

FILTER MATERIAL GRADATION

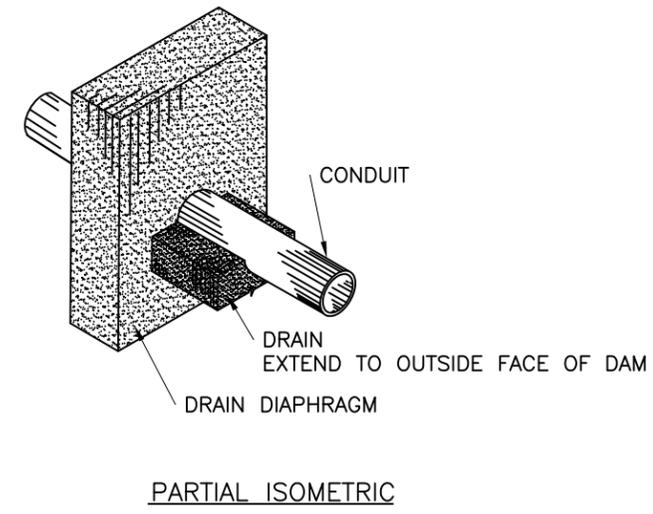
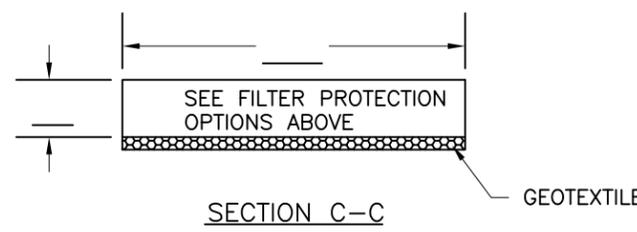
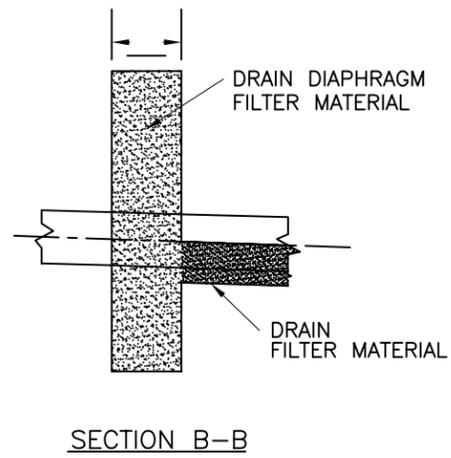
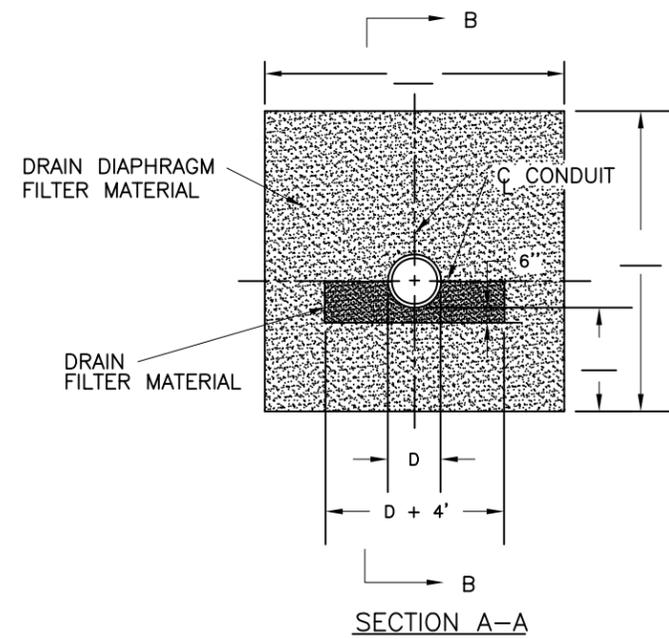
SIEVE SIZE	% PASSING BY WEIGHT
3/8 IN.	100
NO. 4	95-100
NO. 16	45-85
NO. 50	5-30
NO. 100	0-10

ASTM, C-33 FINE AGGREGATE

ROCK RIPRAP GRADATION

% PASSING BY WEIGHT	SIZE (IN.)
100	
60-85	
25-50	
5-20	
0-5	

- FILTER PROTECTION OPTIONS
1. ROCK RIPRAP, D50 = \_\_\_\_\_
  2. PRECAST CONCRETE PAVING BLOCK OR LANDSCAPE BLOCK, MIN. WEIGHT = 40 LB./SQ. FT.
  3. CELLULAR CONFINEMENT (GEOWEB OR OTHER) FILLED WITH 3/8" TO 3" STONE.



ESTIMATED QUANTITIES

FILTER MATERIAL _____	_____ CUBIC YARDS
GEOTEXTILE _____	_____ SQUARE YARDS
ROCK RIPRAP _____	_____ CUBIC YARDS
_____	_____
_____	_____
_____	_____

CONSTRUCTION NOTES:

1. THE FILTER MATERIAL SHALL BE PLACED IN 12 INCH LIFTS AND EACH LIFT SATURATED UNIFORMLY WITH APPROXIMATELY 1.2 GALLONS OF WATER PER CUBIC FOOT OF LOOSE FILTER MATERIAL. IN LIEU OF WATER APPLICATION, THE FILTER MATERIAL SHALL BE PLACED IN 9 INCH LIFTS AND COMPACTED WITH ONE PASS OF A PLATE VIBRATOR.
2. THE MAXIMUM HEIGHT OF RIPRAP DROP ONTO THE GEOTEXTILE SHALL BE 3 FEET.

MATERIAL NOTES

1. THE GEOTEXTILE SHALL CONFORM TO WISCONSIN CONSTRUCTION SPEC. 13, CLASS I NONWOVEN.
2. THE FILTER MATERIAL SHALL CONFORM TO WISCONSIN CONSTRUCTION SPEC. 8.
3. ROCK RIPRAP SHALL CONFORM TO WISCONSIN CONSTRUCTION SPEC. 9.

Date \_\_\_\_\_  
 Designed \_\_\_\_\_  
 Drawn \_\_\_\_\_  
 Checked \_\_\_\_\_  
 Approved \_\_\_\_\_

DRAIN DIAPHRAGM FOR PIPE DROP (DRAIN OUTLET)

OWNER: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_

United States Department of Agriculture  
 Natural Resources Conservation Service

Drawing No. WI-248

Date 07/14

Sheet \_\_\_\_\_ of \_\_\_\_\_