

STATE	PROJECT NUMBER	SHEET No.	TOTAL SHEETS
GA.			

TRIPLE 10 X 10 BOX CULVERT					
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS					
DESIGN	1	2	3	4	5
BAR BA	707 AT 13"	802 AT 12"	803 AT 12"	902 AT 12"	2-708 BETWEEN
BAR BB	2-605 BETWEEN	2-705 BETWEEN	2-706 BETWEEN	2-804 BETWEEN	2-805 BETWEEN
BAR BC	504 AT 13	505 AT 12	709 AT 12	710 AT 12	711 AT 12
BAR BD	604 AT 13	806 AT 12	704 AT 12	801 AT 12	901 AT 12
BAR BE	402 AT 13	503 AT 12	402 AT 12	402 AT 12	402 AT 12
BAR BF	501 AT 13	502 AT 12	601 AT 12	602 AT 12	603 AT 12
BAR BG	403 AT 12	404 AT 12	405 AT 12	406 AT 12	407 AT 12
BAR BH	501 AT 13	502 AT 12	701 AT 12	702 AT 12	703 AT 12
BAR BJ	74-401	74-401	82-401	94-401	102-401
BAR BK				1-409 AT 8"	1-410 AT 8½"
BAR BL			1-408 AT 6"	2-409 AT 8"	3-410 AT 8½"
X	33'-10"	34'-0"	34'-2"	34'-5"	34'-8"
Y	11'-10"	12'-2"	12'-8"	13'-0"	13'-3"
T1	0'-11"	1'-0"	1'-1"	1'-2½"	1'-4"
T2	0'-11"	1'-1"	1'-4"	1'-6"	1'-7½"
CU.YD.CONCRETE PER FT.	3.7450	4.2356	4.9454	5.4877	5.9290
LBS.BAR REINF.STEEL PER FT.	442	605	719	847	950
HEIGHT OF FILL OVER TOP	TO 10'	TO 20'	TO 30'	TO 40'	TO 50'

BARREL SECTION BAR REINFORCEMENT DETAILS							
MARK	LENGTH	TYPE	A	B	C	D	E
401	POUR-4"	1	POUR-4"				
402	12-0	1	12-0				
403	11-6	1	11-6				
404	11-10	1	11-10				
405	12-4	1	12-4				
406	12-8	1	12-8				
407	12-11	1	12-11				
408		6	1-2	1-1			
409		6	1-2	1-3			
410		6	1-2	1-4½			
501	11-6	1	11-6				
502	11-10	1	11-10				
503	12-0	1	12-0				
504	39-6	7	0-9	8-7	1-6	0-7	2-3
505	40-3	7	0-10	8-6	1-4	0-8	2-5
601	12-4	1	12-4				
602	12-8	1	12-8				
603	12-11	1	12-11				
604	11-9	1	11-9				
605	8-10	1	8-10				
701	12-4	1	12-4				
702	12-8	1	12-8				
703	12-11	1	12-11				
704	11-10	1	11-10				
705	8-10	1	8-10				
706	9-0	1	9-0				
707	8-5	8	4-2	4-3			
708	8-8	8	4-4	4-4			
709	41-8	7	0-10	7-7	2-0	1-0	2-8
710	42-9	7	1-5	6-3½	3-0	1-2	2-10
711	43-4½	7	1-6	5-7	4-0	1-3½	2-11½
801	12-0	1	12-0				
802	8-11	8	4-1	4-10			
803	9-7	8	3-11	5-8			
804	9-0	1	9-0				
805	9-4	1	9-4				
806	11-10	1	11-10				
901	12-11	1	12-11				
902	8-8	8	4-4	4-4			

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.

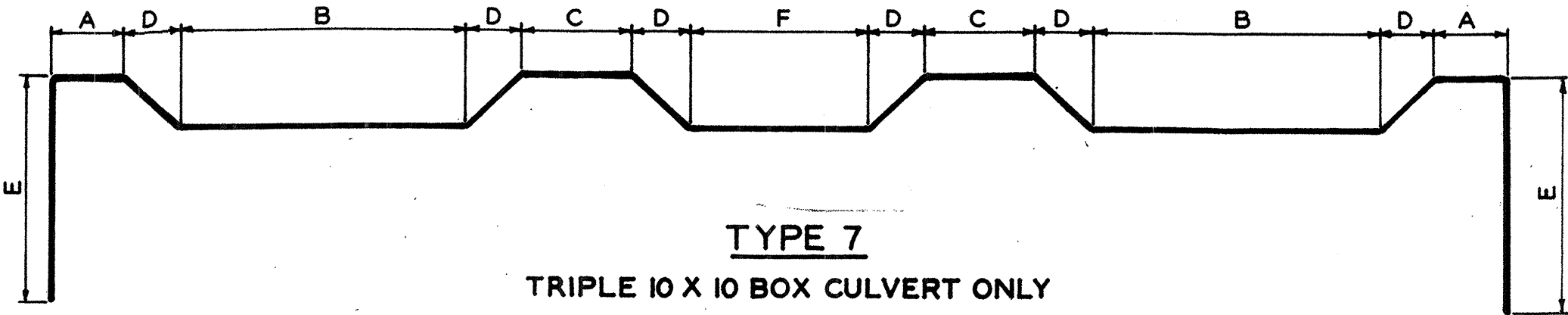
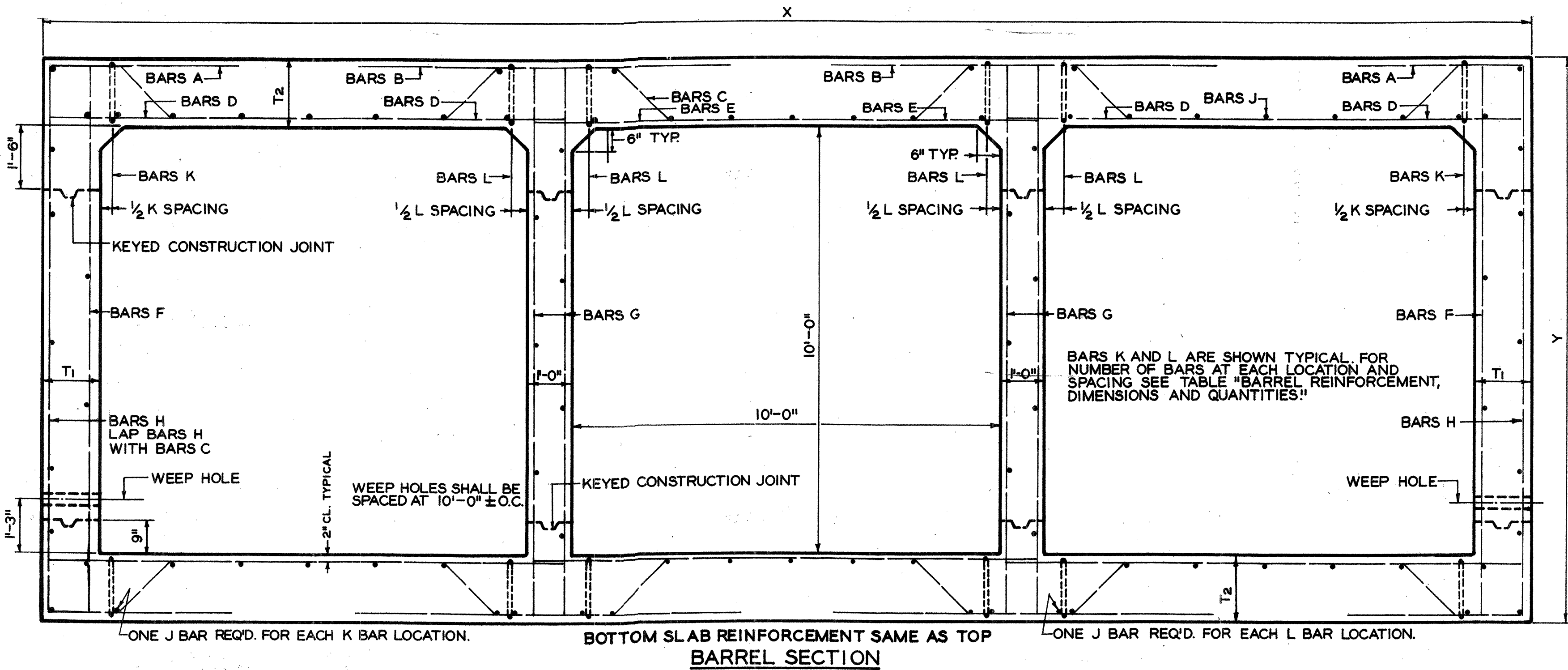
BOX CULVERT REQUIREMENTS:

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: 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

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA			
REINFORCED CONCRETE BOX CULVERT TRIPLE 10 X 10			
NO SCALE			
BY R.J.S. DATE 7-25-79	ADD NOTE R.J.S. 7-25-79	DELETE BAR INCREASE 1983 R.J.S. 7-28-80	ADD FILL HEIGHT NOTE R.M.D. 11-4-97
DESIGNED	J.T.K.	TRACED	J.J.R.-H.L.K.
DRAWN	F.E.H.	CHECKED	F.E.H.
REVIEWED	R.K.J.	APPROVED	