

DOUBLE 7'-0" X 4'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	418A @ 6"	416A @ 6"	417A @ 6"	506A @ 6"	507A @ 6"			
BAR B	444 @ 6"	540 @ 6"	616 @ 6"	615 @ 6"	707 @ 6"			
BAR C	738 @ 12"	477 @ 6"	568 @ 6"	638 @ 6"	639 @ 6"			
BAR E	415 @ 12"	416 @ 12"	417 @ 12"	418 @ 12"	419 @ 12"			
BAR F	507 @ 12"	416 @ 12"	417 @ 12"	418 @ 12"	419 @ 12"			
BAR G IN 2 SLABS	48 - 401	48 - 401	48 - 401	48 - 401	48 - 401			
BAR H IN 3 WALLS	18 - 402	18 - 402	18 - 402	18 - 402	18 - 402			
BAR J IN EXT. CORNER	0	0	2-409B @ 6¼"	3-414B @ 7"	3-417B @ 7½"			
BAR J IN INT. CORNER	0	3-407B @ 5¾"	4-411B @ 6¼"	5-415B @ 7"	5-419B @ 7¼"			
T ₁	9"	10"	11"	12"	13"			
T ₂	10"	11"	12"	13"	14"			
T ₃	9"	10"	11"	12"	13"			
X	16'-6"	16'-8"	16'-10"	17'-0"	17'-2"			
Y	5'-7"	5'-9"	5'-11"	6'-1"	6'-3"			
YD³ CLASS AA CONCRETE/FT	1.356	1.494	1.633	1.775	1.918			
LB BAR REINF STEEL/FT	184.0	186.2	244.9	307.3	331.2			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.6	6.7	6.8	7.0	7.1			
LB BAR REINF STEEL	977	978	978	979	979			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.8	7.0	7.1	7.3	7.4			
LB BAR REINF STEEL	1218	1221	1223	1226	1229			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	7.6	7.8	8.0	8.1	8.3			
LB BAR REINF STEEL	1292	1295	1298	1301	1305			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	9.4	9.6	9.8	10.0	10.2			
LB BAR REINF STEEL	1473	1477	1482	1487	1491			

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA		
		REVISION	STANDARD REINFORCED CONCRETE DOUBLE 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 2402 SHEET 2-F OF 3	