



UTILITY & SITE DETAILS
LAUREL RIDGE RD / LEWISTON ST
DRAINAGE IMPROVEMENTS
ROANOKE, VIRGINIA

REVISIONS

DESIGNED BY:	MBJ
DRAWN BY:	AJH
CHECKED BY:	LBL
SCALE:	NO SCALE
DATE:	AUGUST 21, 2015
PROJECT NUMBER:	B14120B-01

C303



- | | |
|-----------------------|--|
| PHOSPHORUS: | 5-15mg/Kg |
| CATION EXCHANGE RATE: | >5 meq/100g |
| pH: | 6-7 |
| COMPOSITION: | 75%-85% COURSE SILICA SAND |
| | 10-20% SOIL FINES AND CLAY |
| | 0-5% CLAY |
| | 3% - 5% ORGANIC MATTER IN THE FORM OF LEAF COMPOST |

THE VOLUME OF FILTER MEDIA FOR CONSTRUCTION SHOULD BE BASED ON 110% OF PLAN VOLUME TO ACCOUNT FOR SETTLING

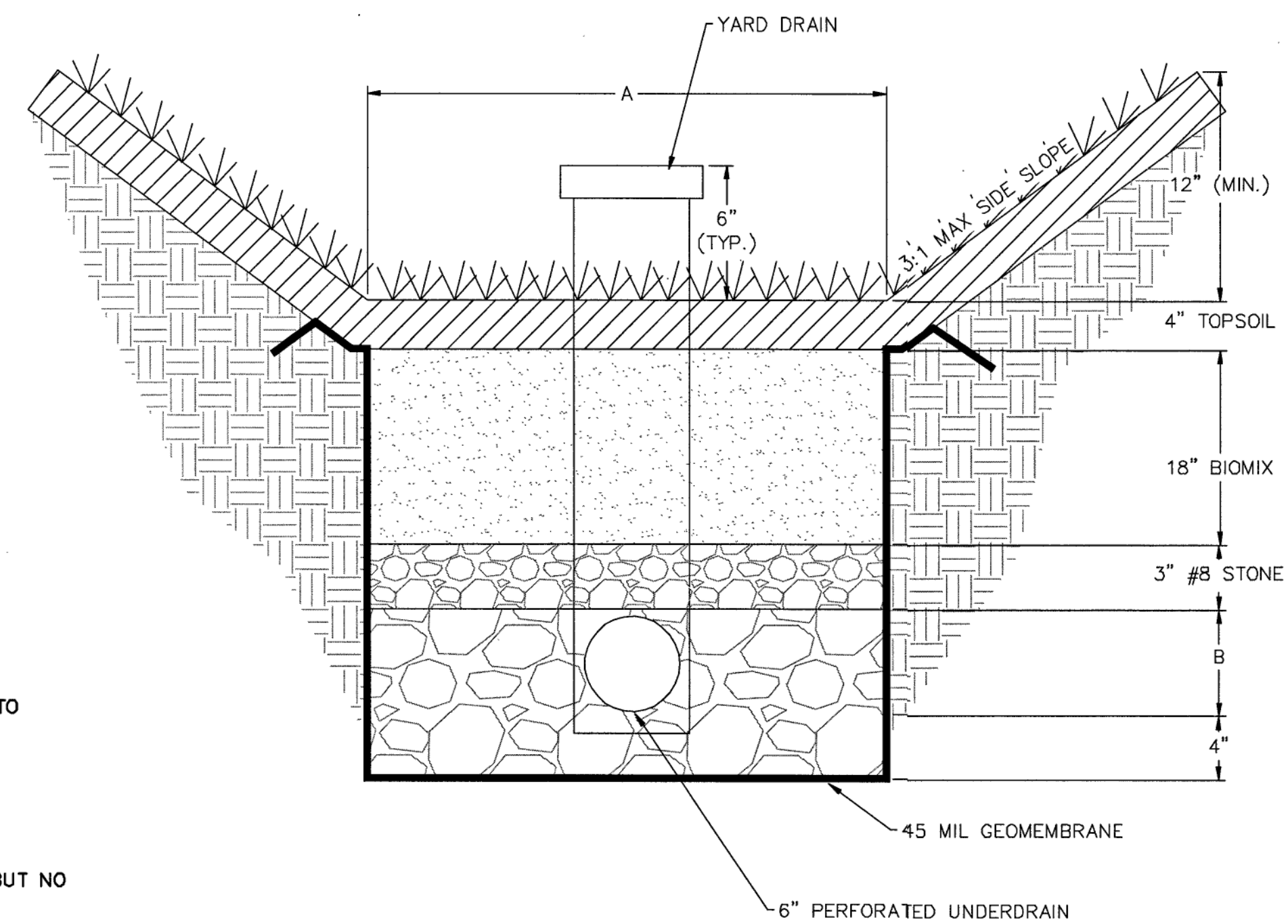
- a. PH, ORGANIC MATTER: 1 TEST PER 90 CUBIC YARDS, BUT NO MORE THAN 1 TEST PER BIORETENTION AREA
- b. MAGNESIUM, PHOSPHORUS, POTASSIUM, SOLUBLE SALTS: 1 TEST PER 500 CUBIC YARDS, BUT NO LESS THAN 1 TEST PER BORROW SOURCE
- c. ONE GRAIN SIZE ANALYSIS SHALL PER PERFORMED PER 90 CUBIC YARDS OF PLANTING SOIL, BUT NO LESS THAN 1 TEST PER BIORETENTION AREA.

3. TOP SOIL SHOULD BE 4" OF LOAMY SAND OR SANDY LOAM TEXTURE, WITH LESS THAN 5% CLAY CONTENT, A CORRECTED pH OF 6 TO 7, AND AT LEAST 2% ORGANIC MATTER

NOTE: BIORETENTION SOIL MIX TO BE IN ACCORDANCE WITH LATEST STANDARDS AND SPECIFICATIONS AS DETERMINED BY VIRGINIA DEQ.

ENGINEERED SOIL MIX

NO SCALE

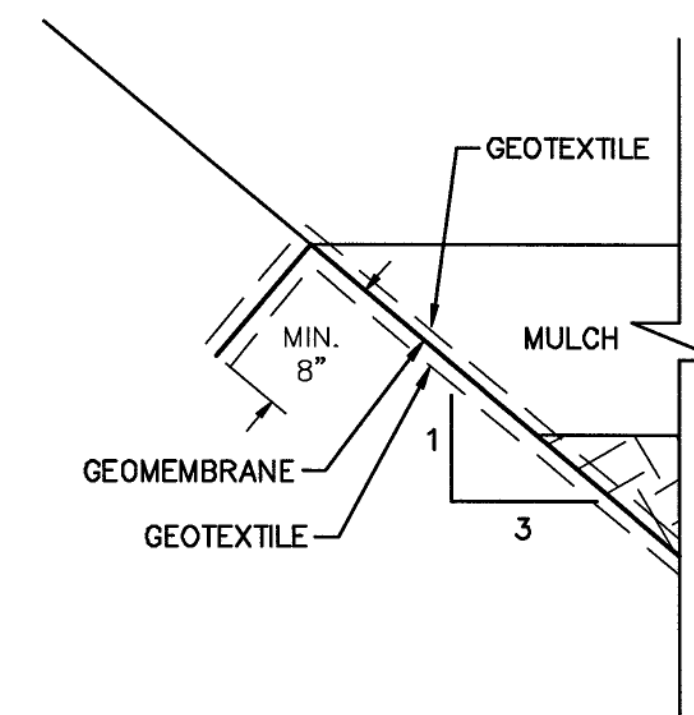


	A	B		
SWALE	BOTTOM WIDTH (ft)	#57 STONE DEPTH (ft)	PROPOSED LINING	SWALE LENGTH
A	4.00	6"	EC-2 MATTING	250'
B	4.00	11"	EC-2 MATTING	110'
C	4.00	12"	EC-2 MATTING	60'
D	4.00	11"	EC-2 MATTING	113'

NOTE: DIMENSION B IS TO BOTTOM OF UNDERDRAIN. AN ADDITION 4" OF STONE IS REQUIRED BELOW THAT.

DRY SWALE SECTION DETAIL

NOT TO SCALE



ANCHORING TRENCH DETAIL

NO SCALE