

SINGLE 6'-0" X 5'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	421A @ 6"	423A @ 6"	424A @ 6"	519A @ 6"	521A @ 6"			
BAR C	505 @ 6"	506 @ 6"	604 @ 6"	605 @ 6"	606 @ 6"			
BAR E	414 @ 12"	415 @ 12"	416 @ 12"	417 @ 12"	418 @ 12"			
BAR G IN 2 SLABS	22 - 40I	22 - 40I	22 - 40I	22 - 40I	24 - 40I			
BAR H IN 2 WALLS	14 - 402	14 - 402	14 - 402	14 - 402	14 - 402			
BAR J IN EXT. CORNER	2-40IB @ 4½"	0	3-406B @ 5¾"	4-409B @ 6¼"	4-410B @ 7"			
T ₁	8"	9"	10"	11"	12"			
T ₂	9"	10"	11"	12"	13"			
T ₃	8"	9"	10"	11"	12"			
X	7'-4"	7'-6"	7'-8"	7'-10"	8'-0"			
Y	6'-5"	6'-7"	6'-9"	6'-11"	7'-1"			
YD³CLASS AA CONCRETE/FT	0.641	0.727	0.815	0.905	0.997			
LB BAR REINF STEEL/FT	109.3	102.7	131.8	163.3	168.1			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.0	3.2	3.3	3.4	3.6			
LB BAR REINF STEEL	546	549	551	553	574			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.2	3.3	3.4	3.6	3.7			
LB BAR REINF STEEL	665	670	674	679	702			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.6	3.7	3.8	4.0	4.2			
LB BAR REINF STEEL	702	707	712	717	741			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.4	4.6	4.8	5.0	5.2			
LB BAR REINF STEEL	803	809	816	822	848			

SINGLE 6'-0" X 6'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	432A @ 6"	433A @ 6"	434A @ 6"	529A @ 6"	530A @ 6"			
BAR C	505 @ 6"	506 @ 6"	604 @ 6"	605 @ 6"	701 @ 6"			
BAR E	420 @ 12"	421 @ 12"	422 @ 12"	423 @ 12"	508 @ 12"			
BAR G IN 2 SLABS	22 - 40I	22 - 40I	22 - 40I	22 - 40I	24 - 40I			
BAR H IN 2 WALLS	18 - 402	18 - 402	18 - 402	18 - 402	18 - 402			
BAR J IN EXT. CORNER	2-40IB @ 4½"	0	3-406B @ 5¾"	4-409B @ 6¼"	4-410B @ 6¾"			
T ₁	8"	9"	10"	11"	12"			
T ₂	9"	10"	11"	12"	13"			
T ₃	8"	9"	10"	11"	12"			
X	7'-4"	7'-6"	7'-8"	7'-10"	8'-0"			
Y	7'-5"	7'-7"	7'-9"	7'-11"	8'-1"			
YD³CLASS AA CONCRETE/FT	0.690	0.782	0.877	0.973	1.071			
LB BAR REINF STEEL/FT	118.6	112.1	141.2	175.6	202.8			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.1	3.3	3.4	3.6	3.7			
LB BAR REINF STEEL	595	597	599	601	622			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.3	3.4	3.6	3.7	3.9			
LB BAR REINF STEEL	715	719	723	728	751			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.7	3.8	4.0	4.2	4.3			
LB BAR REINF STEEL	752	757	762	767	791			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.5	4.7	4.9	5.2	5.4			
LB BAR REINF STEEL	854	861	867	873	899			

SINGLE 6'-0" X 7'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	452A @ 6"	443A @ 6"	540A @ 6"	542A @ 6"	543A @ 6"			
BAR C	505 @ 6"	506 @ 6"	604 @ 6"	605 @ 6"	701 @ 6"			
BAR E	426 @ 12"	510 @ 12"	511 @ 12"	512 @ 12"	513 @ 12"			
BAR G IN 2 SLABS	22 - 40I	22 - 40I	22 - 40I	22 - 40I	24 - 40I			
BAR H IN 2 WALLS	20 - 402	20 - 402	20 - 402	20 - 402	20 - 402			
BAR J IN EXT. CORNER	2-40IB @ 4½"	0	3-407B @ 5¾"	4-409B @ 6¼"	4-410B @ 6¾"			
T ₁	8"	9"	10"	11"	12"			
T ₂	9"	10"	11"	12"	13"			
T ₃	8"	9"	10"	11"	12"			
X	7'-4"	7'-6"	7'-8"	7'-10"	8'-0"			
Y	8'-5"	8'-7"	8'-9"	8'-11"	9'-1"			
YD³CLASS AA CONCRETE/FT	0.740	0.838	0.938	1.041	1.145			
LB BAR REINF STEEL/FT	133.7	126.2	184.8	193.0	214.6			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.3	3.4	3.6	3.7	3.9			
LB BAR REINF STEEL	619	621	624	626	647			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.4	3.6	3.7	3.9	4.1			
LB BAR REINF STEEL	740	744	749	753	776			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.8	4.0	4.2	4.3	4.5			
LB BAR REINF STEEL	777	782	788	793	816			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.7	4.9	5.2	5.4	5.6			
LB BAR REINF STEEL	880	887	893	900	925			

SINGLE 6'-0" X 8'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	460A @ 6"	451A @ 6"	550A @ 6"	552A @ 6"	553A @ 6"			
BAR C	505 @ 6"	506 @ 6"	604 @ 6"	605 @ 6"	701 @ 6"			
BAR E	515 @ 12"	516 @ 12"	434 @ 6"	610 @ 12"	706 @ 12"			
BAR G IN 2 SLABS	22 - 40I	22 - 40I	22 - 40I	22 - 40I	24 - 40I			
BAR H IN 2 WALLS	22 - 402	22 - 402	22 - 402	22 - 402	22 - 402			
BAR J IN EXT. CORNER	3-40IB @ 4½"	0	3-407B @ 5¾"	4-409B @ 6¼"	4-410B @ 6¾"			
T ₁	8"	9"	10"	11"	12"			
T ₂	9"	10"	11"	12"	13"			
T ₃	8"	9"	10"	11"	12"			
X	7'-4"	7'-6"	7'-8"	7'-10"	8'-0"			
Y	9'-5"	9'-7"	9'-9"	9'-11"	10'-1"			
YD³CLASS AA CONCRETE/FT	0.789	0.894	1.000	1.109	1.219			
LB BAR REINF STEEL/FT	152.7	135.4	202.0	213.5	245.7			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.4	3.6	3.7	3.9	4.1			
LB BAR REINF STEEL	645	647	649	651	672			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³CLASS AA CONCRETE	3.6	3.7	3.9	4.1	4.3			
LB BAR REINF STEEL	766	770	774	779	802			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.0	4.2	4.4	4.6	4.8			
LB BAR REINF STEEL	804	809	814	819	843			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³CLASS AA CONCRETE	4.9	5.2	5.4	5.6	5.9			
LB BAR REINF STEEL	907	914	920	927	952			

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
		REVISION	STANDARD REINFORCED CONCRETE SINGLE BOX CULVERT 6'X5', 6'X6', 6'X7' AND 6'X8' NO SCALE SEPTEMBER 2017	
	BY	DES. YSK DRW. EGS TRA. CHK. JWB	(SUBMITTED) <i>[Signature]</i> STATE DESIGN POLICY ENGINEER (APPROVED) <i>[Signature]</i> CHIEF ENGINEER	NUMBER 2401 SHEET 2-E OF 3