STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

TRIPLE 6'-0" X 5'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	429A @ 6"	424A @ 6"	425A @ 6"	433A @ 6"	512A @ 6"			
BAR B	469 @ 6"	569 @ 6"	570 @ 6"	567 @ 6"	618 @ 6"			
BAR C	701 @ 12"	424 @ 6"	515 @ 6"	516 @ 6"	601 @ 6"			
BAR D	426 @ 6"	426 @ 6"	426 @ 6"	426 @ 6"	702 @ 12"			
BAR E	414 @ 12"	415 @ 12"	416 @ 12"	418 @ 12"	419 @ 12"			
BAR F	507 @ 12"	415 @ 12"	416 @ 12"	418 @ 12"	419 @ 12"			
BAR G IN 2 SLABS	66 - 401	66 - 401	66 - 401	66 - 401	72 - 401			
BAR H IN 4 WALLS	26 - 402	26 - 402	26 - 402	26 - 402	26 - 402			
BAR J IN EXT. CORNER	0	0	0	3-409B @ 6½"	3-413B @ 7"			
BAR J IN INT. CORNER	0	3-404B @ 5"	4-407B @ 5¾"	4-410B @ 6½"	4-414B @ 7"			
T_1	8"	9"	10"	11"	12"			
T_2	9"	10"	11"	12"	13"			
T_3	8"	9"	10"	11"	12"			
X	21'-4"	21'-6"	21'-8"	21'-10"	22'-0"			
Y	6'-5"	6'-7"	6'-9"	6'-11"	7'-1"			
YD^3 CLASS AA CONCRETE/FT	1.764	1.937	2.111	2.288	2.466			
LB BAR REINF STEEL/FT	248.6	268.5	303.9	321.6	417.7			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	8.8	8.9	9.1	9.2	9.4			
LB BAR REINF STEEL	1292	1292	1291	1291	1347			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	9.1	9.3	9.4	9.6	9.8			
LB BAR REINF STEEL	1599	1601	1603	1604	1663			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	10.2	10.4	10.5	10.7	10.9			
LB BAR REINF STEEL	1693	1695	1698	1700	1759			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	12.5	12.7	13.0	13.2	13.4			
LB BAR REINF STEEL	1918	1922	1926	1929	1990			

TRIPLE 6'-0" X 7'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	463A @ 6"	453A @ 6"	536A @ 6"	539A @ 6"	544A @ 6"			
BAR B	475 @ 6"	563 @ 6"	562 @ 6"	561@ 6"	615 @ 6"			
BAR C	514 @ 6"	424 @ 6"	515 @ 6"	516 @ 6"	601 @ 6"			
BAR D	426 @ 6"	426 @ 6"	426 @ 6"	426 @ 6"	517 @ 6"			
BAR E	428 @ 12"	519 @ 12"	520 @ 12"	522 @ 12"	524 @ 12			
BAR F	518 @ 12"	429 @ 12"	430 @ 12"	431 @ 12"	433 @ 12"			
BAR G IN 2 SLABS	66 - 401	66 - 401	66 - 401	66 - 401	72 - 401			
BAR H IN 4 WALLS	40 - 402	40 - 402	40 - 402	40 - 402	40 - 402			
BAR J IN EXT. CORNER	0	0	3-407B @ 5¾"	3-410B @ 6½"	3-413B @ 7"			
BAR J IN INT. CORNER	2-401B @ 4½"	3-404B @ 5"	4-407B @ 5¾"	4-410B @ 6½"	4-414B @ 7"			
T_1	8"	9"	10"	11"	12"			
T_2	9"	10"	11"	12"	13"			
T_3	8"	9"	10"	11"	12"			
X	21'-4"	21'-6"	21'-8"	21'-10"	22'-0"			
Y	8'-5"	8'-7"	8'-9"	8'-11"	9'-1"			
YD^3 CLASS AA CONCRETE/FT	2.011	2.196	2.383	2.572	2.762			
LB BAR REINF STEEL/FT	306.1	301.1	378.4	383.3	457.1			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	9.3	9.5	9.7	9.9	10.1			
LB BAR REINF STEEL	1374	1373	1373	1372	1428			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	9.7	9.9	10.1	10.3	10.5			
LB BAR REINF STEEL	1684	1686	1687	1689	1748			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	10.8	11.0	11.2	11.5	11.7			
LB BAR REINF STEEL	1780	1782	1785	1787	1846			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	13.3	13.6	13.8	14.1	14.4			
LB BAR REINF STEEL	2010	2014	2018	2021	2082			

TRIPLE 6'-0" X 6'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	447A @ 6"	439A @ 6"	443A @ 6"	702A @ 12"	526A @ 6"			
BAR B	472 @ 6"	566 @ 6"	564 @ 6"	560 @ 6"	616 @ 6"			
BAR C	701 @ 12"	424 @ 6"	515 @ 6"	516 @ 6"	601@ 6"			
BAR D	426 @ 6"	426 @ 6"	426 @ 6"	426 @ 6"	517 @ 6"			
BAR E	421@ 12"	422 @ 12"	423 @ 12"	515 @ 12"	517 @ 12"			
BAR F	512 @ 12"	422 @ 12"	423 @ 12"	425 @ 12"	426 @ 12"			
BAR G IN 2 SLABS	66 - 401	66 - 401	66 - 401	66 - 401	72 - 401			
BAR H IN 4 WALLS	34 - 402	34 - 402	34 - 402	34 - 402	34 - 402			
BAR J IN EXT. CORNER	0	0	2-406B @ 5¾"	3-412B @ 6½"	3-413B @ 7"			
BAR J IN INT. CORNER	0	3-404B @ 5"	4-407B @ 5¾"	4-410B @ 6½"	4-414B @ 7"			
T_1	8"	9"	10"	11"	12"			
T_2	9"	10"	11"	12"	13"			
T_3	8"	9"	10"	11"	12"			
X	21'-4"	21'-6"	21'-8"	21'-10"	22'-0"			
Y	7'-5"	7'-7"	7'-9"	7'-11"	8'-1"			
YD^3 CLASS AA CONCRETE/FT	1.888	2.066	2.247	2.430	2.614			
LB BAR REINF STEEL/FT	268.4	282.7	326.8	364.9	441.2			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	9.0	9.2	9.4	9.5	9.7			
LB BAR REINF STEEL	1344	1344	1343	1343	1399			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	9.4	9.5	9.7	9.9	10.1			
LB BAR REINF STEEL	1653	1655	1656	1658	1716			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	10.5	10.7	10.8	11.0	11.3			
LB BAR REINF STEEL	1748	1750	1753	1755	1814			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	12.9	13.1	13.3	13.6	13.8			
LB BAR REINF STEEL	1976	1980	1983	1987	2048			

TRIPLE 6'-0" X 8'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	466A @ 6"	468A @ 6"	555A @ 6"	558A @ 6"	561A @ 6"			
BAR B	477 @ 6"	557 @ 6"	558 @ 6"	558 @ 6"	614 @ 6"			
BAR C	514 @ 6"	424 @ 6"	515 @ 6"	516 @ 6"	601 @ 6"			
BAR D	426 @ 6"	426 @ 6"	426 @ 6"	517 @ 6"	517 @ 6"			
BAR E	527 @ 12"	528 @ 12"	440 @ 6"	441@ 6"	705 @ 12"			
BAR F	527 @ 12"	439 @ 12"	440 @ 12"	441@ 12"	442 @ 12"			
BAR G IN 2 SLABS	66 - 401	66 - 401	66 - 401	66 - 401	72 - 401			
BAR H IN 4 WALLS	42 - 402	42 - 402	42 - 402	42 - 402	42 - 402			
BAR J IN EXT. CORNER	0	0	3-407B @ 5¾"	3-410B @ 6½"	4-413B @ 7"			
BAR J IN INT. CORNER	2-401B @ 4½"	3-404B @ 5"	4-407B @ 5¾"	4-410B @ 6½"	4-414B @ 7"			
T_1	8"	9"	10"	11"	12"			
T_2	9"	10"	11"	12"	13"			
T_3	8"	9"	10"	11"	12"			
X	21'-4"	21'-6"	21'-8"	21'-10"	22'-0"			
Y	9'-5"	9'-7"	9'-9"	9'-11"	10'-1"			
YD^3 CLASS AA CONCRETE/FT	2.135	2.326	2.519	2.713	2.910			
LB BAR REINF STEEL/FT	324.1	311.1	397.9	414.8	494.8			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	9.7	9.9	10.1	10.3	10.5			
LB BAR REINF STEEL	1401	1401	1400	1400	1456			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	10.1	10.3	10.5	10.7	10.9			
LB BAR REINF STEEL	1712	1714	1716	1717	1776			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	11.3	11.5	11.7	11.9	12.2			
LB BAR REINF STEEL	1809	1811	1813	1816	1875			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
YD^3 CLASS AA CONCRETE	13.8	14.1	14.4	14.7	15.0			
LB BAR REINF STEEL	2039	2043	2047	2051	2112			

DATE	REVISION	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

REINFORCED CONCRETE
TRIPLE BOX CULVERT
6'X5', 6'X6', 6'X7' AND 6'X8'

NO SCALE — SEPTEMBER 2017

DES. YSK
DRW. FGS
TRA. ____
CHK. JWB

(SUBMITTED) STATE DESIGN POLICY ENGINEER
(APPROVED) Margaret B Pickelo — CHIEF ENGINEER

NUMBER 2403
SHEET 2-E OF 3