

								STATE GA.	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
DOUBLE 10'-0" X 9'-0" BOX CULVERT											
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS											
DESIGN	1	2	3	4	5	6	7	8			
BAR A	480A @ 6"	479A @ 6"	715A @ 12"	573A @ 6"	576A @ 6"						
BAR B	558 @ 6"	632 @ 6"	723 @ 6"	728 @ 6"	807 @ 6"						
BAR C	743 @ 12"	571 @ 6"	644 @ 6"	645 @ 6"	646 @ 6"						
BAR E	457 @ 12"	459 @ 12"	461 @ 12"	553 @ 12"	555 @ 12"						
BAR F	457 @ 12"	459 @ 12"	461 @ 12"	463 @ 12"	465 @ 12"						
BAR G IN 2 SLABS	64 - 401	68 - 401	68 - 401	80 - 401	80 - 401						
BAR H IN 3 WALLS	38 - 402	38 - 402	38 - 402	50 - 402	50 - 402						
BAR J IN EXT. CORNER	0	0	0	0	0						
BAR J IN INT. CORNER	0	3-425B @ 10¼"	3-428B @ 11½"	4-433B @ 13"	4-436B @ 12"						
T ₁	14"	16"	18"	20"	22"						
T ₂	15"	17"	19"	21"	23"						
T ₃	14"	16"	18"	20"	22"						
X	23'-4"	23'-8"	24'-0"	24'-4"	24'-8"						
Y	11'-5"	11'-9"	12'-1"	12'-5"	12'-9"						
YD³ CLASS AA CONCRETE/FT	3.218	3.651	4.093	4.542	5.000						
LB BAR REINF STEEL/FT	317.5	364.0	474.7	518.6	555.9						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	11.0	11.4	11.9	12.4	12.8						
LB BAR REINF STEEL	1441	1477	1475	1674	1672						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	11.4	11.9	12.4	12.8	13.3						
LB BAR REINF STEEL	1778	1818	1820	2027	2029						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	12.7	13.3	13.8	14.3	14.9						
LB BAR REINF STEEL	1881	1923	1926	2136	2140						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	15.7	16.3	16.9	17.6	18.3						
LB BAR REINF STEEL	2128	2172	2178	2395	2402						

DOUBLE 10'-0" X 10'-0" BOX CULVERT											
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS											
DESIGN	1	2	3	4	5	6	7	8			
BAR A	575A @ 12"	484A @ 6"	578A @ 6"	580A @ 6"	610A @ 6"						
BAR B	555 @ 6"	631 @ 6"	727 @ 6"	724 @ 6"	806 @ 6"						
BAR C	743 @ 12"	571 @ 6"	644 @ 6"	645 @ 6"	646 @ 6"						
BAR E	463 @ 12"	555 @ 12"	557 @ 12"	468 @ 6"	469 @ 6"						
BAR F	463 @ 12"	465 @ 12"	467 @ 12"	468 @ 12"	469 @ 12"						
BAR G IN 2 SLABS	64 - 401	68 - 401	68 - 401	80 - 401	80 - 401						
BAR H IN 3 WALLS	42 - 402	42 - 402	42 - 402	50 - 402	50 - 402						
BAR J IN EXT. CORNER	0	0	0	0	3-434B @ 14½"						
BAR J IN INT. CORNER	0	3-425B @ 10¼"	3-431B @ 11½"	4-433B @ 13"	4-436B @ 11¾"						
T ₁	14"	16"	18"	20"	22"						
T ₂	15"	17"	19"	21"	23"						
T ₃	14"	16"	18"	20"	22"						
X	23'-4"	23'-8"	24'-0"	24'-4"	24'-8"						
Y	12'-5"	12'-9"	13'-1"	13'-5"	13'-9"						
YD³ CLASS AA CONCRETE/FT	3.342	3.787	4.241	4.703	5.173						
LB BAR REINF STEEL/FT	308.1	382.8	502.2	536.0	652.2						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	11.2	11.7	12.2	12.7	13.2						
LB BAR REINF STEEL	1467	1503	1501	1674	1672						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	11.7	12.2	12.7	13.2	13.7						
LB BAR REINF STEEL	1805	1845	1847	2027	2029						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	13.0	13.6	14.1	14.7	15.3						
LB BAR REINF STEEL	1909	1950	1954	2136	2140						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	16.0	16.7	17.4	18.0	18.8						
LB BAR REINF STEEL	2157	2201	2207	2395	2402						

DOUBLE 10'-0" X 12'-0" BOX CULVERT											
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS											
DESIGN	1	2	3	4	5	6	7	8			
BAR A	485A @ 6"	717A @ 12"	584A @ 6"	612A @ 6"	613A @ 6"						
BAR B	547 @ 6"	619 @ 6"	719 @ 6"	719 @ 6"	802 @ 6"						
BAR C	743 @ 12"	571 @ 6"	644 @ 6"	645 @ 6"	646 @ 6"						
BAR E	561 @ 12"	473 @ 6"	474 @ 6"	736 @ 12"	737 @ 12"						
BAR F	471 @ 12"	473 @ 12"	474 @ 12"	475 @ 12"	476 @ 12"						
BAR G IN 2 SLABS	64 - 401	68 - 401	68 - 401	80 - 401	80 - 401						
BAR H IN 3 WALLS	50 - 402	50 - 402	50 - 402	66 - 402	66 - 402						
BAR J IN EXT. CORNER	0	0	0	0	3-434B @ 14½"						
BAR J IN INT. CORNER	0	3-425B @ 10¼"	3-431B @ 11½"	4-433B @ 13"	5-436B @ 11½"						
T ₁	14"	16"	18"	20"	22"						
T ₂	15"	17"	19"	21"	23"						
T ₃	14"	16"	18"	20"	22"						
X	23'-4"	23'-8"	24'-0"	24'-4"	24'-8"						
Y	14'-5"	14'-9"	15'-1"	15'-5"	15'-9"						
YD³ CLASS AA CONCRETE/FT	3.588	4.059	4.537	5.024	5.519						
LB BAR REINF STEEL/FT	353.0	455.1	535.0	653.6	719.4						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	11.8	12.3	12.9	13.4	13.9						
LB BAR REINF STEEL	1543	1579	1577	1802	1800						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	12.3	12.8	13.3	13.9	14.5						
LB BAR REINF STEEL	1883	1923	1925	2159	2162						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	13.7	14.3	14.9	15.5	16.1						
LB BAR REINF STEEL	1988	2029	2033	2271	2275						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	16.8	17.6	18.3	19.1	19.8						
LB BAR REINF STEEL	2239	2283	2289	2536	2542						

			DATE	DEPARTMENT OF TRANSPORTATION			
			STATE OF GEORGIA				
			REVISION	STANDARD			
				REINFORCED CONCRETE DOUBLE BOX CULVERT 10'X9', 10'X10', 10'X11' AND 10'X12'			
				NO SCALE		SEPTEMBER 2017	
		BY	DES. YSK DRAW. FGS CHK. JWB.	(SUBMITTED) <i>B. A. [Signature]</i> STATE DESIGN POLICY ENGINEER		NUMBER	
				(APPROVED) <i>Margaret B. Puleo</i> CHIEF ENGINEER		2402	
				SHEET 2-N OF			