

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 10'X11' BOX CULVERT BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS					
DESIGN	1	2	3	4	5
T ₁	10'-0"	1'-0 3/4"	1'-3"		
T ₂	10'-0"	1'-0 3/4"	1'-3"		
X	33'-9"	34'-1 1/2"	34'-6"		
Y	12'-9"	13'-1 1/2"	13'-6"		
BAR A	403 AT 12" O.C.	703 AT 11" O.C.	802 AT 12" O.C.		
BAR B	702 AT 12" O.C.	901 AT 11" O.C.	706 AT 6" O.C.		
BAR C	701 AT 12" O.C.	601 AT 11" O.C.	704 AT 12" O.C.		
BAR D	401 AT 12" O.C.	602 AT 11" O.C.	705 AT 12" O.C.		
BAR E	402 AT 12" O.C.	603 AT 11" O.C.	707 AT 12" O.C.		
BAR F	801 AT 7" O.C.	902 AT 6" O.C.	1001 AT 6" O.C.		
BAR G	404 AT 12" O.C.	406 AT 12" O.C.	408 AT 12" O.C.		
BAR J	405 AT 12" O.C.	407 AT 12" O.C.	409 AT 12" O.C.		
BAR K	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED		
BAR L	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED		
*NO. J BARS IN TWO SLABS	62	66	56		
MAX. FILL HT. OVER CULVERT	10'	20'	30'		
**CU. YDS. CLASS "A" CONCRETE	3.742	4.392	5.052		
**LBS. BAR REINFORCEMENT STEEL	514.05	744.07	883.31		

*REMAINDER OF J BARS ALTERNATELY SPACED IN WALLS.
**PER LINEAR FOOT.

BARREL SECTION BAR REINFORCEMENT DETAILS								
MARK	LENGTH	TYPE	A	B	C	D	E	F
401	11'-6 1/2"	1						
402	11'-8"	1						
403	17'-9"	8	12'-5"	2'-8"	2'-8"			
404	12'-5"	1						
405	*(L-4")	1	(102 BARS REQ'D.)					
406	12'-9 1/2"	1						
407	*(L-4")	1	(106 BARS REQ'D.)					
408	13'-2"	1						
409	*(L-4")	1	(96 BARS REQ'D.)					
601	41'-9 1/4"	7	1'-3"	7'-2 1/4"	3'-6"	8 3/4"	3'-1"	5'-6 1/2"
602	11'-8 1/2"	1						
603	11'-8"	1						
701	40'-0"	7	1'-8"	6'-5 1/2"	4'-0"	6 1/2"	2'-8"	5'-11"
702	8'-0"	1	4'-0"	4'-0"				
703	18'-11 1/2"	8	12'-9 1/2"	3'-1"	3'-1"			
704	42'-6"	7	2'-0"	5'-1 1/2"	4'-4"	11"	3'-6"	4'-10"
705	11'-11"	1						
706	8'-0"	1	4'-0"	4'-0"				
707	11'-8"	1						
801	12'-5"	1						
802	20'-2"	8	13'-2"	3'-6"	3'-6"			
901	8'-8"	1	4'-0"	4'-8"				
902	12'-9 1/2"	1						
1001	13'-2"	1						

* L = LENGTH OF CULVERT POUR.

BOX CULVERT REQUIREMENTS:

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

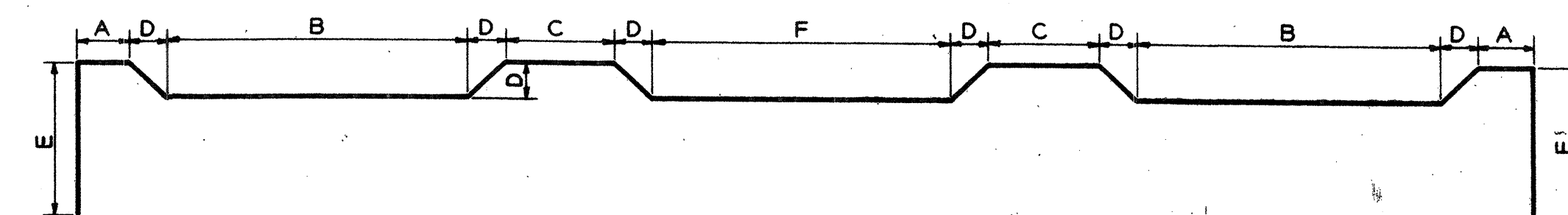
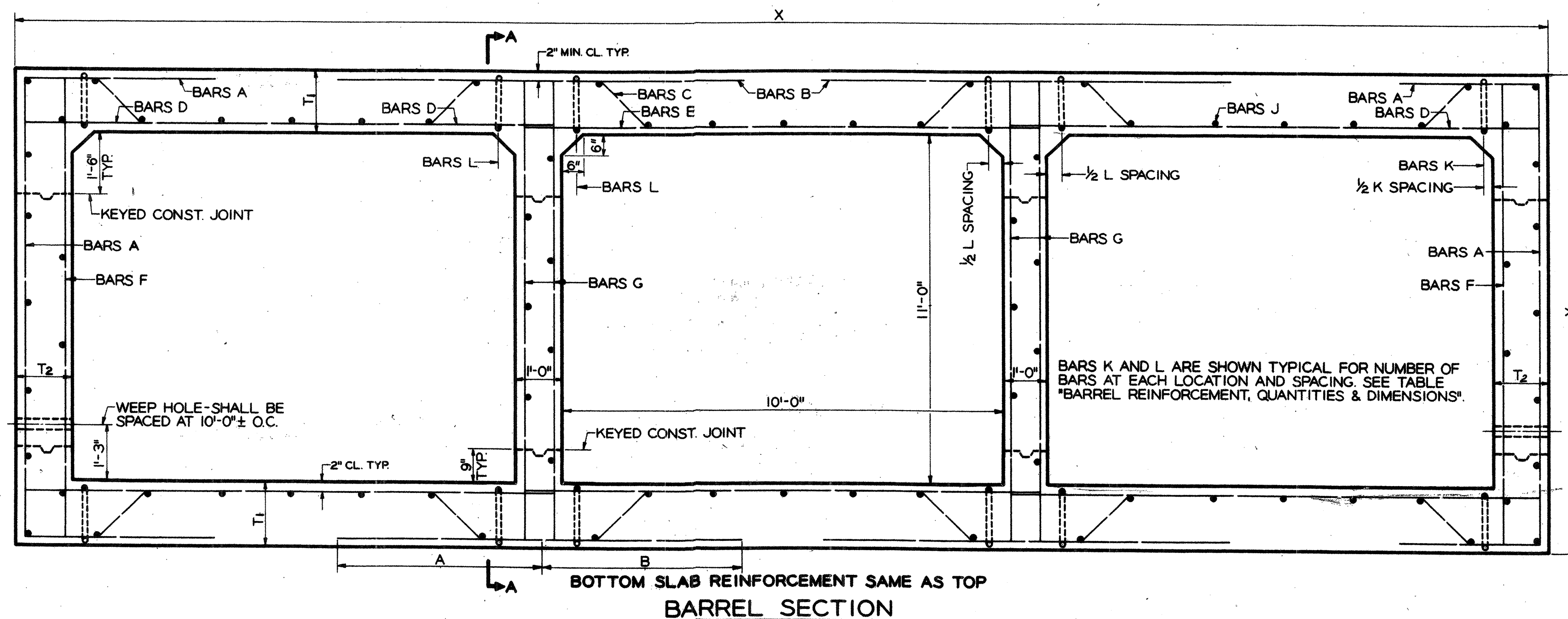
MAXIMUM POUR LENGTH SHALL NOT EXCEED 30 FEET ALONG THE LENGTH OF THE CULVERT.

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.

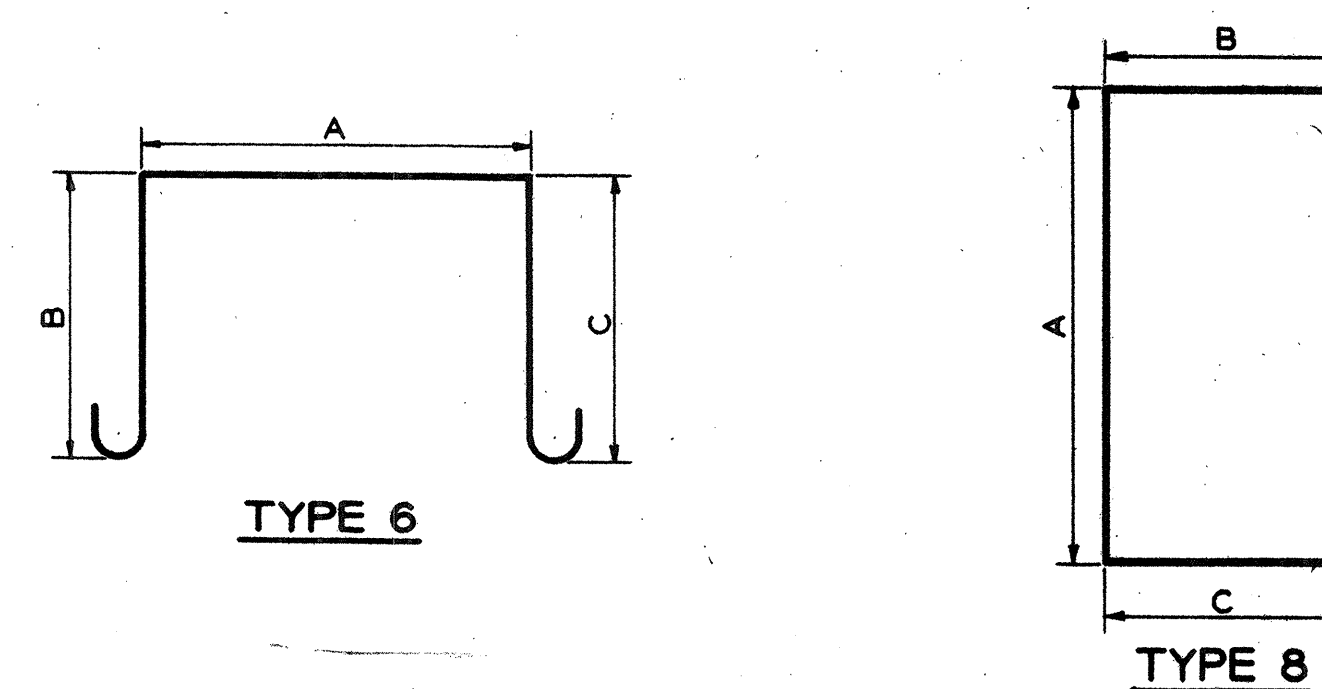
WHEN TRANSVERSE CONSTRUCTION JOINTS OCCUR WITHIN 15 FEET OF THE BARREL ENDS OR WITHIN THE LIMITS OF THE PAVEMENT, THE LONGITUDINAL BARREL REINFORCING SHALL THEN BE CONTINUOUS THROUGH SUCH JOINTS. THE MINIMUM LENGTH OF LAP SPICE FOR LONGITUDINAL REINFORCING SHALL BE 24 INCHES.

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

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

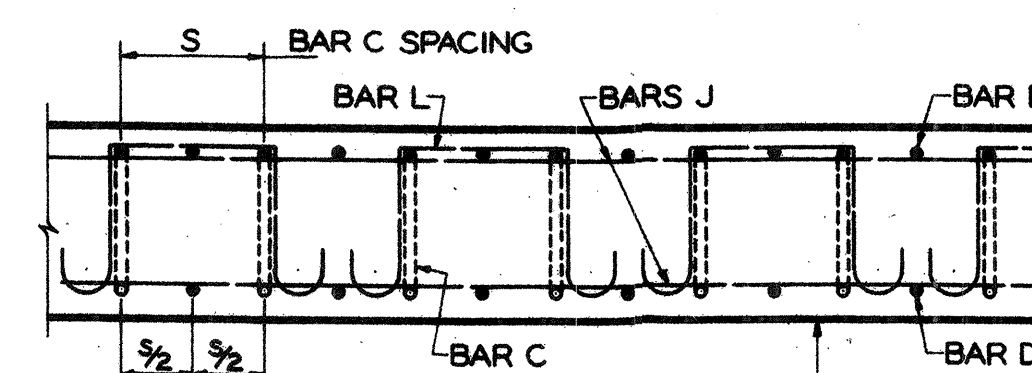


STRAIGHT
TYPE I

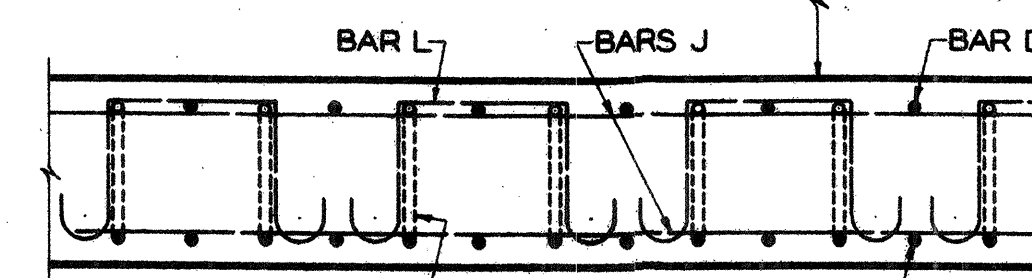


NOTE: BEND LONGITUDINAL BARS INTO WINGS AND PARAPETS SIMILAR TO STANDARDS. IF CULVERT IS SKEWED CUT TRANSVERSE STEEL AND BEND 12" INTO PARAPET OR TOE WALL AND HOOK.

NOTE: PARAPETS AND WINGWALLS TO BE GA. STD. NO. 2327.



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

DATE 7-25-76		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISIONS 1. REV. L.S. J.K. INCREASE TOPS 2. REV. L.S. J.K. INCREASE TOPS 3. REV. L.S. J.K. INCREASE TOPS 4. REV. L.S. J.K. INCREASE TOPS 5. REV. L.S. J.K. INCREASE TOPS		REINFORCED CONCRETE BOX CULVERT TRIPLE 10' X 11' SPECIAL DESIGN	
NO SCALE		APRIL 1961	
DESIGNED: J.T.K.	TRACED: G.M.B.-L.R.	REVIEWED: R.K.J.	
DRAWN: P.D.P.	CHECKED:	APPROVED:	