

SINGLE 7'-0" X 4'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	419A @ 6"	420A @ 6"	517A @ 6"	518A @ 6"	601A @ 6"			
BAR C	510 @ 6"	511 @ 6"	608 @ 6"	609 @ 6"	704 @ 6"			
BAR E	409 @ 12"	410 @ 12"	411 @ 12"	412 @ 12"	413 @ 12"			
BAR G IN 2 SLABS	24 - 401	24 - 401	24 - 401	24 - 401	24 - 401			
BAR H IN 2 WALLS	12 - 402	12 - 402	12 - 402	12 - 402	12 - 402			
BAR J IN EXT. CORNER	2-403B @ 5"	0	3-409B @ 6 1/4"	4-410B @ 7"	4-411B @ 7 1/2"			
T ₁	9"	10"	11"	12"	13"			
T ₂	10"	11"	12"	13"	14"			
T ₃	9"	10"	11"	12"	13"			
X	8'-6"	8'-8"	8'-10"	9'-0"	9'-2"			
Y	5'-7"	5'-9"	5'-11"	6'-1"	6'-3"			
YD ³ CLASS AA CONCRETE/FT	0.730	0.818	0.908	1.000	1.094			
LB BAR REINF STEEL/FT	111.7	104.7	158.9	167.3	218.5			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	3.4	3.5	3.6	3.8	3.9			
LB BAR REINF STEEL	565	567	569	571	573			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	3.6	3.7	3.8	3.9	4.1			
LB BAR REINF STEEL	699	703	707	711	716			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	4.0	4.1	4.3	4.4	4.5			
LB BAR REINF STEEL	740	745	750	754	759			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD ³ CLASS AA CONCRETE	4.9	5.1	5.3	5.5	5.6			
LB BAR REINF STEEL	850	856	862	869	875			

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA		
		REVISION	STANDARD REINFORCED CONCRETE SINGLE BOX CULVERT 7'X4'		
			NO SCALE		SEPTEMBER 2017
	BY	DES. YSK DRW. EGS TRA. CHK. JWB	(SUBMITTED) <i>B. A. Ste...</i> STATE DESIGN POLICY ENGINEER (APPROVED) <i>Margaret B. P...</i> CHIEF ENGINEER	NUMBER 2401 SHEET 2-F OF 3	