

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1-20-84	678-124-34			6	ARK.			
				JOB NO.		10937	9	57

SCHEDULE OF BRIDGE QUANTITIES FOR JOB NO. 10937

BRIDGE No.	CODE No.	NAME PLATE TITLE	ITEM No.	SP # 802	*SP # 802	803	804	**SP # 805	**SP # 805	812	SP # 816	SP # 816	SP # 603	205	801	***SP # 805	***SP # 805	
			ITEM	CLASS S CONCRETE	CLASS S(AE) CONCRETE	BOILED LINSEED OIL	REINFORCING STEEL (GRADE 60)	PRECAST CONCRETE PILING (16" OCT. OR 14" Sq.)	PRECAST CONCRETE PILING (18" OCT. OR 18" Sq.)	BRIDGE NAME PLATE (TYPE "C")	DUMPED RIPRAP	FILTER BLANKET	TEMPORARY BRIDGE STRUCTURES	REMOVAL OF EXISTING BRIDGE STRUCTURES	UNCLASSIFIED EXCAVATION FOR STRUCTURES- BRIDGES	TEST PILES (16" OCT. OR 14" SQ.)	TEST PILES (18" OCT. OR 18" SQ.)	
				UNIT OF STRUCTURE	UNIT	Cu. Yd.	Cu. Yd.	GAL.	LB.	LIN. FT.	LIN. FT.	EA.	Cu. Yd.	Sq. Yd.	LUMP SUM	LUMP SUM	Cu Yd	LIN. FT.
6012	X020	BLACK FORK CREEK																
			END BENTS 1 & 4	23.06				2722	270			320	639			75	35	
			INT. BENTS 2 & 3	19.14				2398	440									45
			THREE 25'-0" R.C. SLAB SPANS		164.40	7.8	24660			1								
TOTALS FOR JOB No. 10937				42.20	164.40	7.8	29780	270	440	1	320	639	1.0	0.42	75	35	45	

*REFER. TO SP 807-10 FOR PAINTING
 **REFERS TO SP 802-5
 ***Refers to SP 802-5 & SP 805-2.

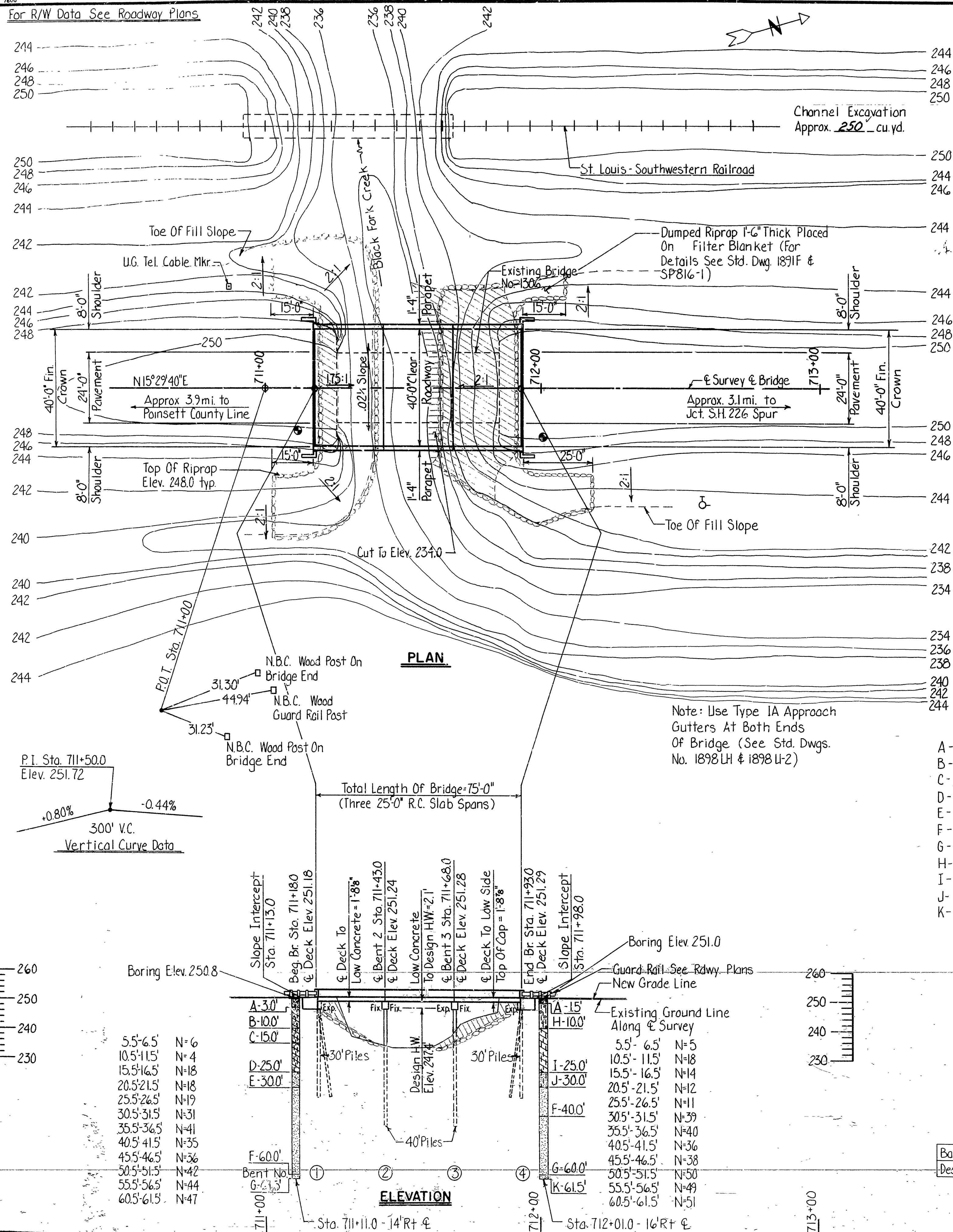
SCHEDULE OF BRIDGE QUANTITIES
BRIDGE OVER BLACK FORK CREEK
POINSETT CO. LINE - HWY. 63 BRS. 8 APPRS.
CRAIGHEAD COUNTY

JOHN SAGE
DESIGN SECTION SUPERVISOR

ROUTE 49 SEC. 4
ARKANSAS STATE HIGHWAY COMMISSION

DESIGNED BY: JSB DATE: APRIL 83
 CHECKED BY: ATP DATE: 5-2-83 SCALE: _____
 DESIGNED BY: _____ DATE: _____
 BRIDGE NO. 6012 DRAWING NO. 25898

For R/W Data See Roadway Plans



DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		10937	16	57
				6012	-LAYOUT-	25899		

BENCH MARK: COTTON PICKER SPIKE IN P.P. 47¹ RT. STA. 715+81, ELEV. 245.58.

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1977 EDITION WITH CURRENT INTERIMS.

CONSTRUCTION SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION
EDITION OF 1978 AND APPLICABLE SPECIAL PROVISIONS.

DESIGN LIVE LOAD: HS 20-44 DESIGN METHOD: LOAD FACTOR

CONCRETE: CONCRETE IN THE SUBSTRUCTURE SHALL BE CLASS "S". CONCRETE IN THE SUPERSTRUCTURE SHALL BE CLASS (S/AE). ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH, $f'_c = 3500$ PSI, AND SHALL BE POURED IN THE DRY; EXPOSED CORNERS TO BE CHAMFERED $3/4"$ UNLESS OTHERWISE NOTED.

REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR A617, GRADE 60 ($f_y = 60,000$ PSI).

PILING: PILING IN BENTS 1 AND 4 SHALL BE 16" OCT. OR 14" SQ AND SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 44 TONS PER PILE. PILING IN BENTS 2 AND 3 SHALL BE 18" OCT. OR 18" SQ. AND SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 55 TONS PER PILE. PILING IN ALL BENTS SHALL HAVE A MINIMUM PENETRATION OF 20 FT. BELOW THE GROUND LINE. ALL PILING SHALL BE DRIVEN WITH AN APPROVED AIR, STEAM, OR DIESEL HAMMER. PILES IN END BENTS SHALL BE DRIVEN AFTER EMBANKMENT TO BOTTOM OF CAP IS IN PLACE. LENGTHS OF PILING SHOWN ARE ASSUMED FOR ESTIMATING QUANTITIES FOR BID COMPARISON PURPOSES ONLY. ACTUAL LENGTHS TO BE DETERMINED IN THE FIELD. PILE SHAPES IN BENTS 2 AND 3 SHALL NOT BE MIXED. DRIVE ONE 35FT. TEST PILE IN BENT NO. 1 AND ONE 45 FT. TEST PILE IN BENT NO. 3.

DECK FINISH: THE ROADWAY SURFACE OF THE CONCRETE BRIDGE DECK SHALL BE GIVEN A TINE FINISH AS SPECIFIED FOR FINAL FINISHING IN SUBSECTION 802.23 FOR A CLASS 6, ROADWAY SURFACE FINISH.

FOR DETAILS OF END BENTS, SEE DWG. NO. 25900
FOR DETAILS OF INT. BENTS, SEE DWG. NO. 25900
FOR DETAILS OF 25'-0" R.C. SLAB SPANS, SEE DWG. NO. 25901
FOR DETAILS OF CONCRETE PILING, SEE DWG. NO. 2383
FOR DETAILS OF APPROACH GUTTERS, SEE DWG. NO. 1898U-1 & 1898U-2

DETOUR BRIDGE: CONSTRUCT A 60' DETOUR BRIDGE APPROXIMATELY 40 FT. DOWNSTREAM WITH A MINIMUM DECK ELEVATION OF 250.0. DETOUR BRIDGE SHALL HAVE A MINIMUM ROADWAY WIDTH OF 20 FT. AND BE DESIGNED FOR HIS LIVE LOADING. SEE SECTION 603 OF THE STANDARD SPECIFICATIONS AND SP 603-3.

EXISTING BRIDGE: THE CONTRACTOR SHALL REMOVE THE EXISTING BRIDGE (BR. NO. 1306) IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. THE EXISTING 24' X 59' BRIDGE CONSISTS OF THREE TIMBER SPANS AND SUBSTRUCTURE WITH A CONCRETE DECK. BRIDGE IS AT LOG MILE 7.98. ALL MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF THE FOLLOWING WHICH SHALL BE RETAINED BY THE STATE.

- 36 - 6" X 14" X 20' TREATED TIMBER STRINGERS
4 - 3" X 10" X 30' TREATED TIMBER SWAY BRACES
4 - 12" X 12" X 28' TREATED TIMBER CAPS
ALL HEADWALL BOARDS THAT ARE SALVAGEABLE.

BORING LEGEND

- A - Moist, Loose Sand & Gravel
- B - Moist, Medium Stiff Silty Clay with Some Gravel
- C - Moist, Soft Silty Clay
- D - Moist, Very Stiff Silty Clay
- E - Moist, Medium Dense Clayey Sand
- F - Moist, Dense Sand
- G - Wet, Dense Sand
- H - Moist to Wet, Loose Silty Gravel
- I - Moist, Very Stiff Silty Clay
- J - Wet, Medium Dense Silty Sand
- K - Wet, Very Dense Sand

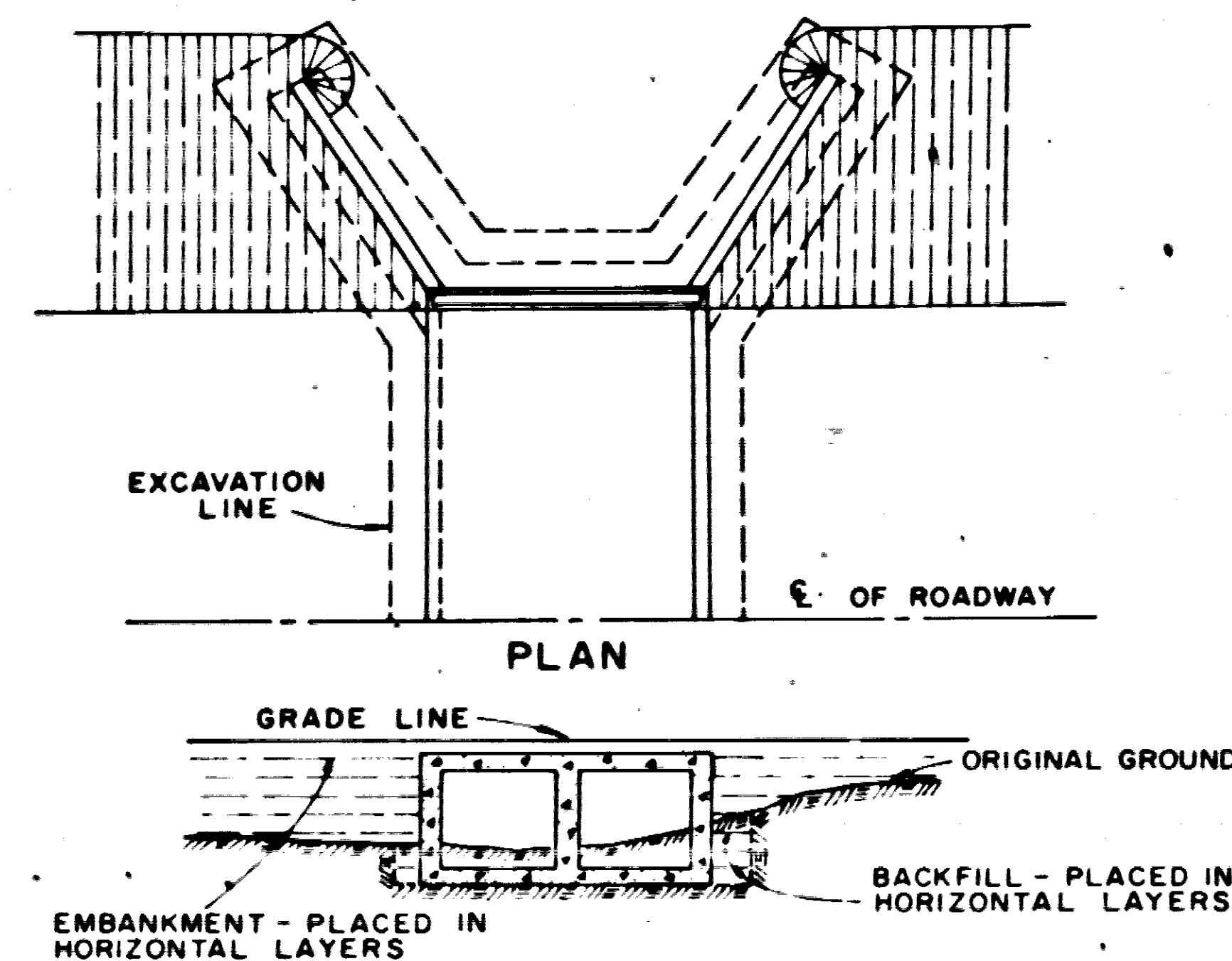
	HYDRAULIC DATA		
	Discharge (cfs)	Normal Water Surface Elev.	N.W.S. Elev. With Backwater
Base Flood (Q_{100})	2,727	247.7	—
Design Flood (Q_{50})	2,476	247.4	249.1

Drainage Area = 15.7 mi²
Historical High Water = Elev. 247.4

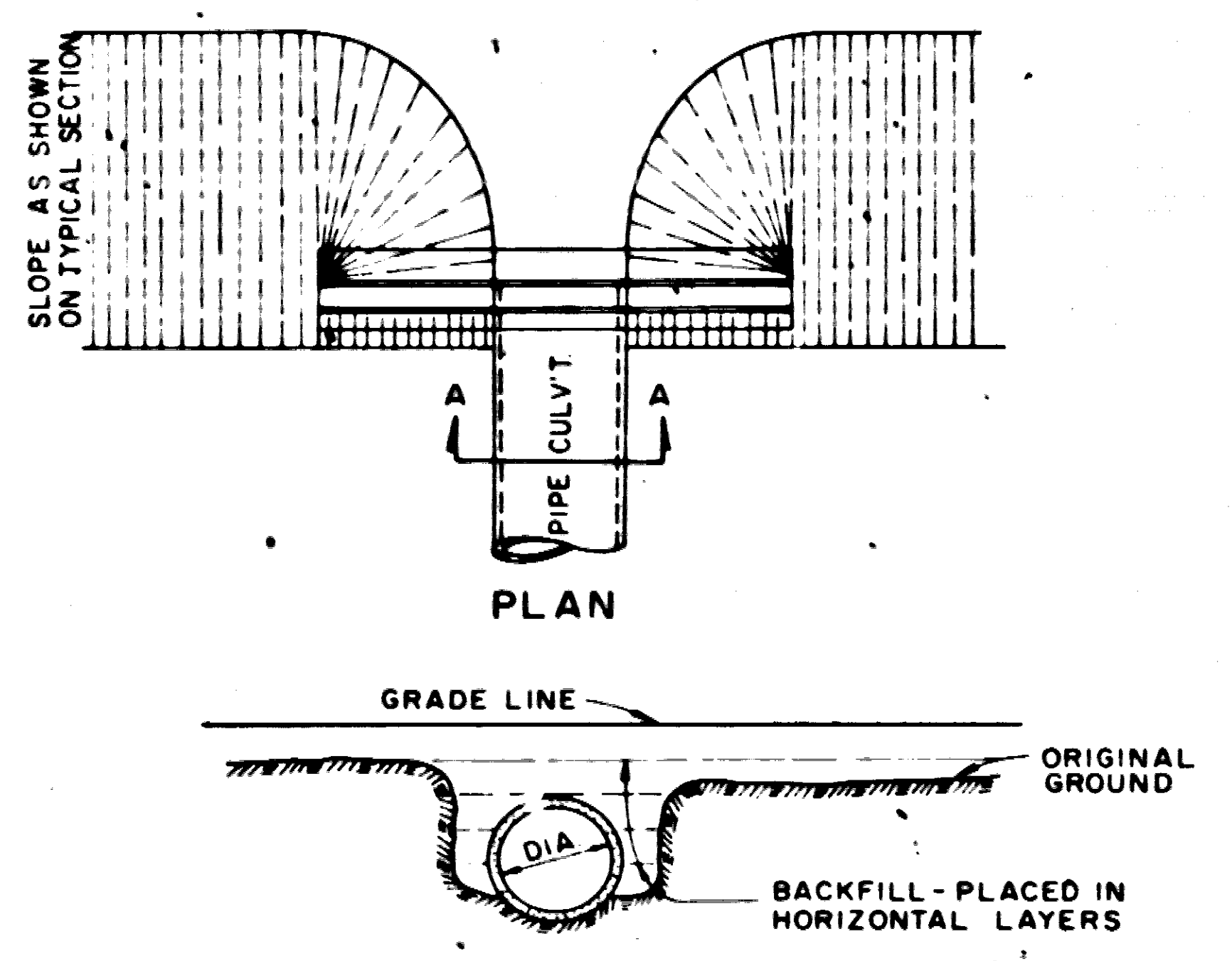
LAYOUT OF BRIDGE OVER
BLACK FORK CREEK
POINSETT CO. LINE- HWY. 63 BRS. & APPRS.
CRAIGHEAD COUNTY
ROUTE 49 SEC. 4
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: DHM DATE: -
CHECKED BY: WSB DATE: APR 83 SCALE: 1" = 20' - 0"
DESIGNED BY: WAS DATE: -

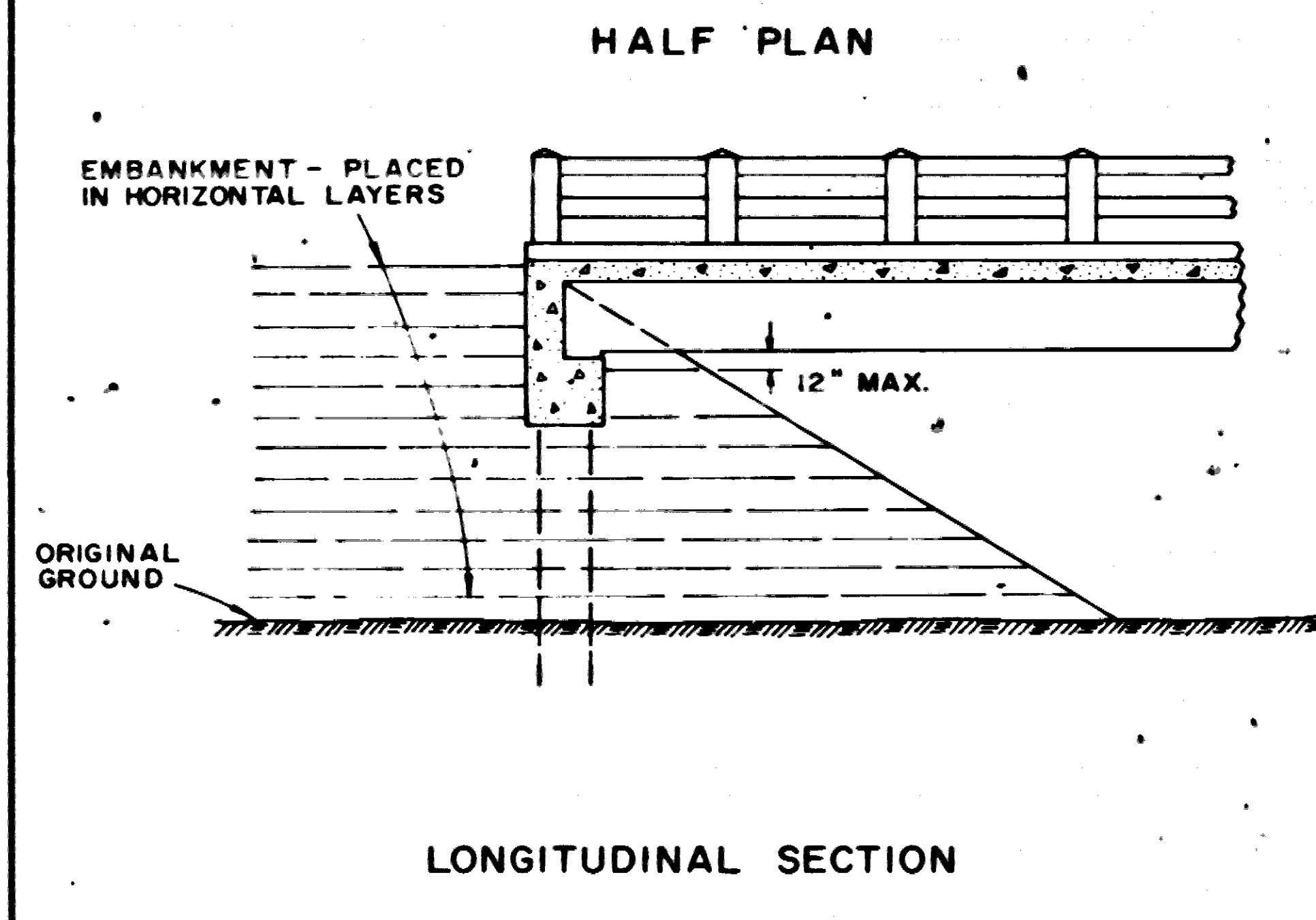
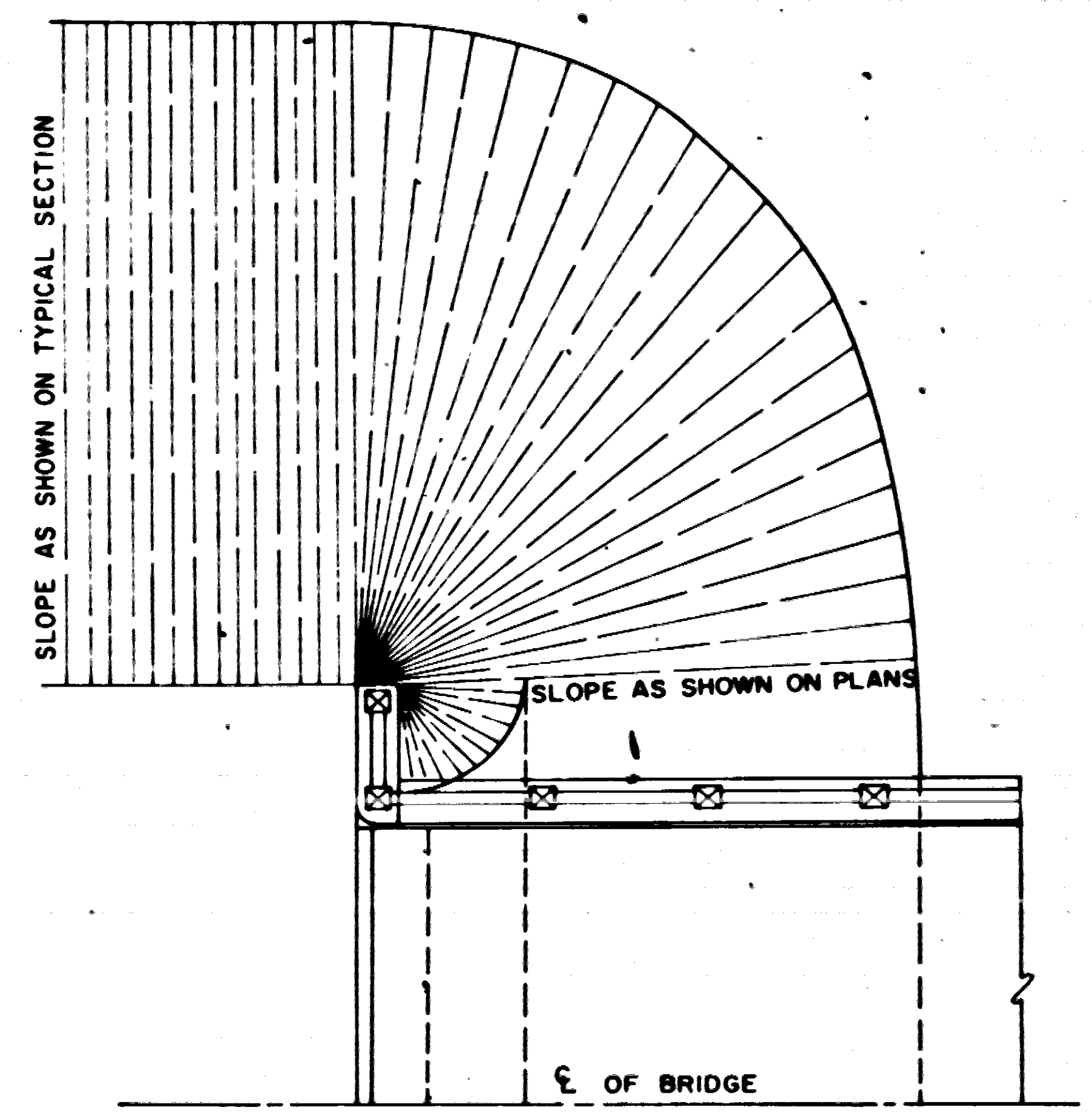
BRIDGE NO. 6012 DRAWING NO. 25899



PLAN
LONGITUDINAL SECTION
BOX CULVERT

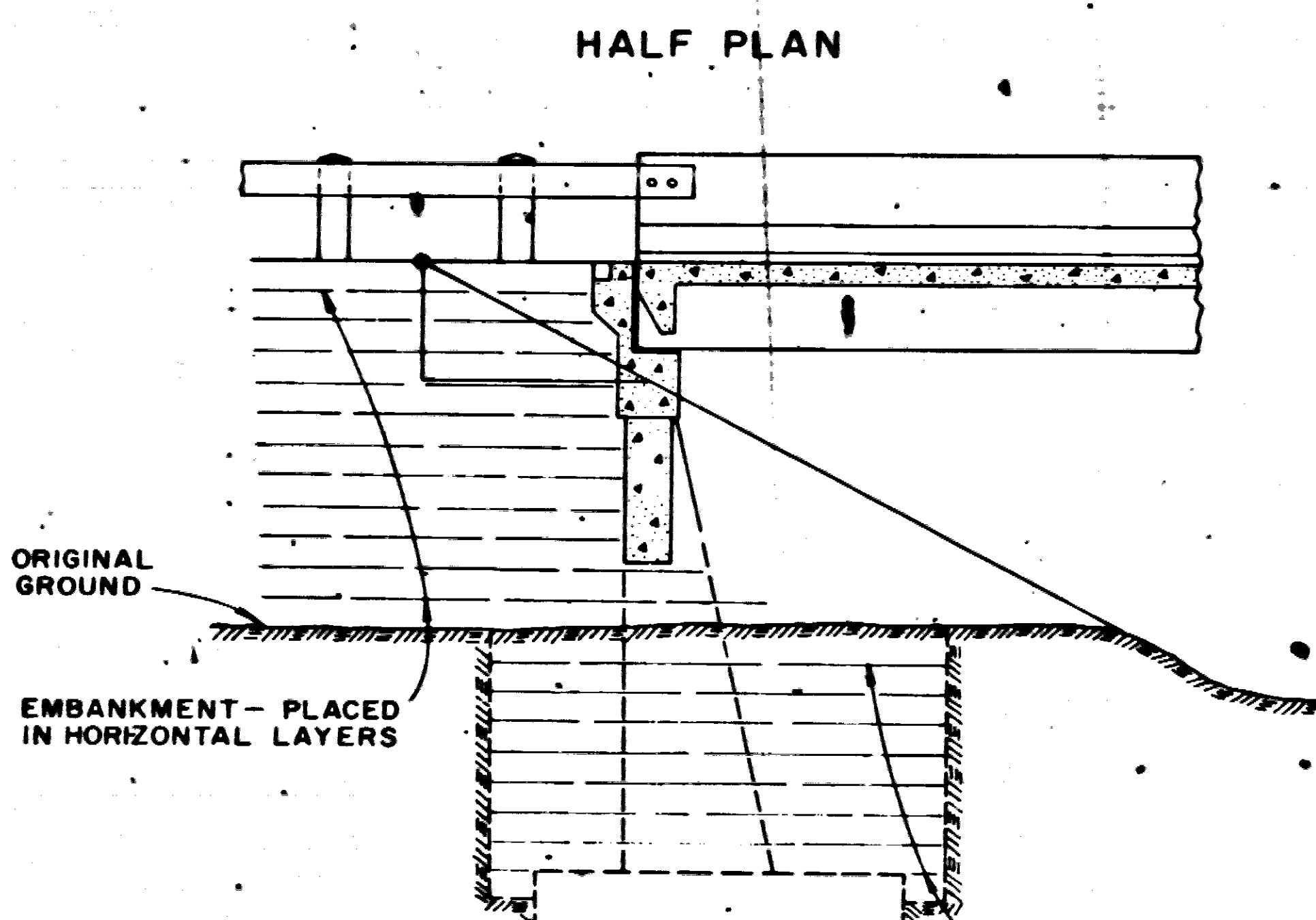
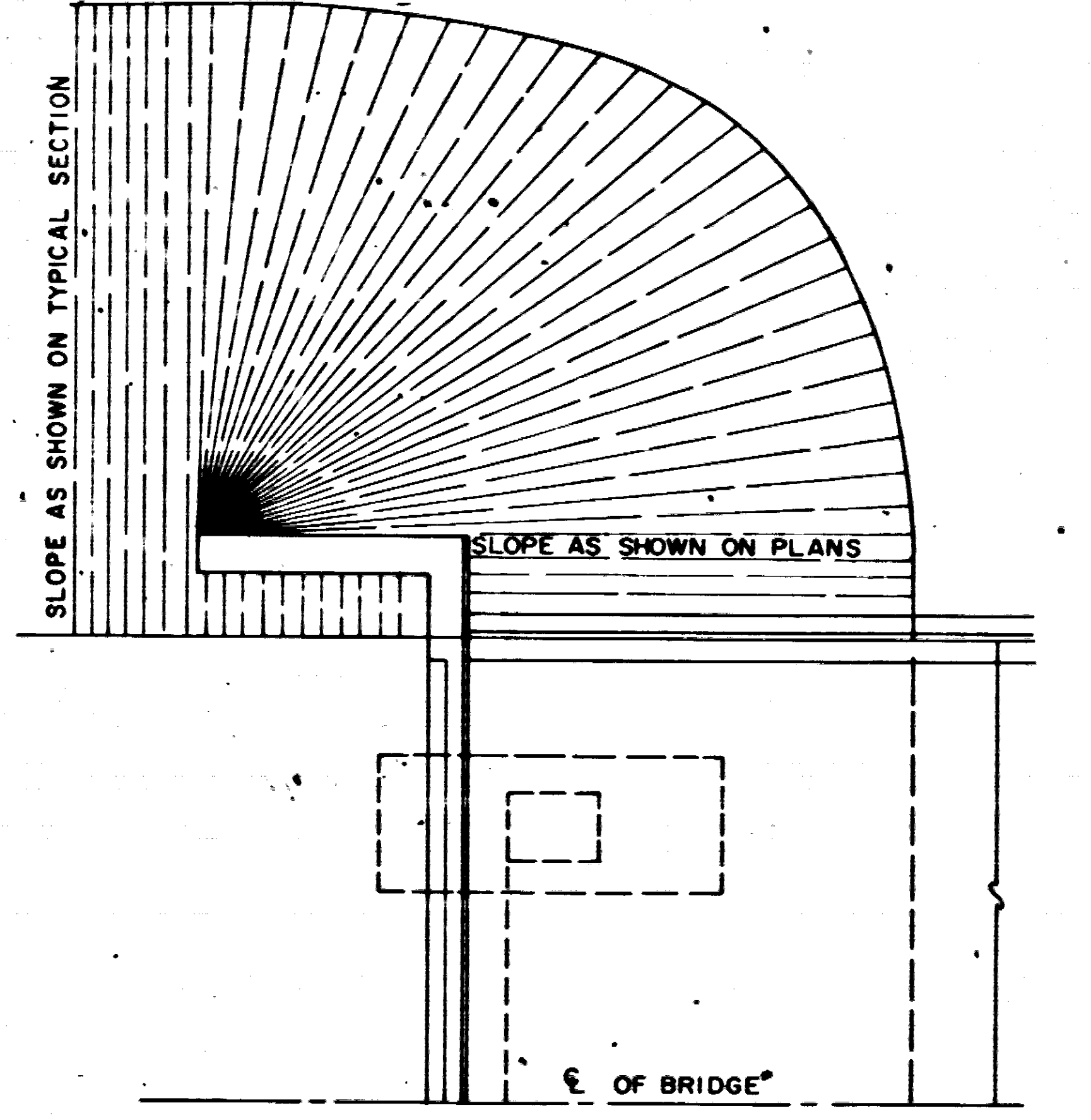


PLAN
SECTION A-A
PIPE CULVERT



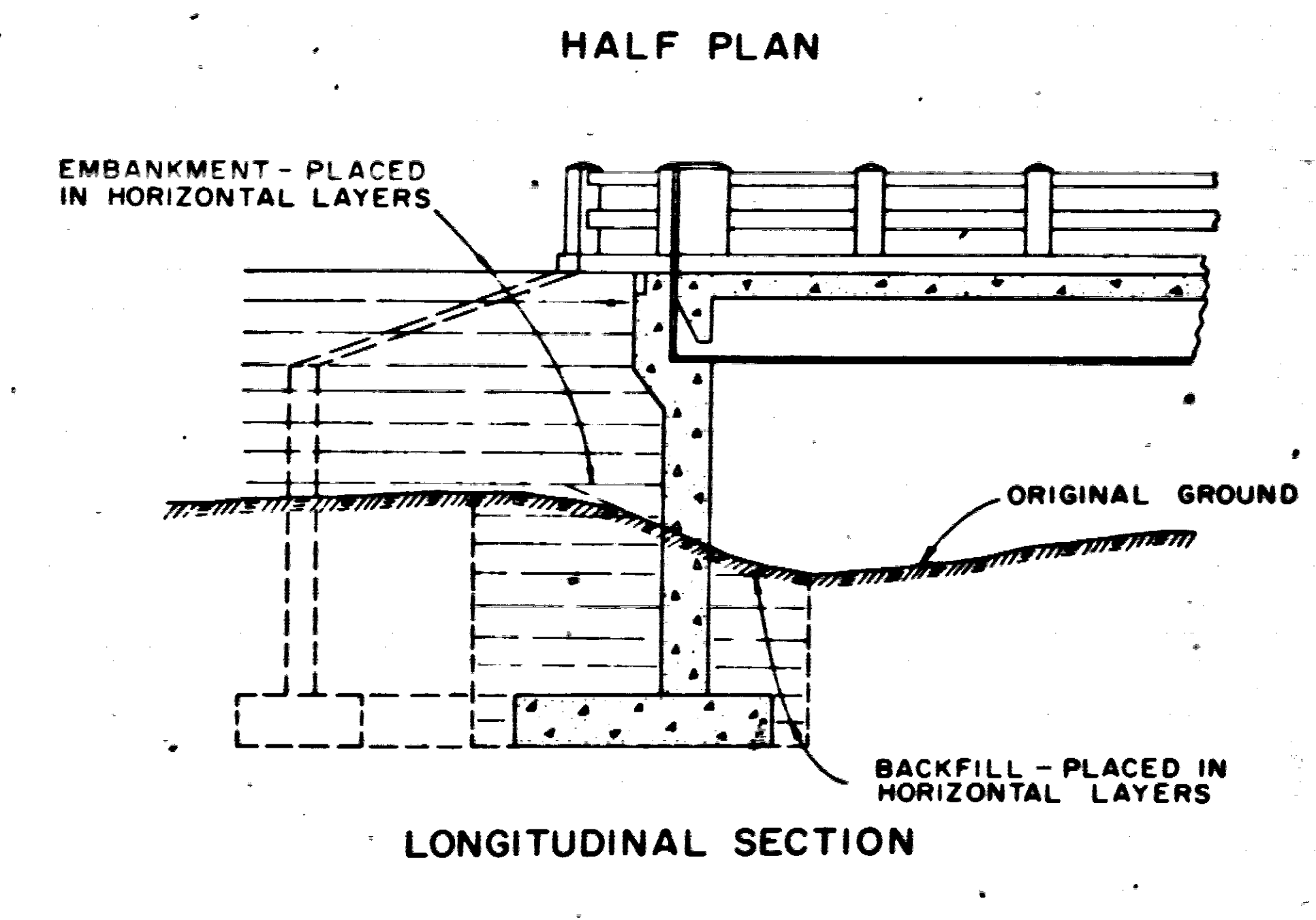
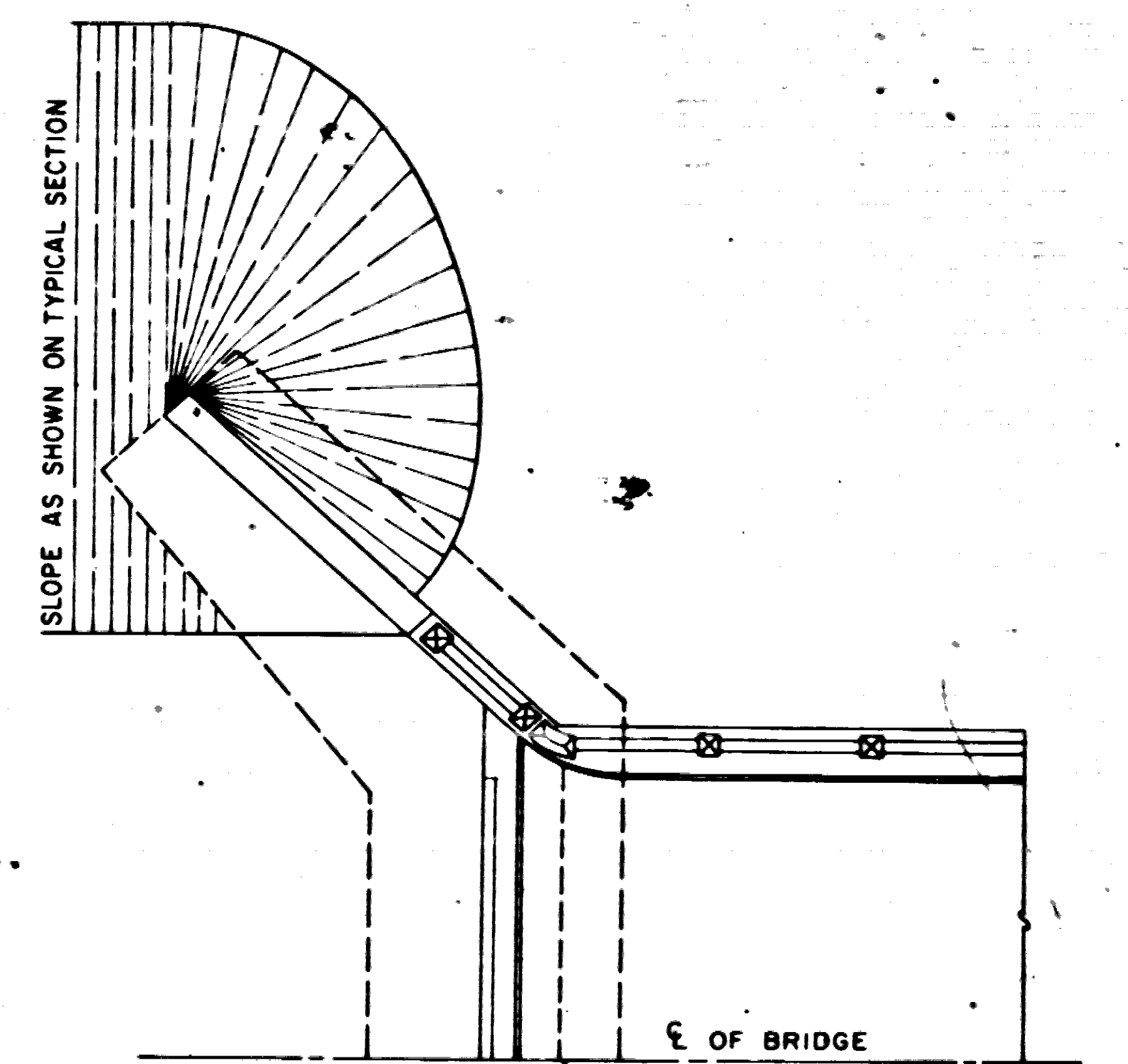
HALF PLAN
LONGITUDINAL SECTION
OPEN END ABUTMENT

CONSTRUCTION OF THE BRIDGE END EMBANKMENT
THE BRIDGE END EMBANKMENT SHALL BE DEFINED AS NOT LESS THAN 20 FEET OF EMBANKMENT ADJACENT TO THE END OF THE BRIDGE TOGETHER WITH THE SIDE SLOPES AND SLOPES UNDER THE BRIDGE END AND AROUND THE END OF WINGWALLS.
REFER TO SUB-SECTIONS 210.08 AND 210.09 OF THE SPECIFICATIONS FOR CONSTRUCTION REQUIREMENTS.



HALF PLAN
LONGITUDINAL SECTION
SEMI-STUB ABUTMENT AND
TURN BACK WING PILE BENT

BACKFILLING EXCAVATION
IN SO FAR AS PRACTICABLE, ABUTMENT EXCAVATIONS SHALL BE CUT TO THE SIZE SHOWN ON THE PLANS WITH ALLOWANCE OF 3 FEET ON ALL SIDES.
OVERSIZED AND FLARED CUTS TO AVOID THE USE OF SHEETING SHALL NOT BE PERMITTED.
BACKFILL AROUND THE WALL OR COLUMNS SHALL BE COMPACTED IN ACCORDANCE WITH SUB-SECTION 801.08 OF THE SPECIFICATIONS.



HALF PLAN
LONGITUDINAL SECTION
WINGWALL ABUTMENT

GENERAL NOTE
BACKFILL AND EMBANKMENT ADJACENT TO STRUCTURES TO BE CONSTRUCTED IN 4 INCH HORIZONTAL LAYERS (LOOSE MEASURE) AND COMPACTED TO THE SATISFACTION OF THE ENGINEER BY USE OF MECHANICAL EQUIPMENT.

ARKANSAS STATE HIGHWAY COMMISSION		
EMBANKMENT CONSTRUCTION AT BRIDGE ENDS AND BACKFILL FOR STRUCTURES		
STANDARD DRAWING		
1888A		
9-15-78	SECTION 202 TO 210	9-15-78
10-2-72	REVISED & REDRAWN	10-2-72
DATE	REVISION	DATE FILMED

DATE	DATE	DATE	DATE	FED. RES. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.				
				Sheet 1		APPR. GUT. 1898 U-1		

ALL BAR LIST-ONE GUTTER

TYPE IA GUTTER

Mark	No Req'd	Length	Skewed or Sq.
G401	16	3'-6"	Sq.
G402	1	2'-8"	Sq.
G403	2	*	Skew
G404	1	*	Skew
G405	17	3'-6"	Skew
G501	5	24'-8"	Sq.
G502	2	24'-2"	Sq.
G505 to G507	1ea	*	Skew
G508	2	*	Skew

TYPE IB GUTTER

Mark	No Req'd	Length	Skewed or Sq.
G401	15	3'-6"	Sq.
G402	1	2'-8"	Sq.
G403	2	*	Skew
G404	1	*	Skew
G405	16	3'-6"	Skew
G501	5	20'-8"	Sq.
G502	2	20'-2"	Sq.
G505 to G507	1ea	*	Skew
G508	2	*	Skew

TYPE IIA GUTTER

Mark	No Req'd	Length	Skewed or Sq.
G401 to G416	1ea	3'-7" to 4'-8"	Sq.
G417	1	2'-8"	Sq.
G418 to G434	1ea	3'-6" to 4'-8"	Skew
G435	2	*	Skew
G436	1	*	Skew
G501	6	24'-8"	Sq.
G502	2	24'-2"	Sq.
G503 to G508	1ea	*	Skew
G509	2	*	Skew

TYPE IIB GUTTER

Mark	No Req'd	Length	Skewed or Sq.
G401 to G413	1ea	3'-7" to 4'-5"	Sq.
G414	1	2'-8"	Sq.
G415	3	1'-2"	Sq.
G416 to G429	1ea	3'-6" to 4'-5"	Skew
G430	3	1'-2"	Skew
G431	2	*	Skew
G432	1	*	Skew
G501	3	20'-8"	Sq.
G502	2	20'-2"	Sq.
G503	3	24'-8"	Sq.
G504 to G506	1ea	*	Skew
G508	2	*	Skew
G509	1	*	Skew
G510	1	*	Skew
G511	1	*	Skew

* Find Length according to skew angle

TYPE IC, IC BRIDGE APPROACH

Type IC Approach consist of one half of Type IA and one half of Type IB. Type IC Approach consist of one half of Type IIA and one half of Type IIB. Use whenever called for on the bridge layout.

TABLE OF QUANTITIES (ONE GUTTER)

Type	Concrete	Reinf Steel
IA	3.03 yd ³	218 lb.
IB	4.97 yd ³	411 lb.
IIA	3.46 yd ³	251 lb.
IIB	5.42 yd ³	450 lb.

Note: All Quantities are Approx

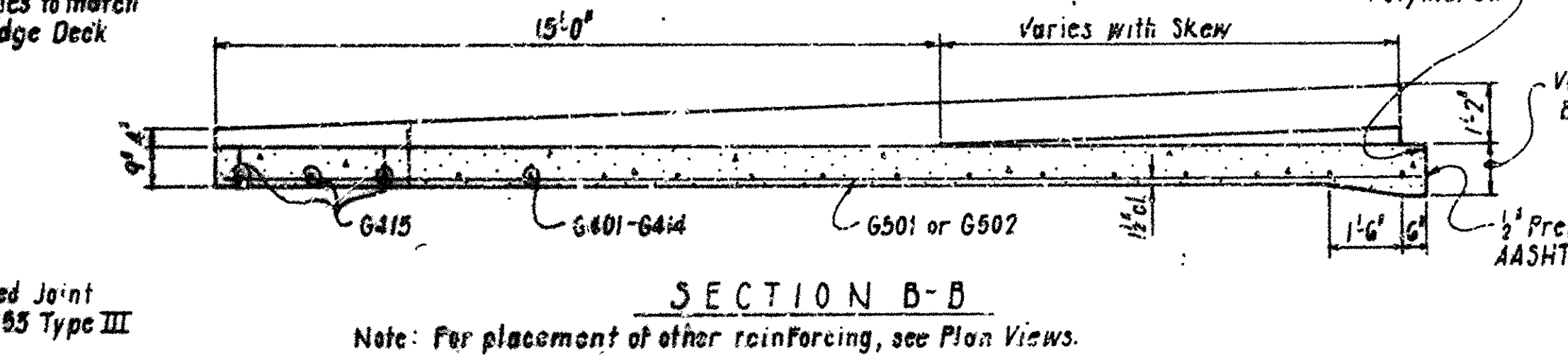
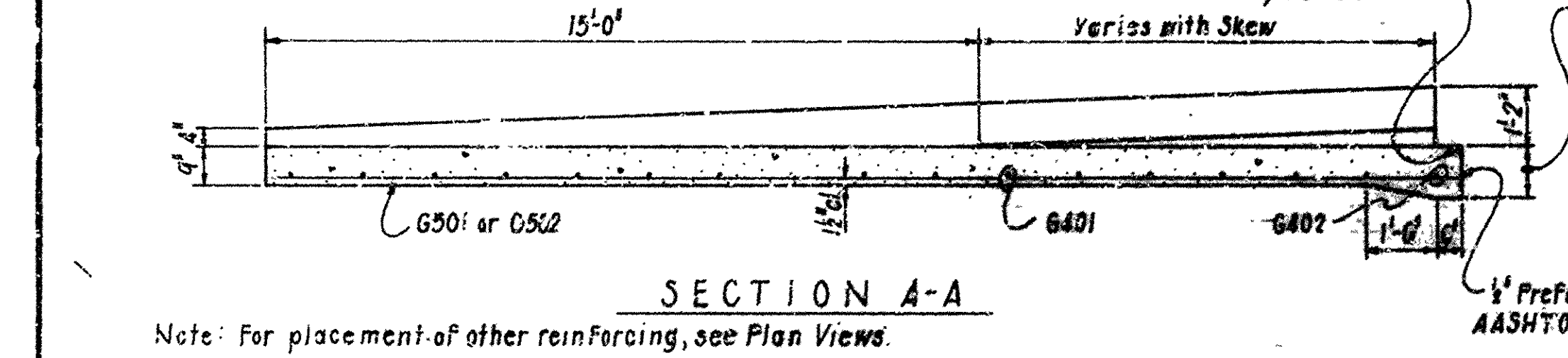
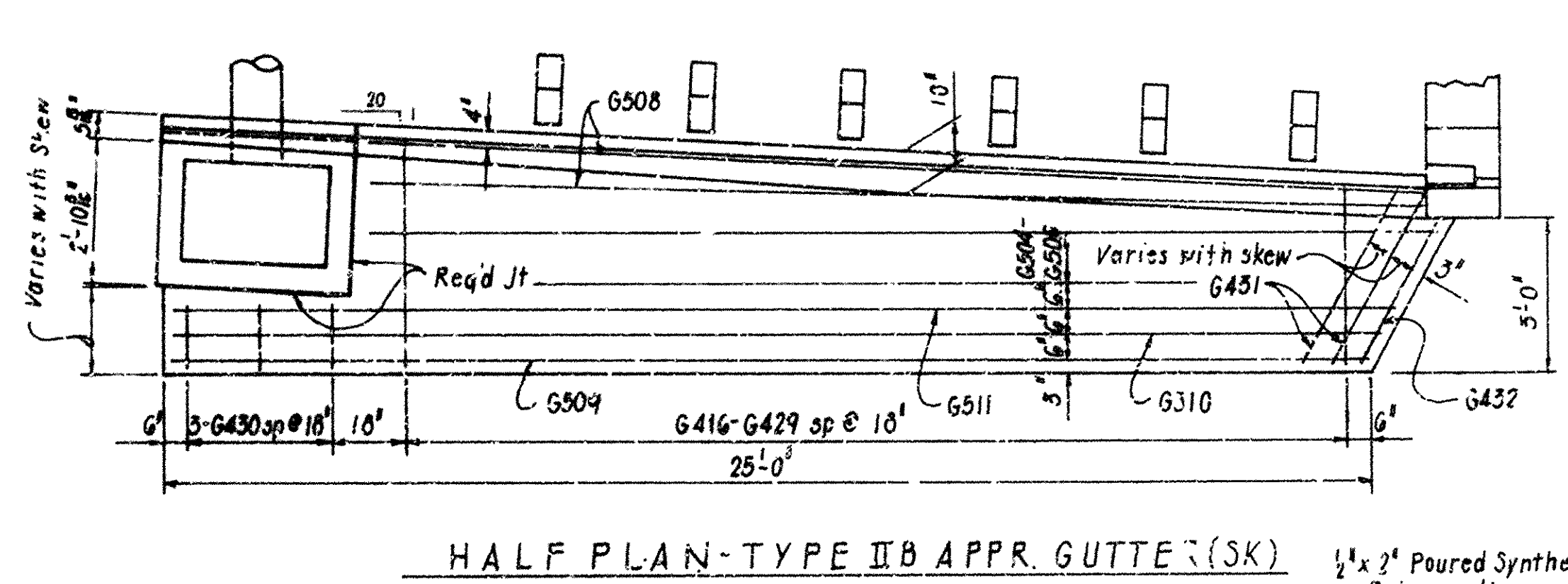
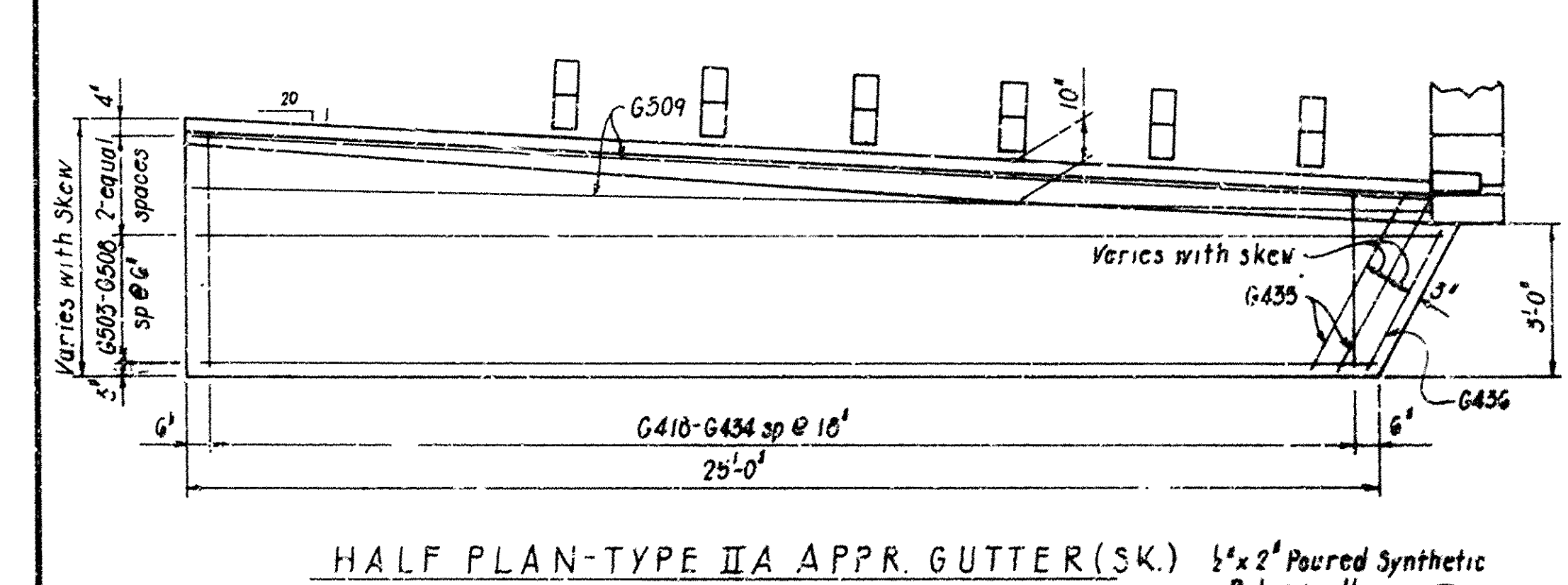
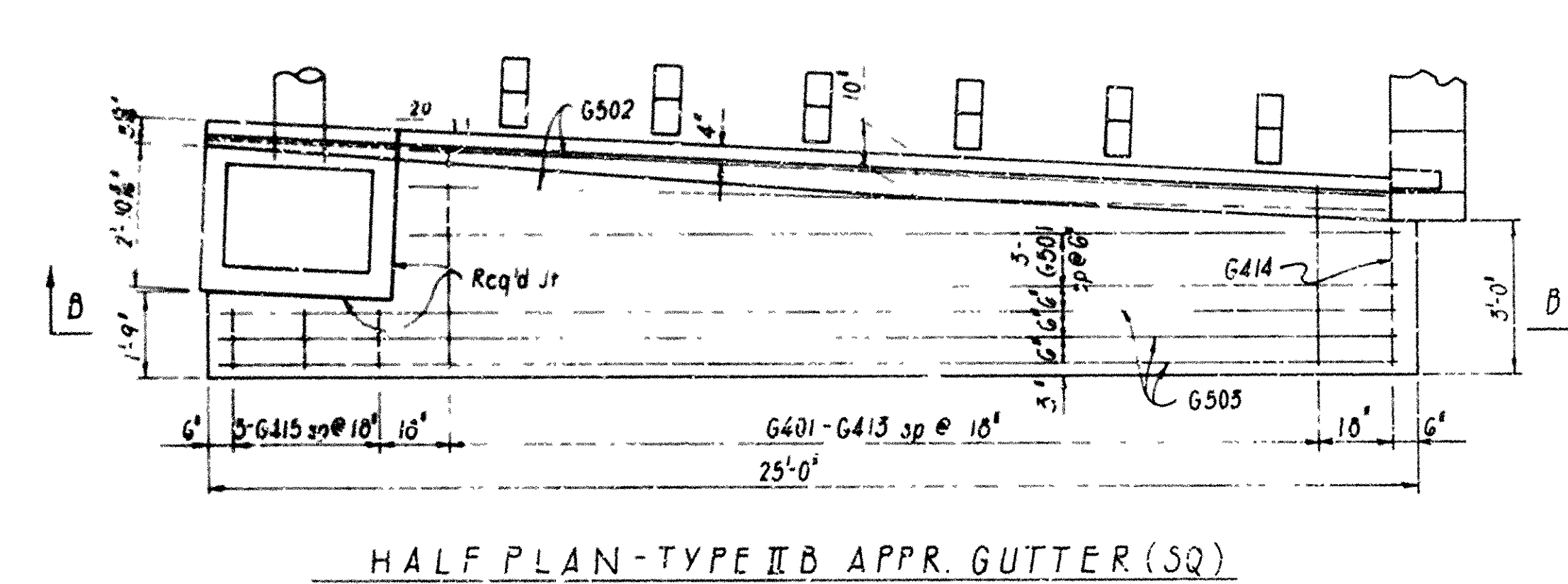
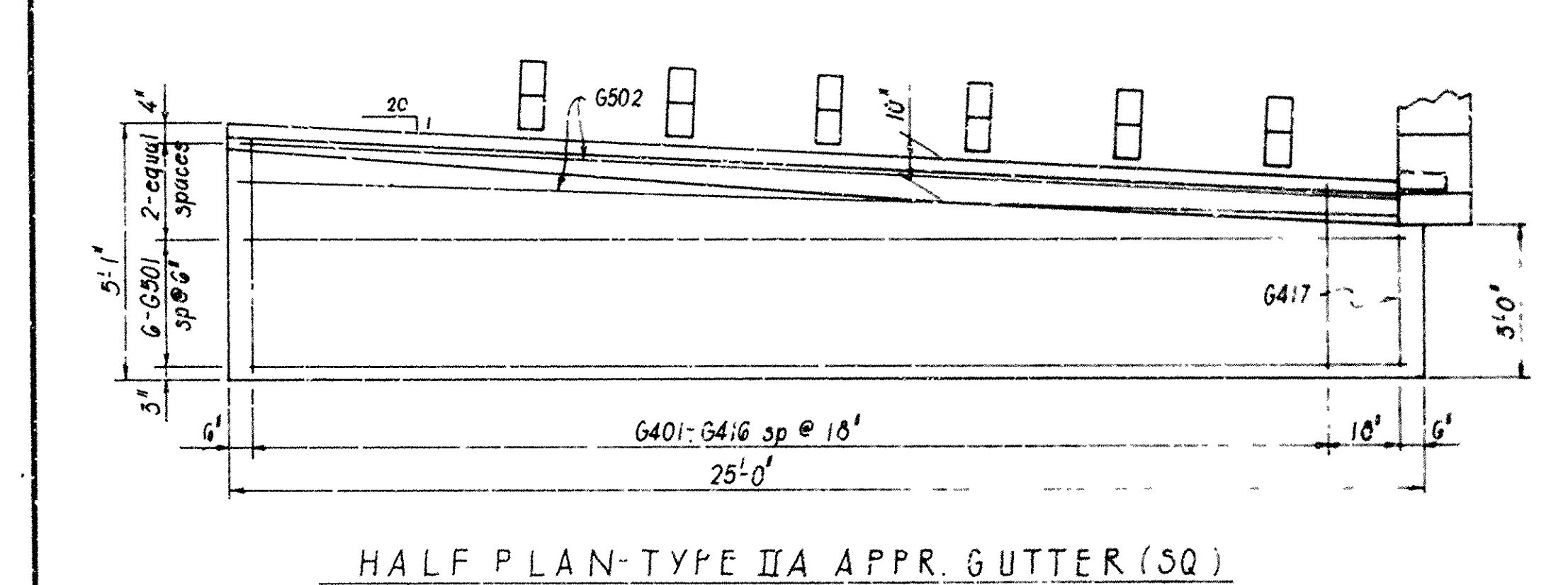
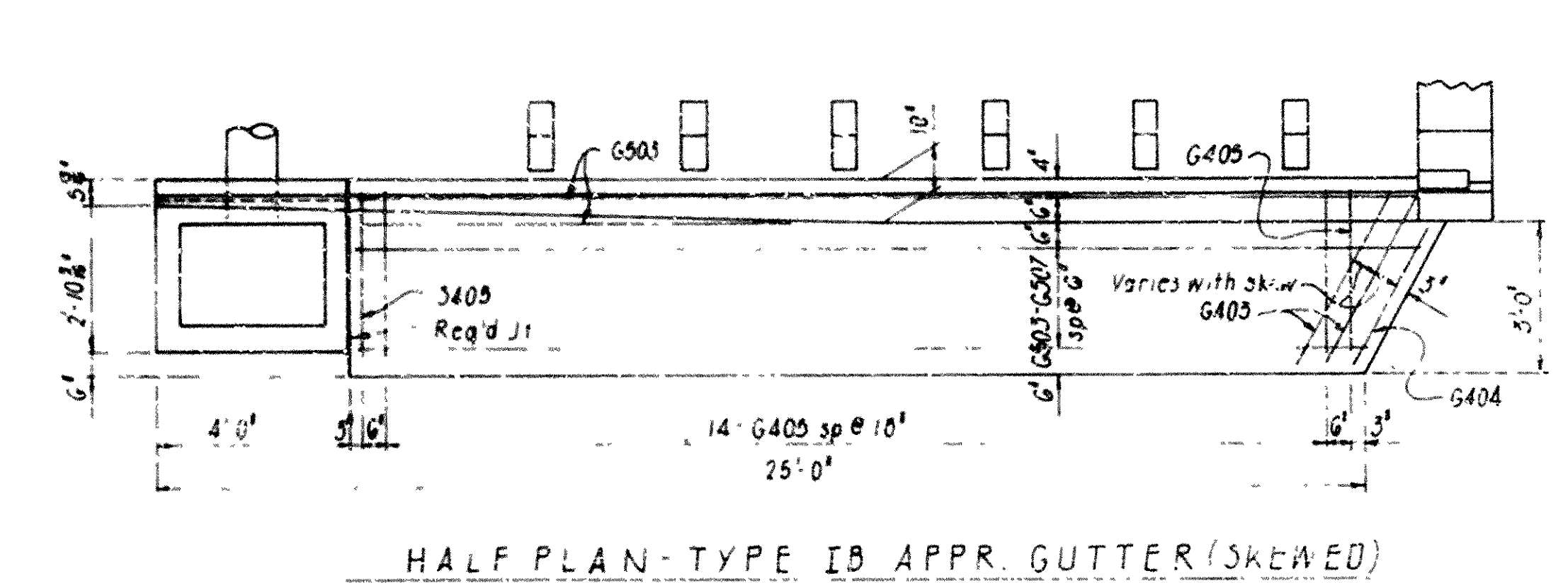
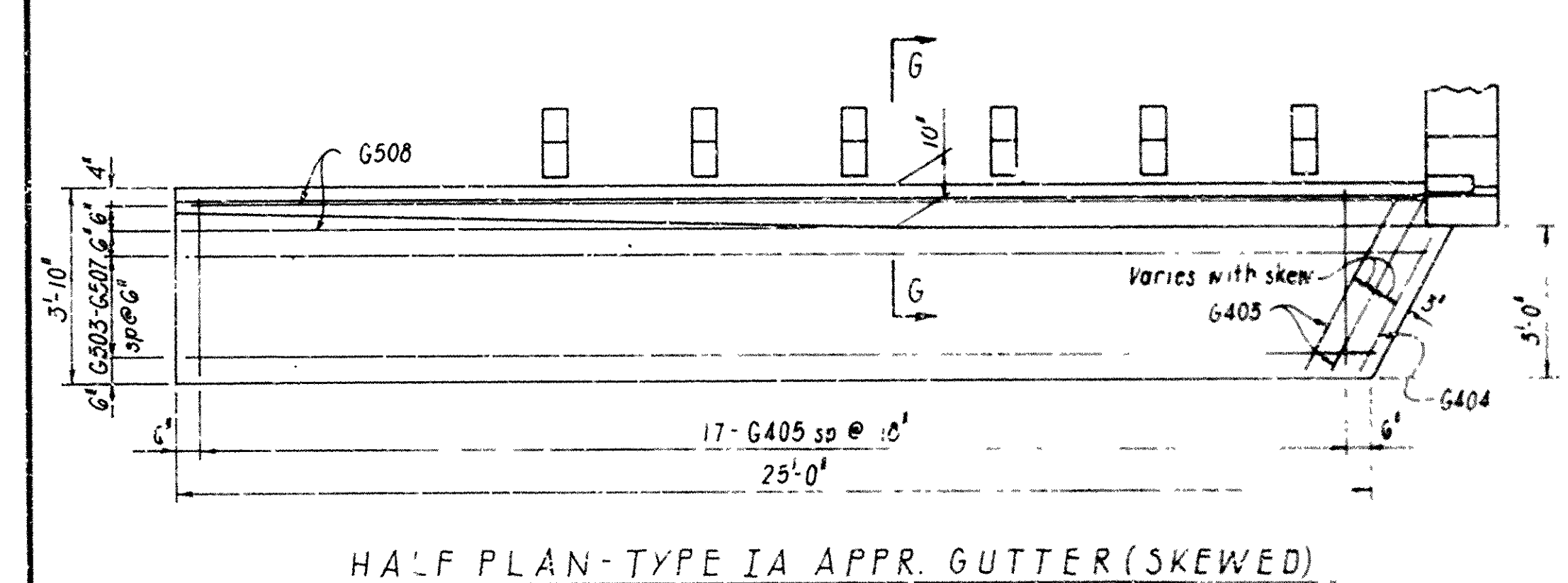
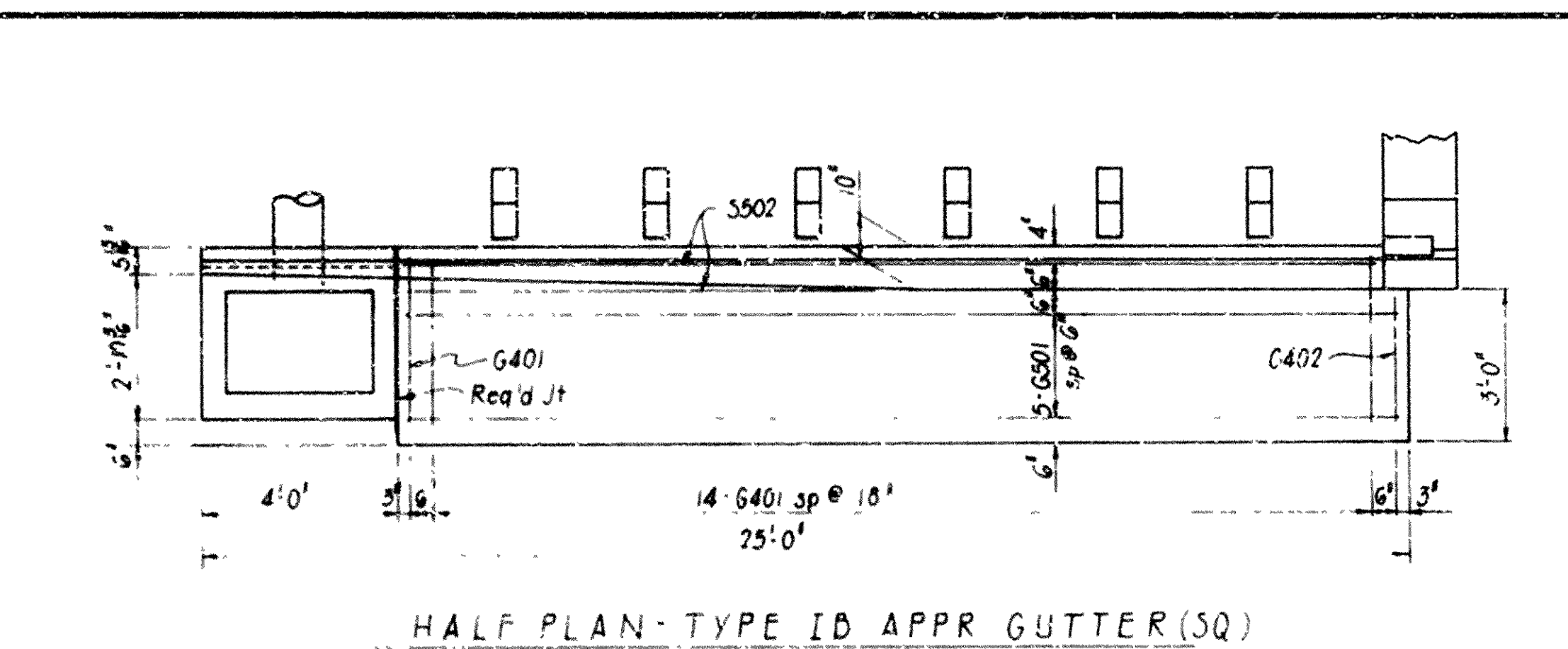
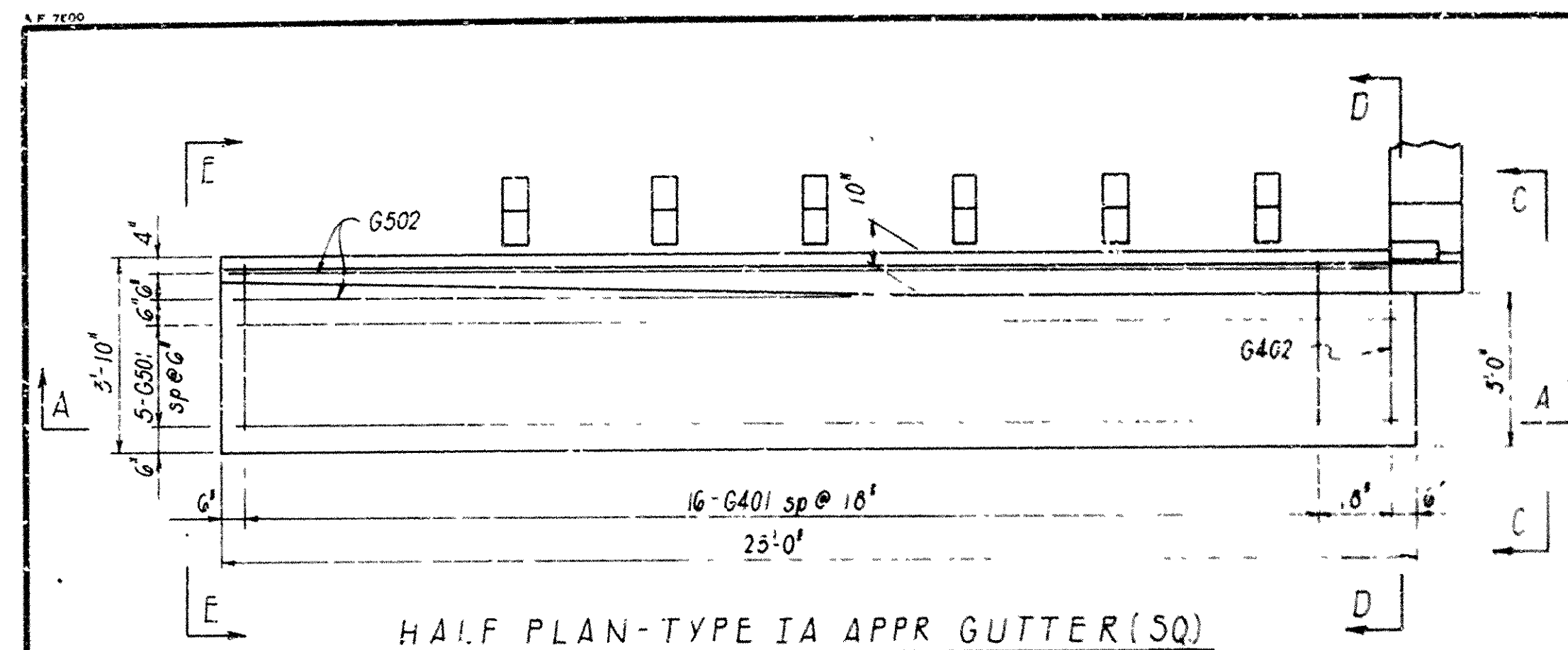
Note: For Details of Guard Rail Fence, see Std. Drawing. GR-8A
For Details of Guard Rail Connection, see Sheet 2-Dwg. 1898 U
For Details of Drop Inlet & Spillway, see Sheet 2-Dwg. 1898 U

SHEET 1 OF 2
DETAILS OF STANDARD
TYPE IA, IB, IIA, IIB, IC & IC
APPROACH GUTTERS

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

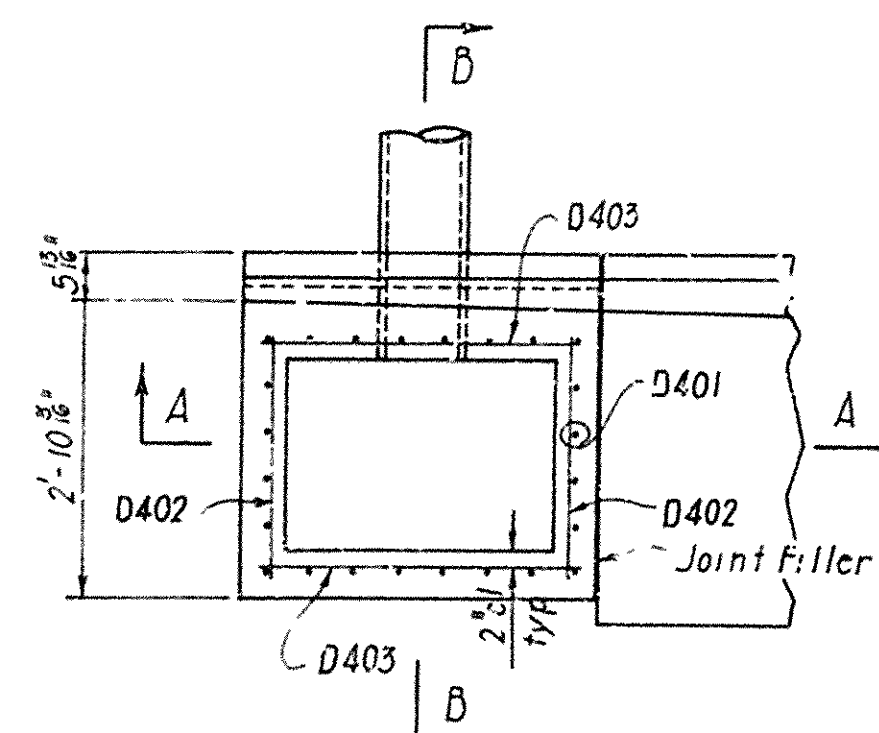
DESIGNED BY: L.M. DATE: 6-24-82
CHECKED BY: D.H.P. DATE: 7-14-82
SUPERVISED BY: D.F.L. DATE: 6-24-82
SCALE: 3/4" = 1'-0"

BRIDGE NO. DRAWING NO. 1898 U-1



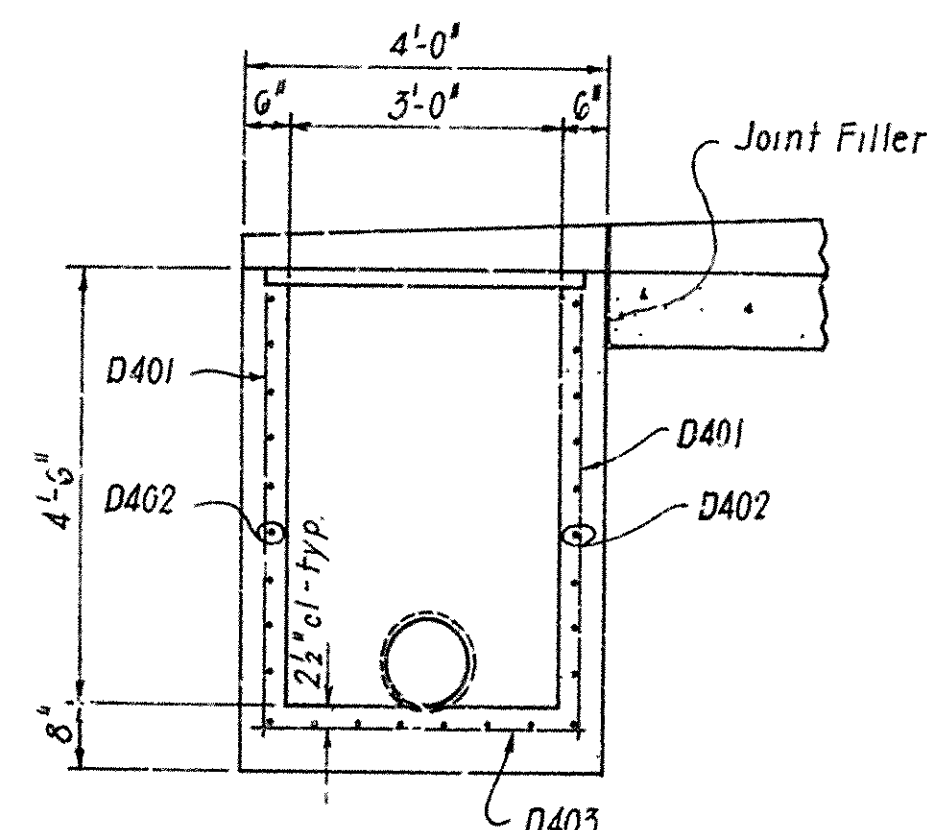
Note: For placement of other reinforcing, see Plan Views.

Note: For placement of other reinforcing, see Plan Views.

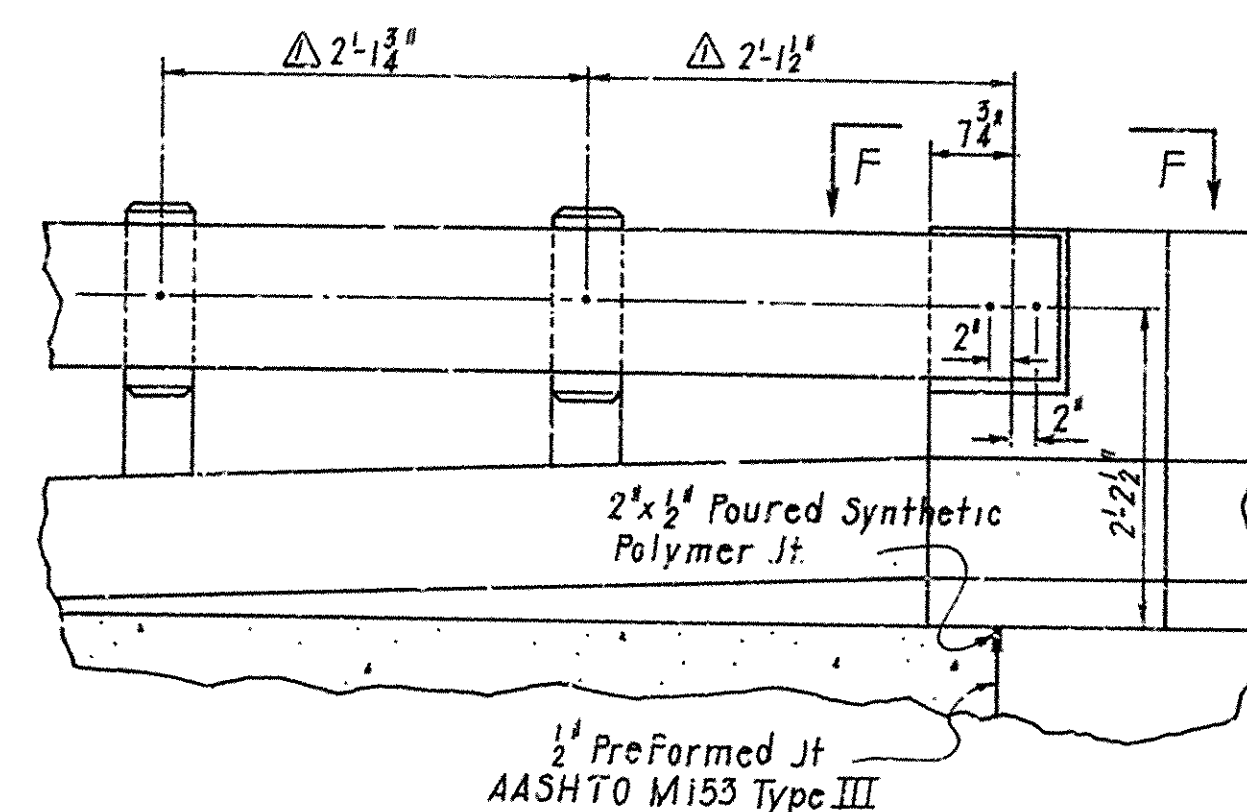


Note Joint Filler around Drop Inlet to be non-extruding preformed Joint Filler (AASHTO M153 Type III).

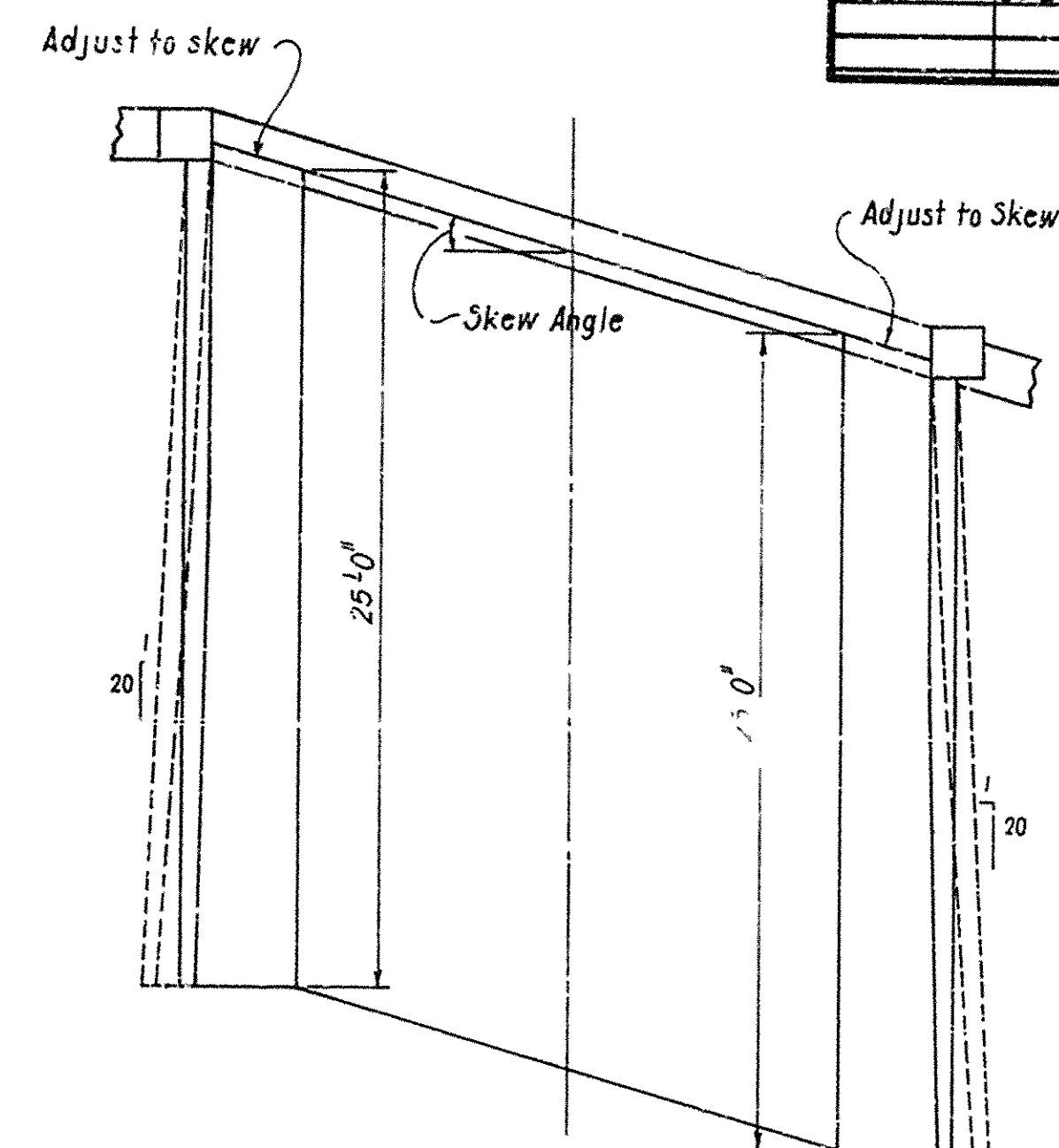
PLAN OF DROP INLET



SECTION A-A



TYPICAL RAIL CONNECTION



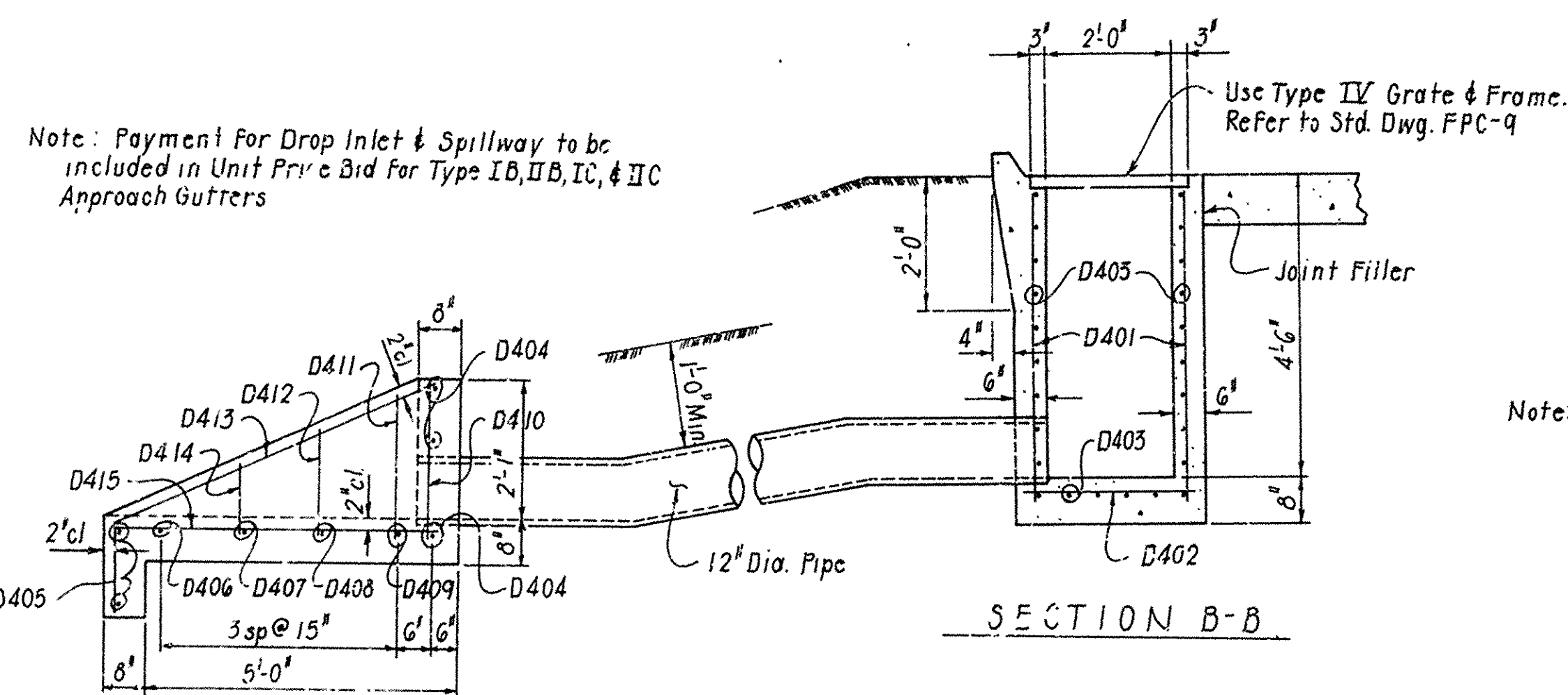
SKETCH SHOWING APPROACH FOR
SKWEVED BRIDGE

CONCRETE SHALL BE CLASS S OR CLASS S(AE) OR MIXTURE USED FOR PORTLAND CEMENT CONCRETE PAVEMENT.

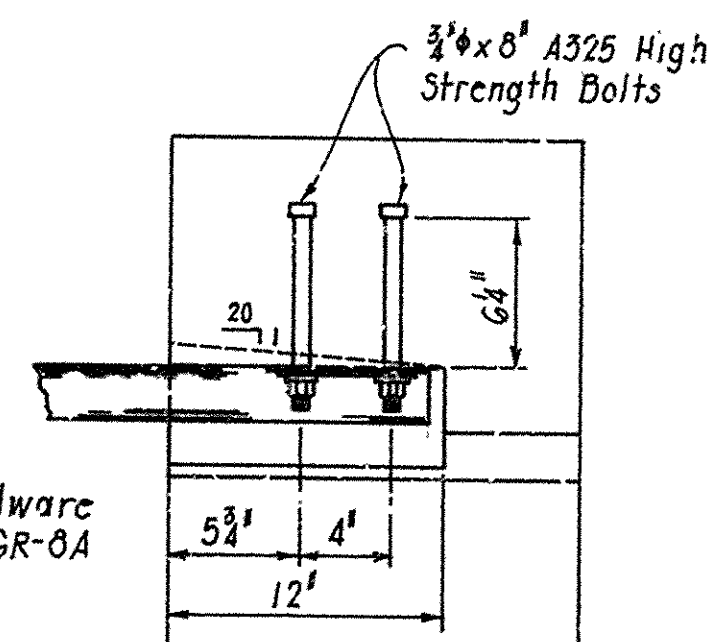
REINFORCEMENT STEEL SHALL CONFORM TO ASTM A615 OR A617 .

APPROACH GUTTERS FOR STRUCTURES SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH BID FOR "APPROACH GUTTERS" OF THE TYPE DESIGNATED, WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING MATERIALS, INCLUDING CONCRETE, REINFORCING STEEL, AND JOINT FILLER, PLACEMENT AND COMPACTION OF BASE MATERIAL FOR FORMS, MIXING, PLACING, CURING AND FINISHING, FOR EXCAVATION AND BACKFILL, AND FOR ALL LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

CORRUGATED METAL PIPE FOR SPILLWAYS, COMPLETED AND ACCEPTED, WILL BE MEASURED AS PROVIDED IN SECTION 606 OF THE STANDARD SPECIFICATIONS, EDITION OF 1978.

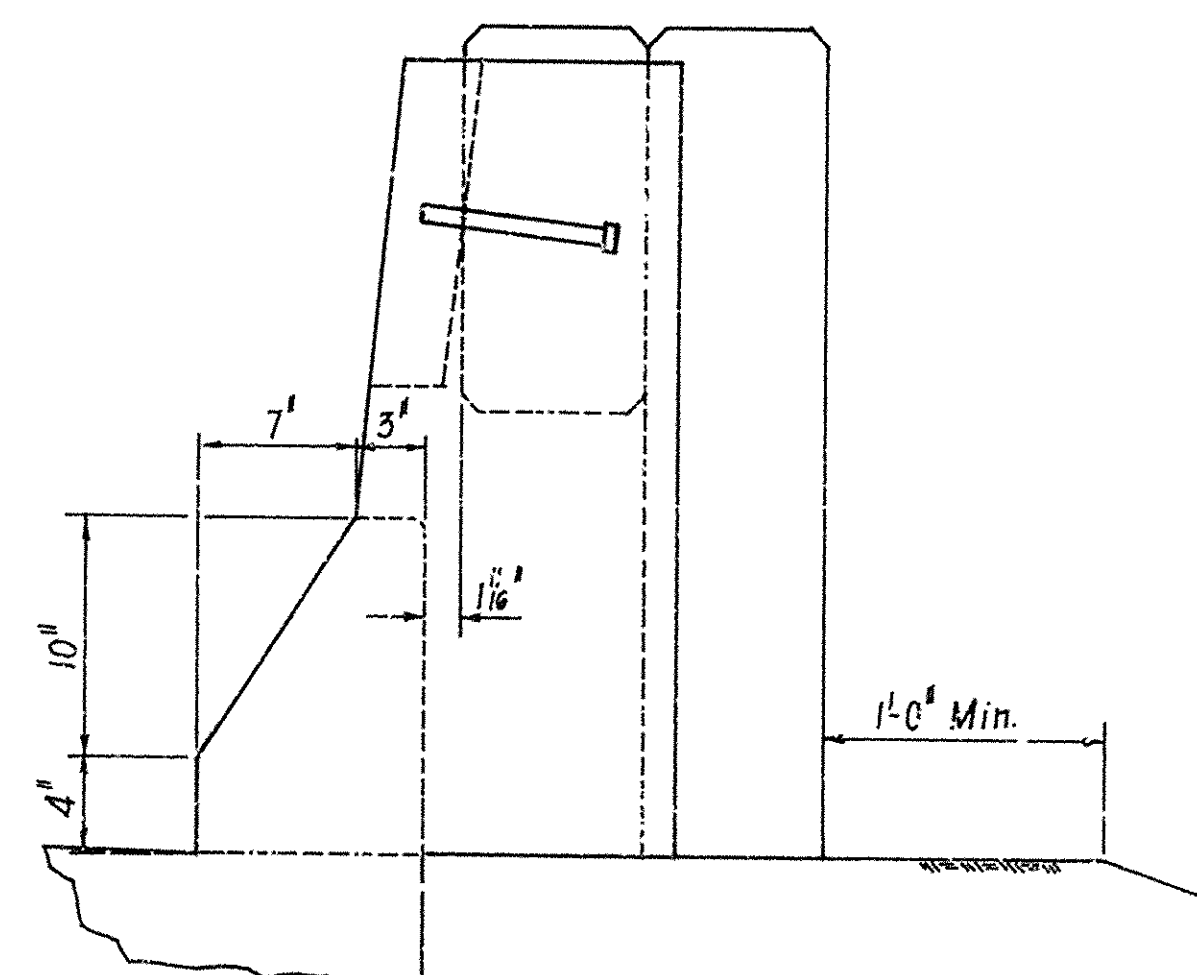


SIDE ELEVATION
SPILLWAY OUTLET

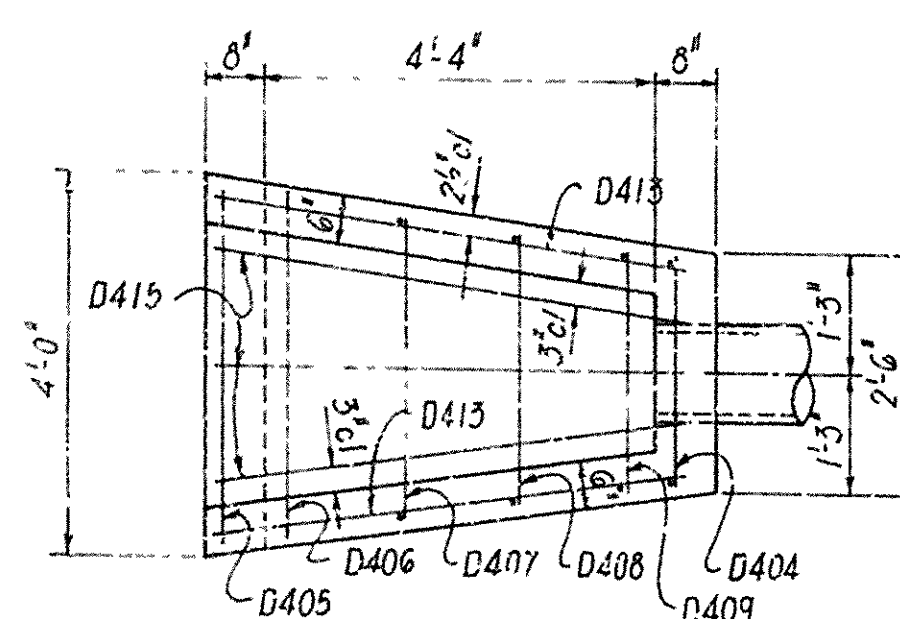


V I E W F - F

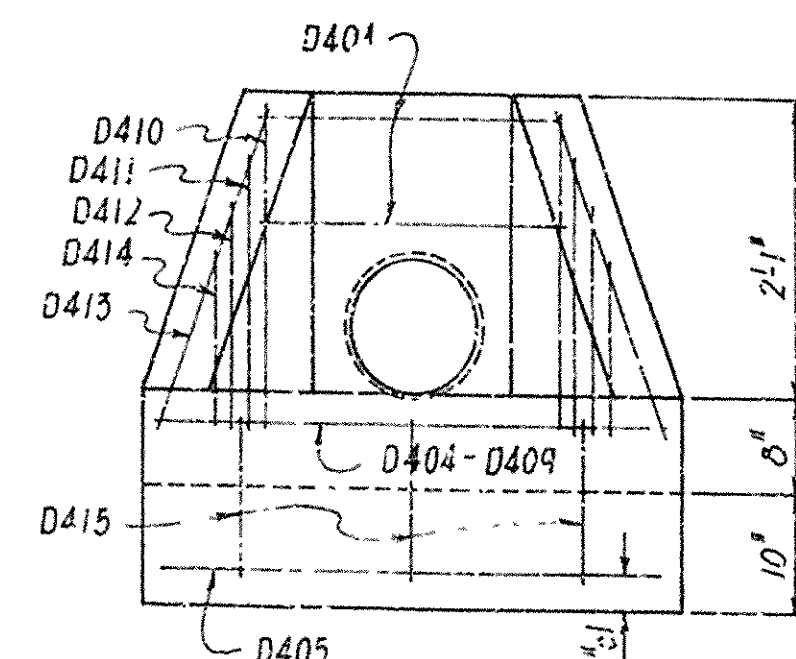
Note: For Details of Hardware
See Dwgs. GR-8 & GR-8A



VIEW C-C
 $I_2^n = I_1 - 0^n$



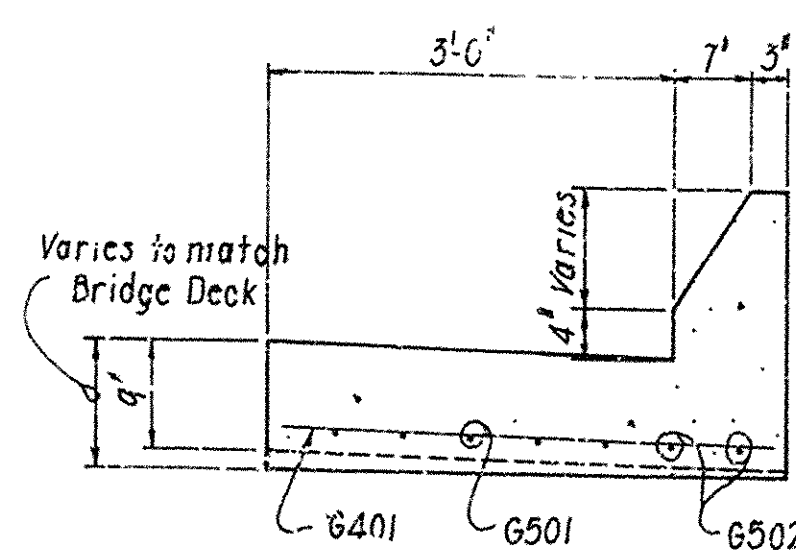
P L A N



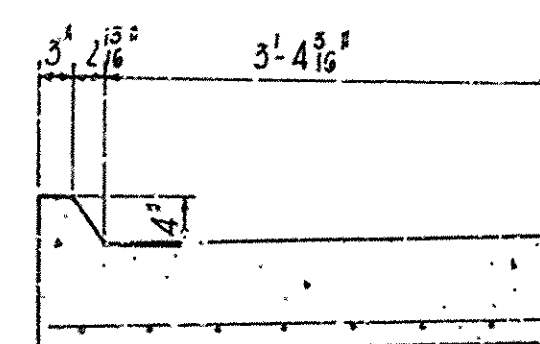
FRONT ELEVATION

BAR LIST

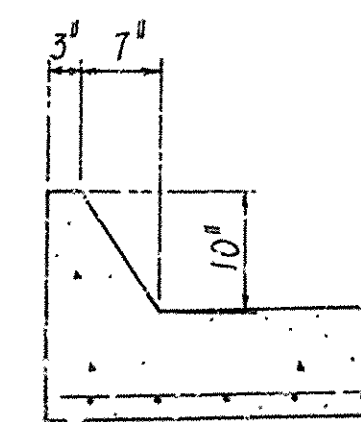
Mark	No. Req'd	Length	Bending Diagram
D401	24	4'-6"	
D402	26	2'-8"	
D403	24	3'-8"	
D404	3	2'-2"	
D405	2	3'-8"	
D406	1	3'-5"	
D407	1	3'-1"	
D408	1	2'-9"	
D409	1	2'-5"	
D410	2	2'-5"	
D411	2	2'-2"	
D412	2	1'-9"	
D413	2	5'-6"	
D414	2	1'-2"	
D415	3	6'-5"	



SECTION D-D



V I E W E - E
3' 4" - 1' 0"



SECTION G-G
 $\frac{3}{4}'' = 1'-0''$

△ Revised Post Spacing 2-28-83, L M.

SHEET 2 OF 2

DETAILS OF STANDARD
TYPE IA,IB,IIA,IIB,IC & IIC
APPROACH GUTTERS

ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION

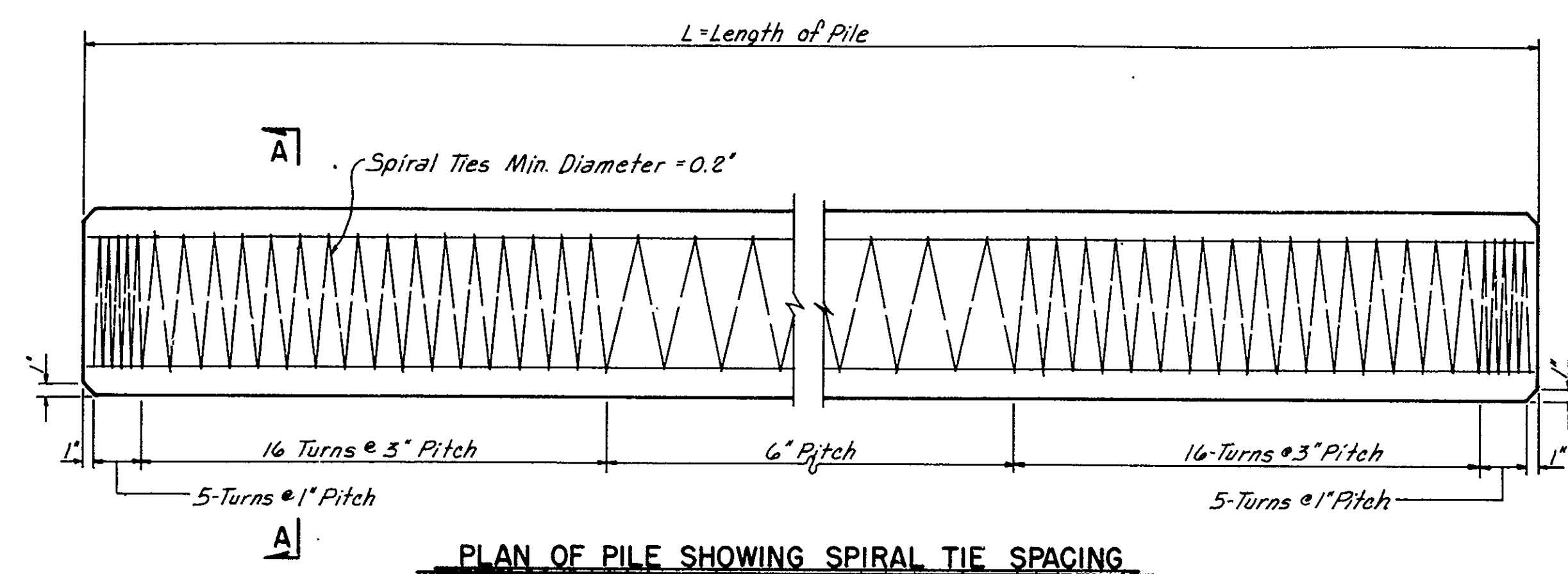
LITTLE ROCK, ARK.

DRAWN BY: LM DATE: 6-30-82

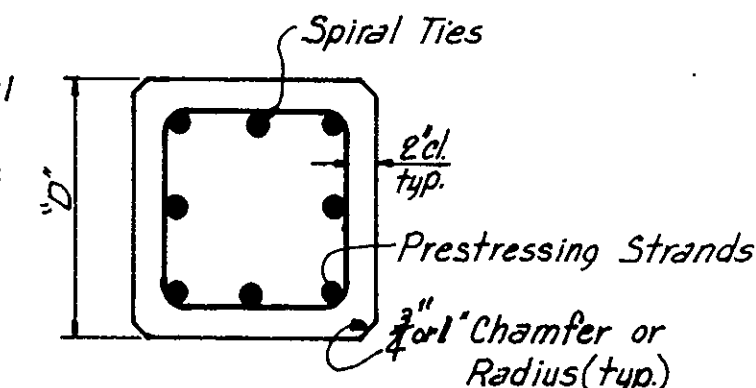
CHECKED BY: DHP DATE: 7-14-82 SCALE: $1\frac{1}{2} = 1.0"$ or as shown

DESIGNED BY: DFL DATE: 6-30-82

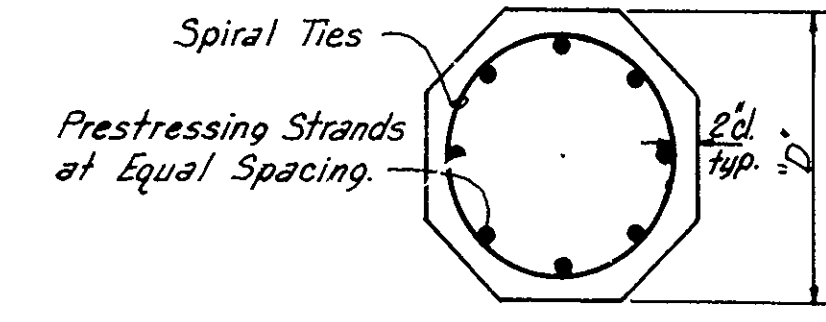
BRIDGE NO. DRAWING NO. 1898 U-2



NOTE: Strand location shall be symmetrical about the Axis of the pile with no more than one strand difference between any two adjacent sides.



SECTION A-A
SQUARE PILE



SECTION A-A
OCTAGONAL PILE

PRESTRESSED CONCRETE PILES

GRADE	STRAND DIAMETER	*NUMBER OF STRANDS PER PILE SIZE "D"						MINIMUM ULTIMATE TENSILE STRENGTH PER STRAND (LBS)	INITIAL PRESTRESSING FORCE PER STRAND (LBS)
		16" OCT.	18" OCT.	14" SQ.	16" SQ.	18" SQ.			
250	3/8"	14	18	14	16	22		20,000	14,000
	7/16"	11	13	10	12	16		27,000	18,900
	1/2"	8	10	8	10	12		36,000	25,200
270	3/8"	12	15	12	14	18		23,000	16,100
	7/16"	9	11	8	12	14		31,000	21,700
	1/2"	7	9	6	8	10		41,300	28,900

*Number Based on initial Prestress Force of 0.7 x Ultimate Tensile Stress, Prestress Losses, and Min. 700 psi Unit Prestress on concrete after Losses.

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1978, AND APPLICABLE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO 1977 WITH 1978 INTERIMS

CONCRETE: CONCRETE IN THE PRECAST PRESTRESSED PILES SHALL BE CLASS (S)(AE) AND SHALL HAVE A MINIMUM COMPRESSIVE CYLINDER STRENGTH (f_c) OF 5000 PSI AT 28 DAYS. COMPRESSIVE CYLINDER STRENGTH AT TRANSFER OF THE PRESTRESSING FORCE SHALL BE NOT LESS THAN 4000 PSI.

(f_c) OF 3500 PSI.

CONCRETE IN BUILD-UPS SHALL HAVE A MINIMUM COMPRESSIVE CYLINDER STRENGTH

PRESTRESSING REINFORCEMENT: SEVEN WIRE STRESS RELIEVED STRAND SHALL CONFORM TO THE GENERAL REQUIREMENTS OF ASTM A416. BROKEN WIRES WITHIN INDIVIDUAL STRANDS WILL BE PERMITTED UP TO 2% OF THE TOTAL NUMBER OF WIRES IN EACH PILE, PROVIDING THAT THERE IS NOT MORE THAN ONE BROKEN WIRE PER STRAND. TWO OR MORE BROKEN WIRES PER STRAND WILL BE CAUSE FOR REPLACEMENT OF THE STRAND, EVEN THOUGH THE TWO BROKEN WIRES ARE WITHIN THE 2% LIMITATION.

BUILD-UPS: TO PROVIDE FOR BUILD-UPS OF PILES WHERE AUTHORIZED BY THE ENGINEER, CONCRETE SHALL BE CUT BACK TO EXPOSE THE STRANDS FOR A DISTANCE SUFFICIENT TO PROVIDE A LAP OF 40 DIAMETERS OF THE REINFORCING BARS REQUIRED FOR BUILD-UP. REINFORCING FOR BUILD-UPS SHALL HAVE A MINIMUM AREA EQUAL TO 1-1/2% OF THE GROSS SECTION OF PILE. PLACEMENT OF BARS SHALL BE IN A SYMMETRICAL PATTERN OF NOT LESS THAN FOUR BARS. SEE SECTION 805.14 OF THE STANDARD SPECIFICATIONS.

FORMS: FOR FORMING EXTERIOR OF PILES, THE USE OF STEEL FORMS ON CONCRETE FOUNDED CASTING BEDS IS REQUIRED, UNLESS OTHERWISE APPROVED BY THE ENGINEER. SIDE FORMS MAY HAVE A MAXIMUM DRAFT ON EACH SIDE NOT EXCEEDING 1/4" PER FOOT.

TOLERANCES: PILE ENDS SHALL BE PLANE SURFACES AND PERPENDICULAR TO AXIS OF PILE WITH A MAXIMUM TOLERANCE OF 1/8" PER FOOT TRANSVERSELY.

THE MAXIMUM SWEEP DEVIATION FROM STRAIGHTNESS MEASURED ALONG TWO PERPENDICULAR FACES OF THE PILE, WHILE NOT SUBJECT TO BENDING FORCES) SHALL NOT EXCEED 1/8" IN 10' OF ITS LENGTH.

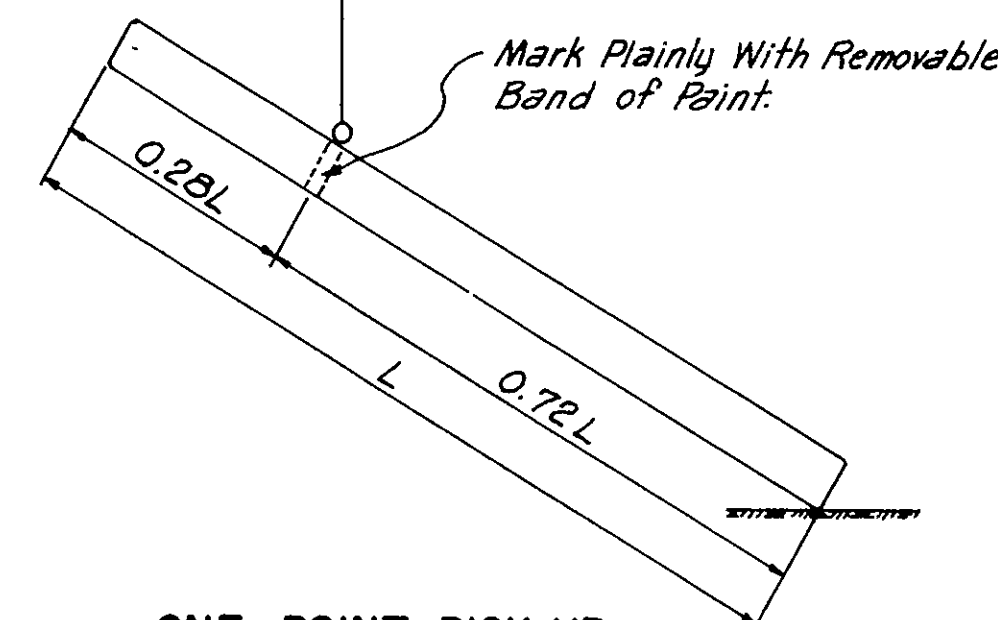
GENERAL: SHIPMENT OF PILES FROM THE PLANT SITE OR PILE DRIVING WILL NOT BE PERMITTED UNTIL THE REQUIRED MINIMUM CYLINDER STRENGTH IS REACHED, AND IN NO CASE LESS THAN 10 DAYS AFTER POURING THE CONCRETE. PILES MAY BE REMOVED FROM CASTING BED TO A NEARBY STORAGE ANY TIME AFTER TRANSFER OF STRESS.

SPIRAL REINFORCING: SPIRAL REINFORCING SHALL BE STEEL WIRE MEETING THE REQUIREMENTS OF ASTM A82 WITH A MINIMUM DIAMETER OF 0.2" OR SHALL BE PLAIN ROUND STEEL BARS MEETING THE REQUIREMENTS OF ASTM A615, WITH A MINIMUM DIAMETER OF 0.25".

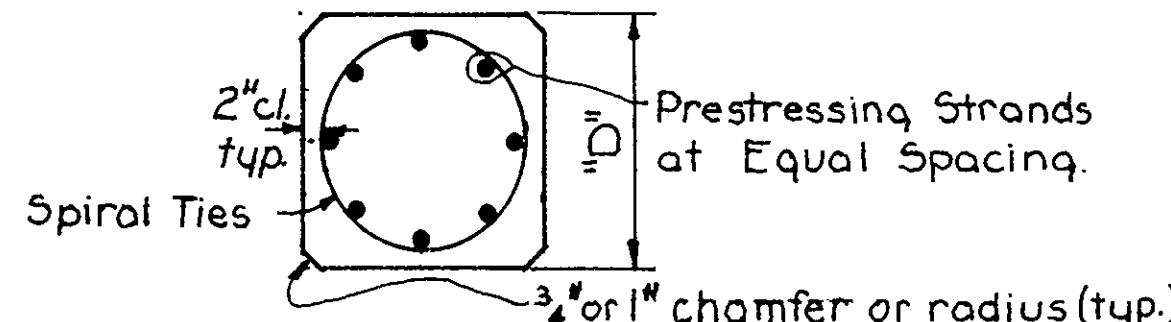
MANUFACTURE, TRANSPORTATION AND STORAGE: SEE SECTION 802 "CONCRETE FOR STRUCTURES" OF THE STANDARD SPECIFICATIONS.

INSTALLATION, MEASUREMENT AND PAYMENT: SEE SECTION 805 "BEARING PILING" OF THE STANDARD SPECIFICATIONS. PRECAST PRESTRESSED CONCRETE PILING WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FOOT BID FOR "PRECAST CONCRETE PILING".

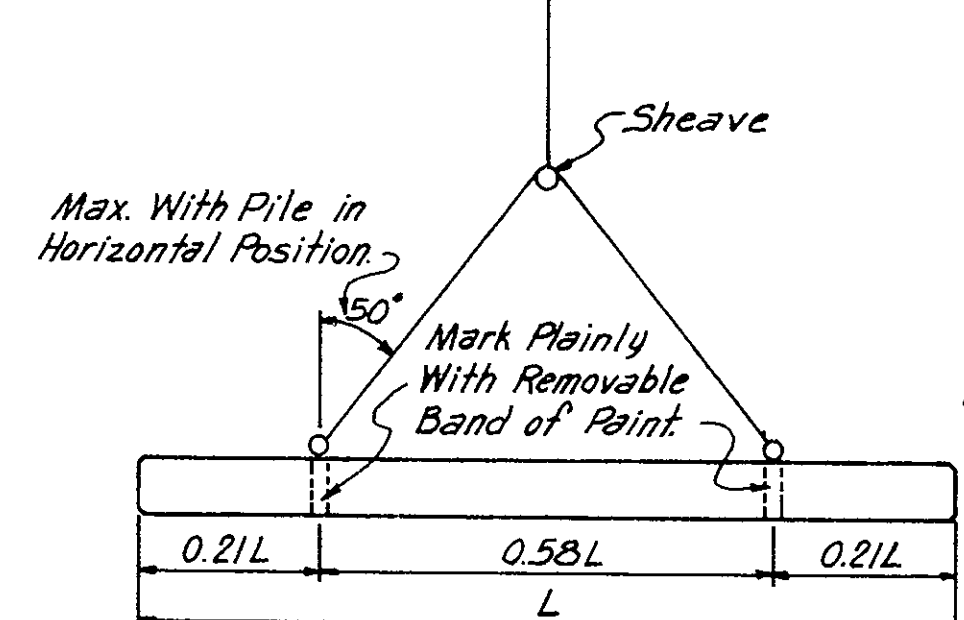
TYPE OF PICK-UP	MAXIMUM PICKUP LENGTHS L									
	PRESTRESSED 16" OCT.	PRESTRESSED 18" OCT.	PRECAST 16" or 18" OCT.	PRESTRESSED 14" SQ.	PRESTRESSED 16" SQ.	PRESTRESSED 18" SQ.	PRECAST 14" SQ.	PRECAST 16" SQ.	PRECAST 18" SQ.	
ONE-POINT	52'	55'	46'	55'	59'	63'	52'	51'	55'	
TWO-POINT	75'	80'	67'	79'	84'	90'	75'	74'	79'	
THREE-POINT	105'	112'	93'	110'	117'	126'	104'	103'	111'	



ONE POINT PICK-UP



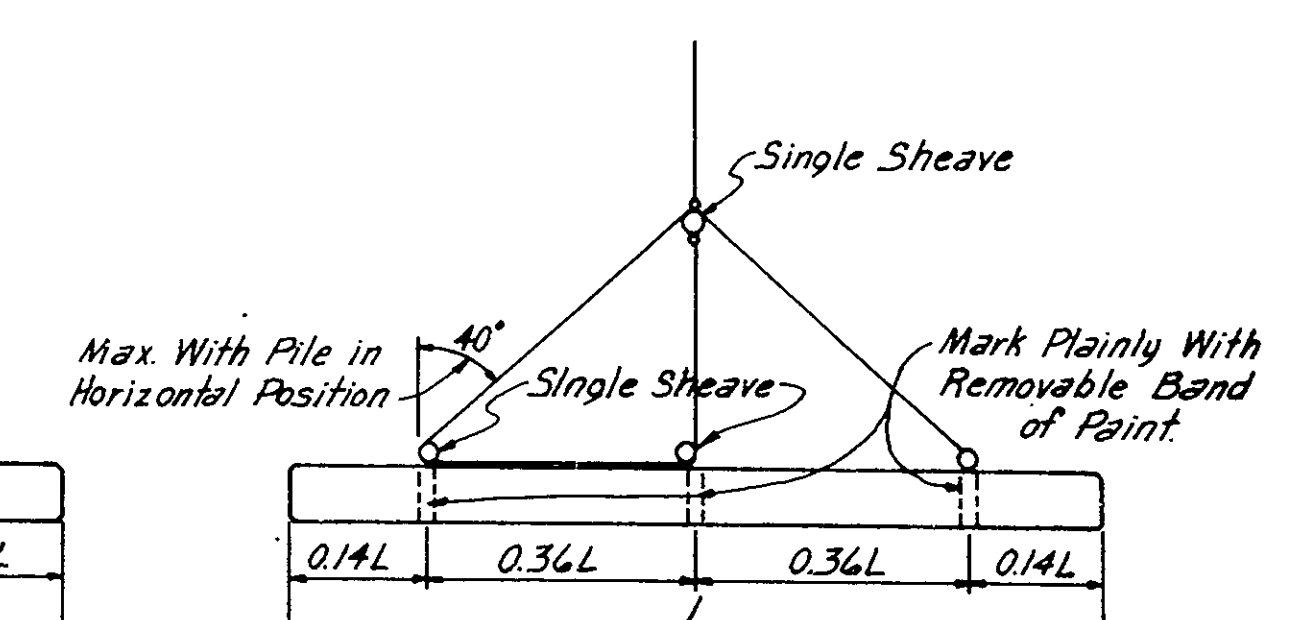
SECTION A-A
SQUARE PILE



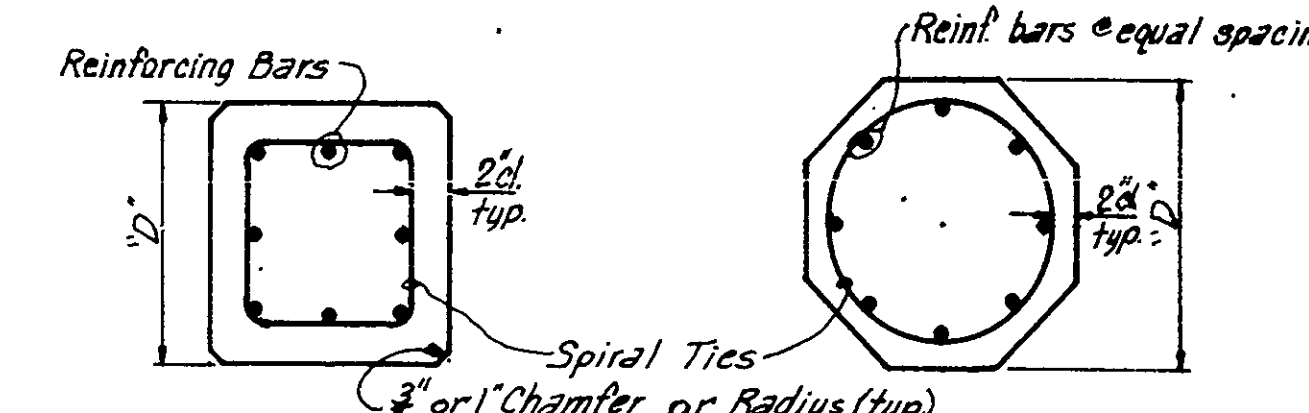
TWO POINT PICK-UP

PRECAST PILE REINFORCING

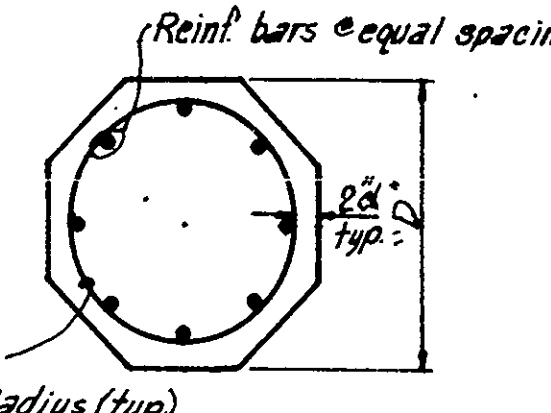
PILE SIZE	NO. REQ'D.	BAR SIZE
16" OCT.	8	#7
18" OCT.	8	#7
14" SQ.	8	#7
16" SQ.	8	#7
18" SQ.	8	#8



THREE POINT PICK-UP



SECTION A-A
SQUARE PILE



SECTION A-A
OCTAGONAL PILE

PRECAST CONCRETE PILES

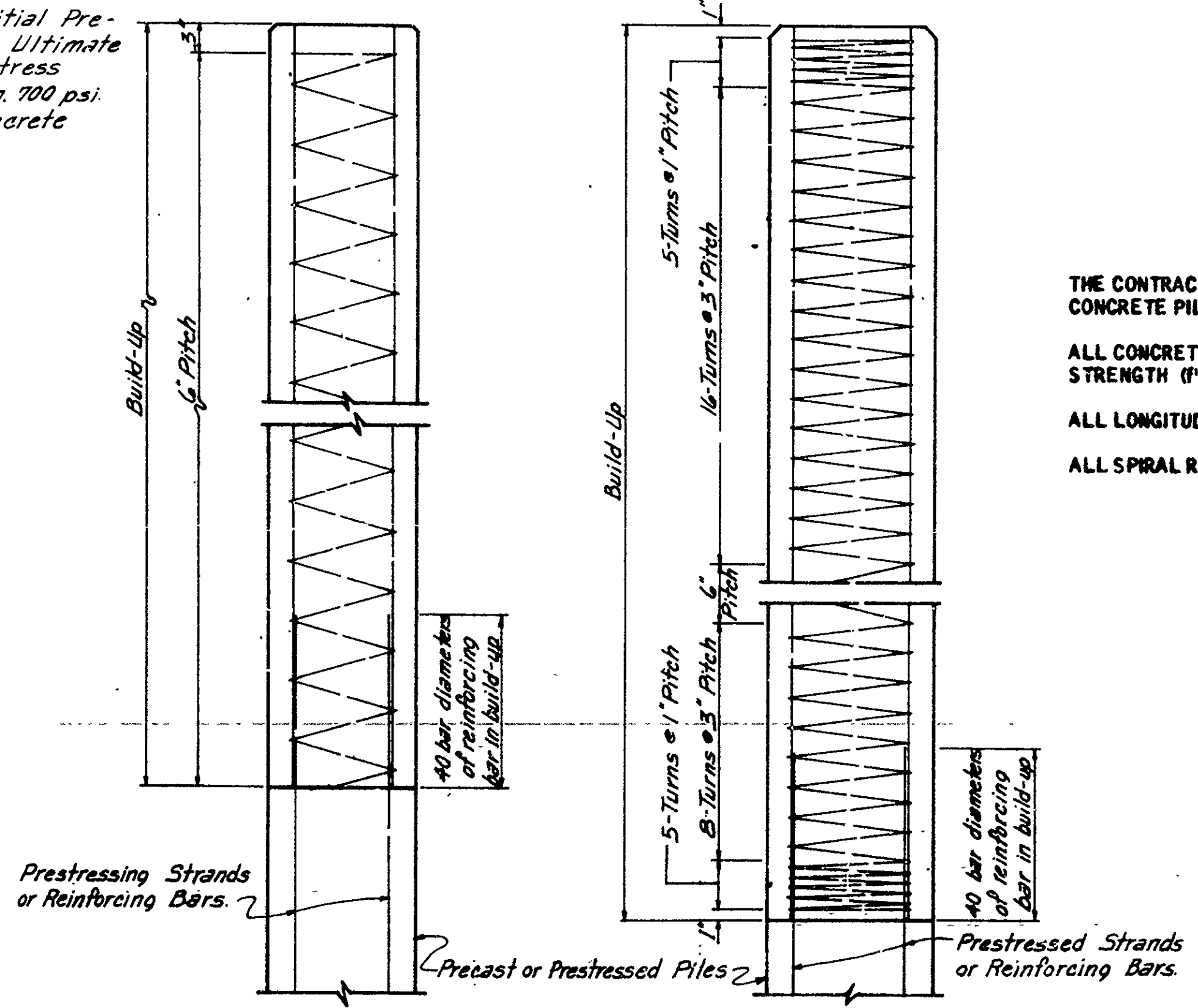
ALTERNATE PRECAST CONCRETE PILES

THE CONTRACTOR MAY ELECT TO USE A PRECAST CONCRETE PILE IN LIEU OF THE PRESTRESSED CONCRETE PILE. THE FOLLOWING NOTES APPLY TO PRECAST CONCRETE PILES.

ALL CONCRETE SHALL BE CLASS (S)(AE) AND SHALL HAVE A MINIMUM COMPRESSIVE CYLINDER STRENGTH (f_c) OF 3500 PSI AT 28 DAYS.

ALL LONGITUDINAL REINFORCING BARS SHALL BE DEFORMED BARS OF ASTM A615 OR A617.

ALL SPIRAL REINFORCING SHALL BE THE SAME AS THAT SHOWN FOR PRESTRESSED CONCRETE.



BUILD-UP
WITHOUT DRIVING

BUILD-UP
WITH DRIVING

Revised 12-2-77, Added 3/4" chamfer. Removed time before prestressing.

Revised 7-24-75, Redrawn to include Square Piles.

Revised for 1978 Specs. 9-15-78 K.D.N.

DETAILS OF STANDARD
CONCRETE PILES
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.W.W. DATE: 7-24-75
CHECKED BY: J.E.L. DATE: 7-31-75
DESIGNED BY: J.E.L. DATE: 7-24-75
BRIDGE NO. DRAWING NO. 2383