

FLOW VELOCITY	N.S.A. *1	SIZE INC	PARTICLE WEIGHT		
(FT./SEC.)		MAX.	AVG.	MIN.	(LBS.)*2
2.5	R-1	1 1/2	3/4	NO.8	10
4.5	R-2	3	1 1/2	1	1
6.5	R-3	6	3	2	20
9.0	R-4	12	6	3	60
11.5	R-5	18	9	5	150
13.0	R-6	24	12	7	300
14.5	R-7	30	15	12	700
	R-8	48	24	15	1500

*1. NATIONAL STONE ASSOCIATION.

D.O.T.	SIZE INC	HES (SQ. OF	PENING)	COMMON USES	
*NO.1	MAX.	AVG.	MIN.	COMMON COLO	
TYPE 3	12	9	5	CREEK BANKS, PIPE OUTLETS, LAKES, SHORELINES &	
TYPE 1	24	12	7	RIVERS	

*1. GEORGIA DEPARTMENT OF TRANSPORTATION.

GRADED RIP-RAP STONE

- TYPE 3: FOR GENERAL USE NORMAL DRAINAGE MATERIAL SHALL HAVE A MAXIMUM WEIGH 15 POUNDS OR MORE.

OUNTY STANDARD DETAIL 401 Y SEWER TYPICAL RIP-RAP ANNEL PIPE CROSSING	DATE 8/08 1/17	REVISIONS NRR TPM	DATE	REVISIONS	DGS/DRN/CHKD: REB APPROVED: REW DATE: 12-2-05	FULTON COUNTY	141 404

GRADED RIP-RAP STONE

*2. AT LEAST 50% OF ALL INDIVIDUAL STONE PARTICLES MUST WEIGH AT LEAST THE LISTED AMOUNT.

GRADED RIP-RAP STONE

CONDITIONS: THE LARGEST PIECES OF APPROXIMATE VOLUME OF ONE CUBIC FOOT. AT LEAST 35% OF THE MASS SHALL BE COMPRISED OF PIECES WHICH

TYPE 1: FOR SEVERE DRAINAGE CONDITIONS OR MODERATE WAVE ACTION: THE LARGEST PIECES OF MATERIAL SHALL HAVE A MAXIMUM OF TWO CUBIC FEET, AT LEAST 35% OF THE MASS SHALL BE COMPRISED OF PIECES WHICH WEIGH 125 POUNDS OR MORE.

		DRAWING NO
	FULTON COUNTY PUBLIC WORKS	
	141 PRYOR ST. ATLANTA, GA. 30303	401
	404-612-7400 FAX: 404-224-0498	
TY		