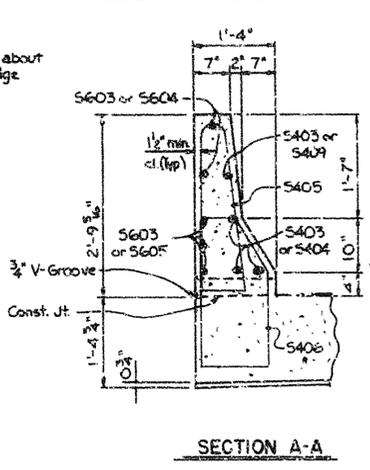
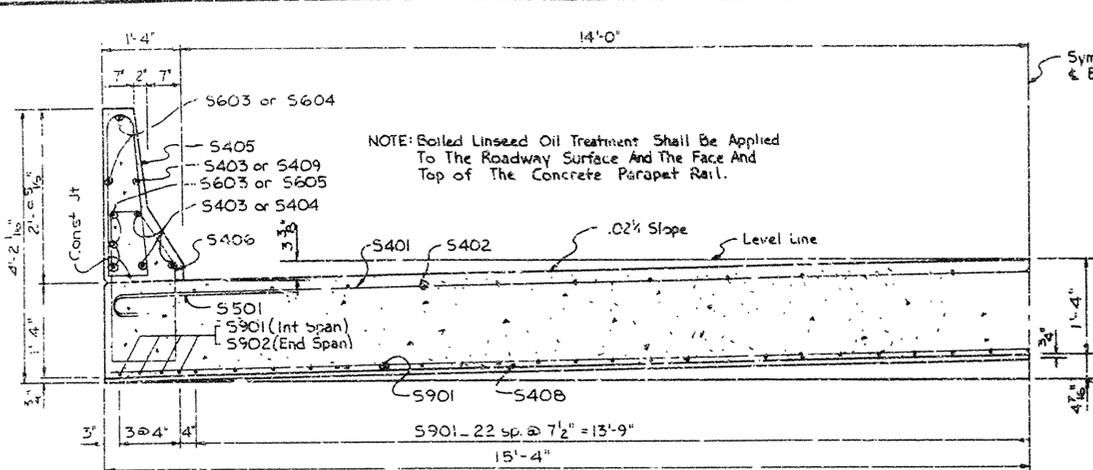
DETAILS OF STANDARD PILE BENTS  
 31'-0" R.C. SLAB SPANS  
 28'-0" RDWY. 30° SKEW (RT. FWD.)  
 CONCRETE PARAPET RAILING

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

DRAWN BY: JGT DATE: 9-6-77  
 CHECKED BY: WLS DATE: 9-16-77  
 DESIGNED BY: DATE: SCALE: 3/4" = 1'-0" or as noted

BRIDGE NO. 4340 DRAWING NO. 21349

MARK	DATE	BY	REVISED	REASON	APP'D	DATE	BY	REVISED	REASON
6	ARK.	505-0055(1)							
JOB NO.		NS-59-1		SHEET NO.		12		34	
4340 - SPAN DTLS. - 21350									



NOTE: The surfaces of the 3/8" Plates which will not be in contact with Concrete shall receive two coats of paint in the Shop. These coats shall be those specified as First Shop Coat and Second Field Coat in Subsection 807.59(a) and 807.59(c).

HALF-SECTION THRU ROADWAY

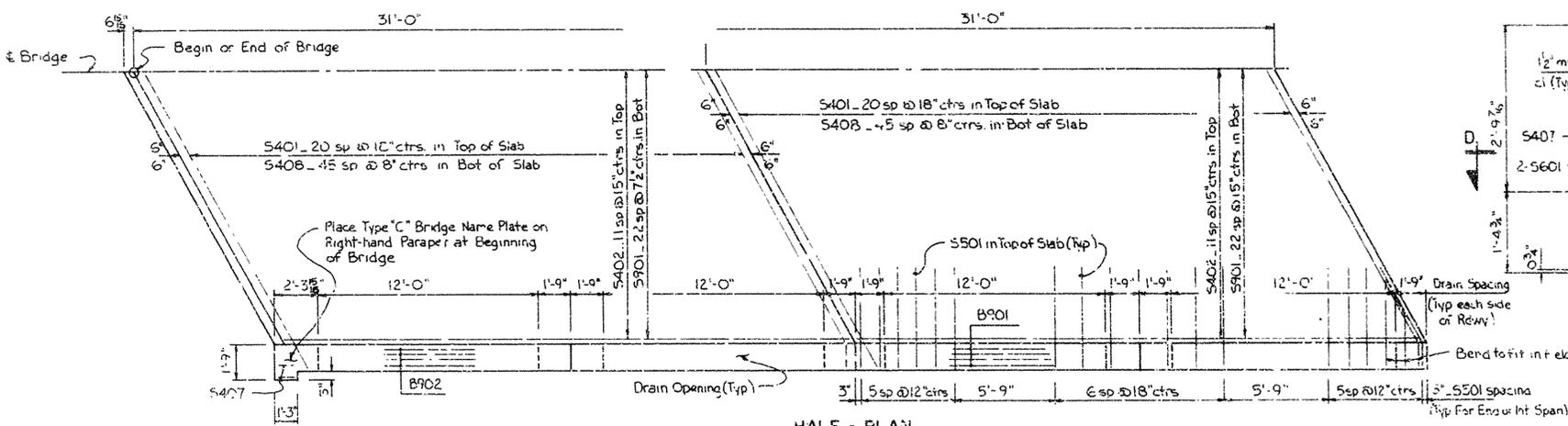
SECTION A-A

SECTION B-B

BAR LIST - EA SPAN

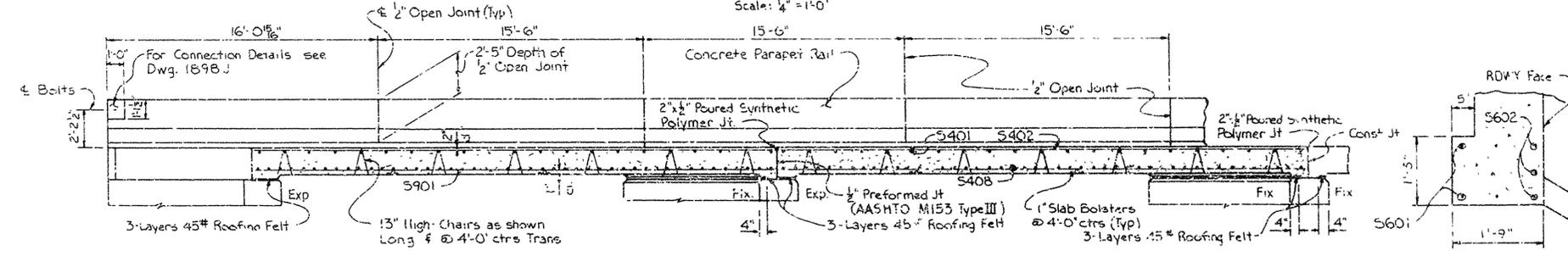
MARK	NO.	REQ'D	LENGTH	PIN DIA.	BENDING DIAGRAMS
S401	21	21	36'-0"	3"	
S402	23	23	30'-8"	Str.	
S403	8	16	15'-2"	Str.	
S404	6	-	15'-8"	Str.	
S405	28	32	7'-0"	2"	
S406	28	32	7'-4"	2"	
S407	10	-	11"	Str.	
S408	46	46	35'-0"	Str.	
S409	2	-	14'-8"	Str.	
S410	48	48	6'-4"	2"	
S411	48	48	3'-6"	2"	
S501	38	38	5'-7"	3 3/4"	
S601	4	-	7'-11"	3 3/4"	
S602	6	-	3'-6"	3 3/4"	
S603	10	20	15'-2"	Str.	
S604	4	-	14'-8"	Str.	
S605	6	-	15'-8"	Str.	
S901	45	53	30'-3"	Str.	
S902	8	-	31'-2"	Str.	

Dimensions are out to out of Bars.

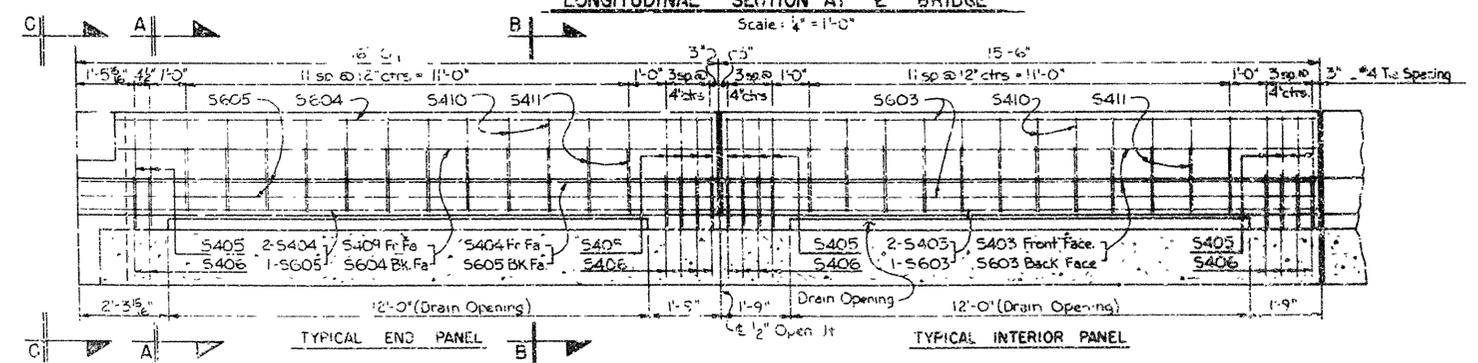


VIEW C-C

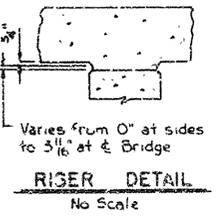
HALF-PLAN



SECTION D-D



LONGITUDINAL SECTION AT CURB



RISER DETAIL

**GENERAL NOTES**

ALL CONCRETE TO BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH  $f_c = 3500$  PSI. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. (YIELD STRENGTH = 60,000 PSI).

ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.

BAR SUPPORTS FOR REINFORCING BARS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM "REINFORCING STEEL". SHOP LISTS AND BENDING DIAGRAMS OF REINFORCING STEEL, INCLUDING WIRE SUPPORTS, MAY BE SUBMITTED FOR APPROVAL BEFORE FABRICATION IS BEGUN.

ROOFING FELT, BITUMINOUS FELT, PREFORMED JOINT, STRUCTURAL STEEL, AND POURED SYNTHETIC POLYMER JOINTS SHALL BE MEASURED AND PAID FOR AS CLASS "S" CONCRETE.

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

DESIGN SPECIFICATIONS: AASHTO 1973 AND 1974 THRU 1977 INTERIMS

DESIGN LIVE LOADING: H15

LOAD DISTRIBUTION TO SLAB: DEAD LOAD - 236 PSF; LIVE LOAD - 7.172 WHEELS/FT. OF WIDTH PLUS 30% IMPACT

LOAD FACTOR USED FOR DESIGN OF SLAB

DETAILS OF STANDARD  
31'-0" R.C. SLAB SPAN  
30° RT. FWD. SKEW 2' CL. RDWY.  
CONC. PARAPET RAILING  
ROUTE SEC.  
**ARKANSAS STATE HIGHWAY COMMISSION**  
LITTLE ROCK, ARK.

DRAWN BY: JST DATE: 6-21-77  
CHECKED BY: SLS DATE: 8-25-77  
DESIGNED BY: STD DATE: -

BRIDGE NO. 4340 DRAWING NO. 21350