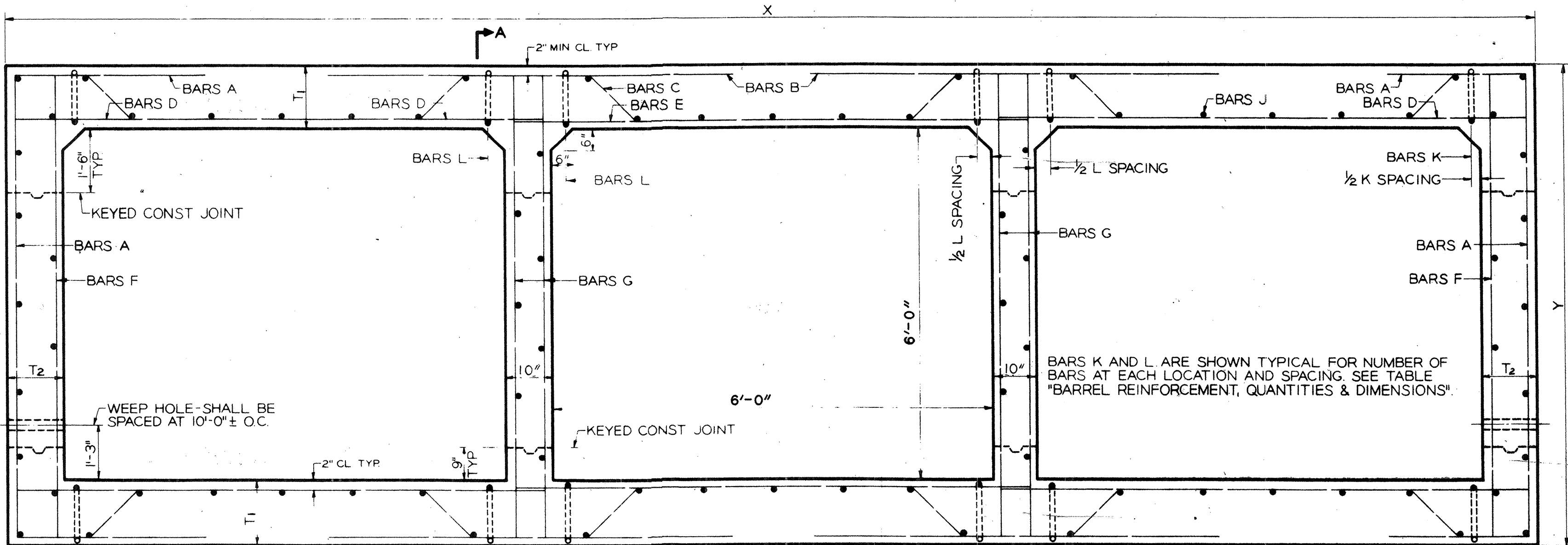


STATE	PROJECT NUMBER	SHEET No.	TOTAL SHEETS
GA.			

TRIPLE BOX CULVERT BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS					
DESIGN	1.	2	3	4	5
BAR A	401 AT 14"	501 AT 12"	408 AT 11"	504 AT 11"	506 AT 11"
BAR B	701 AT 14"	801 AT 12"	801 AT 11"	901 AT 11"	901 AT 11"
BAR C	402 AT 14"	406 AT 12"	503 AT 11"	505 AT 11"	507 AT 11"
BAR D	403 AT 14"	502 AT 12"	502 AT 11"	601 AT 11"	702 AT 11"
BAR E	403 AT 14"	403 AT 12"	403 AT 11"	403 AT 11"	403 AT 11"
BAR F	404 AT 18"	407 AT 18"	409 AT 18"	411 AT 18"	412 AT 18"
BAR G	404 AT 18"	407 AT 18"	409 AT 18"	411 AT 18"	412 AT 18"
BAR J	90-405	90-405	90-405	90-405	90-405
BAR K	-----	-----	1-410 AT 4"	1-413 AT 8"	2-414 AT 6"
BAR L	-----	-----	1-410 AT 8"	2-413 AT 6"	3-414 AT 6"
X	21'-2"	21'-2"	21'-2"	21'-3 $\frac{1}{2}$ "	21'-6"
Y	7'-5"	7'-5 $\frac{1}{2}$ "	7'-8"	7'-10 $\frac{1}{2}$ "	8'-1"
T ₁	8 $\frac{1}{2}$ "	8 $\frac{3}{4}$ "	10"	11 $\frac{1}{2}$ "	12 $\frac{1}{2}$ "
T ₂	9"	9"	9"	9 $\frac{3}{4}$ "	11"
CU. YDS. CLASS "A" CONC.	1.842	1.875	2.038	2.238	2.465
LBS. BAR REINF. PER FT.	184.5	240.6	283.5	347.7	386.3
HT. OF FILL OVERTOP	TO -10'	TO -20'	TO -30'	TO -40'	TO -50'

BARREL SECTION BAR REINFORCEMENT DETAILS								
MARK	LENGTH	TYPE	A	B	C	D	E	F
401	11'-1"	8	7'-1"	2'-0"	2'-0"			
402	25'-7"	7	1'-6"	3'-6"	2'-6"	4 $\frac{1}{2}$ "	1'-10 $\frac{1}{2}$ "	3'-7"
403	7'-3"	1						
404	7'-1"	1						
405	POUR-4"	1						
406	25'-7 $\frac{1}{2}$ "	7	1'-6"	3'-5 $\frac{1}{2}$ "	2'-6"	4 $\frac{3}{4}$ "	1'-10 $\frac{3}{4}$ "	3'-6 $\frac{1}{2}$ "
407	7'-1 $\frac{1}{2}$ "	1						
408	11'-4"	8	7'-4"	2'-0"	2'-0"			
409	7'-4"	1						
410	3'-3 $\frac{5}{8}$ "	6	1'-1 $\frac{5}{8}$ "	7"	7"			
411	7'-6 $\frac{1}{2}$ "	1						
412	7'-9"	1						
413	3'-6 $\frac{1}{8}$ "	6	1'-1 $\frac{5}{8}$ "	8 $\frac{1}{4}$ "	8 $\frac{1}{4}$ "			
414	3'-8 $\frac{5}{8}$ "	6	1'-1 $\frac{5}{8}$ "	9 $\frac{1}{2}$ "	9 $\frac{1}{2}$ "			
501	11'-1 $\frac{1}{2}$ "	8	7'-1 $\frac{1}{2}$ "	2'-0"	2'-0"			
502	7'-3"	1						
503	26'-1"	7	1'-6"	3'-2"	2'-8"	6"	2'-0"	3'-2"
504	11'-6 $\frac{1}{2}$ "	8	7'-6 $\frac{1}{2}$ "	2'-0"	2'-0"			
505	26'-8"	7	1'-6"	3'-1 $\frac{1}{4}$ "	2'-8"	7 $\frac{1}{4}$ "	2'-1 $\frac{1}{4}$ "	2'-11 $\frac{1}{2}$ "
506	11'-9"	8	7'-9"	2'-0"	2'-0"			
507	27'-4"	7	1'-6"	2'-11"	2'-8"	8 $\frac{1}{2}$ "	2'-2 $\frac{1}{2}$ "	2'-9"
601	7'-3 $\frac{3}{4}$ "	1						
701	5'-6"	1						
702	7'-5"	1						
801	6'-0"	1						
901	6'-6"	1						

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



GENERAL NOTES

SPECIFICATIONS: GEORGIA STANDARD.
ALL CONCRETE SHALL BE CLASS "A".
CHAMFER ALL EXPOSED EDGES $\frac{3}{4}$ ".
COST OF DRAIN PIPES, WEEP HOLES, COARSE AGGREGATE AND ANY OTHER INCIDENTAL ITEMS SHALL BE INCLUDED IN PRICES BID FOR CONTRACT ITEMS.
CONSTRUCTION JOINTS IN BARREL WALLS AND WINGWALLS ARE REQUIRED.
BARREL WALLS TO SET AT LEAST 2 HOURS BEFORE TOP SLAB IS POURED.
FOR DETAILS OF WINGWALLS, PARAPETS AND APRONS SEE GA. STD. NO. 2325.

DESIGN DATA

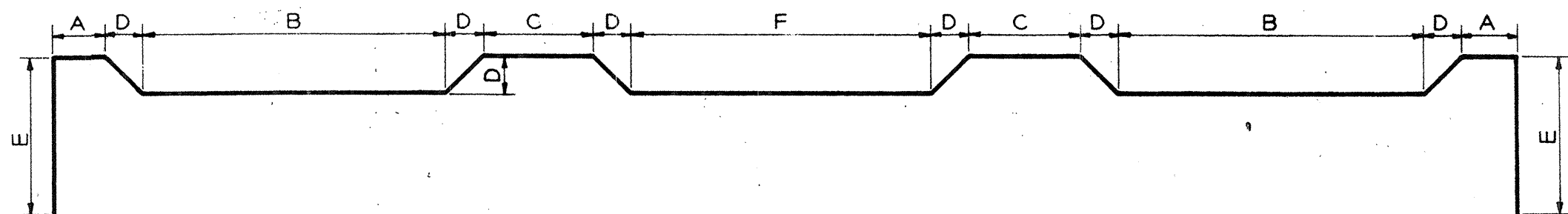
SPECIFICATIONS - GEORGIA STATE HIGHWAY DEPARTMENT - CULVERT PROGRAM.

BOX CULVERT REQUIREMENTS:

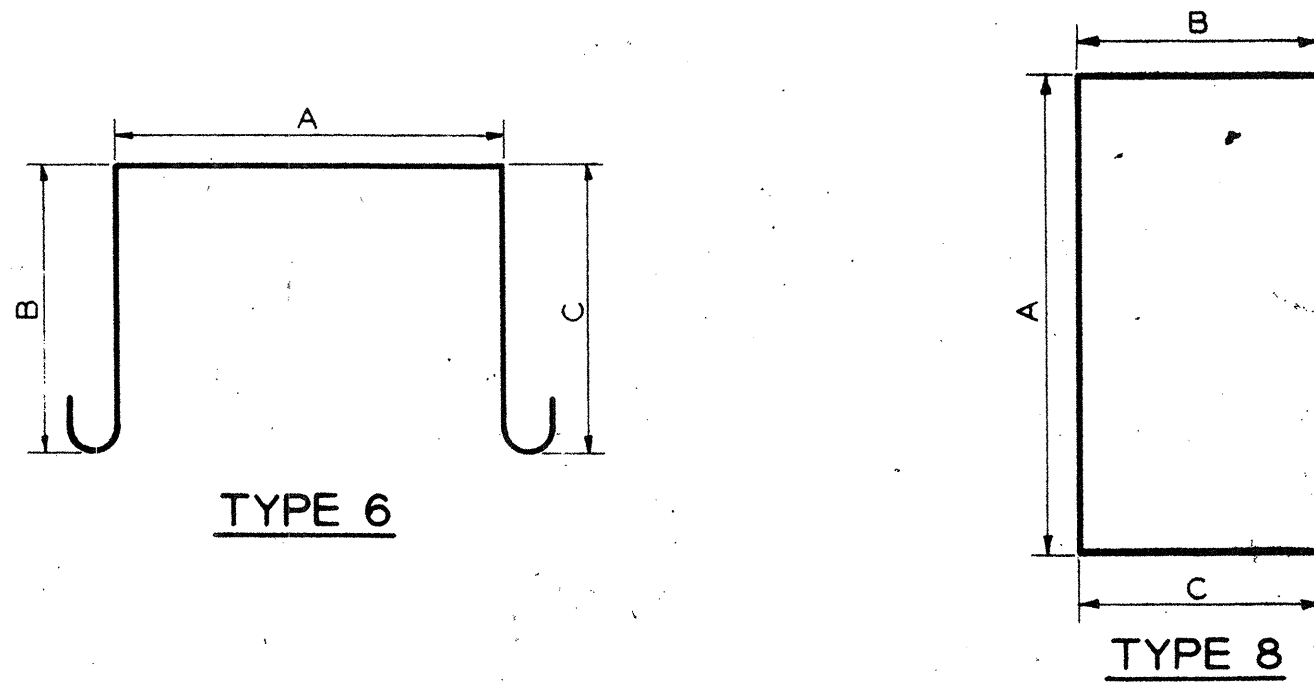
MINIMUM FILL HEIGHT FROM TOP OF CULVERT TO BOTTOM OF BASE WITHIN TRAVELWAY SHALL BE 12 INCHES.
MAXIMUM POUR LENGTH SHALL NOT EXCEED 30 FEET ALONG THE LENGTH OF THE CULVERT.
TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED IN THE BARREL, NORMAL TO THE CENTERLINE OF CULVERT, AT THE OUTSIDE SHOULDER BREAK 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 SPLICE 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.

BOTTOM SLAB REINFORCEMENT SAME AS TOP BARREL SECTION

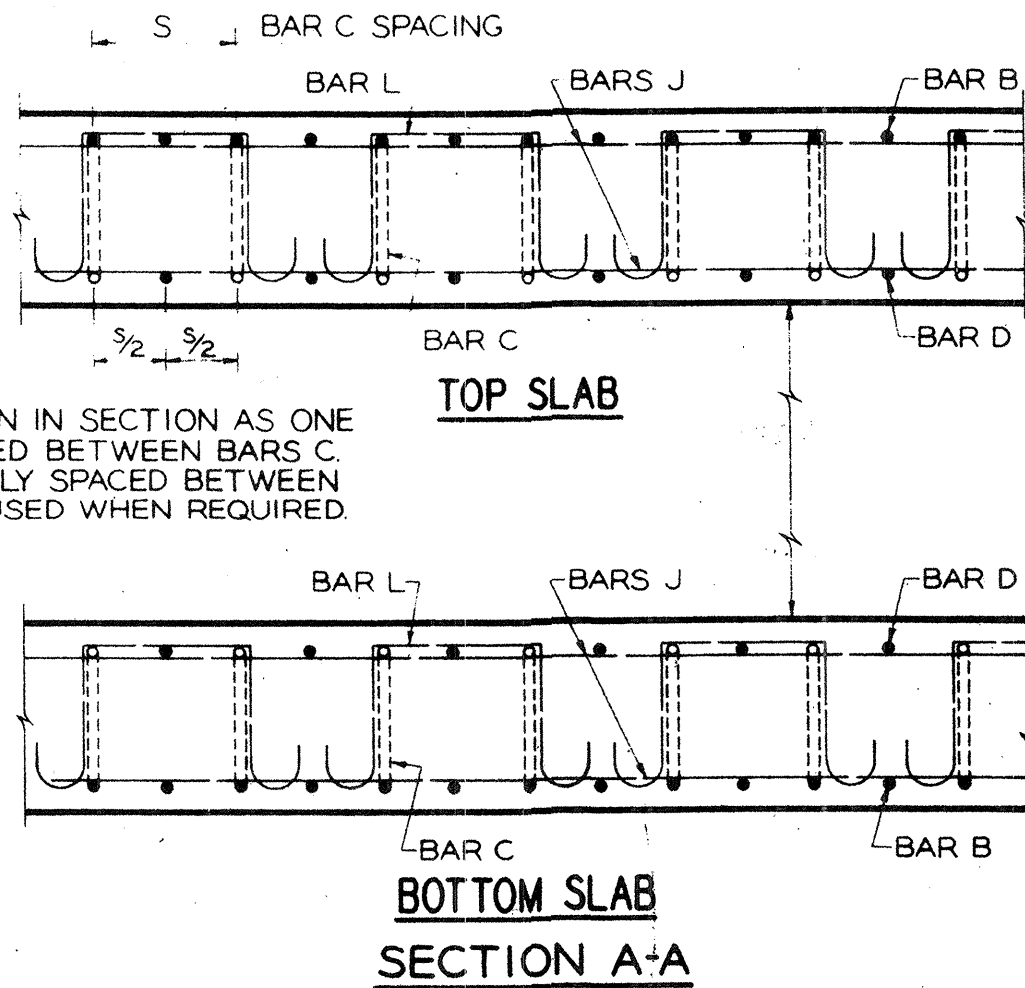


TRIPLE BOX CULVERT ONLY TYPE 7



NOTE: BEND LONGITUDINAL BARS INTO WINGS AND PARAPETS SIMILAR TO STANDARDS. IF CULVERT IS SKEWED CUT TRANSVERSE STEEL AND BEND 12" INTO PARAPET OR TOE WALL AND HOOK.

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.



REVISIONS		DATE	BY
1	REMOVED WAITING PERIOD NOTE	3-12-71	R.J.S.
2	ADD NOTE	7-25-71	R.J.S.
3	DELETE BAR INCREASE TO #5	2-28-80	R.J.S.
4	REV. FILL HT. REQUIREMENT	11-4-97	R.J.S.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REINFORCED CONCRETE BOX CULVERT TRIPLE 6' X 6'	
NO SCALE	
APRIL 1961	
DESIGNED J.T.K.	TRACED G.M.B.-L.R.
DRAWN P.D.P.	CHECKED
REVIEWED R.K.J.	APPROVED