

								STATE	PROJECT NUMBER		SHEET NO.	TOTAL SHEETS
								GA.				
TRIPLE 8'-0" X 7'-0" BOX CULVERT												
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS												
DESIGN	1	2	3	4	5	6	7	8				
BAR A	549A @ 12"	462A @ 6"	464A @ 6"	548A @ 6"	552A @ 6"							
BAR B	484 @ 6"	582 @ 6"	633 @ 6"	631 @ 6"	721 @ 6"							
BAR C	705 @ 12"	532 @ 6"	533 @ 6"	605 @ 6"	606 @ 6"							
BAR D	531 @ 12"	442 @ 6"	442 @ 6"	705 @ 12"	531 @ 6"							
BAR E	433 @ 12"	435 @ 12"	437 @ 12"	439 @ 12"	440 @ 12"							
BAR F	433 @ 12"	435 @ 12"	437 @ 12"	439 @ 12"	440 @ 12"							
BAR G IN 2 SLABS	84 - 401	84 - 401	84 - 401	84 - 401	84 - 401							
BAR H IN 4 WALLS	40 - 402	40 - 402	40 - 402	40 - 402	40 - 402							
BAR J IN EXT. CORNER	0	0	0	3-419B @ 9½"	3-421B @ 10"							
BAR J IN INT. CORNER	0	0	3-418B @ 8½"	4-420B @ 9½"	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	9'-1"	9'-3"	9'-5"	9'-7"	9'-9"							
YD³CLASS AA CONCRETE/FT	3.225	3.455	3.687	3.921	4.157							
LB BAR REINF STEEL/FT	311.1	359.0	429.1	542.0	589.6							
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL												
YD³CLASS AA CONCRETE	12.3	12.5	12.7	12.9	13.1							
LB BAR REINF STEEL	1673	1671	1669	1667	1665							
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL												
YD³CLASS AA CONCRETE	12.7	12.9	13.2	13.4	13.6							
LB BAR REINF STEEL	2071	2071	2072	2072	2072							
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL												
YD³CLASS AA CONCRETE	14.2	14.4	14.7	14.9	15.2							
LB BAR REINF STEEL	2193	2194	2195	2196	2197							
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL												
YD³CLASS AA CONCRETE	17.5	17.7	18.0	18.3	18.6							
LB BAR REINF STEEL	2480	2483	2485	2488	2490							

TRIPLE 8'-0" X 9'-0" BOX CULVERT											
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS											
DESIGN	1	2	3	4	5	6	7	8			
BAR A	585A @ 12"	474A @ 6"	573A @ 6"	575A @ 6"	607A @ 6"						
BAR B	482 @ 6"	580 @ 6"	629 @ 6"	628 @ 6"	719 @ 6"						
BAR C	705 @ 12"	532 @ 6"	533 @ 6"	605 @ 6"	606 @ 6"						
BAR D	442 @ 6"	442 @ 6"	442 @ 6"	705 @ 12"	531 @ 6"						
BAR E	539 @ 12"	541 @ 12"	543 @ 12"	452 @ 6"	453 @ 6"						
BAR F	449 @ 12"	450 @ 12"	451 @ 12"	452 @ 12"	453 @ 12"						
BAR G IN 2 SLABS	84 - 401	84 - 401	84 - 401	84 - 401	84 - 401						
BAR H IN 4 WALLS	50 - 402	50 - 402	50 - 402	50 - 402	50 - 402						
BAR J IN EXT. CORNER	0	0	0	3-419B @ 9½"	3-422B @ 10"						
BAR J IN INT. CORNER	0	0	3-418B @ 8½"	4-420B @ 9½"	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	11'-1"	11'-3"	11'-5"	11'-7"	11'-9"						
YD³CLASS AA CONCRETE/FT	3.522	3.764	4.008	4.255	4.503						
LB BAR REINF STEEL/FT	354.0	391.0	497.9	585.8	679.9						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL											
YD³CLASS AA CONCRETE	13.1	13.3	13.6	13.8	14.0						
LB BAR REINF STEEL	1755	1753	1752	1750	1748						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL											
YD³CLASS AA CONCRETE	13.6	13.8	14.1	14.3	14.6						
LB BAR REINF STEEL	2156	2157	2157	2157	2158						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL											
YD³CLASS AA CONCRETE	15.2	15.4	15.7	16.0	16.3						
LB BAR REINF STEEL	2280	2281	2282	2283	2284						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL											
YD³CLASS AA CONCRETE	18.7	19.0	19.3	19.6	20.0						
LB BAR REINF STEEL	2571	2573	2576	2578	2581						

TRIPLE 8'-0" X 8'-0" BOX CULVERT											
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS											
DESIGN	1	2	3	4	5	6	7	8			
BAR A	568A @ 12"	470A @ 6"	706A @ 12"	566A @ 6"	567A @ 6"						
BAR B	483 @ 6"	581 @ 6"	630 @ 6"	630 @ 6"	720 @ 6"						
BAR C	705 @ 12"	532 @ 6"	533 @ 6"	605 @ 6"	606 @ 6"						
BAR D	442 @ 6"	442 @ 6"	442 @ 6"	705 @ 12"	531 @ 6"						
BAR E	442 @ 12"	443 @ 12"	534 @ 12"	535 @ 12"	537 @ 12"						
BAR F	442 @ 12"	443 @ 12"	444 @ 12"	445 @ 12"	447 @ 12"						
BAR G IN 2 SLABS	84 - 401	84 - 401	84 - 401	84 - 401	84 - 401						
BAR H IN 4 WALLS	42 - 402	42 - 402	42 - 402	42 - 402	42 - 402						
BAR J IN EXT. CORNER	0	0	0	3-419B @ 9½"	3-421B @ 10"						
BAR J IN INT. CORNER	0	0	3-418B @ 8½"	4-420B @ 9½"	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	10'-1"	10'-3"	10'-5"	10'-7"	10'-9"						
YD³CLASS AA CONCRETE/FT	3.373	3.610	3.848	4.088	4.330						
LB BAR REINF STEEL/FT	326.6	368.9	477.4	562.4	609.0						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL											
YD³CLASS AA CONCRETE	12.7	12.9	13.2	13.4	13.6						
LB BAR REINF STEEL	1701	1699	1698	1696	1694						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL											
YD³CLASS AA CONCRETE	13.2	13.4	13.7	13.9	14.1						
LB BAR REINF STEEL	2100	2101	2101	2101	2102						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL											
YD³CLASS AA CONCRETE	14.7	15.0	15.2	15.5	15.8						
LB BAR REINF STEEL	2223	2224	2225	2226	2227						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL											
YD³CLASS AA CONCRETE	18.1	18.4	18.7	19.0	19.4						
LB BAR REINF STEEL	2511	2513	2516	2518	2520						

TRIPLE 8'-0" X 10'-0" BOX CULVERT											
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS											
DESIGN	1	2	3	4	5	6	7	8			
BAR A	478A @ 6"	711A @ 12"	579A @ 6"	609A @ 6"	610A @ 6"						
BAR B	480 @ 6"	577 @ 6"	628 @ 6"	627 @ 6"	718 @ 6"						
BAR C	705 @ 12"	532 @ 6"	533 @ 6"	605 @ 6"	606 @ 6"						
BAR D	442 @ 6"	442 @ 6"	442 @ 6"	705 @ 12"	531 @ 6"						
BAR E	550 @ 12"	551 @ 12"	457 @ 6"	611 @ 12"	713 @ 12"						
BAR F	455 @ 12"	456 @ 12"	457 @ 12"	459 @ 12"	460 @ 12"						
BAR G IN 2 SLABS	84 - 401	84 - 401	84 - 401	84 - 401	84 - 401						
BAR H IN 4 WALLS	56 - 402	56 - 402	56 - 402	56 - 402	56 - 402						
BAR J IN EXT. CORNER	0	0	2-417B @ 8½"	3-420B @ 9½"	3-422B @ 10"						
BAR J IN INT. CORNER	0	0	3-418B @ 8½"	4-420B @ 9½"	4-423B @ 9¾"						
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	12'-1"	12'-3"	12'-5"	12'-7"	12'-9"						
YD³CLASS AA CONCRETE/FT	3.670	3.918	4.169	4.421	4.676						
LB BAR REINF STEEL/FT	373.2	442.4	531.4	659.5	716.9						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL											
YD³CLASS AA CONCRETE	13.4	13.6	13.9	14.1	14.4						
LB BAR REINF STEEL	1783	1781	1779	1777	1776						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL											
YD³CLASS AA CONCRETE	13.9	14.2	14.4	14.7	14.9						
LB BAR REINF STEEL	2186	2186	2186	2187	2187						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL											
YD³CLASS AA CONCRETE	15.5	15.8	16.1	16.4	16.7						
LB BAR REINF STEEL	2311	2312	2313	2314	2315						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL											
YD³CLASS AA CONCRETE	19.1	19.4	19.8	20.1	20.5						
LB BAR REINF STEEL	2603	2606	2608	2610	2613						

		DATE	DEPARTMENT OF TRANSPORTATION								
			STATE OF GEORGIA								
		REVISION	STANDARD								
			REINFORCED CONCRETE								
			TRIPLE BOX CULVERT								
			8'X7', 8'X8', 8'X9' AND 8'X10'								
			NO SCALE								
			SEPTEMBER 2017								
		BY	DES. YSK DRW. FGS TRA. JWB CHK. JWB		(SUBMITTED) <i>B. A. H.</i> STATE DESIGN POLICY ENGINEER (APPROVED) <i>Margaret B. Puelo</i> CHIEF ENGINEER				NUMBER 2403 SHEET 2-1 OF		