PIPE CULVERT MATERIAL ALTERNATES
FOR PIEDMONT/BLUE RIDGE REGION

TYPE OF PIPE INSTALLATION		CONCRETE	CORRUGATED STEEL AASHTO M-36		CORRUGATED ALUMINUM AASHTO M-196	PLASTIC			
			ALUMINUM COATED (TYPE 2) CORRUGATED STEEL	PLAIN ZINC COATED	PLAIN UNCOATED ALUMINUM	CORRUGATED POLYETHYLENE AASHTO M-252	CORR. POLYETHYLENE SMOOTHED LINED AASHTO M-294 TYPE "S"	POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO M-304	POLY VINYL CHLORIDE (PVC) CORRUGATED SMOOTH INTERIOR ASTM F-949
STORM DRAIN	LONGITUDINAL INTERSTATE AND TRAVEL BEARING	X							
	LONGITUDINAL NON-INTERSTATE AND NON-TRAVEL BEARING	X	X		X		X	X	X
CROSS DRAIN · GRADE ≤ 10% · ADT < 250		X	X	X	X		X	X	X
CROSS DRAIN · GRADE ≤ 10% · 250 < ADT < 1,500		X	X*		X		X	X	X
CROSS DRAIN · GRADE ≤ 10% · 1,500 < ADT < 15,000		X					X	X	X
CROSS DRAIN · GRADE ≤ 10% · ADT > 15,000		X							
CROSS DRAIN · GRADE > 10% · ADT < 250			X	X	X		X	X	X
CROSS DRAIN · GRADE > 10% · ADT > 250					X		X	X	X
SIDE DRAIN		X	X	X	X		X	X	X
PERMANENT SLOPE DRAIN			X	X	X		X	X	X
PERFORATED UNDERDRAIN			X	X	X	X	X		X

* THIS TYPE PIPE CAN BE USED IF THE ADDITION OF TYPE "B" COATING (AASHTO M-190, HALF BITUMINOUS COATED WITH PAVED INVERT) IS UTILIZED.

NOTES:

1. ALLOWABLE MATERIALS ARE INDICATED BY AN "X".

2. STRUCTURAL REQUIREMENTS OF STORM DRAIN PIPE WILL BE IN ACCORDANCE WITH GEORGIA STANDARD 1030-D OR 1030-P, WHICHEVER IS APPLICABLE, AND THE STANDARD SPECIFICATIONS.

3. GRADED AGGREGATE BACKFILL SHALL BE USED IN CROSS DRAIN APPLICATIONS FOR ALL PLASTIC PIPES (AASHTO M-294, HDPE PIPE; AASHTO M-304, PVC PIPE; ASTM F-949, PVC PIPE).

4. THE CONTRACTOR SHALL PROVIDE ADDITIONAL STORM SEWER CAPACITY CALCULATIONS IF A PIPE MATERIAL OTHER THAN CONCRETE IS SELECTED.

5. PIPE USED UNDER MECHANICALLY STABILIZED EARTH (MSE) WALLS, WITHIN MSE WALL BACKFILL, OR WITHIN FIVE FEET OF AN MSE WALL FACE SHALL BE CLASS V CONCRETE PIPE.

6. PROJECT SPECIFIC PH AND RESISTIVITY VALUES ARE ENTERED INTO THE RESPECTIVE BOXES ABOVE TO DETERMINE ALLOWABLE PIPE MATERIALS.

REV. 03-22-10

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROADWAY DESIGN

GENERAL NOTES

SR/347 FROM LAKE LANIER TO MCEVER ROAD

DRAWING No. 04-002