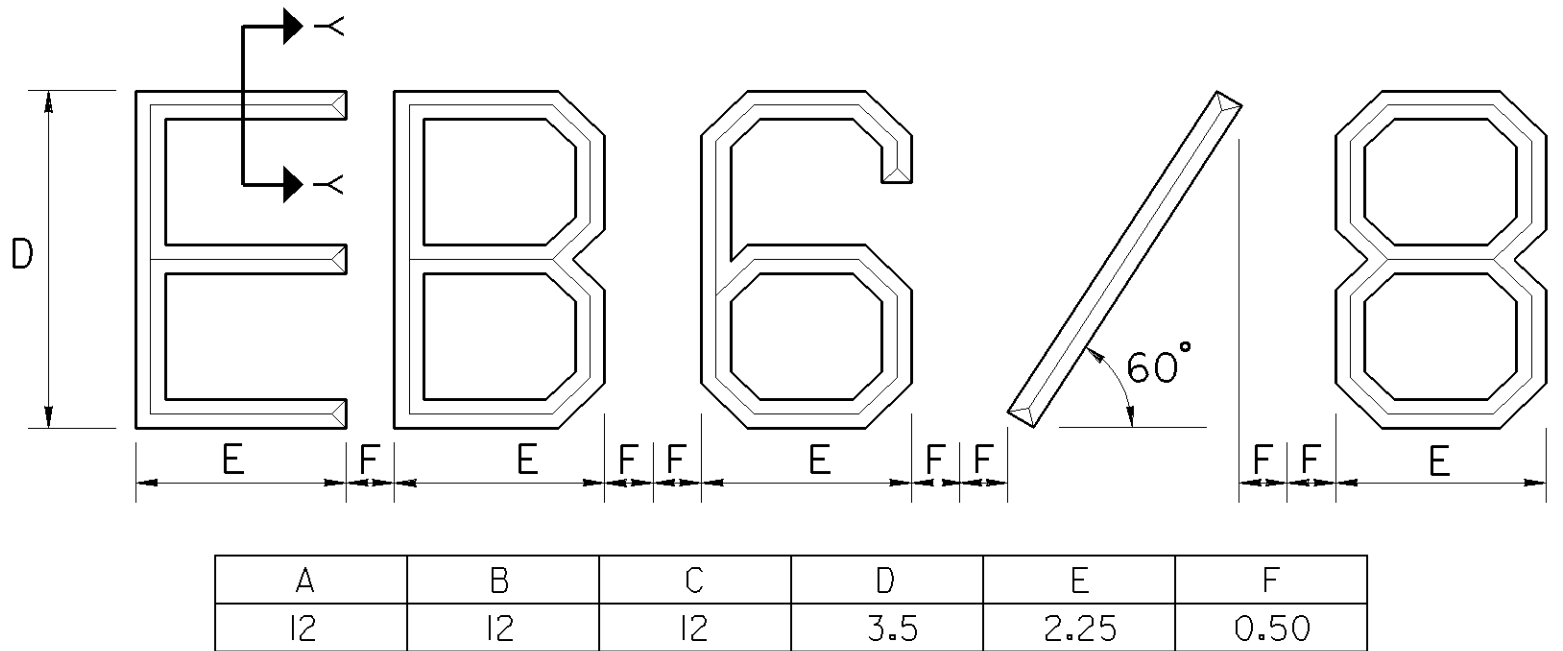
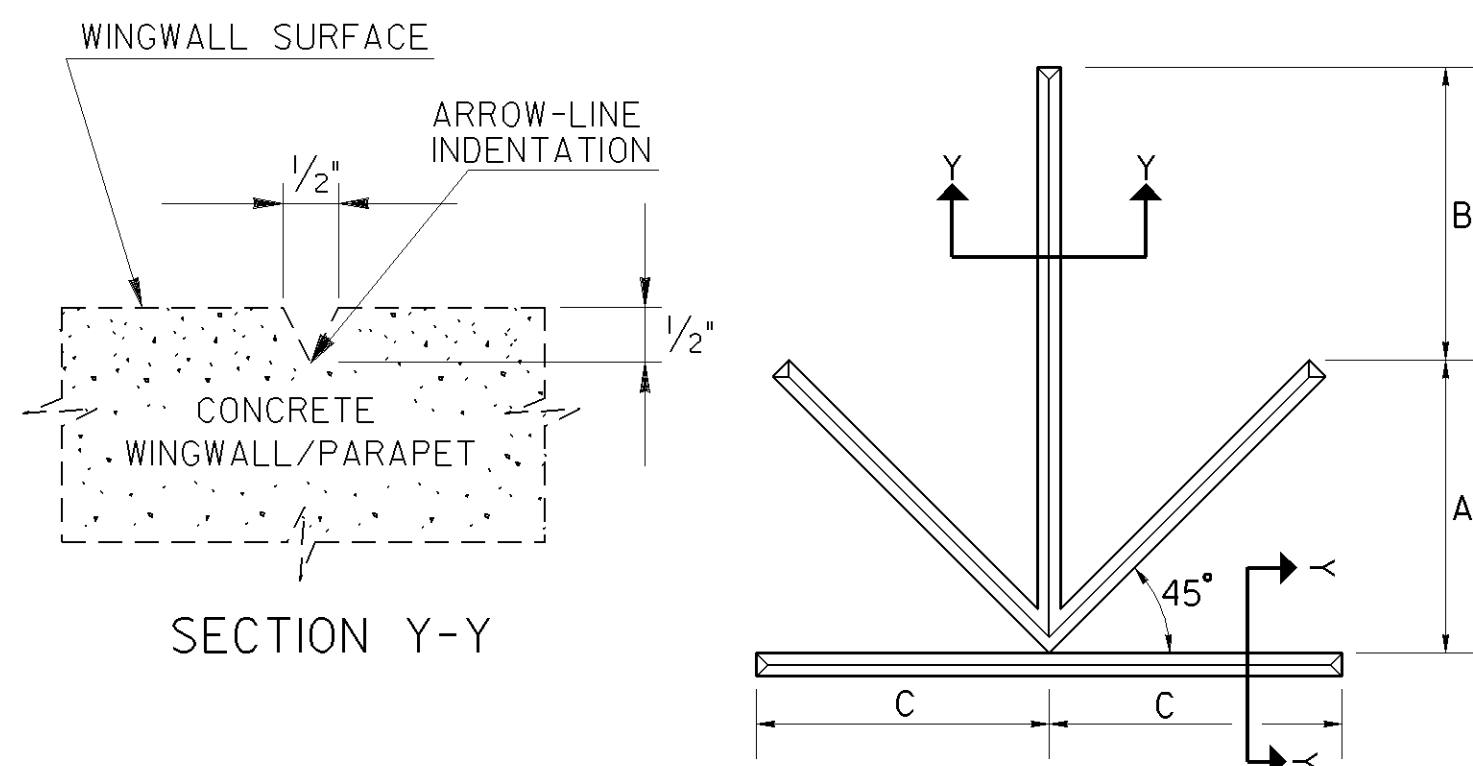
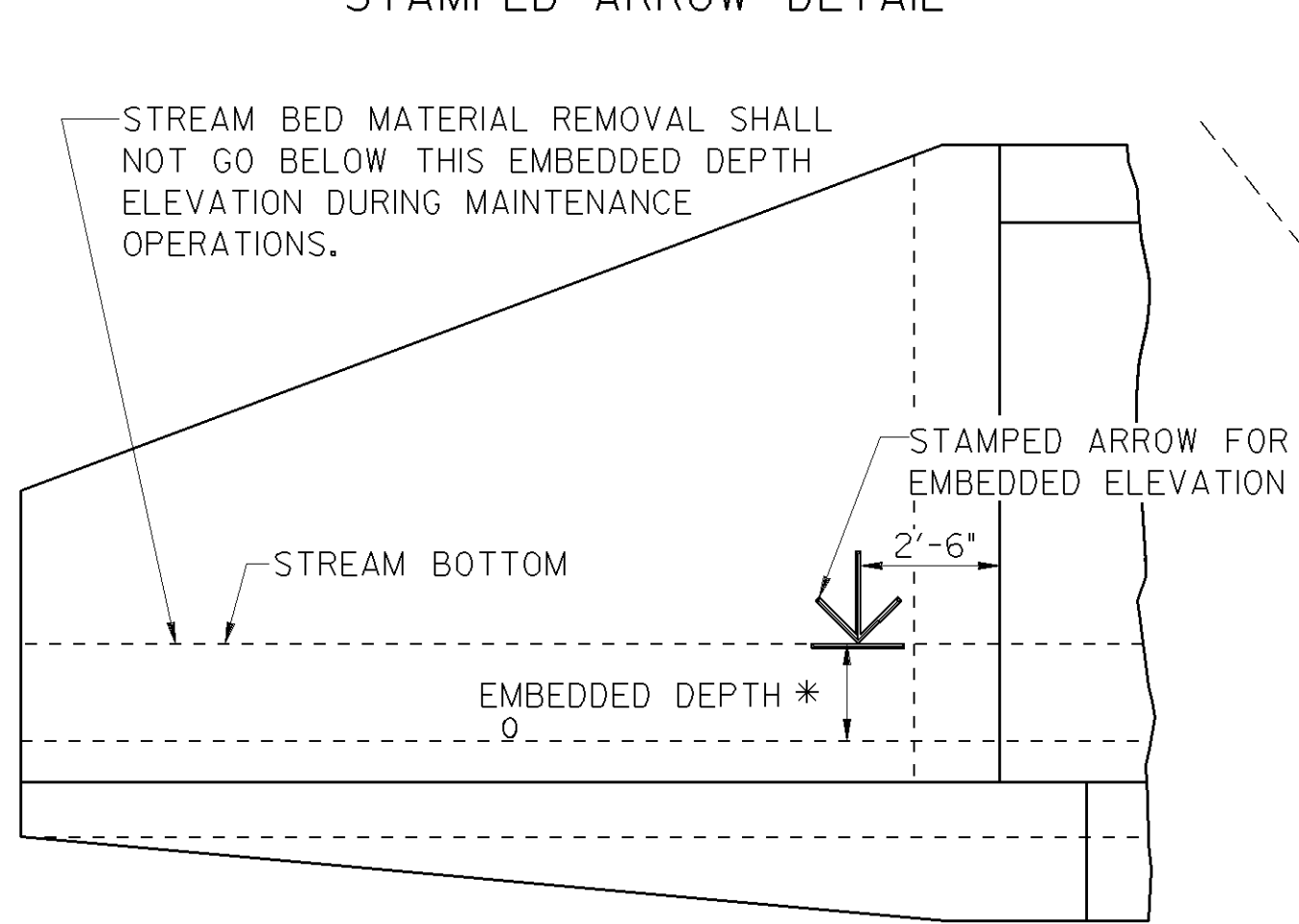


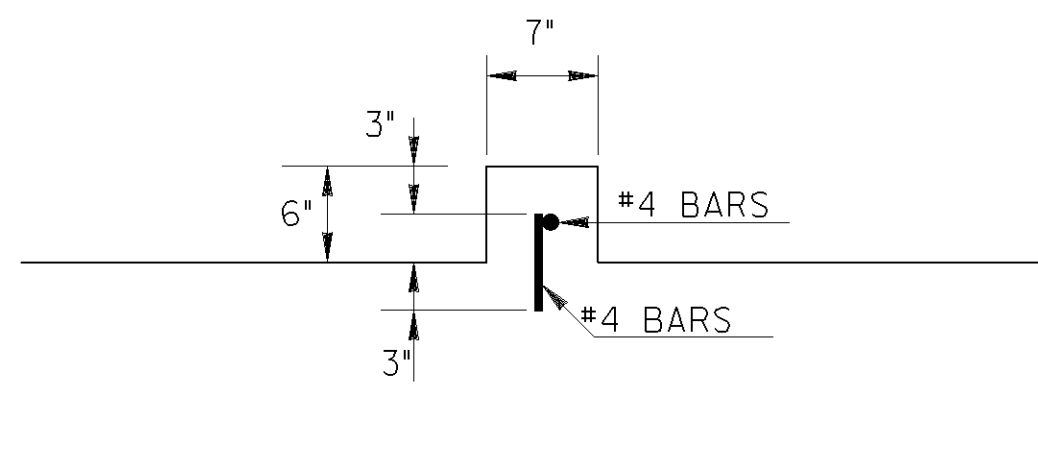
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			
TRIPLE BARREL			



NOTE: SEE STANDARD 903IH FOR STAMPED NUMBER DETAILS AND DIMENSIONS.



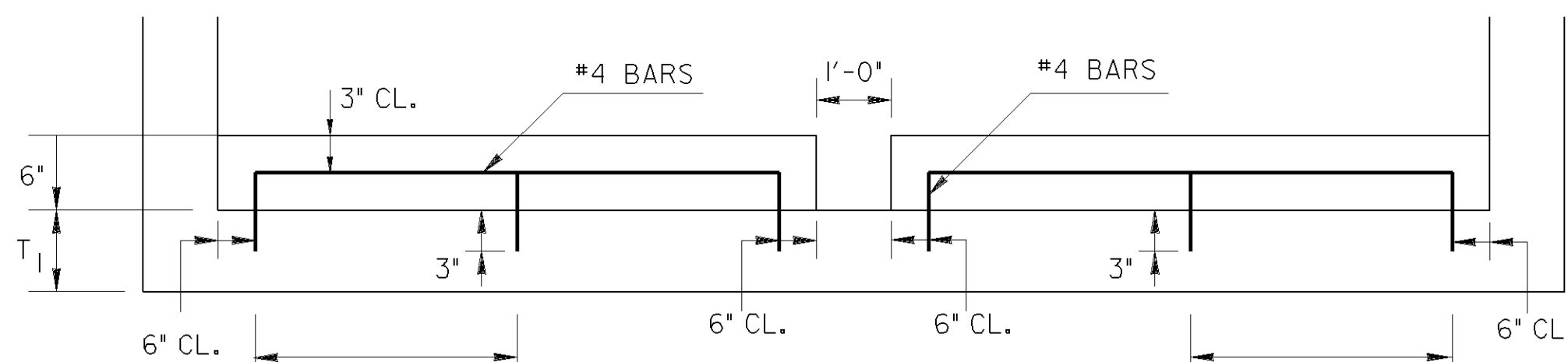
CONCRETE WINGWALL/PARAPET STAMPED ARROW LOCATION DETAIL



NOTE: DRILL 1/8" ROUND HOLE 3" DEEP FOR DOWEL BARS, FILL WITH EPOXY ADHESIVE AND INSERT BARS.

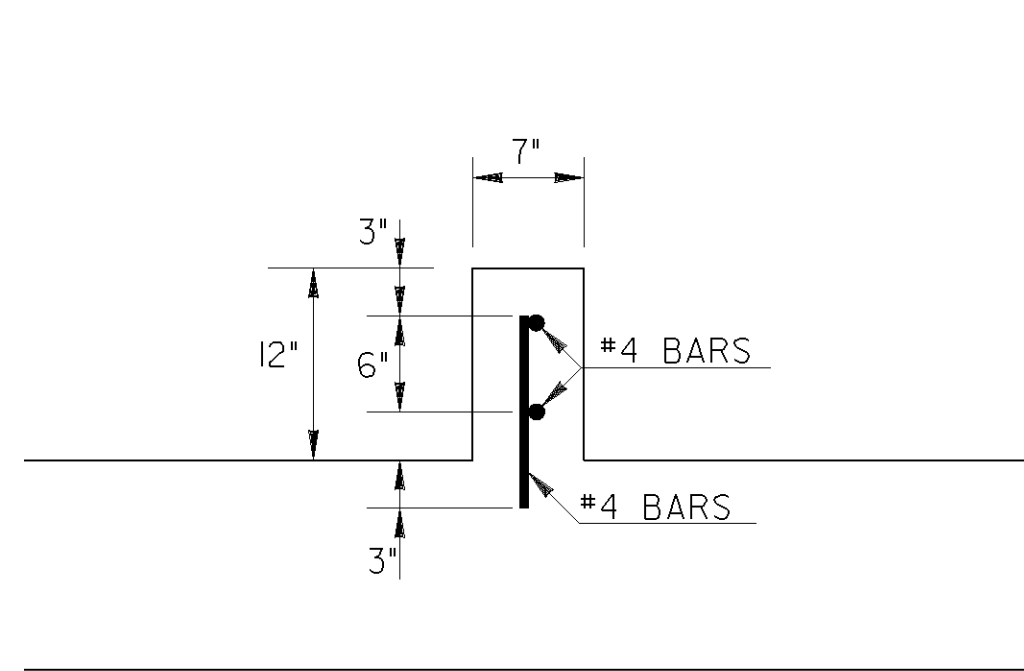
SECTION

CONCRETE VEIN HEIGHT 6"



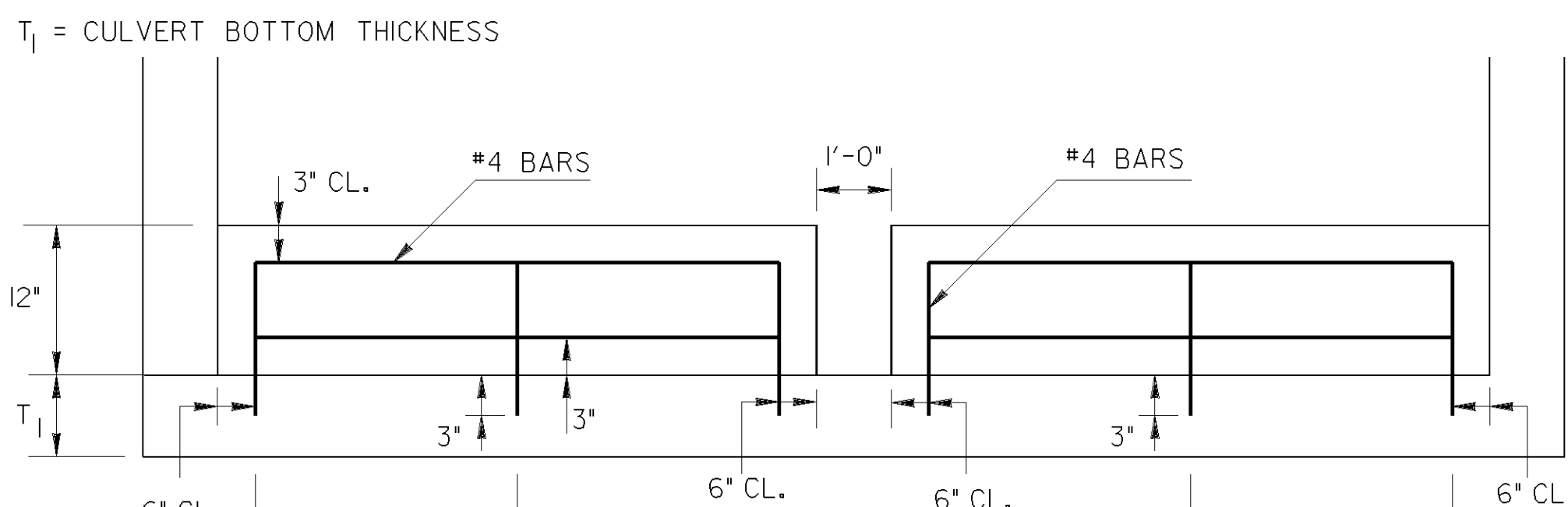
T₁ = CULVERT BOTTOM THICKNESS

ELEVATION

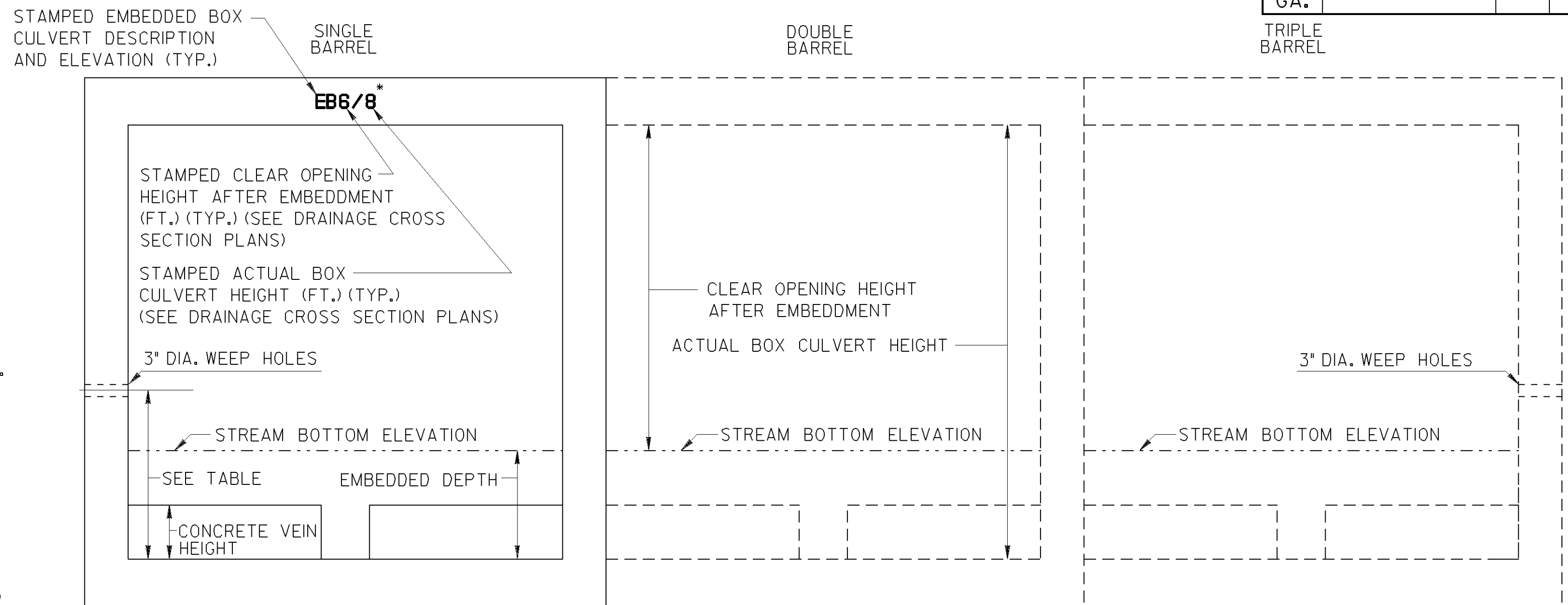


SECTION

CONCRETE VEIN HEIGHT 12"

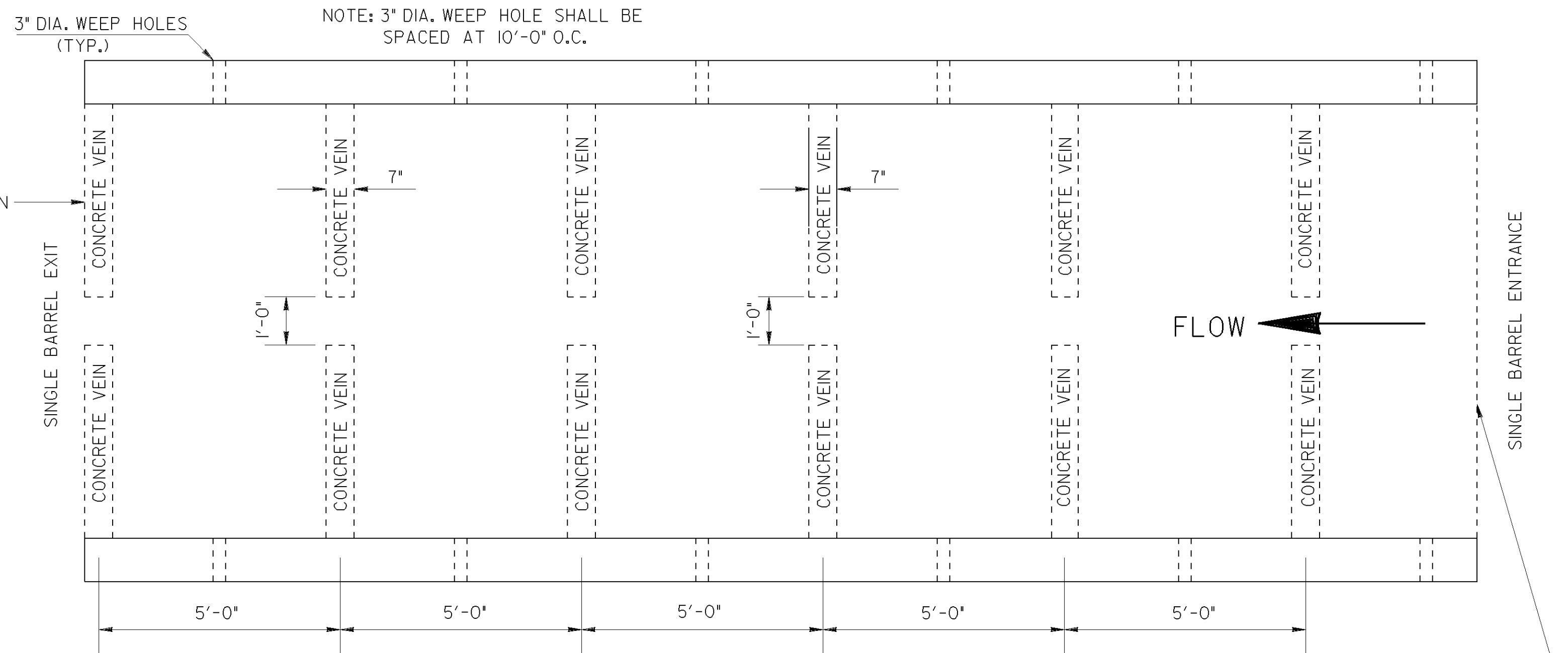


CONCRETE VEIN REINFORCEMENT DETAILS



* NOTE: SEE DRAINAGE CROSS SECTION PLANS FOR STAMPED BOX CULVERT AND CLEAR OPENING HEIGHTS AFTER EMBEDMENT.

CONCRETE BOX CULVERT BARREL ELEVATION



CONCRETE BOX CULVERT BARREL PLAN VIEW

EMBEDDED DEPTH	VEIN HEIGHT INCHES	WEEP HOLE LOCATION FEET-INCHES	QUANTITIES	
			CLASS A CONCRETE	REINFORCING STEEL
12" BURIED BOX	6"	2'-3"	0.0097	0.668
24" BURIED BOX	12"	3'-3"	0.0194	1.336

GENERAL NOTES:

- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
- ALL COSTS ASSOCIATED WITH THE INSTALLATION OF CONCRETE VEINS WILL BE INCLUDED IN THE OVERALL BID COST FOR CONCRETE AND BAR REINFORCING STEEL REQUIRED TO BUILD THE CULVERT.
- CULVERT APRONS ARE REQUIRED FOR CULVERTS THAT ARE EMBEDDED.
- THE CONTRACTOR WILL NOT PLACE STREAM BOTTOM MATERIAL IN THE CULVERT.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA			
CONSTRUCTION DETAIL FISH PASSAGE CULVERT CONCRETE VEINS			
NO SCALE		AUGUST 2008	
NUMBER D-48			

11-7-11	7-21-11	DATE	
ADDED CONCRETE STAMP DETAILS AND NOTES.	ADDED WEEP HOLE NOTES.	REV. REBAR SPACING, REV.	BAFFLE TO VEIN
T.C.	G.L.O.	BY	REVISION