STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	STP-209-1(1)	419	513

Metric

SINGLE 1500 X 1500 BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 1348	1 - 1621	1 - 1623	1 - 1625	1 - 1626			
BAR C	1349 @ 330	1622 @ 330	1624 @ 330	1917 @ 330	1918 @ 300			
BAR D *	1 - 1614	1 - 1614	1 - 1916	1 - 1916	1 - 1919			
BAR F	1350 @ 330	1350 @ 330	1313 @ 330	1351 @ 330	1353 @ 300			
BAR J IN 2 SLABS	18 - 1303	18 - 1303	18 - 1303	18 - 1303	18 - 1303			
BAR K IN 2 WALLS	10 - 1304	10 - 1304	10 - 1304	10 - 1304	10 - 1304			
BAR L IN EXT. CORNER	0	0	0	1 - 1352	1 - 1354			
T_1	180	180	230	255	280			
T_2	230	230	230	230	255			
X	1960	1960	1960	1960	2010			
Y	1860	1860	1960	2010	2060			
m³ CLASS A CONCRETE/m	1.418	1.418	1.614	1.712	1.913			
kg BAR REINF STEEL/m	98.8	122.9	133.0	154.4	170.6			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
m³ CLASS A CONCRETE	2.0	2.0	2.0	2.0	2.1			
kg BAR REINF STEEL	199	199	198	197	199			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
m³ CLASS A CONCRETE	2.1	2.1	2.1	2.1	2.2			
kg BAR REINF STEEL	246	246	245	244	247			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
m³ CLASS A CONCRETE	2.3	2.3	2.4	2.4	2.5			
kg BAR REINF STEEL	260	260	259	259	262			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
m³ CLASS A CONCRETE	2.9	2.9	2.9	2.9	3.1			
kg BAR REINF STEEL	302	302	301	300	303			

SINGLE 1500 X 2100 BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 1324B	1 - 1324B	1 - 1328B	1 - 1329B	1 - 1329B			
BAR C	1325B @ 760	1327B @ 380	1638A @ 530	1330B @ 300	1330B @ 300			
BAR D *	2 - 1334A	2 - 1334A	2 - 1639A	1 - 1903A	1 - 2240			
BAR F	1326B @ 380	1326B @ 380	1377 @ 265	1394 @ 300	1394 @ 300			
BAR J IN 2 SLABS	18 - 1303	18 - 1303	18 - 1303	18 - 1303	18 - 1303			
BAR K IN 2 WALLS	14 - 1304	14 - 1304	14 - 1304	14 - 1304	14 - 1304			
BAR L IN EXT. CORNER	0	0	0	3-1303B @ 165	4-1303B @ 115			
T_1	200	200	255	280	280			
T_2	200	200	235	255	255			
X	1900	1900	1970	2010	2010			
Y	2500	2500	2610	2660	2660			
m³ CLASS A CONCRETE/m	1.623	1.623	2.014	2.219	2.219			
kg BAR REINF STEEL/m	73.3	102.3	110.6	153.0	170.3			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
m³ CLASS A CONCRETE	2.1	2.1	2.2	2.3	2.3			
kg BAR REINF STEEL	219	219	220	221	221			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
m³ CLASS A CONCRETE	2.2	2.2	2.3	2.4	2.4			
kg BAR REINF STEEL	265	265	267	269	269			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
m³ CLASS A CONCRETE	2.4	2.4	2.6	2.7	2.7			
kg BAR REINF STEEL	279	279	282	284	284			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
m³ CLASS A CONCRETE	3.0	3.0	3.2	3.4	3.4			
kg BAR REINF STEEL	320	320	324	327	327			

SINGLE 1500 X 1800 BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *	1 - 1678	1 - 1679	1 - 1337A	1 - 1340A	1 - 1680			
BAR C	1333A @ 400	1336A @ 290	1338A @ 230	1341A @ 200	1681 @ 230			
BAR D *	1 - 1334A	1 - 1313	1 - 1313	1 - 1351	1 - 1353			
BAR F	1335A @ 400	1392 @ 290	1311 @ 230	1342A @ 200	1307 @ 230			
BAR J IN 2 SLABS	18 - 1303	18 - 1303	18 - 1303	18 - 1303	18 - 1303			
BAR K IN 2 WALLS	12 - 1304	12 - 1304	12 - 1304	12 - 1304	12 - 1304			
BAR L IN EXT. CORNER	0	0	1 - 1348A	1 - 1349A	1 - 1350A			
T_1	165	200	230	255	280			
T_2	200	230	230	255	280			
X	1900	1960	1960	2010	2060			
Y	2130	2200	2260	2310	2360			
m³ CLASS A CONCRETE/m	1.370	1.635	1.752	1.966	2.184			
kg BAR REINF STEEL/m	96.7	129.4	140.3	159.1	184.1			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
m³ CLASS A CONCRETE	2.0	2.1	2.1	2.2	2.3			
kg BAR REINF STEEL	208	209	209	210	211			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
m³ CLASS A CONCRETE	2.1	2.2	2.2	2.3	2.4			
kg BAR REINF STEEL	254	256	256	258	260			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
m³ CLASS A CONCRETE	2.3	2.4	2.5	2.6	2.7			
kg BAR REINF STEEL	268	271	271	273	276			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
m³ CLASS A CONCRETE	2.8	3.0	3.0	3.2	3.3			
kg BAR REINF STEEL	309	313	312	315	319			

SINGLE 1500 X 2400 BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A *								
BAR C								
BAR D *								
BAR F								
BAR J IN 2 SLABS								
BAR K IN 2 WALLS								
BAR L IN EXT. CORNER								
T_1								
T_2								
X								
Y								
m³ CLASS A CONCRETE/m								
kg BAR REINF STEEL/m								
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
m³ CLASS A CONCRETE								
kg BAR REINF STEEL								
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
m³ CLASS A CONCRETE								
kg BAR REINF STEEL								
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
m³ CLASS A CONCRETE								
kg BAR REINF STEEL								
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
m³ CLASS A CONCRETE								
kg BAR REINF STEEL								

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

DATE	BY	REVISIONS

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SPECIAL DESIGN
REINFORCED CONCRETE
SINGLE BOX CULVERT

NO SCALE — JULY 1996

BRIDGE SHEET 2D OF 3

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

ORIG