STATE	PROJECT NUMBER	SHEET No.	TOTAL SHEETS
GA	EDS00-0585-00(017)	466A	575

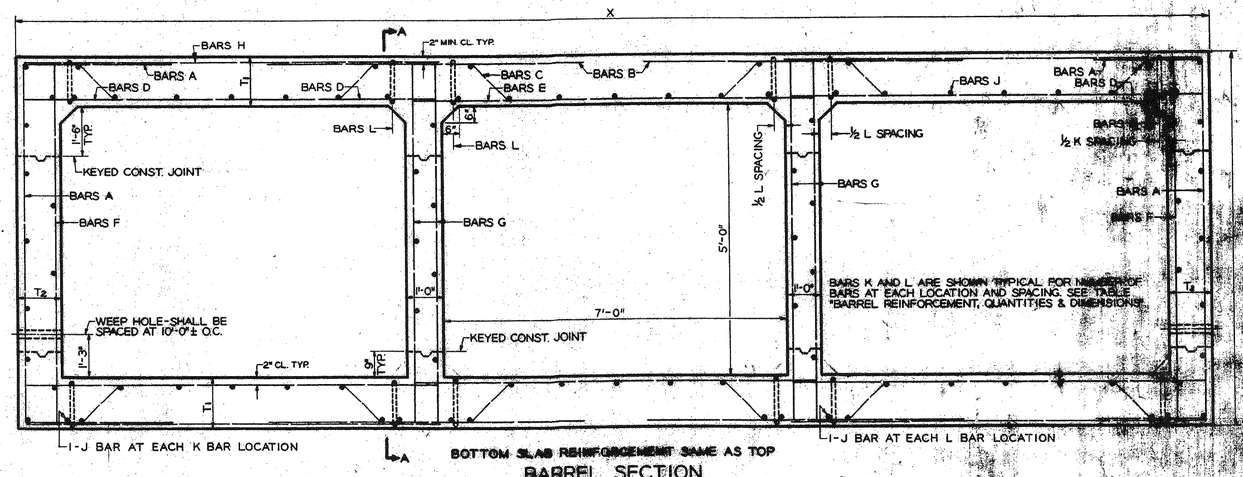
TRIPLE BOX CULVERT
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5
BARS A	401 AT 12	407 AT 12	503 AT 12	603 AT 12	606 AT 12
BARS B	601 AT 12	2-501 BETWEEN	2-602 BETWEEN	2-602 BETWEEN	2-602 BETWEEN
BARS C	402 AT 12	502 AT 12	504 AT 12	604 AT 12	607 AT 12
BARS D	403 AT 12	403 AT 12	505 AT 12	605 AT 12	605 AT 12
BARS E				413 AT 12	413 AT 12
BARS F	404 AT 12	409 AT 12	411 AT 12	414 AT 12	416 AT 12
BARS G	404 AT 12 E.F.	409 AT 12 E.F.	411 AT 12 E.F.	414 AT 12 E.F.	416 AT 12 E.F.
BARS H	405 AT 12	405 AT 12	405 AT 12	405 AT 12	405 AT 12
BARS J	78 - 406	86 - 406	98 - 406	106 - 406	114 - 406
BARS K		1 -	1 - 412 AT 12"	1 - 415 AT 12	1 - 417 AT 10
BARS L		1 - 410 AT 12	2 - 412 AT 10	3 - 415 AT 6	4 - 417 AT 5
T_1	9"	10½"	12½"	14"	15½"
T_2	10"	10"	12"	12"	12"
X	24'-8"	24'-8"	25'-0"	25'-0"	25'-0"
Y	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"
CU. YDS CLASS "A" CONCRETE	2.0771	2.3055	2.6975	2.9289	3.1604
LBS. BAR REINFORCEMENT STEEL	221.086	276.255	353.515	428.462	449.782
HEIGHT OF FILL OVER TOP	TO 10'	TO 20'	TO 30'	TO 40'	TO 50'

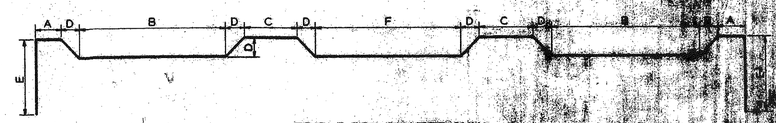
BARREL SECTION BAR REINFORCEMENT DETAILS

MARK	LENGTH	TYPE	A	B	C	D	E	F
401	11-2	8	6-2	2-6	2-6			
402	29-4	7	1-0	5-4	2-0	0-5	2-0	5-2
403	24-4	1						
404	6-2	1						
405	8-10	1						
406	POUR - 4	1						
407	11-5	8	6-5	2-6	2-6			
409	6-5	1						
410	3-4	6	1-1⅝	0-7	0-7			
411	6-9	1						
412	3-8	6	1-1⅝	0-9	0-9			
413	9-0	1						
414	7-0	1						
415	3-11	6	1-1¾	0-10½	0-10½			
416	7-3	1						
417	4-2	6	1-1¾	1-0	1-0			
501	6-0	1						
502	30-1	7	1-0	5-1	2-0	0-6½	2-3	4-11
503	11-9	8	6-9	2-6	2-6			
504	31-1	7	1-0	4-11	2-0	0-8½	2-4	4-7
505	24-8	1						
601	5-8	1						
602	6-0	1						
603	12-4	8	7-0	2-8	2-8			
604	31-4	7	1-0	4-8	2-0	0-10	2-4	4-4
605	9-0	1						
606	12-3	8	7-3	2-6	2-6			
607	31-11	7	1-0	4-5	2-0	0-11½	2-6	4-1

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



BARREL SECTION



TRIPLE BOX CULVERT ONLY
TYPE 7

SPECIFICATIONS - GEORGIA STANDARD.
ALL CONCRETE SHALL BE CLASS "A".
CHAMFER ALL EXPOSED EDGES ¾".
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 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.2326 AND NO.2329.

SPECIFICATIONS - A.A.S.H.O., 1953
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.

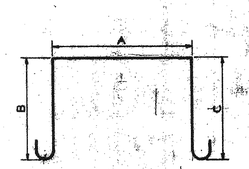
MAXIMUM POUR LENGTH SHALL NOT EXCEED 30 FEET ALONG THE LENGTH OF THE CULVERT.

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 CONTINOUS THROUGH SUCH JOINTS. THE MINIMUM LENGTH OF LAP SPLICE FOR LONGITUDINAL REINFORCING SHALL BE 24 INCHES.

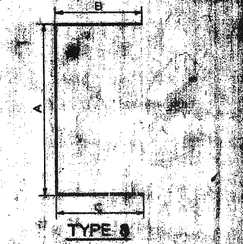
TRANSVERSE CONSTRUCTION JOINTS PLACED AT ANY OTHER LOCATION NOT SPECIFIED ABOVE SHALL BE FORMED WITH NO LONGITUDINAL REINFORCING STEEL PASSING THROUGH THE JOINTS.

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.

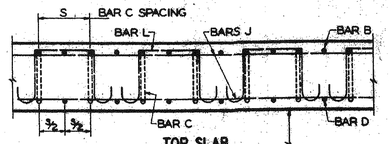
STRAIGHT
TYPE 1



TYPE 6

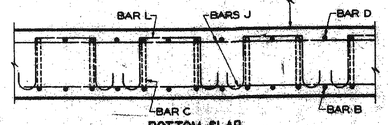


TYPE 8



TOP SLAB

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.



BOTTOM SLAB
SECTION A-A

△ 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

△ △ △

BY	REVISIONS	DATE
R.J.S.	REMOVED WAITING PERIOD NOTE	3-18-74
R.J.S.	ADD NOTE	7-25-74
R.J.S.	DELETE AND INCREASE TO #5	2-28-84
R.M.D.	ADD ALL MINOR NOTE	11-4-86

100 REQUIREMENT NOTE 1-16-90

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

REINFORCED CONCRETE BOX CULVERT
TRIPLE 7 X 5

NO SCALE — APRIL 1961

DESIGNED JTK	TRACED G.M.B.-L.R.	REVIEWED RJS
DRAWN P.D.R.	CHECKED	APPROVED

(22)

3/13/2012 9:26:06 AM \\GDOT-DSN\GOPLOT\OCF\GO_Klp8000.ocf tcox Me\TPC\SPECIAL DESIGN BOX CULVERTS (TIF OF MYLAR SHEETS)\SD22.TIF GO-EST