



LEGEND	
D	= OUTLET PIPE DIAMETER
d_{50}	= MEDIAN STONE SIZE IN A WELL GRADED APRON
d_{max}	= $1.5 \times d_{50}$ = MAXIMUM STONE DIAMETER
t	= APRON THICKNESS = $1.5 \times d_{max}$
L	= LENGTH (DETERMINED FROM SECT. 8.06)
W	= WIDTH @ END OF APRON (DETERMINED IN SECT. 8.06 DEPENDING ON TAILWATER CONDITIONS)
	WIDTH @ OUTLET = $3D$

NOTES:

RIP-RAP PIPE OUTLET PROTECTION APRONS ARE TO BE DESIGNED ACCORDING TO THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, SECTION 8.06.1 - 8.06.4

PLACE RIP-RAP AROUND PIPE AS DIRECTED BY THE FIELD ENGINEER.

CITY OF GREENSBORO

STANDARD PIPE OUTLET EROSION CONTROL DEVICE

STD. NO.

422

REV.

03-97