

SINGLE 10'-0" X 4'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	442A @ 6"	541A @ 6"	609A @ 6"	611A @ 6"	615A @ 6"			
BAR C	713 @ 12"	533 @ 6"	616 @ 6"	717 @ 6"	718 @ 6"			
BAR E	414 @ 12"	416 @ 12"	418 @ 12"	420 @ 12"	422 @ 12"			
BAR G IN 2 SLABS	32 - 40I	34 - 40I	34 - 40I	40 - 40I	40 - 40I			
BAR H IN 2 WALLS	12 - 402	12 - 402	12 - 402	12 - 402	12 - 402			
BAR J IN EXT. CORNER	0	0	0	3-421B @ 13"	3-422B @ 14 ³ / ₄ "			
T ₁	14"	16"	18"	20"	22"			
T ₂	15"	17"	19"	21"	23"			
T ₃	14"	16"	18"	20"	22"			
X	12'-4"	12'-8"	13'-0"	13'-4"	13'-8"			
Y	6'-5"	6'-9"	7'-1"	7'-5"	7'-9"			
YD ³ CLASS AA CONCRETE/FT	1.459	1.694	1.938	2.190	2.451			
LB BAR REINF STEEL/FT	136.8	172.0	236.9	296.2	304.7			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	5.1	5.4	5.7	6.0	6.3			
LB BAR REINF STEEL	716	737	739	803	805			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	5.3	5.6	5.9	6.2	6.5			
LB BAR REINF STEEL	900	925	932	1000	1007			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	6.0	6.3	6.6	6.9	7.3			
LB BAR REINF STEEL	956	983	991	1060	1069			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	7.4	7.8	8.2	8.6	9.0			
LB BAR REINF STEEL	1099	1129	1140	1212	1223			

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA		
		REVISION	STANDARD REINFORCED CONCRETE SINGLE BOX CULVERT 10'X4' NO SCALE SEPTEMBER 2017		
	BY	DES. YSK DRW. FGS. TRA. CHK. <u>JWB</u>	(SUBMITTED) (APPROVED) <i>Margaret B. Purcell</i> STATE DESIGN POLICY ENGINEER CHIEF ENGINEER	NUMBER 2401 SHEET 2-L OF 3	