

								STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
								GA.			
TRIPLE 8'-0" X 4'-0" BOX CULVERT											
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS											
DESIGN	1	2	3	4	5	6	7	8			
BAR A	509A @ 12"	423A @ 6"	427A @ 6"	511A @ 6"	514A @ 6"						
BAR B	487 @ 6"	584 @ 6"	637 @ 6"	635 @ 6"	632 @ 6"						
BAR C	442 @ 6"	706 @ 12"	533 @ 6"	605 @ 6"	606 @ 6"						
BAR D	531 @ 12"	442 @ 6"	442 @ 6"	442 @ 6"	531 @ 6"						
BAR E	412 @ 12"	413 @ 12"	414 @ 12"	415 @ 12"	416 @ 12"						
BAR F	506 @ 12"	413 @ 12"	414 @ 12"	415 @ 12"	416 @ 12"						
BAR G IN 2 SLABS	84 - 401	84 - 401	84 - 401	84 - 401	84 - 401						
BAR H IN 4 WALLS	24 - 402	24 - 402	24 - 402	24 - 402	24 - 402						
BAR J IN EXT. CORNER	0	0	0	0	3-421B @ 10 1/4"						
BAR J IN INT. CORNER	0	0	3-418B @ 8 1/2"	4-420B @ 9 1/2"	4-422B @ 10 1/4"						
T ₁	12"	13"	14"	15"	16"						
T ₂	13"	14"	15"	16"	17"						
T ₃	12"	13"	14"	15"	16"						
X	28'-0"	28'-2"	28'-4"	28'-6"	28'-8"						
Y	6'-1"	6'-3"	6'-5"	6'-7"	6'-9"						
YD ³ CLASS AA CONCRETE/FT	2.781	2.992	3.206	3.421	3.639						
LB BAR REINF STEEL/FT	257.1	319.0	392.5	464.2	501.0						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL											
YD ³ CLASS AA CONCRETE	11.3	11.4	11.6	11.8	12.0						
LB BAR REINF STEEL	1567	1565	1563	1561	1560						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL											
YD ³ CLASS AA CONCRETE	11.7	11.9	12.1	12.2	12.4						
LB BAR REINF STEEL	1961	1961	1962	1962	1962						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL											
YD ³ CLASS AA CONCRETE	13.1	13.3	13.5	13.7	13.9						
LB BAR REINF STEEL	2081	2082	2083	2084	2085						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL											
YD ³ CLASS AA CONCRETE	16.1	16.3	16.5	16.8	17.0						
LB BAR REINF STEEL	2362	2365	2367	2370	2372						
TRIPLE 8'-0" X 5'-0" BOX CULVERT											
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS											
DESIGN	1	2	3	4	5	6	7	8			
BAR A	517A @ 12"	436A @ 6"	441A @ 6"	522A @ 6"	527A @ 6"						
BAR B	486 @ 6"	584 @ 6"	636 @ 6"	635 @ 6"	723 @ 6"						
BAR C	442 @ 6"	706 @ 12"	533 @ 6"	605 @ 6"	606 @ 6"						
BAR D	531 @ 12"	442 @ 6"	442 @ 6"	442 @ 6"	531 @ 6"						
BAR E	419 @ 12"	420 @ 12"	421 @ 12"	422 @ 12"	423 @ 12"						
BAR F	511 @ 12"	420 @ 12"	421 @ 12"	422 @ 12"	423 @ 12"						
BAR G IN 2 SLABS	84 - 401	84 - 401	84 - 401	84 - 401	84 - 401						
BAR H IN 4 WALLS	26 - 402	26 - 402	26 - 402	26 - 402	26 - 402						
BAR J IN EXT. CORNER	0	0	0	0	3-421B @ 10"						
BAR J IN INT. CORNER	0	0	3-418B @ 8 1/2"	4-420B @ 9 1/2"	4-423B @ 10"						
T ₁	12"	13"	14"	15"	16"						
T ₂	13"	14"	15"	16"	17"						
T ₃	12"	13"	14"	15"	16"						
X	28'-0"	28'-2"	28'-4"	28'-6"	28'-8"						
Y	7'-1"	7'-3"	7'-5"	7'-7"	7'-9"						
YD ³ CLASS AA CONCRETE/FT	2.929	3.147	3.366	3.588	3.812						
LB BAR REINF STEEL/FT	267.4	329.7	402.7	477.9	556.2						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL											
YD ³ CLASS AA CONCRETE	11.6	11.8	11.9	12.1	12.3						
LB BAR REINF STEEL	1591	1589	1587	1585	1584						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL											
YD ³ CLASS AA CONCRETE	12.0	12.2	12.4	12.6	12.8						
LB BAR REINF STEEL	1986	1986	1986	1987	1987						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL											
YD ³ CLASS AA CONCRETE	13.4	13.6	13.8	14.0	14.3						
LB BAR REINF STEEL	2106	2107	2108	2109	2110						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL											
YD ³ CLASS AA CONCRETE	16.5	16.7	17.0	17.3	17.5						
LB BAR REINF STEEL	2388	2390	2393	2395	2398						

TRIPLE 8'-0" X 6'-0" BOX CULVERT											
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS											
DESIGN	1	2	3	4	5	6	7	8			
BAR A	530A @ 12"	451A @ 6"	452A @ 6"	533A @ 6"	541A @ 6"						
BAR B	485 @ 6"	583 @ 6"	635 @ 6"	634 @ 6"	722 @ 6"						
BAR C	442 @ 6"	706 @ 12"	533 @ 6"	605 @ 6"	606 @ 6"						
BAR D	531 @ 12"	442 @ 6"	442 @ 6"	442 @ 6"	531 @ 6"						
BAR E	426 @ 12"	427 @ 12"	428 @ 12"	429 @ 12"	430 @ 12"						
BAR F	426 @ 12"	427 @ 12"	428 @ 12"	429 @ 12"	430 @ 12"						
BAR G IN 2 SLABS	84 - 401	84 - 401	84 - 401	84 - 401	84 - 401						
BAR H IN 4 WALLS	34 - 402	34 - 402	34 - 402	34 - 402	34 - 402						
BAR J IN EXT. CORNER	0	0	0	0	3-421B @ 10"						
BAR J IN INT. CORNER	0	0	3-418B @ 8 1/2"	4-420B @ 9 1/2"	4-423B @ 10"						
T ₁	12"	13"	14"	15"	16"						
T ₂	13"	14"	15"	16"	17"						
T ₃	12"	13"	14"	15"	16"						
X	28'-0"	28'-2"	28'-4"	28'-6"	28'-8"						
Y	8'-1"	8'-3"	8'-5"	8'-7"	8'-9"						
YD ³ CLASS AA CONCRETE/FT	3.077	3.301	3.527	3.755	3.985						
LB BAR REINF STEEL/FT	270.7	343.9	416.8	495.3	573.9						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL											
YD ³ CLASS AA CONCRETE	11.9	12.1	12.3	12.4	12.6						
LB BAR REINF STEEL	1643	1641	1639	1637	1635						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL											
YD ³ CLASS AA CONCRETE	12.3	12.5	12.7	12.9	13.1						
LB BAR REINF STEEL	2039	2040	2040	2040	2041						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL											
YD ³ CLASS AA CONCRETE	13.8	14.0	14.2	14.4	14.7						
LB BAR REINF STEEL	2161	2162	2163	2164	2165						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL											
YD ³ CLASS AA CONCRETE	16.9	17.2	17.5	17.7	18.0						
LB BAR REINF STEEL	2446	2448	2451	2453	2456						

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA								
		REVISION	STANDARD REINFORCED CONCRETE TRIPLE BOX CULVERT 8'X4', 8'X5' AND 8'X6'								
			NO SCALE SEPTEMBER 2017								
	BY	DES. YSK_ (SUBMITTED) DRW. EGS_ TRA. _____ (APPROVED) CHK. JWB_	STATE DESIGN POLICY ENGINEER Margaret B. Pivelo CHIEF ENGINEER								NUMBER 2403 SHEET 2-H OF 3