STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		611	839

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 461	1 - 462	1 - 463	1 - 464	1 - 465			
BAR C	442 @ 12"	512 @ 12"	513 @ 12"	513 @ 12"	466 @ 12"			
BAR D *	1 - 429	1 - 509	1 - 603	1 - 702	1 - 801			
BAR F	425 @ 12"	429 @ 12"	431 @ 12"	431 @ 12"	467 @ 12"			
BAR J IN 2 SLABS	20 - 405	20 - 405	20 - 405	20 - 405	20 - 405			
BAR K IN 2 WALLS	10 - 406	10 - 406	10 - 406	10 - 406	10 - 406			
BAR L IN EXT. CORNER	2-408 @ 6"	2-414 @ 8"	3-417 @ 6¾"	5-417 @ 4"	6-460 @ 3¾"			
T_1	6"	8"	9"	9"	10"			
T_2	8"	8"	9"	9"	10"			
X	6'-4"	6'-4"	6'-6"	6'-6"	6'-8"			
Y	6'-0"	6'-4"	6'-6"	6'-6"	6'-8"			
CY CLASS A CONCRETE/FT	0.491	0.569	0.648	0.648	0.729			
LB BAR REINF STEEL/FT	72.9	86.9	98.9	114.5	122.6			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	2.6	2.6	2.7	2.7	2.9			
LB BAR REINF STEEL	460	459	461	461	464			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	2.7	2.7	2.8	2.9	3.0			
LB BAR REINF STEEL	565	563	568	568	573			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	3.0	3.0	3.2	3.2	3.3			
LB BAR REINF STEEL	597	595	601	601	606			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	3.6	3.7	3.9	3.9	4.0			
LB BAR REINF STEEL	688	686	693	693	700			

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 468	1 - 470	1 - 472	1 - 474	1 - 476			
BAR C	469 @ 12"	471 @ 12"	473 @ 12"	514 @ 12"	515 @ 12"			
BAR D *	1 - 429	1 - 509	1 - 603	1 - 702	1 - 701			
BAR F	434 @ 12"	438 @ 12"	440 @ 12"	440 @ 12"	476 @ 12"			
BAR J IN 2 SLABS	20 - 405	20 - 405	20 - 405	20 - 405	20 - 405			
BAR K IN 2 WALLS	12 - 406	12 - 406	12 - 406	12 - 406	12 - 406			
BAR L IN EXT. CORNER	2-408 @ 6"	2-412 @ 8"	3-447 @ 6½"	5-417 @ 4"	6-451 @ 3½"			
T_1	6"	8"	9"	9"	10"			
T_2	8"	8"	9"	9"	10"			
X	6'-4"	6'-4"	6'-6"	6'-6"	6'-8"			
Y	7'-0"	7'-4"	7'-6"	7'-6"	7'-8"			
CY CLASS A CONCRETE/FT	0.540	0.618	0.704	0.704	0.791			
LB BAR REINF STEEL/FT	78.4	85.0	96.8	119.8	127.9			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	2.7	2.7	2.9	2.9	3.0			
LB BAR REINF STEEL	484	483	485	485	488			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	2.8	2.8	3.0	3.0	3.1			
LB BAR REINF STEEL	590	588	593	593	598			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	3.1	3.1	3.3	3.3	3.4			
LB BAR REINF STEEL	622	620	626	626	631			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	3.8	3.8	4.0	4.0	4.2			
LB BAR REINF STEEL	714	712	719	719	726			

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

SINGLE 5'-0" X 7'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 477	1 - 480	1 - 483	1 - 483	1 - 486			
BAR C	478 @ 12"	481 @ 12"	484 @ 12"	516 @ 12"	517 @ 12"			
BAR D *	1 - 429	1 - 501	1 - 603	1 - 702	1 - 701			
BAR F	479 @ 12"	482 @ 12"	485 @ 12"	485 @ 12"	487 @ 12"			
BAR J IN 2 SLABS	20 - 405	20 - 405	20 - 405	20 - 405	20 - 405			
BAR K IN 2 WALLS	14 - 406	14 - 406	14 - 406	14 - 406	14 - 406			
BAR L IN EXT. CORNER	3-408 @ 6"	2-412 @ 8"	3-447 @ 6¼"	5-417 @ 4"	6-451 @ 3½"			
T_1	6"	8"	9"	9"	10"			
T_2	8"	8"	9"	9"	10"			
X	6'-4"	6'-4"	6'-6"	6'-6"	6'-8"			
Y	8'-0"	8'-4"	8'-6"	8'-6"	8'-8"			
CY CLASS A CONCRETE/FT	0.590	0.668	0.759	0.759	0.853			
LB BAR REINF STEEL/FT	87.5	90.8	102.5	125.3	133.2			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	2.8	2.8	3.0	3.0	3.1			
LB BAR REINF STEEL	509	507	510	510	513			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	2.9	2.9	3.1	3.1	3.3			
LB BAR REINF STEEL	615	613	618	618	623			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	3.2	3.3	3.4	3.4	3.6			
LB BAR REINF STEEL	648	646	651	651	657			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	3.9	4.0	4.2	4.2	4.4			
LB BAR REINF STEEL	740	738	745	745	752			

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 488	1 - 491	1 - 494	1 - 494	1 - 497			
BAR C	489 @ 12"	492 @ 12"	495 @ 12"	518 @ 12"	520 @ 12"			
BAR D *	1 - 429	1 - 509	1 - 603	1 - 603	1 - 701			
BAR F	490 @ 12"	493 @ 12"	496 @ 12"	519 @ 12"	498 @ 12"			
BAR J IN 2 SLABS	20 - 405	20 - 405	20 - 405	20 - 405	20 - 405			
BAR K IN 2 WALLS	16 - 406	16 - 406	16 - 406	16 - 406	16 - 406			
BAR L IN EXT. CORNER	3-408 @ 6"	3-412 @ 8"	3-447 @ 6"	6-417 @ 3¾"	6-451 @ 3½"			
T_1	6"	8"	9"	9"	10"			
T_2	8"	8"	9"	9"	10"			
X	6'-4"	6'-4"	6'-6"	6'-6"	6'-8"			
Y	9'-0"	9'-4"	9'-6"	9'-6"	9'-8"			
CY CLASS A CONCRETE/FT	0.639	0.717	0.815	0.815	0.915			
LB BAR REINF STEEL/FT	93.3	100.7	108.4	135.7	138.9			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	2.9	3.0	3.1	3.1	3.3			
LB BAR REINF STEEL	534	532	535	535	538			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	3.0	3.1	3.3	3.3	3.4			
LB BAR REINF STEEL	641	639	644	644	648			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	3.4	3.4	3.6	3.6	3.8			
LB BAR REINF STEEL	674	672	677	677	683			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	4.1	4.2	4.4	4.4	4.7			
LB BAR REINF STEEL	767	765	772	772	779			

AS-BUILT

BY	REVISIONS	DATE

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SPECIAL DESIGN
REINFORCED CONCRETE
SINGLE BOX CULVERT

NO SCALE — MARCH 2003

BRIDGE SHEET 2D OF 3

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