

**RIPRAP AREA SIZES**

D	Q	R	S
12"	11'	15'	7'
24"	15'	15'	9'
36"	19'	15'	11'
48"	20'	16'	12'
54"	25'	22'	13'

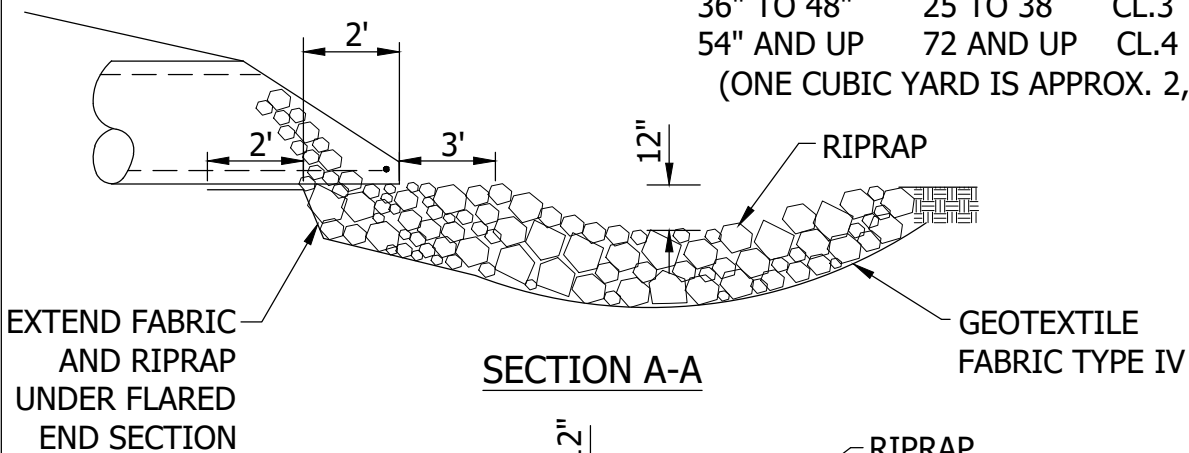
PLAN

**R**  
(15' MIN.)

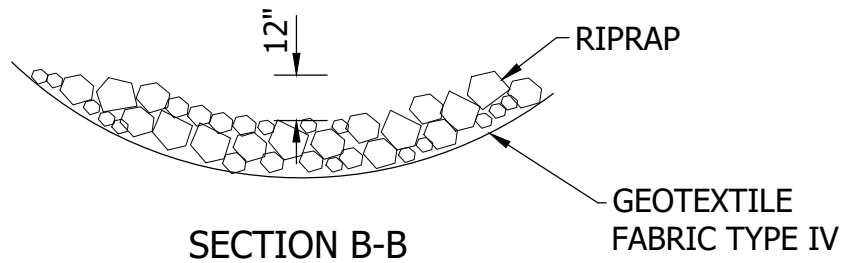
**RIPRAP REQUIREMENTS**

D	CY	CLASS	DEPTH
12" TO 24"	15 TO 20	CL.3	3'
27" TO 33"	20 TO 25	CL.3	3'
36" TO 48"	25 TO 38	CL.3	3'
54" AND UP	72 AND UP	CL.4	4'

(ONE CUBIC YARD IS APPROX. 2,800 LBS.)



SECTION A-A



SECTION B-B



**STANDARD DETAILS**  
RIPRAP AT FLARED END SECTION

COTTAGE GROVE, MINNESOTA

JANUARY 2021

PLATE NO.  
**STO-12**