## REINFORCED CONCRETE BOX CULVERTS

| STRUCTURE * | STATION | SKEW | SIZE | LENGTH | DESIGN OF BARREL | BARREL | | | APRON | | | WINGWALL & PARAPET | | | FOUNDATION BACKFILL MATL, TP 11 | CHANNEL EXCAVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | GA. STD. | CL. A CONC. | BAR REINF. | GA. STD. | CL. A CONC. | BAR REINF. | GA. STD. | CL. A CONC. | BAR REINF. | | |
| | | | FT X FT | LIN FT | Hx-xx | | CU. YDS. | LBS. | | CU. YDS. | LBS. | | CU. YDS. | LBS. | CU. YDS. | CU. YDS. |
| HYDRAULIC CULVERT | | | | | | | | | | | | | | | | |
| 0-1 TO 0-2 | 180+89 | 90° | 10 X 8 | 173 | DESIGN 1.5' TO 12' | 2324 | 265 | 33839 | 2332 | 7 | 470 | 2535P | 33 | 2228 | SEE FOUNDATION BACKFILL BOX | 0 |

## CONCRETE SPILLWAY-GA. STD. 9017-J

| LOCATION | TYPE 1 | TYPE 2 | | |
|---|---|---|---|---|
| 210+19 RIGHT | 1 | | | |
| TOTALS | 1 | | | |

## CONCRETE FLUMES GA. CONST DETAIL D-9

| LOCATION | LENGTH LF | CONCRETE CLASS B CY | BAR REINF STEEL LBS | SAND CEMENT BAG RIP RAP 6 IN SQ YD | COMMENT (USE) |
|---|---|---|---|---|---|
| 210+19 RIGHT | 45 | 10 | 125 | 3 | BRIDGE END DOWN DRAIN |
| TOTALS | 45 | 10 | 125 | 3 | |

## FOUNDATION BACKFILL MATERIAL TYPE 11 (12" depth), DRAINAGE

| LOCATION | FEATURE | QUANTITY (CY) |
|---|---|---|
| (180+189) 0-1 TO 0-2 | 10 x 8 Box Culvert | 77 |
| G16 to G17 | 60" pipe | 66 |
| G14 to G16 | 48" pipe | 63 |
| G3 to G4 | 48" pipe | 116 |
| G4 to G5 | 48" pipe | 89 |
| G5 to G6 | 48" pipe | 53 |
| G6 to G7 | 48" pipe | 62 |
| G7 to G8 | 48" pipe | 51 |
| G8 to G14 | 48" pipe | 132 |
| sta 25 to 25+90 | 60" pipe | 23 |
| TOTALS | | 731 |

## REMOVE CULVERT, WINGWALLS AND PARAPETS

180+89 RT

NOTE: SEE WATERLINE RELOCATION PLANS DRAWING 60-17 FOR PROPOSED WATERLINE DETAILED ESTIMATE

## REINFORCED CONCRETE BOX CULVERTS & ASSOCIATED ITEMS FOR CART PATH TUNNELS

| STRUCTURE * | STATION | SKEW | SIZE | LENGTH | DESIGN OF BARREL | CLASS A CONCRETE | BAR REINF. STEEL | FOUNDATION BACKFILL MATL, TP 11 | GRADED AGGR BASE COURSE INCL MATL | RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL | STORM DRAIN PIPE, 18 IN, H 1-10 | STORM DRAIN PIPE, 18 IN, H 15-20 | STORM SEWER MANHOLE, TP 1 | STORM SEWER MANHOLE, TP 1, ADDL DEPTH, CL 1 | DRVWY GRATE INLET, SPECIAL DESIGN, PIPE SIZE - 18 IN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | FT X FT | LIN FT | Hx-xx | CU. YDS. | LBS. | CU. YDS. | TON | TON | LIN FT | LIN FT | EACH | LIN FT | EACH |
| | 191+08 | 90° | 10 X 8 | 160 | DESIGN 1.5' TO 12' | 330 | 36500 | 290 | 160 | 3 | 40 | 190 | 2 | 7 | 2 |
| | 233+85 | 90° | 10 X 8 | 135 | DESIGN 1.5' TO 12' | 280 | 31000 | 240 | 145 | 3 | | | | | |
| TOTAL | | | | | | 610 | 67500 | 530 | 305 | x 6 | 40 | 190 | 2 | 7 | 2 |

x TO BE PAID FOR UNDER ROADWAY ITEMS

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REVISION DATES
5/28/08
4/14/09

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: CONSULTANT DESIGN

**SUMMARY QUANTITIES**

DRAWING No. 6-03