

SINGLE 8'-0" X 4'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	429A @ 6"	431A @ 6"	526A @ 6"	602A @ 6"	604A @ 6"			
BAR C	706 @ 12"	520 @ 6"	611 @ 6"	612 @ 6"	708 @ 6"			
BAR E	412 @ 12"	413 @ 12"	414 @ 12"	415 @ 12"	416 @ 12"			
BAR G IN 2 SLABS	28 - 401	28 - 401	28 - 401	28 - 401	28 - 401			
BAR H IN 2 WALLS	12 - 402	12 - 402	12 - 402	12 - 402	12 - 402			
BAR J IN EXT. CORNER	0	0	3-412B @ 8½"	3-414B @ 9½"	3-416B @ 10"			
T ₁	12"	13"	14"	15"	16"			
T ₂	13"	14"	15"	16"	17"			
T ₃	12"	13"	14"	15"	16"			
X	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
Y	6'-1"	6'-3"	6'-5"	6'-7"	6'-9"			
YD³CLASS AA CONCRETE/FT	1,077	1,177	1,280	1,384	1,491			
LB BAR REINF STEEL/FT	117.0	119.6	181.6	216.5	242.8			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.1	4.3	4.4	4.5	4.7			
LB BAR REINF STEEL	631	633	635	636	638			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.3	4.5	4.6	4.7	4.9			
LB BAR REINF STEEL	785	789	793	797	801			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.8	5.0	5.1	5.3	5.4			
LB BAR REINF STEEL	832	836	841	845	850			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	6.0	6.1	6.3	6.5	6.7			
LB BAR REINF STEEL	955	961	967	973	979			

SINGLE 8'-0" X 5'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	438A @ 6"	441A @ 6"	535A @ 6"	539A @ 6"	608A @ 6"			
BAR C	706 @ 12"	520 @ 6"	611 @ 6"	707 @ 6"	708 @ 6"			
BAR E	418 @ 12"	419 @ 12"	420 @ 12"	421 @ 12"	422 @ 12"			
BAR G IN 2 SLABS	28 - 401	28 - 401	28 - 401	28 - 401	28 - 401			
BAR H IN 2 WALLS	14 - 402	14 - 402	14 - 402	14 - 402	14 - 402			
BAR J IN EXT. CORNER	0	0	3-412B @ 8½"	3-413B @ 9"	3-416B @ 10"			
T ₁	12"	13"	14"	15"	16"			
T ₂	13"	14"	15"	16"	17"			
T ₃	12"	13"	14"	15"	16"			
X	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
Y	7'-1"	7'-3"	7'-5"	7'-7"	7'-9"			
YD³CLASS AA CONCRETE/FT	1,151	1,258	1,366	1,477	1,590			
LB BAR REINF STEEL/FT	125.0	127.6	192.6	218.0	257.4			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.3	4.4	4.6	4.7	4.9			
LB BAR REINF STEEL	655	657	659	661	662			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.5	4.6	4.8	4.9	5.1			
LB BAR REINF STEEL	809	813	817	821	825			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	5.0	5.2	5.3	5.5	5.7			
LB BAR REINF STEEL	857	861	866	870	875			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	6.2	6.4	6.6	6.8	7.0			
LB BAR REINF STEEL	980	986	992	998	1004			

SINGLE 8'-0" X 6'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	446A @ 6"	449A @ 6"	547A @ 6"	549A @ 6"	614A @ 6"			
BAR C	706 @ 12"	520 @ 6"	611 @ 6"	707 @ 6"	708 @ 6"			
BAR E	424 @ 12"	425 @ 12"	426 @ 12"	427 @ 12"	428 @ 12"			
BAR G IN 2 SLABS	28 - 401	28 - 401	28 - 401	28 - 401	28 - 401			
BAR H IN 2 WALLS	18 - 402	18 - 402	18 - 402	18 - 402	18 - 402			
BAR J IN EXT. CORNER	0	0	3-412B @ 8½"	3-413B @ 9"	3-416B @ 10"			
T ₁	12"	13"	14"	15"	16"			
T ₂	13"	14"	15"	16"	17"			
T ₃	12"	13"	14"	15"	16"			
X	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
Y	8'-1"	8'-3"	8'-5"	8'-7"	8'-9"			
YD³CLASS AA CONCRETE/FT	1,225	1,338	1,453	1,569	1,688			
LB BAR REINF STEEL/FT	134.4	137.0	205.0	230.3	273.5			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.4	4.6	4.7	4.9	5.1			
LB BAR REINF STEEL	703	705	707	709	710			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.6	4.8	4.9	5.1	5.3			
LB BAR REINF STEEL	859	863	866	870	874			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	5.2	5.3	5.5	5.7	5.9			
LB BAR REINF STEEL	906	911	916	920	925			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	6.4	6.6	6.8	7.0	7.3			
LB BAR REINF STEEL	1031	1038	1044	1050	1056			

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
		REVISION	STANDARD REINFORCED CONCRETE SINGLE BOX CULVERT 8'X4', 8'X5' AND 8'X6' NO SCALE SEPTEMBER 2017	
	BY	DES. YSK DRW. FGS. TRA. _____ CHK. JWB	(SUBMITTED) <i>B. A. Stone</i> STATE DESIGN POLICY ENGINEER (APPROVED) <i>Margaret B. Pivelo</i> CHIEF ENGINEER	NUMBER 2401 SHEET 2-H OF 3