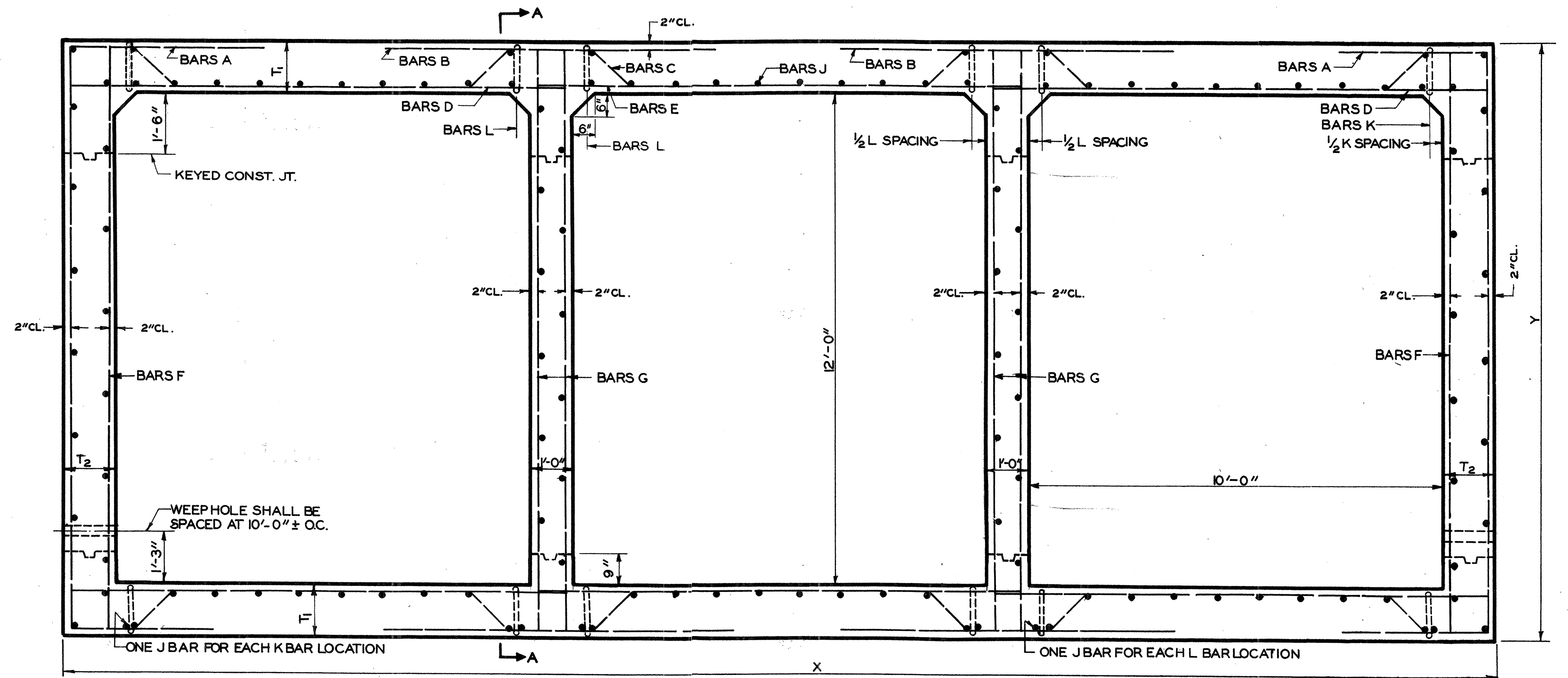


NOTE: THE DESIGN OF CULVERT SHALL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL WITH ONLY A SINGLE DESIGN BEING USED FOR THE ENTIRE INSTALLATION.

TRIPLE BOX CULVERT BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS						
DESIGN	1	2	3	4	5	6
BAR A	2-501 BETWEEN	801 @ 12	803 @ 12	804 @ 12	2-603 BETWEEN	901 @ 12
BAR B	2-502 BETWEEN	2-601 BETWEEN	2-701 BETWEEN	2-702 BETWEEN	3-604 BETWEEN	2-806 BETWEEN
BAR C	503 @ 12	505 @ 12	507 @ 12	508 @ 12	509 @ 12	510 @ 12
BAR D	401 @ 12	506 @ 12	602 @ 12	703 @ 12	704 @ 12	705 @ 12
BAR E	401 @ 12	401 @ 12	401 @ 12	401 @ 12	401 @ 12	401 @ 12
BAR F	504 @ 12	802 @ 12	807 @ 12	805 @ 12	808 @ 12	902 @ 12
BAR G	402 @ 12 E.F.	404 @ 12 E.F.	406 @ 12 E.F.	408 @ 12 E.F.	410 @ 12 E.F.	412 @ 12 E.F.
BAR J	116-403	128-403	136-403	140-403	168-403	164-403
BAR K	0	1-405 @ 6	1-407 @ 12	2-409 @ 7	3-411 @ 6 1/2	4-413 @ 4 1/2
BAR L	0	1-405 @ 6	2-407 @ 10	2-409 @ 7	5-411 @ 5 1/2	4-413 @ 4 1/2
T ₁	11 1/2"	14"	17"	19 1/2"	21 1/2"	23"
T ₂	11 1/2"	14"	16 1/2"	19"	21"	24"
X	33'-11"	34'-4"	34'-9"	35'-2"	35'-6"	36'-0"
Y	13'-11"	14'-4"	14'-10"	15'-3"	15'-7"	15'-10"
CU. YDS. CLASS "A" CONC.	4.172	4.922	5.782	6.552	7.182	7.802
LBS. BAR REINF. STEEL	417.5	599.1	688.1	764.4	911.5	1,028.4
MAX. FILL HT. OVER CULVERT	10'	20'	30'	40'	50'	60'

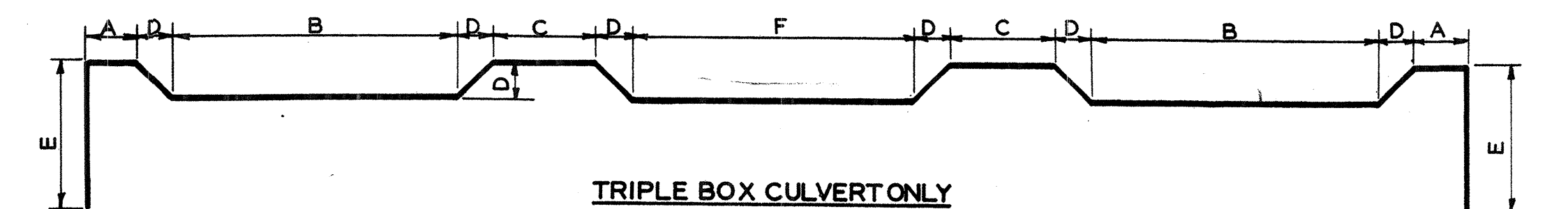
BARREL SECTION BAR REINFORCEMENT DETAILS								
MARK	LENGTH	TYPE	A	B	C	D	E	F
401	11'-8"	1						
402	13'-7"	1						
403	POUR - 4"	1						
404	14'-0"	1						
405	3'-11"	6	1'-1 5/8"	0'-10 1/2"	0'-10 1/2"			
406	14'-6"	1						
407	4'-5"	6	1'-1 5/8"	1'-1 1/2"	1'-1 1/2"			
408	14'-11"	1						
409	4'-10"	6	1'-1 5/8"	1'-4"	1'-4"			
410	15'-3"	1						
411	5'-2"	6	1'-1 5/8"	1'-6"	1'-6"			
412	15'-6"	1						
413	5'-5"	6	1'-1 5/8"	1'-7 1/2"	1'-7 1/2"			
501	21'-1"	8	13'-7"	3'-9"	3'-9"			
502	7'-0"	1						
503	39'-5"	7	2'-0"	6'-4 1/2"	3'-4"	0'-7 1/2"	2'-1 1/2"	6'-5"
504	13'-7"	1						
505	40'-8"	7	1'-5"	6'-11"	3'-0"	0'-10"	2'-4"	6'-4"
506	11'-10"	1						
507	42'-4"	7	1'-6"	7'-0 1/2"	2'-0"	1'-1"	2'-7"	6'-10"
508	43'-10"	7	1'-7 1/2"	6'-3 1/2"	3'-0"	1'-3 1/2"	2'-9 1/2"	5'-5"
509	44'-11"	7	1'-10"	6'-4"	2'-0"	1'-5 1/2"	3'-0"	6'-1"
510	45'-10"	7	2'-1"	5'-7"	3'-0"	1'-7"	3'-1"	4'-10"
601	8'-4"	1						
602	12'-1"	1						
603	23'-9"	8	15'-3"	4'-3"	4'-3"			
604	8'-0"	1						
701	8'-0"	1						
702	8'-6"	1						
703	12'-3"	1						
704	12'-5"	1						
705	12'-8"	1						
801	22'-6"	8	14'-0"	4'-3"	4'-3"			
802	14'-0"	1						
803	21'-6"	8	14'-6"	3'-6"	3'-6"			
804	23'-11"	8	14'-11"	4'-6"	4'-6"			
805	14'-11"	1						
806	10'-0"	1						
807	14'-6"	1						
808	15'-3"	1						
901	25'-0"	8	15'-6"	4'-9"	4'-9"			
902	15'-6"	1						

NOTE: WHEN MORE THAN ONE BAR A OR B IS REQUIRED, THEY ARE PLACED AT EQUAL SPACES BETWEEN BARS C.



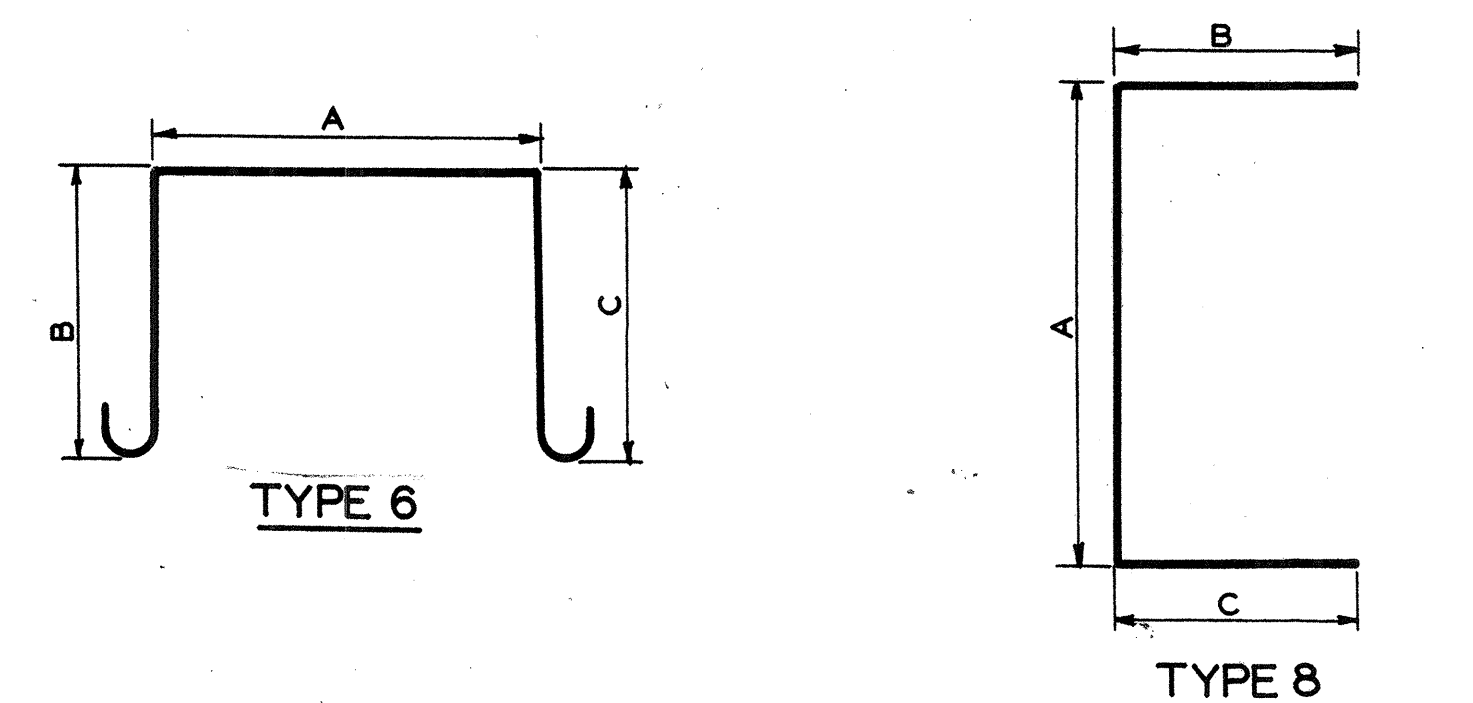
BOTTOM SLAB REINF. SAME AS TOP SLAB

BARREL SECTION



TRIPLE BOX CULVERT ONLY

TYPE 7



TYPE 6

TYPE 8

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 AND HOOK.

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, 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 POURING TOP SLAB.
FOR DETAILS OF WINGWALLS AND PARAPETS SEE GEORGIA STANDARD NO. 2327.

DESIGN DATA

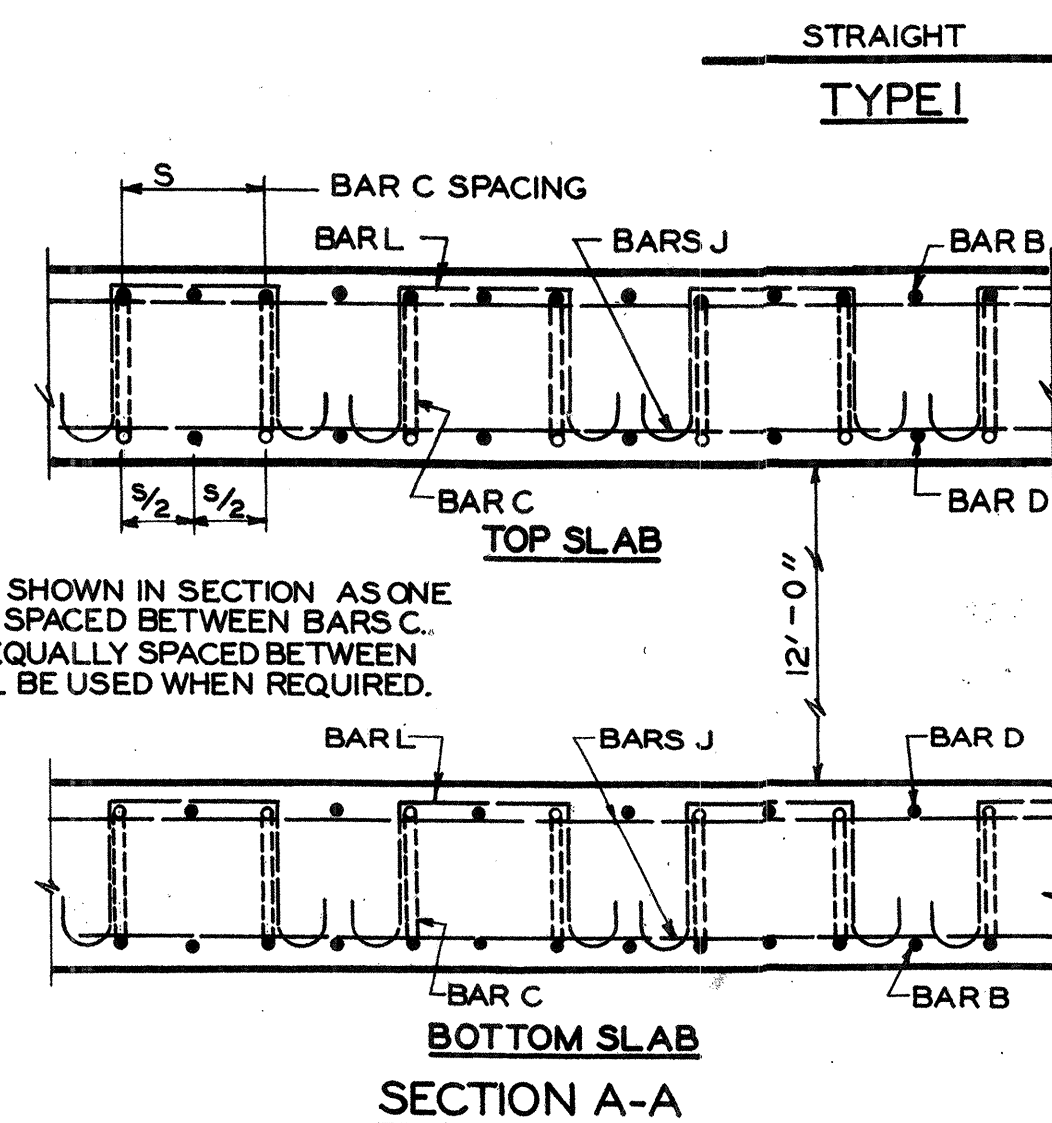
SPECIFICATIONS - A.A.S.H.O., 1961 THRU I-63
TYPICAL H20-S16 AND/OR MILITARY LOADING

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: 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 10'X12'

NO SCALE

OCTOBER 1964

BRIDGE SHEET OF
DESIGNED F.E.H.-J.R.T.
DRAWN P.D.P.
TRACED B.K.L.
CHECKED J.R.T.
REVIEWED R.K.J.
APPROVED