

TRIPLE 6'-0" X 3'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	409A @ 6"	406A @ 6"	407A @ 6"	410A @ 6"	503A @ 6"			
BAR B	468 @ 6"	572 @ 6"	573 @ 6"	568 @ 6"	618 @ 6"			
BAR C	423 @ 6"	424 @ 6"	515 @ 6"	516 @ 6"	601 @ 6"			
BAR D	426 @ 6"	426 @ 6"	426 @ 6"	426 @ 6"	702 @ 12"			
BAR E	403 @ 12"	404 @ 12"	405 @ 12"	406 @ 12"	407 @ 12"			
BAR F	501 @ 12"	404 @ 12"	405 @ 12"	406 @ 12"	407 @ 12"			
BAR G IN 2 SLABS	66 - 401	66 - 401	66 - 401	66 - 401	72 - 401			
BAR H IN 4 WALLS	18 - 402	18 - 402	18 - 402	18 - 402	18 - 402			
BAR J IN EXT. CORNER	0	0	0	3-409B @ 6½"	3-413B @ 7"			
BAR J IN INT. CORNER	0	3-404B @ 5"	3-407B @ 5¾"	4-410B @ 6½"	4-414B @ 7"			
T ₁	8"	9"	10"	11"	12"			
T ₂	9"	10"	11"	12"	13"			
T ₃	8"	9"	10"	11"	12"			
X	21'-4"	21'-6"	21'-8"	21'-10"	22'-0"			
Y	4'-5"	4'-7"	4'-9"	4'-11"	5'-1"			
YD³CLASS AA CONCRETE/FT	1.517	1.677	1.840	2.004	2.170			
LB BAR REINF STEEL/FT	200.2	245.0	270.7	297.8	387.7			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	7.5	7.7	7.8	7.9	8.1			
LB BAR REINF STEEL	1221	1220	1220	1219	1273			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	7.9	8.0	8.1	8.3	8.4			
LB BAR REINF STEEL	1525	1527	1529	1530	1587			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	8.8	8.9	9.1	9.2	9.4			
LB BAR REINF STEEL	1618	1620	1622	1625	1682			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	10.8	11.0	11.2	11.3	11.5			
LB BAR REINF STEEL	1840	1844	1848	1851	1910			

TRIPLE 6'-0" X 4'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	416A @ 6"	413A @ 6"	415A @ 6"	418A @ 6"	506A @ 6"			
BAR B	470 @ 6"	572 @ 6"	571 @ 6"	568 @ 6"	618 @ 6"			
BAR C	423 @ 6"	424 @ 6"	515 @ 6"	516 @ 6"	601 @ 6"			
BAR D	426 @ 6"	426 @ 6"	426 @ 6"	426 @ 6"	702 @ 12"			
BAR E	408 @ 12"	409 @ 12"	410 @ 12"	411 @ 12"	412 @ 12"			
BAR F	502 @ 12"	409 @ 12"	410 @ 12"	411 @ 12"	412 @ 12"			
BAR G IN 2 SLABS	66 - 401	66 - 401	66 - 401	66 - 401	72 - 401			
BAR H IN 4 WALLS	24 - 402	24 - 402	24 - 402	24 - 402	24 - 402			
BAR J IN EXT. CORNER	0	0	0	3-409B @ 6½"	3-413B @ 7"			
BAR J IN INT. CORNER	0	3-404B @ 5"	4-407B @ 5¾"	4-410B @ 6½"	4-414B @ 7"			
T ₁	8"	9"	10"	11"	12"			
T ₂	9"	10"	11"	12"	13"			
T ₃	8"	9"	10"	11"	12"			
X	21'-4"	21'-6"	21'-8"	21'-10"	22'-0"			
Y	5'-5"	5'-7"	5'-9"	5'-11"	6'-1"			
YD³CLASS AA CONCRETE/FT	1.641	1.807	1.975	2.146	2.318			
LB BAR REINF STEEL/FT	215.0	258.3	293.1	311.2	404.1			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	8.5	8.7	8.8	9.0	9.1			
LB BAR REINF STEEL	1268	1268	1267	1267	1323			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	8.9	9.0	9.2	9.3	9.5			
LB BAR REINF STEEL	1575	1576	1578	1580	1638			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	9.9	10.1	10.2	10.4	10.6			
LB BAR REINF STEEL	1668	1670	1673	1675	1734			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	12.2	12.4	12.6	12.8	13.0			
LB BAR REINF STEEL	1892	1896	1900	1904	1964			

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA		
		REVISION	STANDARD REINFORCED CONCRETE TRIPLE BOX CULVERT 6'X3' AND 6'X4'		
			NO SCALE		SEPTEMBER 2017
	BY	DES. _YSK_ (SUBMITTED) DRW. _EGS_ TRA. _____ CHK. _JWB_	STATE DESIGN POLICY ENGINEER (APPROVED) <i>Margaret B. Pivelo</i> CHIEF ENGINEER		NUMBER 2403 SHEET 2-D OF 3