

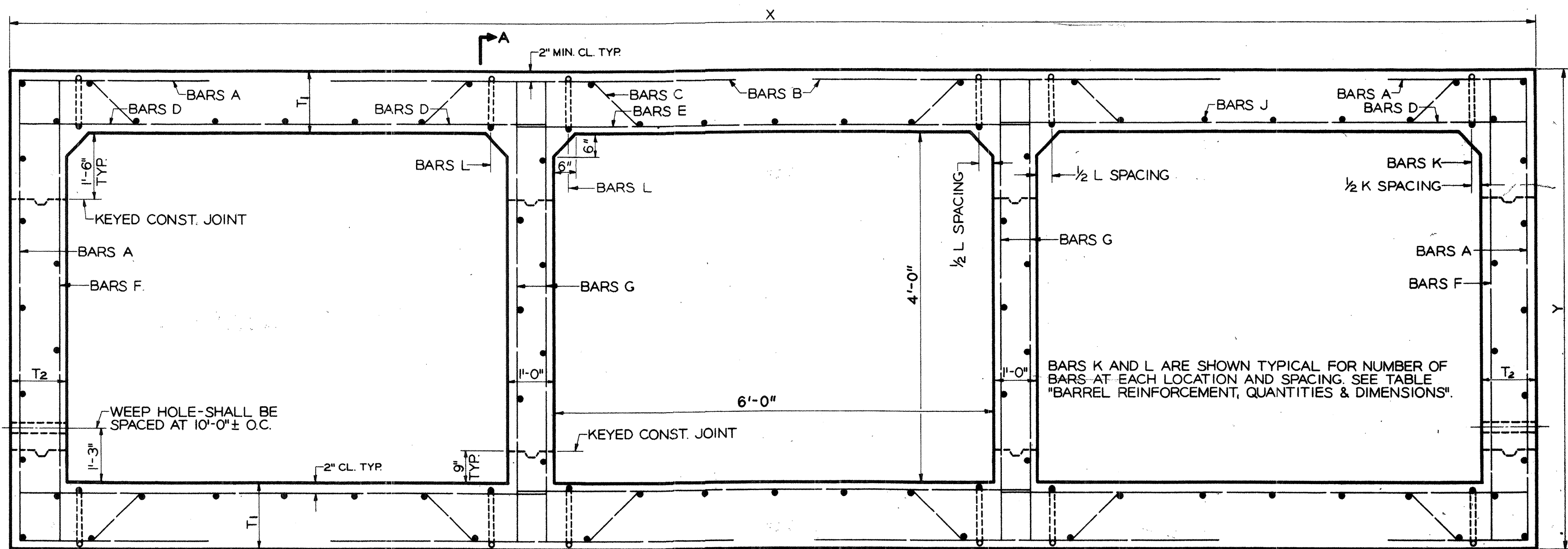
TRIPLE BOX CULVERT BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS					
DESIGN	1	2	3	4	5
BAR A	501 AT 12"	502 AT 12"	506 AT 12"	410 AT 12"	415 AT 12"
BAR B	701 AT 12"	801 AT 12"	801 AT 12"	801 AT 12"	801 AT 12"
BAR C	401 AT 12"	504 AT 12"	507 AT 12"	601 AT 12"	602 AT 12"
BAR D	402 AT 12"	503 AT 12"	505 AT 12"	508 AT 12"	509 AT 12"
BAR E	404 AT 12"	404 AT 12"	404 AT 12"	404 AT 12"	404 AT 12"
BAR F	403 AT 12"	406 AT 12"	408 AT 12"	411 AT 12"	413 AT 12"
BAR G	403 AT 12"	406 AT 12"	408 AT 12"	411 AT 12"	413 AT 12"
BAR J	78 - 405	78 - 405	78 - 405	78 - 405	78 - 405
BAR K				1-412 AT 28"	1-414 AT 22"
BAR L		1-407 AT 10"	1-409 AT 10"	2-412 AT 9"	2-414 AT 7"
T1	0'-8"	0'-9"	0'-11"	1'-0"	1'-1 1/2"
T2	0'-8"	0'-8"	0'-10"	0'-10"	0'-11"
X1	21'-4"	21'-4"	21'-8"	21'-8"	21'-10"
Y1	5'-4"	5'-6"	5'-10"	6'-0"	6'-3"
*NO. J BARS IN 2 SLABS	50	50	50	50	50
**CU. YDS. CLASS "A" CONC.	1.600	1.734	2.068	2.204	2.444
**REINFORCING STEEL	203.75	258.60	261.87	295.16	300.43
HEIGHT OF FILL OVER TOP	TO 10'	TO 20'	TO 30'	TO 40'	TO 50'

* REMAINDER J BARS SPACED ALT. IN WALLS

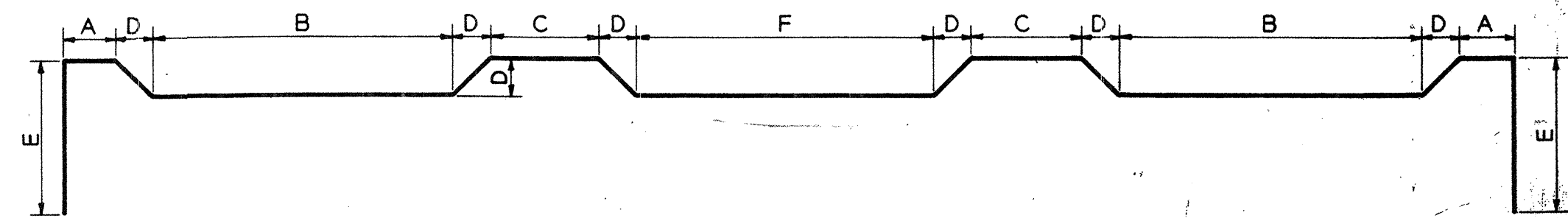
** PER LINEAR FOOT

BARREL SECTION BAR REINFORCEMENT DETAILS								
MARK	LENGTH	TYPE	A	B	C	D	E	F
401	24'-9"	7	1'-6"	3'-10"	2'-0"	0'-4"	1'-6"	4'-4"
402	7'-6"	1						
403	5'-0"	1						
404	8'-0"	1						
405	POUR-4"	1						
406	5'-2"	1						
407	3'-2"	6	1'-1 1/8"	0'-6"	0'-6"			
408	5'-6"	1						
409	3'-6"	6	1'-1 1/8"	0'-8"	0'-8"			
410	9'-2"	8	5'-8"	1'-9"	1'-9"			
411	5'-8"	1						
412	3'-8"	6	1'-1 1/8"	0'-9"	0'-9"			
413	5'-11"	1						
414	3'-11"	6	1'-1 1/8"	0'-10 1/2"	0'-10 1/2"			
415	9'-11"	8	5'-11"	2'-0"	2'-0"			
501	9'-0"	8	5'-0"	2'-0"	2'-0"			
502	9'-2"	8	5'-2"	2'-0"	2'-0"			
503	7'-6"	1						
504	25'-0"	7	1'-3"	3'-8"	2'-6"	0'-5"	1'-6"	3'-8"
505	7'-8"	1						
506	9'-0"	8	5'-6"	1'-9"	1'-9"			
507	25'-4"	7	1'-3"	3'-6"	2'-6"	0'-7"	1'-3"	3'-4"
508	7'-8"	1						
509	7'-9"	1						
601	25'-7"	7	1'-4"	3'-6"	2'-0"	0'-8"	1'-3"	3'-8"
602	26'-0"	7	1'-4"	3'-4"	2'-0"	0'-9 1/2"	1'-3"	3'-5"
701	6'-0"	1						
801	6'-0"	1						

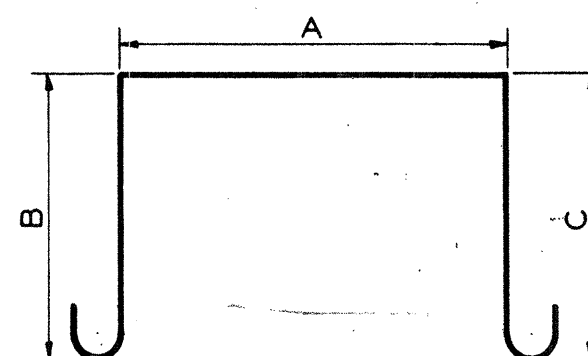
NOTE: BARS B THAT ARE SHOWN AS TWO BETWEEN BARS C SHALL BE EQUALLY SPACED BETWEEN BARS C.



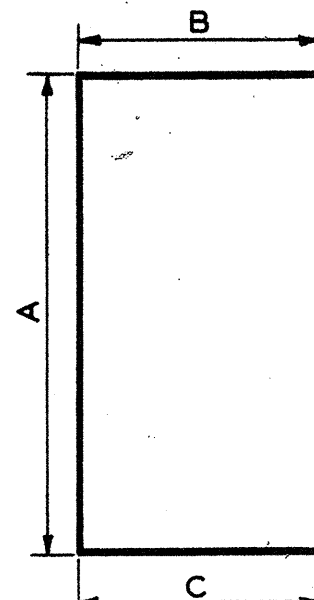
BOTTOM SLAB REINFORCEMENT SAME AS TOP
BARREL SECTION



TRIPLE BOX CULVERT ONLY
TYPE 7



TYPE 6



TYPE 8

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 PIPES, WEEP HOLES, COURSE 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. 2325, AND NO. 2328.

DESIGN DATA

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

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.

BOX CULVERT REQUIREMENTS:

MINIMUM FILL HEIGHT FROM TOP OF CULVERT TO BOTTOM OF BASE WITHIN TRAVELWAY SHALL BE 12 INCHES.

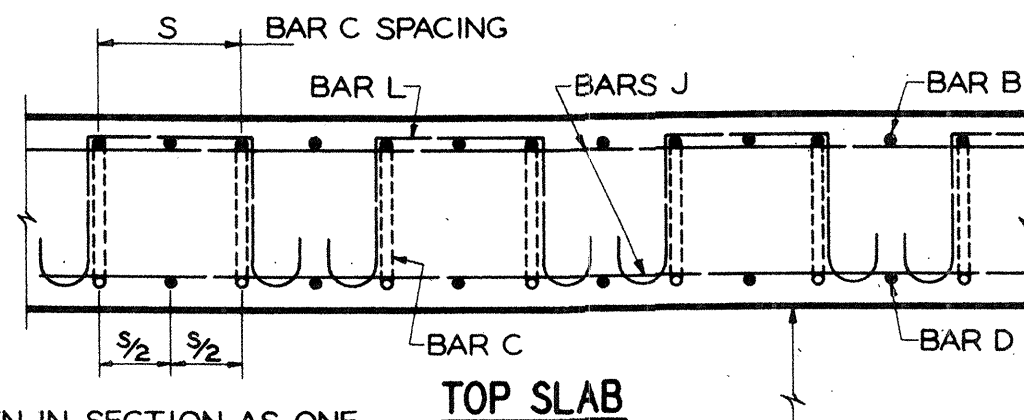
MAXIMUM POUR LENGTH SHALL NOT EXCEED 30 FEET ALONG THE LENGTH OF THE CULVERT.

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.

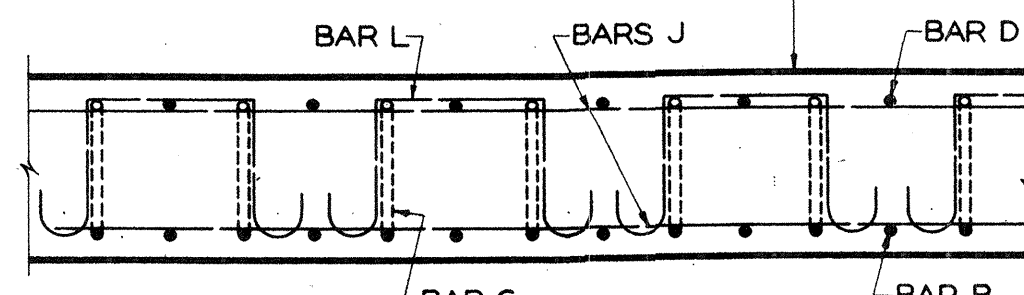
WHEN TRANSVERSE CONSTRUCTION JOINTS OCCUR WITHIN 15 FEET OF THE BARREL ENDS OR WITHIN THE LIMITS OF THE PAVEMENT, THE LONGITUDINAL BARREL REINFORCING SHALL THEN BE CONTINUOUS THROUGH SUCH JOINTS. THE MINIMUM LENGTH OF LAP SPLICE FOR LONGITUDINAL REINFORCING SHALL BE 24 INCHES.

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

NOTE: 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.



TOP SLAB



SECTION A-A
BOTTOM SLAB

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

REVISIONS		DATE	
BY	REMOVED	3-12-74	
R.J.S.	CHANGE NUMBER OF 10' BARS	6-19-74	
R.J.S.	ADD NOTE	7-25-74	
R.J.S.	DELETE BAR INCREASE TO 40'	2-22-80	
ADD REQUIREMENT W/LE 11-28-91			
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA			
REINFORCED CONCRETE BOX CULVERT TRIPLE 6' X 4'			
NO SCALE			
APRIL 1961			
DESIGNED	J.T.K.	TRACED	G.M.B.-L.R.
DRAWN	P.D.P.	CHECKED	
REVIEWED		R.K.J.	
APPROVED			