

DOUBLE 6'-0" X 5'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	428A @ 6"	423A @ 6"	424A @ 6"	431A @ 6"	701A @ 12"			
BAR B	439 @ 6"	524 @ 6"	526 @ 6"	611 @ 6"	608 @ 6"			
BAR C	734 @ 12"	472 @ 6"	563 @ 6"	564 @ 6"	637 @ 6"			
BAR E	420 @ 12"	421 @ 12"	422 @ 12"	424 @ 12"	425 @ 12"			
BAR F	420 @ 12"	421 @ 12"	422 @ 12"	424 @ 12"	425 @ 12"			
BAR G IN 2 SLABS	44 - 401	44 - 401	44 - 401	44 - 401	44 - 401			
BAR H IN 3 WALLS	20 - 402	20 - 402	20 - 402	20 - 402	20 - 402			
BAR J IN EXT. CORNER	0	0	0	3-409B @ 6¼"	3-416B @ 7"			
BAR J IN INT. CORNER	0	3-404B @ 5"	4-407B @ 5¾"	4-411B @ 6¼"	4-415B @ 7"			
T ₁	8"	9"	10"	11"	12"			
T ₂	9"	10"	11"	12"	13"			
T ₃	8"	9"	10"	11"	12"			
X	14'-4"	14'-6"	14'-8"	14'-10"	15'-0"			
Y	6'-5"	6'-7"	6'-9"	6'-11"	7'-1"			
YD³ CLASS AA CONCRETE/FT	1.203	1.332	1.463	1.596	1.731			
LB BAR REINF STEEL/FT	174.6	176.9	205.7	236.1	285.9			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	5.9	6.0	6.2	6.3	6.5			
LB BAR REINF STEEL	919	920	921	922	923			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.1	6.3	6.4	6.6	6.7			
LB BAR REINF STEEL	1132	1135	1138	1141	1144			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.9	7.0	7.2	7.4	7.5			
LB BAR REINF STEEL	1198	1201	1205	1209	1212			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	8.5	8.7	8.9	9.1	9.3			
LB BAR REINF STEEL	1360	1366	1371	1376	1381			

DOUBLE 6'-0" X 6'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	447A @ 6"	438A @ 6"	443A @ 6"	704A @ 12"	525A @ 6"			
BAR B	446 @ 6"	520 @ 6"	518 @ 6"	606 @ 6"	609 @ 6"			
BAR C	734 @ 12"	472 @ 6"	563 @ 6"	564 @ 6"	637 @ 6"			
BAR E	428 @ 12"	429 @ 12"	431 @ 12"	525 @ 12"	527 @ 12"			
BAR F	428 @ 12"	429 @ 12"	431 @ 12"	432 @ 12"	434 @ 12"			
BAR G IN 2 SLABS	44 - 401	44 - 401	44 - 401	44 - 401	48 - 401			
BAR H IN 3 WALLS	26 - 402	26 - 402	26 - 402	26 - 402	26 - 402			
BAR J IN EXT. CORNER	0	0	2-406B @ 5¾"	3-412B @ 6¼"	3-414B @ 7"			
BAR J IN INT. CORNER	2-401B @ 4½"	3-404B @ 5"	4-407B @ 5¾"	4-411B @ 6¼"	4-415B @ 7"			
T ₁	8"	9"	10"	11"	12"			
T ₂	9"	10"	11"	12"	13"			
T ₃	8"	9"	10"	11"	12"			
X	14'-4"	14'-6"	14'-8"	14'-10"	15'-0"			
Y	7'-5"	7'-7"	7'-9"	7'-11"	8'-1"			
YD³ CLASS AA CONCRETE/FT	1.289	1.424	1.562	1.701	1.843			
LB BAR REINF STEEL/FT	199.9	188.4	226.0	274.3	311.2			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.1	6.2	6.4	6.5	6.7			
LB BAR REINF STEEL	969	970	971	972	1010			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.3	6.5	6.6	6.8	7.0			
LB BAR REINF STEEL	1184	1187	1190	1193	1234			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	7.1	7.2	7.4	7.6	7.8			
LB BAR REINF STEEL	1250	1254	1257	1261	1303			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	8.7	8.9	9.1	9.4	9.6			
LB BAR REINF STEEL	1415	1420	1425	1430	1473			

DOUBLE 6'-0" X 7'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	472A @ 6"	454A @ 6"	458A @ 6"	535A @ 6"	538A @ 6"			
BAR B	441 @ 6"	517 @ 6"	515 @ 6"	607 @ 6"	607 @ 6"			
BAR C	561 @ 6"	472 @ 6"	563 @ 6"	564 @ 6"	637 @ 6"			
BAR E	437 @ 12"	532 @ 12"	533 @ 12"	534 @ 12"	535 @ 12"			
BAR F	437 @ 12"	438 @ 12"	440 @ 12"	441 @ 12"	442 @ 12"			
BAR G IN 2 SLABS	44 - 401	44 - 401	44 - 401	44 - 401	48 - 401			
BAR H IN 3 WALLS	30 - 402	30 - 402	30 - 402	30 - 402	30 - 402			
BAR J IN EXT. CORNER	0	0	3-406B @ 5¾"	3-410B @ 6¼"	3-414B @ 7"			
BAR J IN INT. CORNER	2-401B @ 4½"	3-404B @ 5"	4-407B @ 5¾"	4-411B @ 6¼"	4-415B @ 7"			
T ₁	8"	9"	10"	11"	12"			
T ₂	9"	10"	11"	12"	13"			
T ₃	8"	9"	10"	11"	12"			
X	14'-4"	14'-6"	14'-8"	14'-10"	15'-0"			
Y	8'-5"	8'-7"	8'-9"	8'-11"	9'-1"			
YD³ CLASS AA CONCRETE/FT	1.376	1.517	1.660	1.806	1.954			
LB BAR REINF STEEL/FT	217.7	204.5	246.4	290.4	324.2			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.3	6.5	6.6	6.8	7.0			
LB BAR REINF STEEL	996	997	998	999	1038			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.6	6.7	6.9	7.1	7.3			
LB BAR REINF STEEL	1212	1215	1218	1221	1262			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	7.3	7.5	7.7	7.9	8.1			
LB BAR REINF STEEL	1279	1282	1286	1290	1331			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	9.0	9.3	9.5	9.7	10.0			
LB BAR REINF STEEL	1445	1450	1455	1461	1503			

DOUBLE 6'-0" X 8'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	466A @ 6"	467A @ 6"	552A @ 6"	554A @ 6"	558A @ 6"			
BAR B	441 @ 6"	511 @ 6"	510 @ 6"	605 @ 6"	604 @ 6"			
BAR C	561 @ 6"	472 @ 6"	563 @ 6"	564 @ 6"	637 @ 6"			
BAR E	537 @ 12"	538 @ 12"	447 @ 6"	448 @ 6"	712 @ 12"			
BAR F	444 @ 12"	445 @ 12"	447 @ 12"	448 @ 12"	449 @ 12"			
BAR G IN 2 SLABS	44 - 401	44 - 401	44 - 401	44 - 401	48 - 401			
BAR H IN 3 WALLS	32 - 402	32 - 402	32 - 402	32 - 402	32 - 402			
BAR J IN EXT. CORNER	0	0	3-407B @ 5¾"	4-410B @ 6¼"	3-414B @ 7"			
BAR J IN INT. CORNER	3-401B @ 4½"	3-404B @ 5"	4-407B @ 5¾"	4-411B @ 6¼"	4-415B @ 7"			
T ₁	8"	9"	10"	11"	12"			
T ₂	9"	10"	11"	12"	13"			
T ₃	8"	9"	10"	11"	12"			
X	14'-4"	14'-6"	14'-8"	14'-10"	15'-0"			
Y	9'-5"	9'-7"	9'-9"	9'-11"	10'-1"			
YD³ CLASS AA CONCRETE/FT	1.462	1.610	1.759	1.911	2.065			
LB BAR REINF STEEL/FT	230.9	213.3	293.1	312.7	355.6			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.6	6.7	6.9	7.1	7.3			
LB BAR REINF STEEL	1023	1024	1025	1025	1064			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.8	7.0	7.2	7.4	7.6			
LB BAR REINF STEEL	1239	1242	1245	1248	1289			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	7.6	7.8	8.0	8.2	8.5			
LB BAR REINF STEEL	1306	1310	1314	1317	1359			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	9.4	9.6	9.9	10.2	10.4			
LB BAR REINF STEEL	1473	1478	1483	1489	1532			

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
		REVISION	STANDARD REINFORCED CONCRETE DOUBLE BOX CULVERT 6'X5', 6'X6', 6'X7' AND 6'X8'	
			NO SCALE SEPTEMBER 2017	
	BY	DES. YSK DRW. FGS. TRA. <u> </u> CHK. <u>JWB</u>	(SUBMITTED) <i>B. A. H.</i> STATE DESIGN POLICY ENGINEER (APPROVED) <i>Margaret B. Pucke</i> CHIEF ENGINEER	NUMBER 2402 SHEET 2-E OF 3