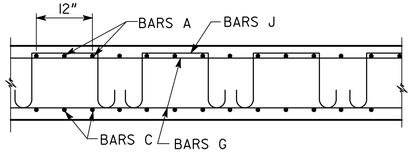
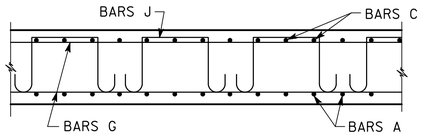
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



TOP SLAB

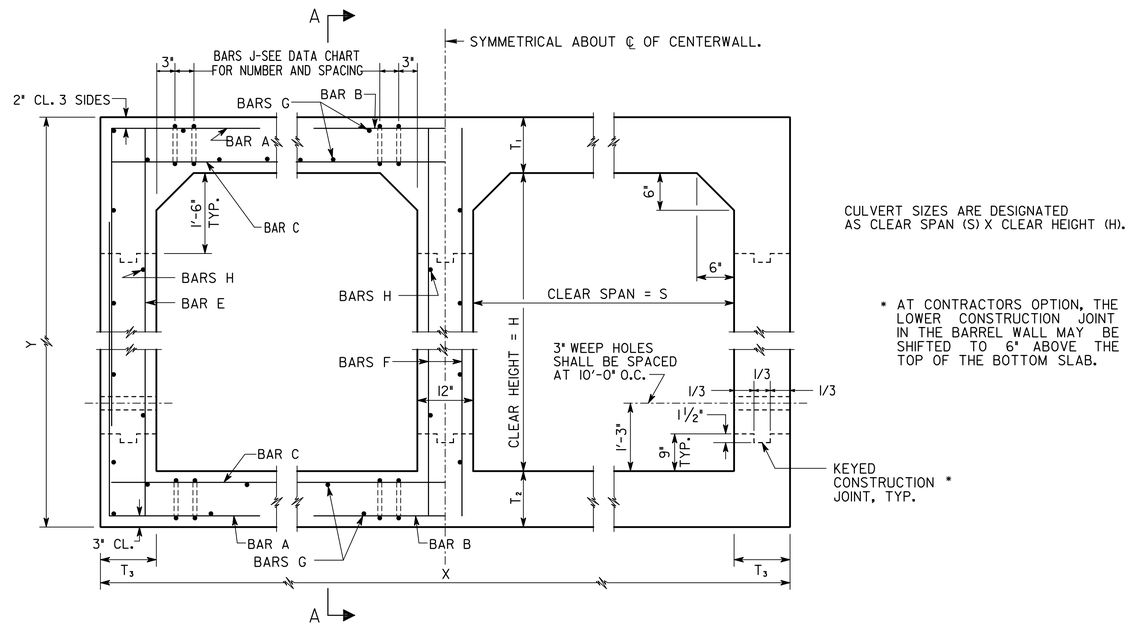
NOTE: SPACING OF BARS A AND C IS 6" OR 12". SEE BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS.



BOTTOM SLAB

NOTE: LONGITUDINAL WINGWALL AND PARAPET BARS EXTEND INTO BARREL. SEE WINGWALL AND PARAPET STANDARDS.

SECTION A-A



CULVERT SIZES ARE DESIGNATED AS CLEAR SPAN (S) X CLEAR HEIGHT (H).

* AT CONTRACTORS OPTION, THE LOWER CONSTRUCTION JOINT IN THE BARREL WALL MAY BE SHIFTED TO 6" ABOVE THE TOP OF THE BOTTOM SLAB.

TYPICAL BARREL SECTION-ALL DESIGNS

DESIGN	1	2	3	4	5	6	7	8
MAXIMUM FILL HEIGHT	10'	20'	30'	40'	50'	60'	70'	80'

1) MINIMUM HEIGHT FROM TOP OF CULVERT TO BOTTOM OF BASE WITHIN TRAVELWAY SHALL BE 1'-0".

2) DESIGN OF THE CULVERT SHALL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL WITH ONLY A SINGLE DESIGN BEING USED FOR THE ENTIRE INSTALLATION.

3) TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED NORMAL TO THE CENTERLINE OF THE CULVERT AT THE OUTSIDE SHOULDER BREAK POINTS. THE MAXIMUM POUR LENGTH ALONG THE LENGTH OF THE CULVERT SHALL NOT EXCEED 40'-0" FOR DESIGNS 1 TO 3 AND 30'-0" FOR DESIGNS 4 AND ABOVE.

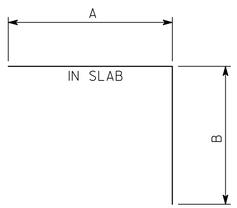
4) LONGITUDINAL BARREL REINFORCEMENT STEEL IN THE TRANSVERSE CONSTRUCTION JOINTS SHALL EXTEND THROUGH JOINTS.

5) CONSTRUCTION JOINTS SHALL BE WATERPROOFED ON THE EXTERIOR TOP AND SIDES OF BARREL IN ACCORDANCE WITH SECTION 530 OF GEORGIA STANDARD SPECIFICATIONS. WATERFPROOFING SHALL BE APPLIED WHEN CONCRETE IS AT LEAST 7 DAYS OLD. ALL COSTS ASSOCIATED WITH WATERPROOFING SHALL BE INCLUDED IN OTHER ITEMS AND WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

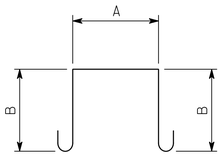
6) MINIMUM LENGTH OF LAP SPLICE FOR LONGITUDINAL BARREL REINFORCING STEEL SHALL BE 2'-0".

FOR BAR DIMENSIONS SEE BAR REINFORCEMENT DETAILS.
NUMBER OF J BARS SHOWN IN DATA CHART IS THE NUMBER PER CORNER IN ANY ONE TRANSVERSE PLANE. THE TOTAL NUMBER OF J BARS REQUIRED DEPENDS UPON THE LENGTH OF THE SECTION.

TYPE 1



TYPE 3



BAR L - NO. 4

TYPE 6

A = 12" + DIAMETER BAR A + 1"
B = T_1 - 3"

GENERAL NOTES

1) SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.

2) ALL CONCRETE SHALL BE CLASS "AA".

3) CHAMFER ALL EXPOSED EDGES ¾".

4) COST OF DRAIN PIPES, WEEP HOLES, COARSE AGGREGATE, AND ANY OTHER INCIDENTAL ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.

5) CONSTRUCTION JOINTS IN BARREL WALLS ARE REQUIRED.

6) FOR DETAILS OF WINGWALLS AND PARAPETS SEE "REINFORCED CONCRETE WINGWALLS, TOEWALLS AND PARAPETS FOR CONCRETE BOX CULVERTS" SHEETS.

DESIGN DATA

SPECIFICATIONS - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2014.
TYPICAL HL-93 LOADING.

DATE	REVISION	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
REINFORCED CONCRETE DOUBLE BOX CULVERT

NO SCALE — SEPTEMBER 2017

DES. YSK
DRW. FGS
TRA. ____
CHK. JWB

(SUBMITTED) STATE DESIGN POLICY ENGINEER

(APPROVED) Margaret B Pinkelo CHIEF ENGINEER

NUMBER 2402

SHEET 1 OF 3