STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	EDS00-0545-00(020)	782	831

DOUBLE 9'-0" X 7'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 468B	1 - 470B	1 - 472B	1 - 473B	1 - 474B			
BAR B ✱	1 - 592	1 - 707	1 - 804	1 - 903	2 - 707			
BAR C	469B @ 12"	471B @ 12"	597 @ 12"	598 @ 12"	599 @ 12"			
BAR D ✱	1 - 449B	1 - 593	1 - 612	1 - 708	1 - 805			
BAR F	498 @ 12"	402A @ 12"	404A @ 12"	447A @ 12"	449A @ 12"			
BAR G	498 @ 12"	402A @ 12"	404A @ 12"	447A @ 12"	449A @ 12"			
BAR H	0	0	0	0	0			
BAR J IN 2 SLABS	44 - 406	44 - 406	44 - 406	44 - 406	44 - 406			
BAR K IN 3 WALLS	21 - 407	21 - 407	21 - 407	21 - 407	21 - 407			
BAR L IN EXT. CORNER	0	1 - 452B	2-499A @ 14½"	3-455B @ 8½"	4-457B @ 6½"			
BAR L IN INT. CORNER	0	3-452B @ 12½"	6-499A @ 6"	9-455B @ 4¼"	12-457B @ 3½"			
T_1	14"	15"	16"	17"	18"			
T_2	14"	15"	16"	17"	18"			
X	21'-4"	21'-6"	21'-8"	21'-10"	22'-0"			
Y	9'-4"	9'-6"	9'-8"	9'-10"	10'-0"			
CY CLASS A CONCRETE/FT	2.726	2.917	3.109	3.303	3.500			
LB BAR REINF STEEL/FT	172.0	229.2	309.6	381.6	436.4			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	8.9	9.1	9.3	9.6	9.8			
LB BAR REINF STEEL	1065	1067	1069	1072	1074			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	9.2	9.4	9.7	9.9	10.2			
LB BAR REINF STEEL	1370	1375	1379	1384	1388			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	11.0	11.2	11.4	11.6	11.9			
LB BAR REINF STEEL	1463	1469	1474	1479	1484			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	13.5	13.7	14.0	14.3	14.6			
LB BAR REINF STEEL	1687	1693	1700	1706	1713			

DOUBLE 9'-0" X 9'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 483B	1 - 485B	1 - 488B	1 - 489B	1 - 491B			
BAR B ✱	1 - 592	1 - 707	1 - 804	1 - 903	2 - 707			
BAR C	484B @ 12"	486B @ 12"	504A @ 12"	505A @ 12"	506A @ 12"			
BAR D ✱	1 - 449B	1 - 593	1 - 612	1 - 708	1 - 805			
BAR F	432B @ 12"	487B @ 12"	436B @ 12"	490B @ 12"	439B @ 12"			
BAR G	432B @ 12"	487B @ 12"	436B @ 12"	490B @ 12"	439B @ 12"			
BAR H	0	0	0	0	0			
BAR J IN 2 SLABS	40 - 406	40 - 406	40 - 406	40 - 406	40 - 406			
BAR K IN 3 WALLS	27 - 407	27 - 407	27 - 407	27 - 407	27 - 407			
BAR L IN EXT. CORNER	0	2-452B @ 15"	2-499A @ 12"	4-455B @ 7½"	5-457B @ 5½"			
BAR L IN INT. CORNER	0	3-452B @ 12"	6-499A @ 6"	9-455B @ 4¼"	13-457B @ 3¼"			
T_1	14"	15"	16"	17"	18"			
T_2	14"	15"	16"	17"	18"			
X	21'-4"	21'-6"	21'-8"	21'-10"	22'-0"			
Y	11'-4"	11'-6"	11'-8"	11'-10"	12'-0"			
CY CLASS A CONCRETE/FT	2.973	3.176	3.381	3.587	3.796			
LB BAR REINF STEEL/FT	184.5	247.1	322.1	400.8	461.3			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	9.6	9.8	10.1	10.3	10.6			
LB BAR REINF STEEL	1078	1080	1082	1084	1086			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	9.9	10.2	10.4	10.7	11.0			
LB BAR REINF STEEL	1384	1389	1393	1397	1402			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	11.8	12.0	12.3	12.5	12.8			
LB BAR REINF STEEL	1478	1483	1488	1493	1498			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	14.4	14.8	15.1	15.4	15.7			
LB BAR REINF STEEL	1704	1710	1717	1723	1730			

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DOUBLE 9'-0" X 8'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 475B	1 - 477B	1 - 478B	1 - 480B	1 - 482B			
BAR B ✱	1 - 592	1 - 707	1 - 804	1 - 903	2 - 707			
BAR C	476B @ 12"	478B @ 12"	501A @ 12"	502A @ 12"	503A @ 12"			
BAR D ✱	1 - 449B	1 - 593	1 - 612	1 - 708	1 - 805			
BAR F	404 @ 12"	429 @ 12"	425B @ 12"	401B @ 12"	428B @ 12"			
BAR G	404 @ 12"	429 @ 12"	425B @ 12"	401B @ 12"	428B @ 12"			
BAR H	0	0	0	0	0			
BAR J IN 2 SLABS	40 - 406	40 - 406	40 - 406	40 - 406	40 - 406			
BAR K IN 3 WALLS	24 - 407	24 - 407	24 - 407	24 - 407	24 - 407			
BAR L IN EXT. CORNER	0	1 - 452B	2-499A @ 13½"	3-455B @ 8"	5-457B @ 6¼"			
BAR L IN INT. CORNER	0	3-452B @ 12"	6-499A @ 6"	9-455B @ 4¼"	13-457B @ 3¼"			
T_1	14"	15"	16"	17"	18"			
T_2	14"	15"	16"	17"	18"			
X	21'-4"	21'-6"	21'-8"	21'-10"	22'-0"			
Y	10'-4"	10'-6"	10'-8"	10'-10"	11'-0"			
CY CLASS A CONCRETE/FT	2.850	3.046	3.245	3.445	3.648			
LB BAR REINF STEEL/FT	176.9	234.1	314.5	386.2	454.7			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	9.2	9.5	9.7	10.0	10.2			
LB BAR REINF STEEL	1051	1054	1056	1058	1060			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	9.6	9.8	10.1	10.3	10.6			
LB BAR REINF STEEL	1358	1362	1366	1371	1375			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	11.4	11.6	11.9	12.1	12.4			
LB BAR REINF STEEL	1451	1456	1461	1466	1471			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	14.0	14.3	14.6	14.9	15.2			
LB BAR REINF STEEL	1675	1682	1688	1695	1701			

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

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

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A ✱	1 - 492B	1 - 494B	1 - 496B	1 - 497B	1 - 499B			
BAR B ✱	1 - 592	1 - 707	1 - 804	1 - 903	2 - 707			
BAR C	493B @ 12"	495B @ 12"	507A @ 12"	508A @ 12"	509A @ 12"			
BAR D ✱	1 - 449B	1 - 593	1 - 612	1 - 708	1 - 805			
BAR F	449 @ 12"	444B @ 12"	446B @ 12"	498B @ 12"	401C @ 12"			
BAR G	449 @ 12"	444B @ 12"	446B @ 12"	498B @ 12"	401C @ 12"			
BAR H	0	0	0	0	0			
BAR J IN 2 SLABS	40 - 406	40 - 406	40 - 406	40 - 406	40 - 406			
BAR K IN 3 WALLS	30 - 407	30 - 407	30 - 407	30 - 407	30 - 407			
BAR L IN EXT. CORNER	0	2-452B @ 15"	3-499A @ 11"	4-455B @ 7"	5-457B @ 5½"			
BAR L IN INT. CORNER	0	3-452B @ 11½"	6-499A @ 6"	9-455B @ 4¼"	13-457B @ 3¼"			
T_1	14"	15"	16"	17"	18"			
T_2	14"	15"	16"	17"	18"			
X	21'-4"	21'-6"	21'-8"	21'-10"	22'-0"			
Y	12'-4"	12'-6"	12'-8"	12'-10"	13'-0"			
CY CLASS A CONCRETE/FT	3.097	3.306	3.516	3.729	3.944			
LB BAR REINF STEEL/FT	192.2	254.8	336.0	407.9	468.7			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
CY CLASS A CONCRETE	9.8	10.1	10.3	10.6	10.9			
LB BAR REINF STEEL	1102	1105	1107	1109	1111			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
CY CLASS A CONCRETE	10.2	10.4	10.7	11.0	11.3			
LB BAR REINF STEEL	1410	1415	1419	1423	1428			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
CY CLASS A CONCRETE	12.0	12.3	12.6	12.9	13.1			
LB BAR REINF STEEL	1505	1510	1515	1520	1525			
PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
CY CLASS A CONCRETE	14.8	15.1	15.5	15.8	16.1			
LB BAR REINF STEEL	1731	1737	1744	1750	1757			

BRIDGE SHEET
2M OF 3

BY	REVISIONS	DATE

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SPECIAL DESIGN
REINFORCED CONCRETE
DOUBLE BOX CULVERT

NO SCALE — MARCH 2003

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