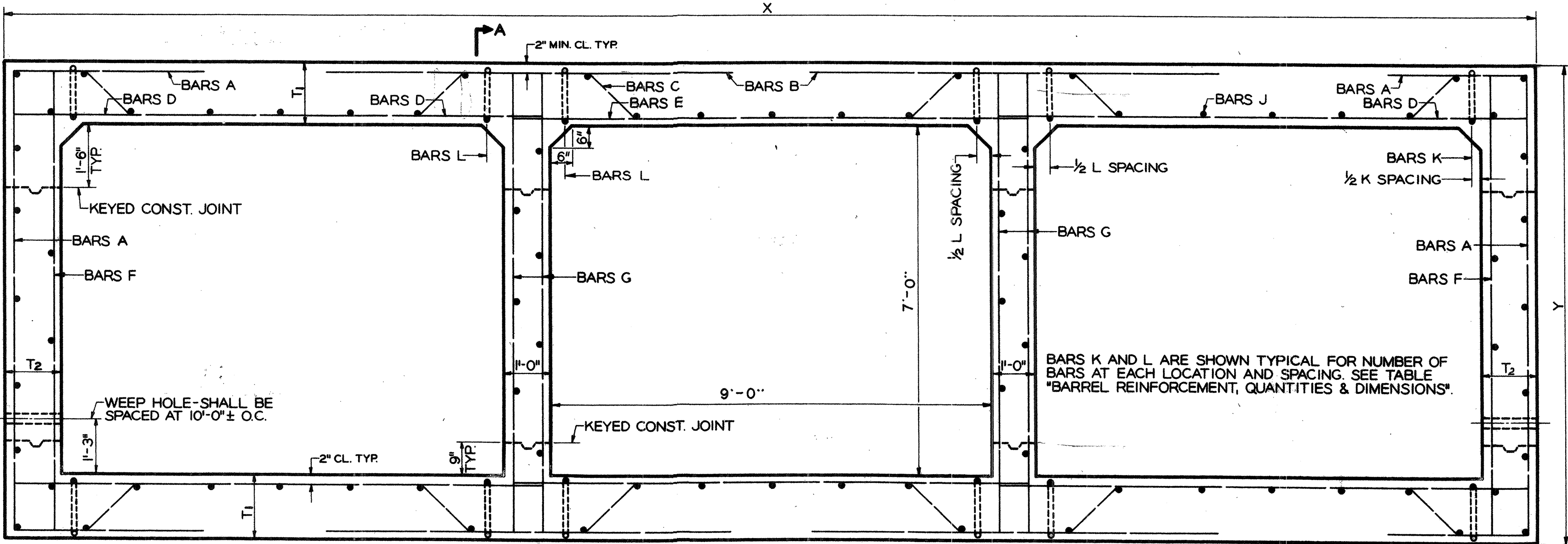


STATE	PROJECT NUMBER	SHEET No.	TOTAL SHEETS
GA.			

TRIPLE BOX CULVERT BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS					
DESIGN	1	2	3	4	5
BAR A	501 AT 12"	405 AT 12"	504 AT 11"	701 AT 12"	802 AT 12"
BAR B	801 AT 12"	2 - 601 BETWEEN	901 AT 11"	2 - 702 BETWEEN	2 - 801 BETWEEN
BAR C	401 AT 12"	503 AT 12"	505 AT 11"	506 AT 12"	507 AT 12"
BAR D	502 AT 12"	602 AT 12"	603 AT 11"	703 AT 12"	803 AT 12"
BAR E	402 AT 12"	402 AT 12"	402 AT 11"	402 AT 12"	402 AT 12"
BAR F	403 AT 12"	406 AT 12"	407 AT 12"	409 AT 12"	411 AT 12"
BAR G	403 AT 12"	406 AT 12"	407 AT 12"	409 AT 12"	411 AT 12"
BAR J	78 - 404	78 - 404	78 - 404	78 - 404	78 - 404
BAR K	-	-	-	1 - 410 AT 12"	1 - 412 AT 9"
BAR L	-	-	1 - 408 AT 10"	3 - 410 AT 6"	5 - 412 AT 5"
X	30-8	30-10	31-0	31-3	31-6
Y	8-8	9-2	9-6	9-10	10-2
T ₁	10"	13"	15"	17"	19"
T ₂	10"	11"	12"	13 1/2"	15"
CU. YDS. CLASS "A" CONCRETE	2.871	3.496	3.935	4.409	4.889
LBS. BAR REINF. PER FT.	316.54	364.32	438.31	529.81	661.18
HEIGHT OF FILL OVER TOP	0 - 10'	10 - 20'	20 - 30'	30 - 40'	40 - 50'

BARREL SECTION BAR REINFORCEMENT DETAILS								
MARK	LENGTH	TYPE	A	B	C	D	E	F
401	35-11	7	1-6	6-5	2-6	0-6	2-2	6-6
402	11-0	1						
403	8-4	1						
404	POUR - 4"	1						
405	14-6	8	8-10	2-10	2-10			
406	8-6	1						
407	9-2	1						
408	4-1	6	1-0	1-0	1-0			
409	9-6	1						
410	4-6	6	1-1	1-2	1-2			
411	9-10	1						
412	4-10	6	1-1	1-4	1-4			
501	15-0	8	8-4	3-4	3-4			
502	10-8	1						
503	37-1	7	1-4	6-2	2-6	0-9	2-5	6-0
504	13-4	8	9-2	2-1	2-1			
505	38-1	7	1-4	5-11	2-6	0-11	2-7	5-8
506	39-2	7	1-3	6-0 1/2	2-0	1-1	2-9	5-10
507	40-0	7	1-8	5-5	2-0	1-3	2-11	5-6
601	8-6	1						
602	10-9	1						
603	10-10	1						
701	17-2	8	9-6	3-10	3-10			
702	8-8	1						
703	10-11	1						
801	8-8	1						
802	18-2	8	9-10	4-2	4-2			
803	11-1	1						
901	9-0	1						

NOTE: BARS B THAT ARE SHOWN AS TWO BETWEEN BARS C SHALL BE EQUALLY SPACED BETWEEN BARS C.



BOTTOM SLAB REINFORCEMENT SAME AS TOP
BARREL SECTION

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD.
ALL CONCRETE SHALL BE CLASS "A".
CHAMFER ALL EXPOSED EDGES 3/4".
ALL CULVERTS SHALL BEGIN AND END WITH DESIGN 1.
COST OF DRAIN RIGS, WEEP HOLES, COARSE AGGREGATE, AND ANY OTHER INCIDENTAL ITEMS SHALL BE INCLUDED IN PRICES BID FOR CONTRACT ITEMS.
CONSTRUCTION JOINTS IN BARREL WALLS AND WINGWALL ARE REQUIRED. BARREL WALLS TO SET AT LEAST 2 HOURS BEFORE POURING TOP SLAB.
FOR DETAILS OF WINGWALLS AND PARAPETS SEE GEORGIA STANDARDS NO. 2326 AND NO. 2329.

DESIGN DATA

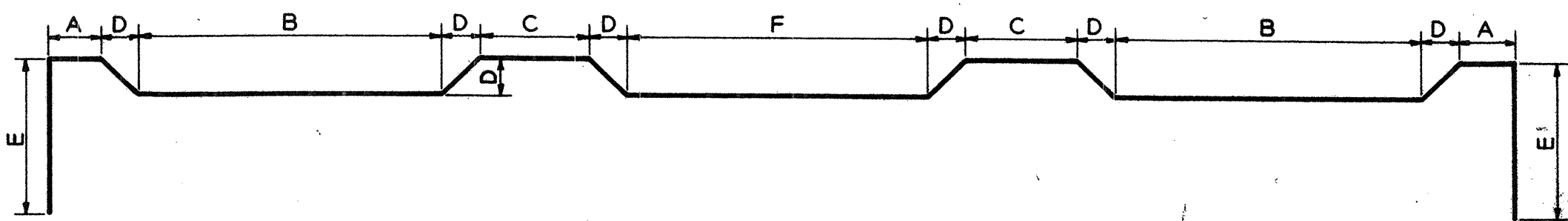
SPECIFICATIONS - A.A.S.H.O., 1953
TYPICAL H20-S16 AND/OR MILITARY LOADING

BOX CULVERT REQUIREMENTS:

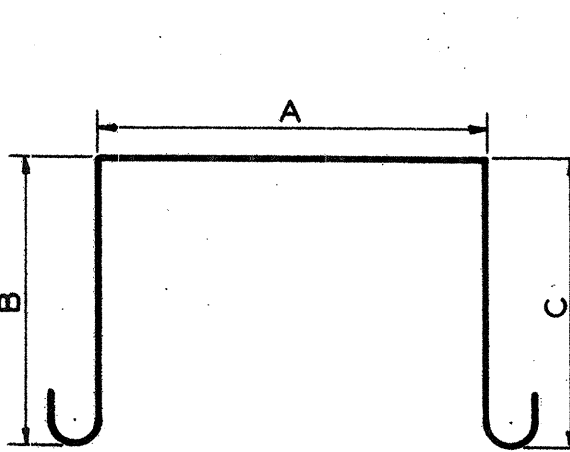
MINIMUM FILL HEIGHT FROM TOP OF CULVERT TO BOTTOM OF BASE WITHIN TRAVELWAY SHALL BE 12 INCHES.
MAXIMUM POUR LENGTH SHALL NOT EXCEED 30 FEET ALONG THE LENGTH OF THE CULVERT.
TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED IN THE BARREL, NORMAL TO THE CENTERLINE OF CULVERT, AT THE OUTSIDE SHOULDER BREAK POINTS. LONGITUDINAL BARREL REINFORCING STEEL SHALL NOT BE CONTINUOUS THROUGH THESE JOINTS, PROVIDED THAT THE JOINTS ARE MORE THAN 15 FEET FROM THE BARREL ENDS.
WHEN TRANSVERSE CONSTRUCTION JOINTS OCCUR WITHIN 15 FEET OF THE BARREL ENDS OR WITHIN THE LIMITS OF THE PAVEMENT, THE LONGITUDINAL BARREL REINFORCING SHALL THEN BE CONTINUOUS THROUGH SUCH JOINTS. THE MINIMUM LENGTH OF LAP SPICE FOR LONGITUDINAL REINFORCING SHALL BE 24 INCHES.

TRANSVERSE CONSTRUCTION JOINTS PLACED AT ANY OTHER LOCATION NOT SPECIFIED ABOVE SHALL BE FORMED WITH NO LONGITUDINAL REINFORCING STEEL PASSING THROUGH THE JOINTS.

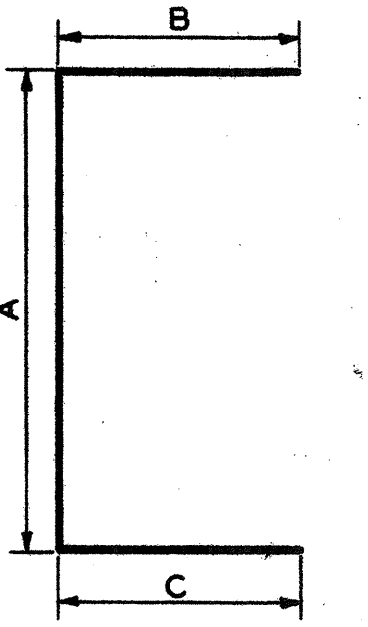
NOTE: THE DESIGN OF CULVERT SHALL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL WITH ONLY A SINGLE DESIGN BEING USED FOR THE ENTIRE INSTALLATION.



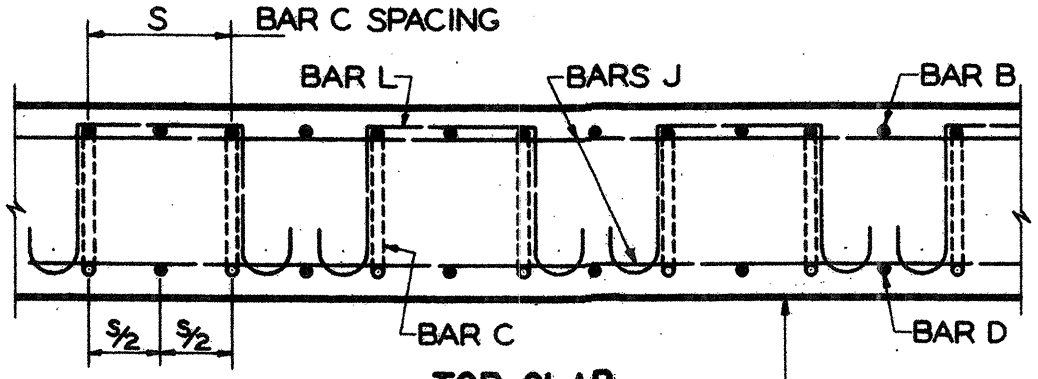
TRIPLE BOX CULVERT ONLY
TYPE 7



TYPE 6

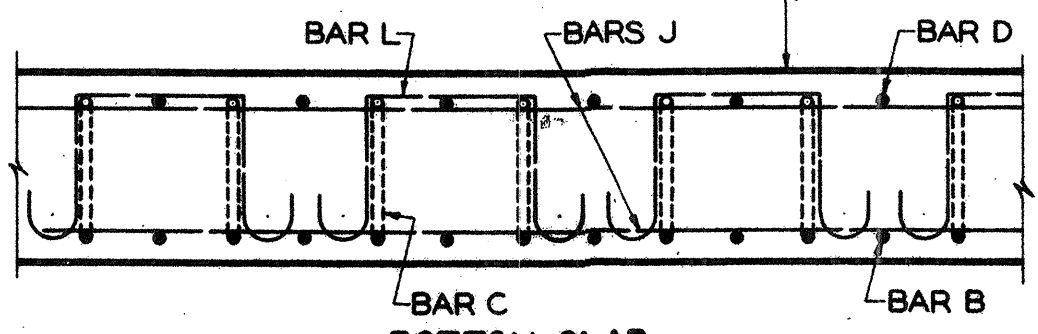


TYPE 8



TOP SLAB

NOTE: BARS B SHOWN IN SECTION AS ONE BAR EQUALLY SPACED BETWEEN BARS C. TWO BARS B EQUALLY SPACED BETWEEN BARS C SHALL BE USED WHEN REQUIRED.



SECTION A-A

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

REINFORCED CONCRETE BOX CULVERT
TRIPLE 9' X 7'

NO SCALE

APRIL 1961

REVISIONS	DATE	BY	REASON
1	3-12-74	R.J.S.	REMOVED WAITING PERIOD NOTE
2	7-25-74	R.J.S.	ADD NOTE
3	2-28-80	R.J.S.	DELETE BAR INCREASE DWG
4	10-23-97	R.M.U.	ADD FILL HEIGHT NOTE

DESIGNED	J.T.K.	TRACED	G.M.B.-L.R.	REVIEWED	R.K.J.
DRAWN	P.D.P.	CHECKED		APPROVED	