

TRIPLE 5'-0" X 3'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	502A @ 12"	402A @ 6"	403A @ 6"	405A @ 6"	408A @ 6"			
BAR B	554 @ 12"	456 @ 6"	457 @ 6"	551 @ 6"	548 @ 6"			
BAR C	416 @ 6"	416 @ 6"	417 @ 6"	509 @ 6"	510 @ 6"			
BAR D	511 @ 12"	419 @ 6"	419 @ 6"	419 @ 6"	419 @ 6"			
BAR E	403 @ 12"	403 @ 12"	404 @ 12"	404 @ 12"	405 @ 12"			
BAR F	403 @ 12"	403 @ 12"	404 @ 12"	404 @ 12"	405 @ 12"			
BAR G IN 2 SLABS	54 - 401	54 - 401	60 - 401	60 - 401	60 - 401			
BAR H IN 4 WALLS	18 - 402	18 - 402	18 - 402	18 - 402	18 - 402			
BAR J IN EXT. CORNER	0	0	0	3-403B @ 5"	3-406B @ 5¾"			
BAR J IN INT. CORNER	0	0	3-403B @ 5"	4-404B @ 5"	4-407B @ 5¾"			
T ₁	8"	8"	9"	9"	10"			
T ₂	9"	9"	10"	10"	11"			
T ₃	8"	8"	9"	9"	10"			
X	18'-4"	18'-4"	18'-6"	18'-6"	18'-8"			
Y	4'-5"	4'-5"	4'-7"	4'-7"	4'-9"			
YD³ CLASS AA CONCRETE/FT	1,360	1,360	1,502	1,502	1,645			
LB BAR REINF STEEL/FT	156.6	170.1	202.5	261.6	265.8			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.6	6.6	6.7	6.7	6.8			
LB BAR REINF STEEL	1041	1041	1098	1098	1097			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.9	6.9	7.0	7.0	7.1			
LB BAR REINF STEEL	1306	1306	1365	1365	1367			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	7.7	7.7	7.8	7.8	7.9			
LB BAR REINF STEEL	1387	1387	1446	1446	1449			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	9.4	9.4	9.6	9.6	9.8			
LB BAR REINF STEEL	1583	1583	1644	1644	1648			

TRIPLE 5'-0" X 4'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	505A @ 12"	411A @ 6"	413A @ 6"	414A @ 6"	417A @ 6"			
BAR B	458 @ 6"	455 @ 6"	455 @ 6"	548 @ 6"	548 @ 6"			
BAR C	416 @ 6"	416 @ 6"	417 @ 6"	509 @ 6"	510 @ 6"			
BAR D	511 @ 12"	419 @ 6"	419 @ 6"	419 @ 6"	419 @ 6"			
BAR E	408 @ 12"	408 @ 12"	409 @ 12"	409 @ 12"	410 @ 12"			
BAR F	408 @ 12"	408 @ 12"	409 @ 12"	409 @ 12"	410 @ 12"			
BAR G IN 2 SLABS	54 - 401	54 - 401	60 - 401	60 - 401	60 - 401			
BAR H IN 4 WALLS	24 - 402	24 - 402	24 - 402	24 - 402	24 - 402			
BAR J IN EXT. CORNER	0	0	0	3-403B @ 5"	3-406B @ 5¾"			
BAR J IN INT. CORNER	0	0	3-403B @ 5"	4-404B @ 5"	4-407B @ 5¾"			
T ₁	8"	8"	9"	9"	10"			
T ₂	9"	9"	10"	10"	11"			
T ₃	8"	8"	9"	9"	10"			
X	18'-4"	18'-4"	18'-6"	18'-6"	18'-8"			
Y	5'-5"	5'-5"	5'-7"	5'-7"	5'-9"			
YD³ CLASS AA CONCRETE/FT	1,484	1,484	1,631	1,631	1,781			
LB BAR REINF STEEL/FT	175.8	183.5	215.9	274.5	279.2			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	7.5	7.5	7.6	7.6	7.7			
LB BAR REINF STEEL	1085	1085	1144	1144	1143			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	7.8	7.8	7.9	7.9	8.0			
LB BAR REINF STEEL	1352	1352	1413	1413	1414			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	8.7	8.7	8.8	8.8	9.0			
LB BAR REINF STEEL	1433	1433	1495	1495	1497			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	10.7	10.7	10.9	10.9	11.1			
LB BAR REINF STEEL	1632	1632	1695	1695	1699			

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
		REVISION	STANDARD REINFORCED CONCRETE TRIPLE BOX CULVERT 5'X3 AND 5'X4' NO SCALE SEPTEMBER 2017	
	BY	DES. YSK. DRW. FGS. TRA. _____ CHK. JWB.	(SUBMITTED) <i>B. A. Ste...</i> STATE DESIGN POLICY ENGINEER (APPROVED) <i>Margaret B. P...</i> CHIEF ENGINEER	NUMBER 2403 SHEET 2-B OF 3