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TABLE 401-1 GRADED RIP - RAP STONE								
FLOW VELOCITY	NATIONAL STONE, SAND & GRAVEL ASSOCIATION RATING	SIZ (S	PARTICLE WEIGHT					
(FT/SEC.)		MAX.	AVG.	MIN.	(LBS)*			
25	R-1	1 ¹ / ₂	<u>3</u> 4	NO.8				
4.5	R-2	3	1 ¹ / ₂	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			

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

GEORGIA DOT CLASSIFICATION
TYPE 3
TYPE 1

TYPE 3: FOR GENERAL USE NORMAL DRAINAGE CONDITIONS: THE LARGEST PIECES OF MATERIAL SHALL HAVE A MAXIMUM APPROXIMATE VOLUME OF ONE CUBIC FOOT. AT LEAST 35% OF THE MASS SHALL BE COMPRISED OF PIECES WHICH WEIGH 15 POUNDS OR MORE.

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	DATE	REVISIONS	DATE	REVISIONS		
FULTON COUNTY STANDARD DETAIL 401	M/Y	XXX	M/Y	XXX	DGS/DRN/CHKD: XXX	
					DGS/DRN/CHKD: XXX	(33)
SANITARY SEWER TYPICAL RIP-RAP					APPROVED: XXX	
					DATE: XX-X-XX	CCC
CHANNEL PIPE CROSSING					DATE	
					1	

NOTES:

- 1. MINIMUM STONE SIZE SHALL BE 125 LBS.
- 2. STONE SIZE SHALL BE PROVIDED BY DESIGN ENGINEER OR FULTON COUNTY PUBLIC WORKS ENGINEER
- 3. ALL EROSION CONTROL DEVICES MUST BE IN PLACE PRIOR TO ANY GRADING OR CLEARING.
- 4. ALL EROSION CONTROL SHALL CONFORM TO FULTON COUNTY STANDARDS.
- 5. RIM OF MANHOLE SHALL BE 2' ABOVE GRADE. IF IN A FLOOD ZONE, RIM SHALL BE ABOVE 25 YEAR STORM ELEVATION. RING AND COVER OF MANHOLE TO BE COMPOSITE WATERTIGHT RING AND COVER PER DETAIL 105.
- 6. SEE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA FOR MORE INFORMATION.
- 7. CONCRETE STRENGTH TEST MAY BE REQUIRED FOR ALL POURED IN PLACE CONCRETE.

TABLE 401-2 **GRADED RIP - RAP STONE** SIZE INCHES (SQ. OPENING) COMMON USES MAX. AVG. MIN. 12 9 5 CREEKS, BANKS, PIPE OUTLETS, LAKES, SHORELINES & RIVERS 24 12 7

GRADED RIP - RAP STONE (SEE TABLE 401-2)

TYPE 1: FOR SEVERE DRAINAGE CONDITIONS OR MODERATE WAVE ACTION: THE LARGEST PIECES OF MATERIAL SHALL HAVE A MAXIMUM VOLUME OF 4.2 CUBIC FEET. AT LEAST 35% OF THE MASS SHALL BE COMPRISED OF PIECES WHICH WEIGH 125 POUNDS OR MORE.



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DRAWING NO.

401