STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		621C	839

SINGLE 8'-0" X 4'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 419A	1 - 497A	1 - 401B	1 - 403B	1 - 405B			
BAR C	496A @ 12"	498A @ 12"	541 @ 12"	542 @ 12"	407B @ 12"			
BAR D *	1 - 456A	1 - 609	1 - 707	1 - 806	2 - 708			
BAR F	425 @ 12"	499A @ 12"	429 @ 12"	431 @ 12"	467 @ 12"			
BAR J IN 2 SLABS	26 - 405	26 - 405	26 - 405	26 - 405	26 - 405			
BAR K IN 2 WALLS	8 - 406	8 - 406	8 - 406	8 - 406	8 - 406			
BAR L IN EXT. CORNER	0	2-465A @ 13"	3-402B @ 9¼"	5-404B @ 6¼"	6-406B @ 5"			
T_1	12"	13"	14"	15"	16"			
T_2	12"	13"	14"	15"	16"			
X	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
Y	6'-0"	6'-2"	6'-4"	6'-6"	6'-8"			
CY CLASS A CONCRETE/FT	1.046	1.146	1.248	1.352	1.458			
LB BAR REINF STEEL/FT	80.0	107.8	138.1	166.2	192.6			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	4.1	4.2	4.3	4.5	4.6			
LB BAR REINF STEEL	569	572	575	577	580			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	4.2	4.4	4.5	4.6	4.8			
LB BAR REINF STEEL	722	727	731	736	741			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	4.7	4.8	5.0	5.1	5.3			
LB BAR REINF STEEL	768	773	779	784	790			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	5.7	5.9	6.1	6.3	6.5			
LB BAR REINF STEEL	890	896	903	910	917			

SINGLE 8'-0" X 5'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 408B	1 - 409B	1 - 411B	1 - 412B	1 - 413B			
BAR C	496A @ 12"	543 @ 12"	541 @ 12"	542 @ 12"	407B @ 12"			
BAR D *	1 - 456A	1 - 609	1 - 707	1 - 806	2 - 708			
BAR F	434 @ 12"	472A @ 12"	438 @ 12"	440 @ 12"	476 @ 12"			
BAR J IN 2 SLABS	26 - 405	26 - 405	26 - 405	26 - 405	26 - 405			
BAR K IN 2 WALLS	10 - 406	10 - 406	10 - 406	10 - 406	10 - 406			
BAR L IN EXT. CORNER	0	2-410B @ 13"	3-402B @ 9"	5-404B @ 6"	6-406B @ 4¾"			
T_1	12"	13"	14"	15"	16"			
T_2	12"	13"	14"	15"	16"			
X	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
Y	7'-0"	7'-2"	7'-4"	7'-6"	7'-8"			
CY CLASS A CONCRETE/FT	1.120	1.226	1.334	1.444	1.557			
LB BAR REINF STEEL/FT	85.3	124.4	143.4	171.3	197.6			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	4.2	4.4	4.5	4.6	4.8			
LB BAR REINF STEEL	593	596	599	601	604			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	4.4	4.5	4.7	4.8	5.0			
LB BAR REINF STEEL	746	751	756	761	766			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	4.9	5.0	5.2	5.4	5.5			
LB BAR REINF STEEL	793	798	804	809	815			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	5.9	6.1	6.3	6.6	6.8			
LB BAR REINF STEEL	915	922	929	936	943			

* NUMBER OF BARS A OR D SHOWN SHALL BE PLACED AT EQUAL SPACES BETWEEN EACH PAIR OF BARS C AT EACH LOCATION.

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 414B	1 - 415B	1 - 416B	1 - 417B	1 - 418B			
BAR C	544 @ 12"	543 @ 12"	541 @ 12"	542 @ 12"	407B @ 12"			
BAR D *	1 - 456A	1 - 609	1 - 707	1 - 806	2 - 708			
BAR F	479 @ 12"	479A @ 12"	482 @ 12"	485 @ 12"	487 @ 12"			
BAR J IN 2 SLABS	26 - 405	26 - 405	26 - 405	26 - 405	26 - 405			
BAR K IN 2 WALLS	12 - 406	12 - 406	12 - 406	12 - 406	12 - 406			
BAR L IN EXT. CORNER	0	2-410B @ 13"	3-402B @ 8¾"	5-404B @ 6"	6-406B @ 4¾"			
T_1	12"	13"	14"	15"	16"			
T_2	12"	13"	14"	15"	16"			
X	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
Y	8'-0"	8'-2"	8'-4"	8'-6"	8'-8"			
CY CLASS A CONCRETE/FT	1.194	1.307	1.421	1.537	1.655			
LB BAR REINF STEEL/FT	101.6	129.7	148.6	176.7	203.0			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	4.4	4.5	4.7	4.8	5.0			
LB BAR REINF STEEL	617	620	623	625	628			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	4.5	4.7	4.8	5.0	5.2			
LB BAR REINF STEEL	771	776	781	785	790			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	5.0	5.2	5.4	5.6	5.8			
LB BAR REINF STEEL	818	823	829	834	840			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	6.2	6.4	6.6	6.8	7.0			
LB BAR REINF STEEL	941	948	955	961	968			

AS-BUILT

DATE	REVISIONS	BY

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SPECIAL DESIGN
REINFORCED CONCRETE
SINGLE BOX CULVERT

NO SCALE — MARCH 2003

BRIDGE SHEET 2J OF 3

DESIGNED WEI — CHECKED X — REVIEWED JPT/MCD
DRAWN KWK — DESIGN GROUP WEI — APPROVED PVL