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

SINGLE 10'-0" X 9'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 456C	1 - 458C	1 - 459C	1 - 460C	1 - 461C			
BAR C	457C @ 12"	579 @ 12"	580 @ 12"	581 @ 12"	462C @ 12"			
BAR D ✱	1 - 614	1 - 712	1 - 809	1 - 903	2 - 713			
BAR F	443B @ 12"	448B @ 12"	450B @ 12"	455B @ 12"	460B @ 12"			
BAR J IN 2 SLABS	28 - 405	28 - 405	28 - 405	28 - 405	28 - 405			
BAR K IN 2 WALLS	18 - 406	18 - 406	18 - 406	18 - 406	18 - 406			
BAR L IN EXT. CORNER	0	2-464B @ 16"	3-431C @ 9½"	5-447C @ 7"	6-442C @ 6"			
T_1	14"	16"	18"	20"	22"			
T_2	14"	16"	18"	20"	22"			
X	12'-4"	12'-8"	13'-0"	13'-4"	13'-8"			
Y	11'-4"	11'-8"	12'-0"	12'-4"	12'-8"			
CY CLASS A CONCRETE/FT	1.853	2.149	2.454	2.766	3.087			
LB BAR REINF STEEL/FT	137.1	178.7	205.9	246.3	264.2			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	6.1	6.5	6.9	7.3	7.7			
LB BAR REINF STEEL	760	766	771	776	781			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	6.3	6.7	7.1	7.6	8.0			
LB BAR REINF STEEL	946	956	965	975	985			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	7.0	7.5	7.9	8.4	8.9			
LB BAR REINF STEEL	1003	1014	1025	1036	1047			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	8.6	9.1	9.7	10.3	10.9			
LB BAR REINF STEEL	1148	1162	1176	1190	1204			

SINGLE 10'-0" X 10'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 463C	1 - 465C	1 - 466C	1 - 467C	1 - 469C			
BAR C	464C @ 12"	582 @ 12"	583 @ 12"	584 @ 12"	470C @ 12"			
BAR D ✱	1 - 614	1 - 712	1 - 809	1 - 903	2 - 713			
BAR F	455B @ 12"	460B @ 12"	416C @ 12"	486C @ 12"	471C @ 12"			
BAR J IN 2 SLABS	28 - 405	28 - 405	28 - 405	28 - 405	28 - 405			
BAR K IN 2 WALLS	20 - 406	20 - 406	20 - 406	20 - 406	20 - 406			
BAR L IN EXT. CORNER	0	2-464B @ 16"	4-431C @ 9"	5-447C @ 7"	6-442C @ 5¾"			
T_1	14"	16"	18"	20"	22"			
T_2	14"	16"	18"	20"	22"			
X	12'-4"	12'-8"	13'-0"	13'-4"	13'-8"			
Y	12'-4"	12'-8"	13'-0"	13'-4"	13'-8"			
CY CLASS A CONCRETE/FT	1.939	2.248	2.565	2.890	3.223			
LB BAR REINF STEEL/FT	142.6	184.3	219.3	251.7	269.3			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	6.2	6.7	7.1	7.6	8.0			
LB BAR REINF STEEL	784	790	795	800	805			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	6.5	6.9	7.4	7.8	8.3			
LB BAR REINF STEEL	971	980	990	1000	1009			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	7.2	7.7	8.2	8.7	9.2			
LB BAR REINF STEEL	1028	1039	1050	1061	1072			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	8.8	9.4	10.0	10.7	11.3			
LB BAR REINF STEEL	1174	1188	1202	1215	1229			

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

SINGLE 10'-0" X 11'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 472C	1 - 474C	1 - 475C	1 - 477C	1 - 479C			
BAR C	473C @ 12"	585 @ 12"	586 @ 12"	587 @ 12"	480C @ 12"			
BAR D ✱	1 - 614	1 - 712	1 - 809	1 - 903	2 - 713			
BAR F	468C @ 12"	471C @ 12"	476C @ 12"	478C @ 12"	481C @ 12"			
BAR J IN 2 SLABS	28 - 405	28 - 405	28 - 405	28 - 405	28 - 405			
BAR K IN 2 WALLS	22 - 406	22 - 406	22 - 406	22 - 406	22 - 406			
BAR L IN EXT. CORNER	0	2-464B @ 15"	4-431C @ 9"	5-447C @ 6¾"	6-442C @ 5¾"			
T_1	14"	16"	18"	20"	22"			
T_2	14"	16"	18"	20"	22"			
X	12'-4"	12'-8"	13'-0"	13'-4"	13'-8"			
Y	13'-4"	13'-8"	14'-0"	14'-4"	14'-8"			
CY CLASS A CONCRETE/FT	2.026	2.347	2.676	3.013	3.359			
LB BAR REINF STEEL/FT	148.2	189.9	224.6	256.8	274.6			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	6.4	6.9	7.3	7.8	8.3			
LB BAR REINF STEEL	808	814	819	824	829			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	6.6	7.1	7.6	8.1	8.6			
LB BAR REINF STEEL	995	1005	1015	1024	1034			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	7.4	7.9	8.5	9.0	9.6			
LB BAR REINF STEEL	1053	1064	1075	1086	1097			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	9.1	9.7	10.4	11.0	11.7			
LB BAR REINF STEEL	1200	1213	1227	1241	1255			

SINGLE 10'-0" X 12'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 482C	1 - 484C	1 - 485C	1 - 487C	1 - 489C			
BAR C	483C @ 12"	588 @ 12"	589 @ 12"	590 @ 12"	490C @ 12"			
BAR D ✱	1 - 614	1 - 712	1 - 809	1 - 903	2 - 713			
BAR F	478C @ 12"	481C @ 12"	486C @ 12"	488C @ 12"	491C @ 12"			
BAR J IN 2 SLABS	26 - 405	26 - 405	26 - 405	26 - 405	26 - 405			
BAR K IN 2 WALLS	24 - 406	24 - 406	24 - 406	24 - 406	24 - 406			
BAR L IN EXT. CORNER	0	2-464B @ 14½"	4-431C @ 8½"	5-447C @ 6½"	6-442C @ 5½"			
T_1	14"	16"	18"	20"	22"			
T_2	14"	16"	18"	20"	22"			
X	12'-4"	12'-8"	13'-0"	13'-4"	13'-8"			
Y	14'-4"	14'-8"	15'-0"	15'-4"	15'-8"			
CY CLASS A CONCRETE/FT	2.112	2.445	2.787	3.137	3.495			
LB BAR REINF STEEL/FT	152.6	194.3	228.3	260.6	278.3			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	6.6	7.1	7.6	8.1	8.6			
LB BAR REINF STEEL	813	818	823	828	833			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	6.9	7.4	7.9	8.4	8.9			
LB BAR REINF STEEL	1000	1010	1019	1029	1039			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	7.6	8.2	8.8	9.3	9.9			
LB BAR REINF STEEL	1058	1069	1080	1091	1102			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	9.4	10.0	10.7	11.4	12.1			
LB BAR REINF STEEL	1205	1219	1233	1247	1260			

AS-BUILT

REVISIONS	BY	DATE

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SPECIAL DESIGN
REINFORCED CONCRETE
SINGLE BOX CULVERT

NO SCALE — MARCH 2003

BRIDGE SHEET 2Q OF 3

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