

DOUBLE 5'-0" X 5'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	510A @ 12"	420A @ 6"	423A @ 6"	423A @ 6"	429A @ 6"			
BAR B	433 @ 6"	416 @ 6"	508 @ 6"	508 @ 6"	602 @ 6"			
BAR C	463 @ 6"	463 @ 6"	464 @ 6"	554 @ 6"	555 @ 6"			
BAR E	420 @ 12"	420 @ 12"	421 @ 12"	421 @ 12"	422 @ 12"			
BAR F	420 @ 12"	420 @ 12"	421 @ 12"	421 @ 12"	422 @ 12"			
BAR G IN 2 SLABS	36 - 40I	36 - 40I	40 - 40I	40 - 40I	40 - 40I			
BAR H IN 3 WALLS	20 - 402	20 - 402	20 - 402	20 - 402	20 - 402			
BAR J IN EXT. CORNER	0	0	0	3-403B @ 5"	3-406B @ 5¾"			
BAR J IN INT. CORNER	0	2-40IB @ 4½"	3-404B @ 5"	4-404B @ 5"	4-408B @ 5¾"			
T ₁	8"	8"	9"	9"	10"			
T ₂	9"	9"	10"	10"	11"			
T ₃	8"	8"	9"	9"	10"			
X	12'-4"	12'-4"	12'-6"	12'-6"	12'-8"			
Y	6'-5"	6'-5"	6'-7"	6'-7"	6'-9"			
YD³ CLASS AA CONCRETE/FT	1.098	1.098	1.215	1.215	1.333			
LB BAR REINF STEEL/FT	135.0	142.8	160.2	196.0	209.4			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	5.2	5.2	5.3	5.3	5.5			
LB BAR REINF STEEL	797	797	837	837	838			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	5.4	5.4	5.6	5.6	5.7			
LB BAR REINF STEEL	984	984	1026	1026	1029			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.0	6.0	6.2	6.2	6.4			
LB BAR REINF STEEL	1041	1041	1084	1084	1088			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	7.5	7.5	7.7	7.7	7.9			
LB BAR REINF STEEL	1187	1187	1231	1231	1236			

DOUBLE 5'-0" X 6'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	534A @ 12"	437A @ 6"	438A @ 6"	519A @ 6"	522A @ 6"			
BAR B	430 @ 6"	413 @ 6"	506 @ 6"	504 @ 6"	601 @ 6"			
BAR C	463 @ 6"	463 @ 6"	464 @ 6"	554 @ 6"	555 @ 6"			
BAR E	428 @ 12"	519 @ 12"	521 @ 12"	521 @ 12"	523 @ 12"			
BAR F	428 @ 12"	428 @ 12"	429 @ 12"	429 @ 12"	431 @ 12"			
BAR G IN 2 SLABS	36 - 40I	36 - 40I	40 - 40I	40 - 40I	40 - 40I			
BAR H IN 3 WALLS	26 - 402	26 - 402	26 - 402	26 - 402	26 - 402			
BAR J IN EXT. CORNER	0	0	2-403B @ 5"	4-404B @ 5"	4-407B @ 5¾"			
BAR J IN INT. CORNER	0	2-40IB @ 4½"	3-404B @ 5"	4-404B @ 5"	4-408B @ 5¾"			
T ₁	8"	8"	9"	9"	10"			
T ₂	9"	9"	10"	10"	11"			
T ₃	8"	8"	9"	9"	10"			
X	12'-4"	12'-4"	12'-6"	12'-6"	12'-8"			
Y	7'-5"	7'-5"	7'-7"	7'-7"	7'-9"			
YD³ CLASS AA CONCRETE/FT	1.184	1.184	1.307	1.307	1.432			
LB BAR REINF STEEL/FT	150.8	160.1	185.9	241.2	255.1			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	5.4	5.4	5.5	5.5	5.7			
LB BAR REINF STEEL	847	847	887	887	888			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	5.6	5.6	5.7	5.7	5.9			
LB BAR REINF STEEL	1035	1035	1078	1078	1081			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.2	6.2	6.4	6.4	6.6			
LB BAR REINF STEEL	1093	1093	1137	1137	1140			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	7.7	7.7	7.9	7.9	8.1			
LB BAR REINF STEEL	1241	1241	1286	1286	1291			

DOUBLE 5'-0" X 7'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	546A @ 12"	455A @ 6"	532A @ 6"	532A @ 6"	536A @ 6"			
BAR B	430 @ 6"	409 @ 6"	503 @ 6"	504 @ 6"	601 @ 6"			
BAR C	463 @ 6"	463 @ 6"	464 @ 6"	554 @ 6"	555 @ 6"			
BAR E	437 @ 12"	531 @ 12"	532 @ 12"	438 @ 6"	613 @ 12"			
BAR F	437 @ 12"	437 @ 12"	438 @ 12"	438 @ 12"	440 @ 12"			
BAR G IN 2 SLABS	36 - 40I	36 - 40I	40 - 40I	40 - 40I	40 - 40I			
BAR H IN 3 WALLS	30 - 402	30 - 402	30 - 402	30 - 402	30 - 402			
BAR J IN EXT. CORNER	0	0	3-404B @ 5"	4-404B @ 5"	4-407B @ 5¾"			
BAR J IN INT. CORNER	0	2-40IB @ 4½"	3-404B @ 5"	4-404B @ 5"	4-408B @ 5¾"			
T ₁	8"	8"	9"	9"	10"			
T ₂	9"	9"	10"	10"	11"			
T ₃	8"	8"	9"	9"	10"			
X	12'-4"	12'-4"	12'-6"	12'-6"	12'-8"			
Y	8'-5"	8'-5"	8'-7"	8'-7"	8'-9"			
YD³ CLASS AA CONCRETE/FT	1.271	1.271	1.400	1.400	1.531			
LB BAR REINF STEEL/FT	160.4	171.8	230.0	263.2	279.3			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	5.6	5.6	5.7	5.7	5.9			
LB BAR REINF STEEL	874	874	914	914	915			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	5.8	5.8	6.0	6.0	6.2			
LB BAR REINF STEEL	1063	1063	1106	1106	1109			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.5	6.5	6.7	6.7	6.9			
LB BAR REINF STEEL	1122	1122	1165	1165	1169			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	8.0	8.0	8.2	8.2	8.5			
LB BAR REINF STEEL	1271	1271	1316	1316	1321			

DOUBLE 5'-0" X 8'-0" BOX CULVERT								
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS								
DESIGN	1	2	3	4	5	6	7	8
BAR A	468A @ 6"	547A @ 6"	548A @ 6"	602A @ 6"	603A @ 6"			
BAR B	430 @ 6"	411 @ 6"	503 @ 6"	505 @ 6"	601 @ 6"			
BAR C	463 @ 6"	463 @ 6"	464 @ 6"	554 @ 6"	555 @ 6"			
BAR E	537 @ 12"	444 @ 6"	708 @ 12"	538 @ 6"	539 @ 6"			
BAR F	444 @ 12"	444 @ 12"	445 @ 12"	445 @ 12"	447 @ 12"			
BAR G IN 2 SLABS	36 - 40I	36 - 40I	40 - 40I	36 - 40I	40 - 40I			
BAR H IN 3 WALLS	32 - 402	32 - 402	32 - 402	32 - 402	32 - 402			
BAR J IN EXT. CORNER	0	2-402B @ 4½"	3-404B @ 5"	4-405B @ 5"	4-408B @ 5¾"			
BAR J IN INT. CORNER	0	3-40IB @ 4½"	3-404B @ 5"	4-404B @ 5"	4-408B @ 5¾"			
T ₁	8"	8"	9"	9"	10"			
T ₂	9"	9"	10"	10"	11"			
T ₃	8"	8"	9"	9"	10"			
X	12'-4"	12'-4"	12'-6"	12'-6"	12'-8"			
Y	9'-5"	9'-5"	9'-7"	9'-7"	9'-9"			
YD³ CLASS AA CONCRETE/FT	1.357	1.357	1.492	1.492	1.630			
LB BAR REINF STEEL/FT	183.8	234.1	263.5	331.4	347.9			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	5.8	5.8	6.0	6.0	6.2			
LB BAR REINF STEEL	900	900	941	901	941			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.1	6.1	6.3	6.3	6.4			
LB BAR REINF STEEL	1090	1090	1133	1093	1136			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	6.8	6.8	7.0	7.0	7.2			
LB BAR REINF STEEL	1149	1149	1192	1153	1196			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD³ CLASS AA CONCRETE	8.4	8.4	8.6	8.6	8.9			
LB BAR REINF STEEL	1299	1299	1344	1304	1349			

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
		REVISION	STANDARD REINFORCED CONCRETE DOUBLE BOX CULVERT 5'X5', 5'X6', 5'X7' AND 5'X8' NO SCALE SEPTEMBER 2017	
	BY	DES. YSK DRW. FGS. TRA. _____ CHK. JWB	(SUBMITTED) <i>B. A. H.</i> STATE DESIGN POLICY ENGINEER (APPROVED) <i>Margaret B. Pucke</i> CHIEF ENGINEER	NUMBER 2402 SHEET 2-C OF 3