

								STATE	PROJECT NUMBER		SHEET NO.	TOTAL SHEETS
DOUBLE 10'-0" X 5'-0" BOX CULVERT								GA.				
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS												
DESIGN	1	2	3	4	5	6	7	8				
BAR A	449A @ 6"	450A @ 6"	706A @ 12"	534A @ 6"	540A @ 6"							
BAR B	562 @ 6"	635 @ 6"	730 @ 6"	732 @ 6"	811 @ 6"							
BAR C	743 @ 12"	571 @ 6"	572 @ 6"	645 @ 6"	646 @ 6"							
BAR E	428 @ 12"	431 @ 12"	434 @ 12"	437 @ 12"	440 @ 12"							
BAR F	519 @ 12"	431 @ 12"	434 @ 12"	437 @ 12"	440 @ 12"							
BAR G IN 2 SLABS	64 - 401	68 - 401	68 - 401	80 - 401	80 - 401							
BAR H IN 3 WALLS	20 - 402	20 - 402	20 - 402	24 - 402	24 - 402							
BAR J IN EXT. CORNER	0	0	0	0	0							
BAR J IN INT. CORNER	0	0	3-431B @ 11½"	4-433B @ 13"	4-436B @ 13¼"							
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	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"							
YD³ CLASS AA CONCRETE/FT	2.724	3.108	3.500	3.900	4.309							
LB BAR REINF STEEL/FT	278.2	305.3	380.6	451.5	491.8							
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL												
YD³ CLASS AA CONCRETE	9.7	10.1	10.4	10.8	11.1							
LB BAR REINF STEEL	1285	1320	1318	1464	1462							
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL												
YD³ CLASS AA CONCRETE	10.1	10.5	10.8	11.2	11.6							
LB BAR REINF STEEL	1616	1656	1658	1810	1812							
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL												
YD³ CLASS AA CONCRETE	11.3	11.7	12.1	12.5	12.9							
LB BAR REINF STEEL	1717	1758	1761	1915	1919							
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL												
YD³ CLASS AA CONCRETE	13.9	14.3	14.8	15.4	15.9							
LB BAR REINF STEEL	1957	2001	2007	2165	2172							

DOUBLE 10'-0" X 6'-0" BOX CULVERT											
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS											
DESIGN	1	2	3	4	5	6	7	8			
BAR A	460A @ 6"	461A @ 6"	708A @ 12"	546A @ 6"	556A @ 6"						
BAR B	562 @ 6"	635 @ 6"	730 @ 6"	732 @ 6"	810 @ 6"						
BAR C	743 @ 12"	571 @ 6"	572 @ 6"	645 @ 6"	646 @ 6"						
BAR E	437 @ 12"	440 @ 12"	442 @ 12"	444 @ 12"	447 @ 12"						
BAR F	437 @ 12"	440 @ 12"	442 @ 12"	444 @ 12"	447 @ 12"						
BAR G IN 2 SLABS	64 - 401	68 - 401	68 - 401	80 - 401	80 - 401						
BAR H IN 3 WALLS	26 - 402	26 - 402	26 - 402	34 - 402	34 - 402						
BAR J IN EXT. CORNER	0	0	0	0	0						
BAR J IN INT. CORNER	0	0	3-431B @ 11½"	4-433B @ 13"	4-436B @ 12¾"						
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	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"						
YD³ CLASS AA CONCRETE/FT	2.848	3.244	3.648	4.061	4.481						
LB BAR REINF STEEL/FT	284.9	317.3	395.5	469.2	508.4						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	10.0	10.3	10.7	11.1	11.5						
LB BAR REINF STEEL	1335	1370	1368	1540	1538						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	10.4	10.7	11.1	11.5	11.9						
LB BAR REINF STEEL	1668	1707	1710	1888	1891						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	11.6	12.0	12.4	12.9	13.3						
LB BAR REINF STEEL	1769	1810	1814	1995	1999						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	14.2	14.7	15.3	15.8	16.4						
LB BAR REINF STEEL	2012	2055	2062	2249	2255						

DOUBLE 10'-0" X 7'-0" BOX CULVERT											
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS											
DESIGN	1	2	3	4	5	6	7	8			
BAR A	543A @ 12"	471A @ 6"	709A @ 12"	561A @ 6"	565A @ 6"						
BAR B	560 @ 6"	634 @ 6"	729 @ 6"	730 @ 6"	809 @ 6"						
BAR C	743 @ 12"	571 @ 6"	572 @ 6"	645 @ 6"	646 @ 6"						
BAR E	444 @ 12"	447 @ 12"	449 @ 12"	451 @ 12"	453 @ 12"						
BAR F	444 @ 12"	447 @ 12"	449 @ 12"	451 @ 12"	453 @ 12"						
BAR G IN 2 SLABS	64 - 401	68 - 401	68 - 401	80 - 401	80 - 401						
BAR H IN 3 WALLS	30 - 402	30 - 402	30 - 402	34 - 402	34 - 402						
BAR J IN EXT. CORNER	0	0	0	0	0						
BAR J IN INT. CORNER	0	3-425B @ 10¼"	3-431B @ 11½"	4-433B @ 13"	4-436B @ 12½"						
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	9'-5"	9'-9"	10'-1"	10'-5"	10'-9"						
YD³ CLASS AA CONCRETE/FT	2.971	3.380	3.796	4.221	4.654						
LB BAR REINF STEEL/FT	281.3	344.8	408.3	478.9	518.3						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	10.3	10.7	11.1	11.5	11.9						
LB BAR REINF STEEL	1362	1397	1395	1542	1540						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	10.7	11.1	11.5	11.9	12.4						
LB BAR REINF STEEL	1696	1736	1738	1890	1893						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	11.9	12.4	12.8	13.3	13.8						
LB BAR REINF STEEL	1799	1840	1843	1997	2001						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	14.7	15.2	15.8	16.4	17.0						
LB BAR REINF STEEL	2042	2086	2093	2251	2257						

DOUBLE 10'-0" X 8'-0" BOX CULVERT											
BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS											
DESIGN	1	2	3	4	5	6	7	8			
BAR A	559A @ 12"	475A @ 6"	712A @ 12"	567A @ 6"	570A @ 6"						
BAR B	559 @ 6"	633 @ 6"	727 @ 6"	729 @ 6"	808 @ 6"						
BAR C	743 @ 12"	571 @ 6"	644 @ 6"	645 @ 6"	646 @ 6"						
BAR E	451 @ 12"	453 @ 12"	455 @ 12"	457 @ 12"	459 @ 12"						
BAR F	451 @ 12"	453 @ 12"	455 @ 12"	457 @ 12"	459 @ 12"						
BAR G IN 2 SLABS	64 - 401	68 - 401	68 - 401	80 - 401	80 - 401						
BAR H IN 3 WALLS	32 - 402	32 - 402	32 - 402	44 - 402	44 - 402						
BAR J IN EXT. CORNER	0	0	0	0	0						
BAR J IN INT. CORNER	0	3-425B @ 10¼"	3-431B @ 11½"	4-433B @ 13"	4-436B @ 12¼"						
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	10'-5"	10'-9"	11'-1"	11'-5"	11'-9"						
YD³ CLASS AA CONCRETE/FT	3.095	3.515	3.944	4.382	4.827						
LB BAR REINF STEEL/FT	288.8	353.6	461.9	495.9	533.8						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	10.7	11.1	11.5	12.0	12.4						
LB BAR REINF STEEL	1390	1425	1423	1622	1620						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	11.1	11.5	12.0	12.4	12.9						
LB BAR REINF STEEL	1725	1764	1767	1973	1976						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	12.4	12.9	13.4	13.9	14.4						
LB BAR REINF STEEL	1827	1868	1872	2082	2086						
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL											
YD³ CLASS AA CONCRETE	15.2	15.8	16.4	17.0	17.7						
LB BAR REINF STEEL	2071	2115	2122	2339	2345						

				DATE		DEPARTMENT OF TRANSPORTATION	
						STATE OF GEORGIA	
						STANDARD	
						REINFORCED CONCRETE	
						DOUBLE BOX CULVERT	
						10'X5', 10'X6', 10'X7' AND 10'X8'	
						NO SCALE	
						SEPTEMBER 2017	