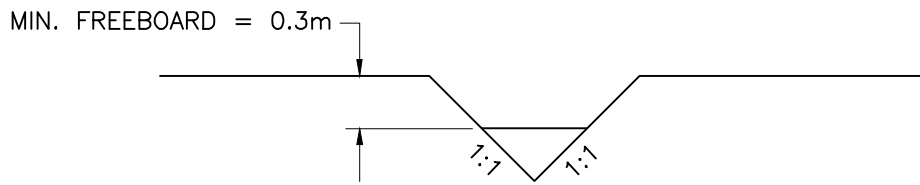
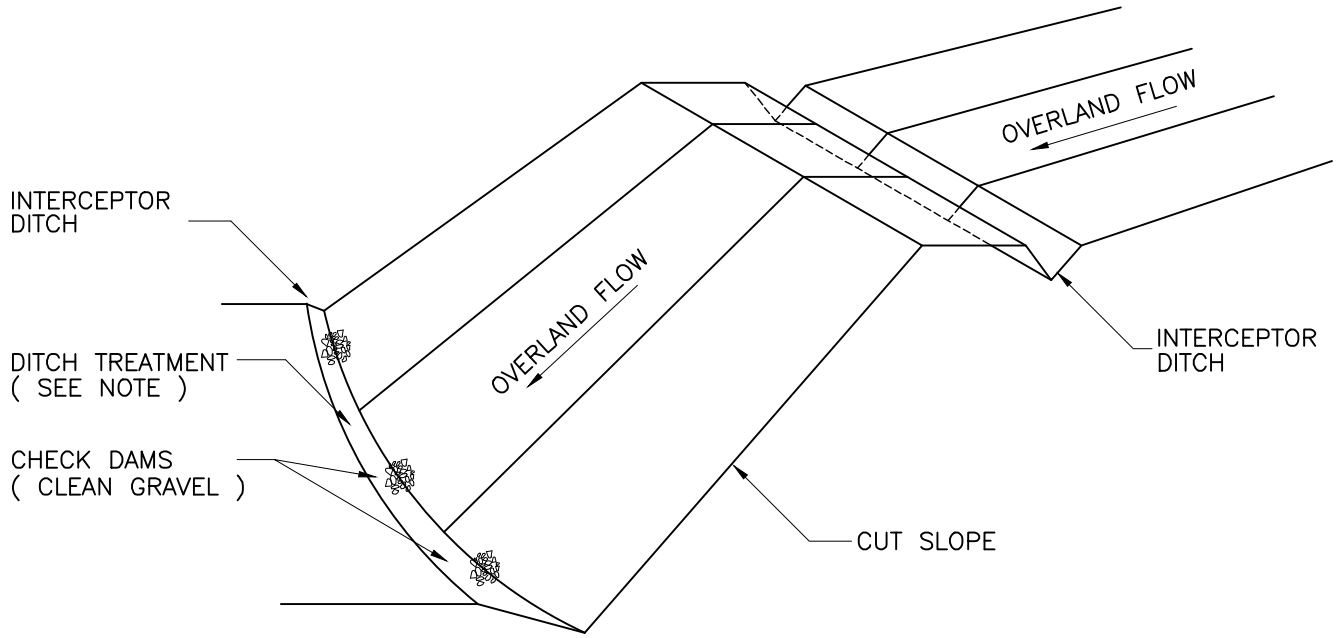


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TYP. DITCH X-SECTION

- FOR FLAT NON-ERODABLE SLOPES, (<5% ) DITCH MAY GRASS OR SOD SURFACE.
- FOR STEEP SLOPES, (>5%) OR ON ERODABLE SOILS, LINE DITCH WITH POLY OR RIPRAP.
- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.



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EROSION AND SEDIMENT  
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INTERCEPTOR DITCH

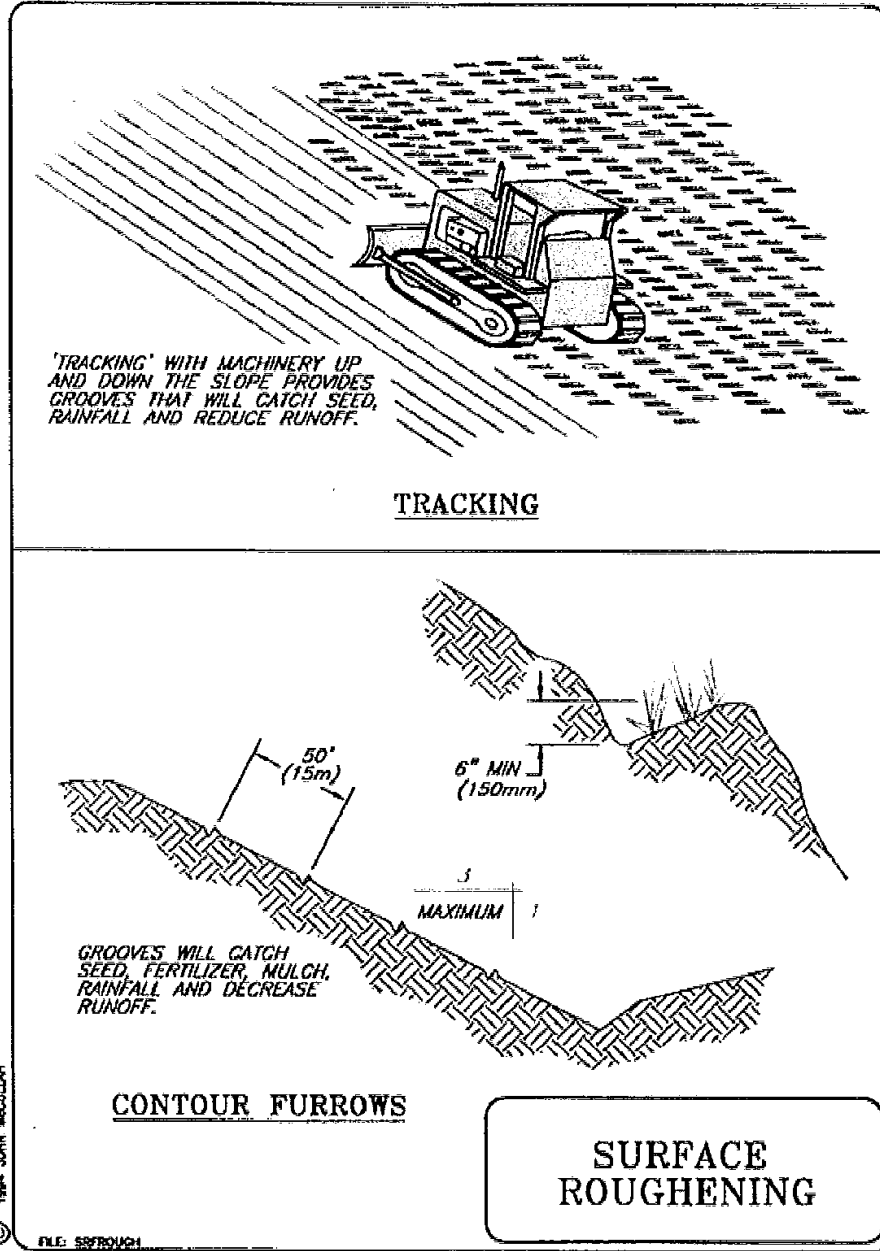
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Figure EC BMP #2.3. Slope Texturing: Surface Roughening Typical Drawing



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SURFACE ROUGHENING

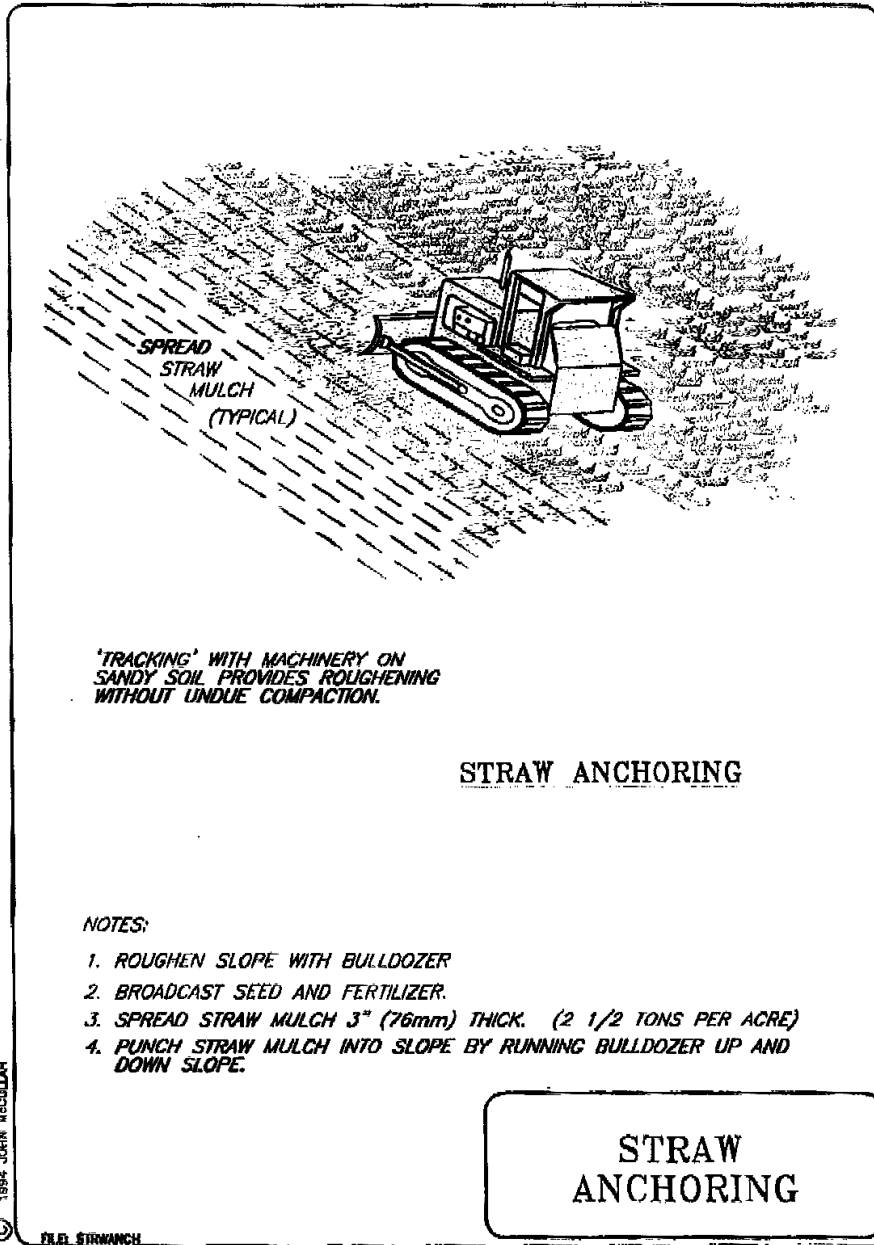
DRAWING NO.  
**CR-ES102**

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Figure EC BMP #3.3. Mulch: Straw Anchoring Typical Drawing



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STRAW ANCHORING

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**Erosion and Sediment Control**

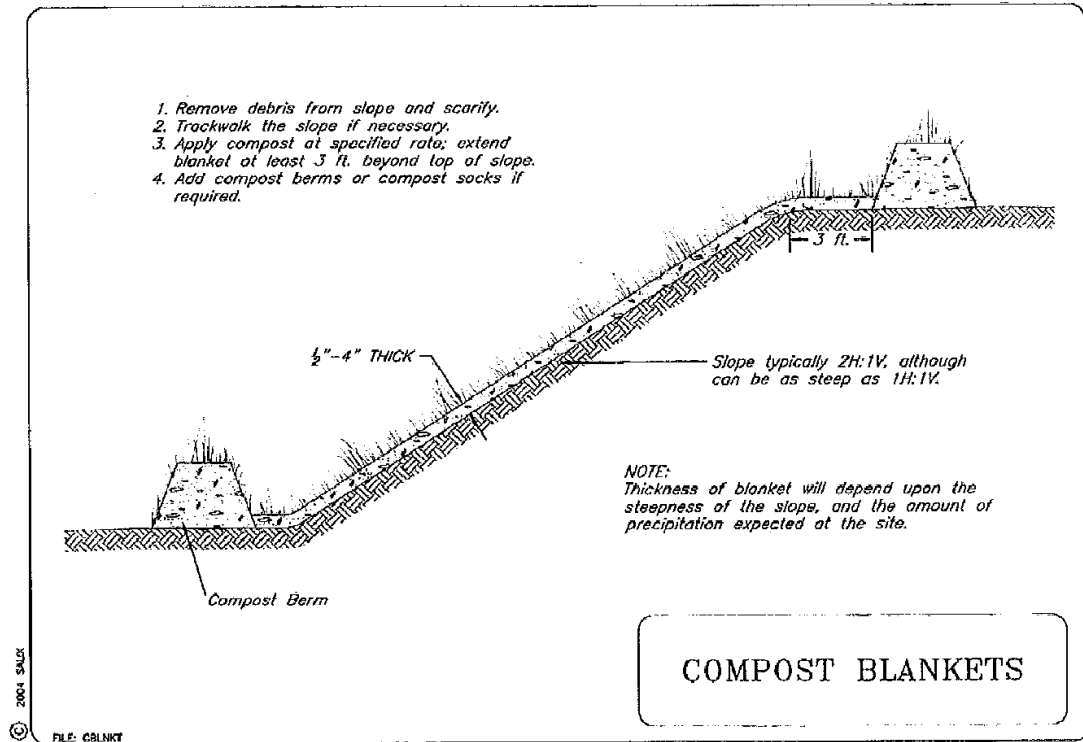


Figure EC BMP #3.6. Mulch: Compost Blankets Typical Drawing

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COMPOST BLANKETS

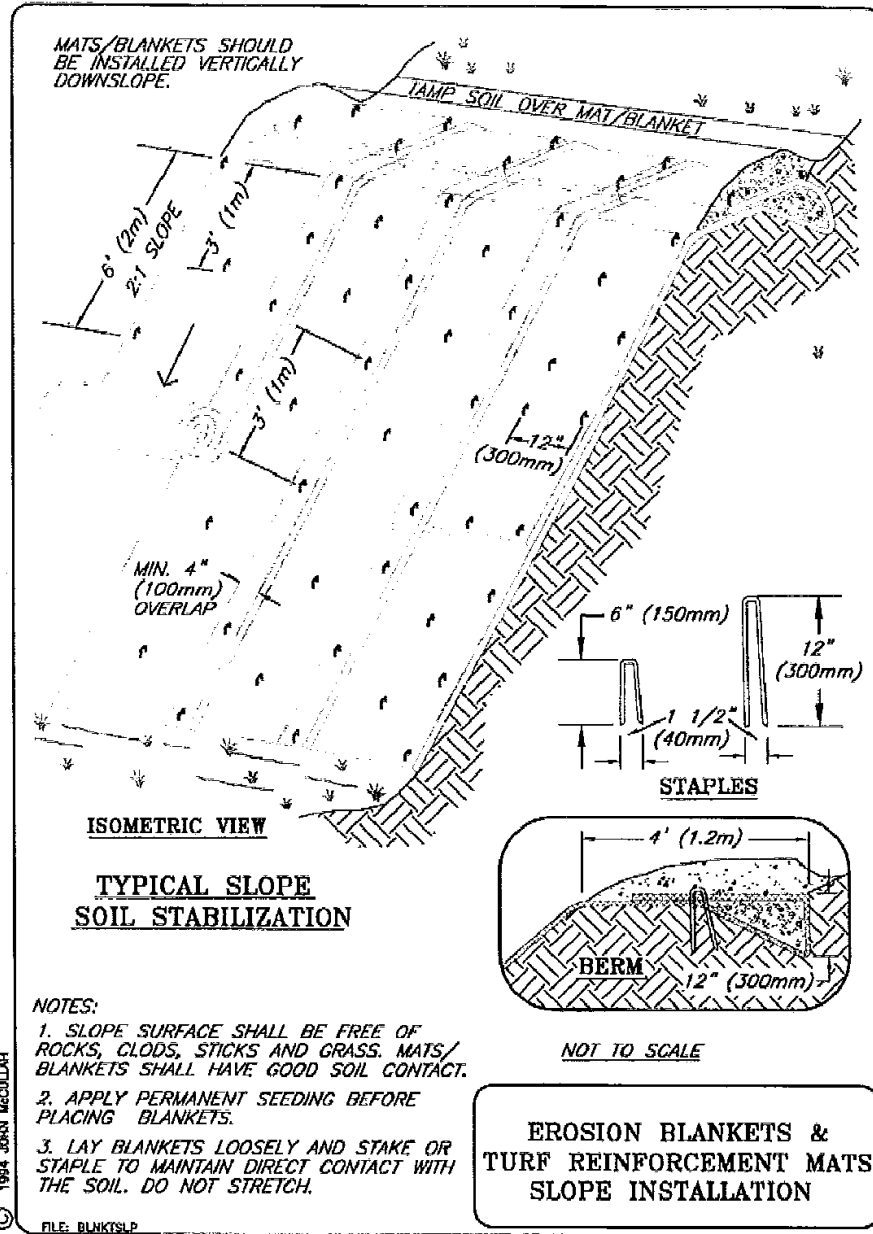
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**Erosion and Sediment Control**

Figure EC BMP #4.4. Rolled Erosion Control Products on Slopes: Slope Installation Typical Drawing



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**EROSION BLANKETS &  
TURF REINFORCEMENT MATS  
SLOPE INSTALLATION**

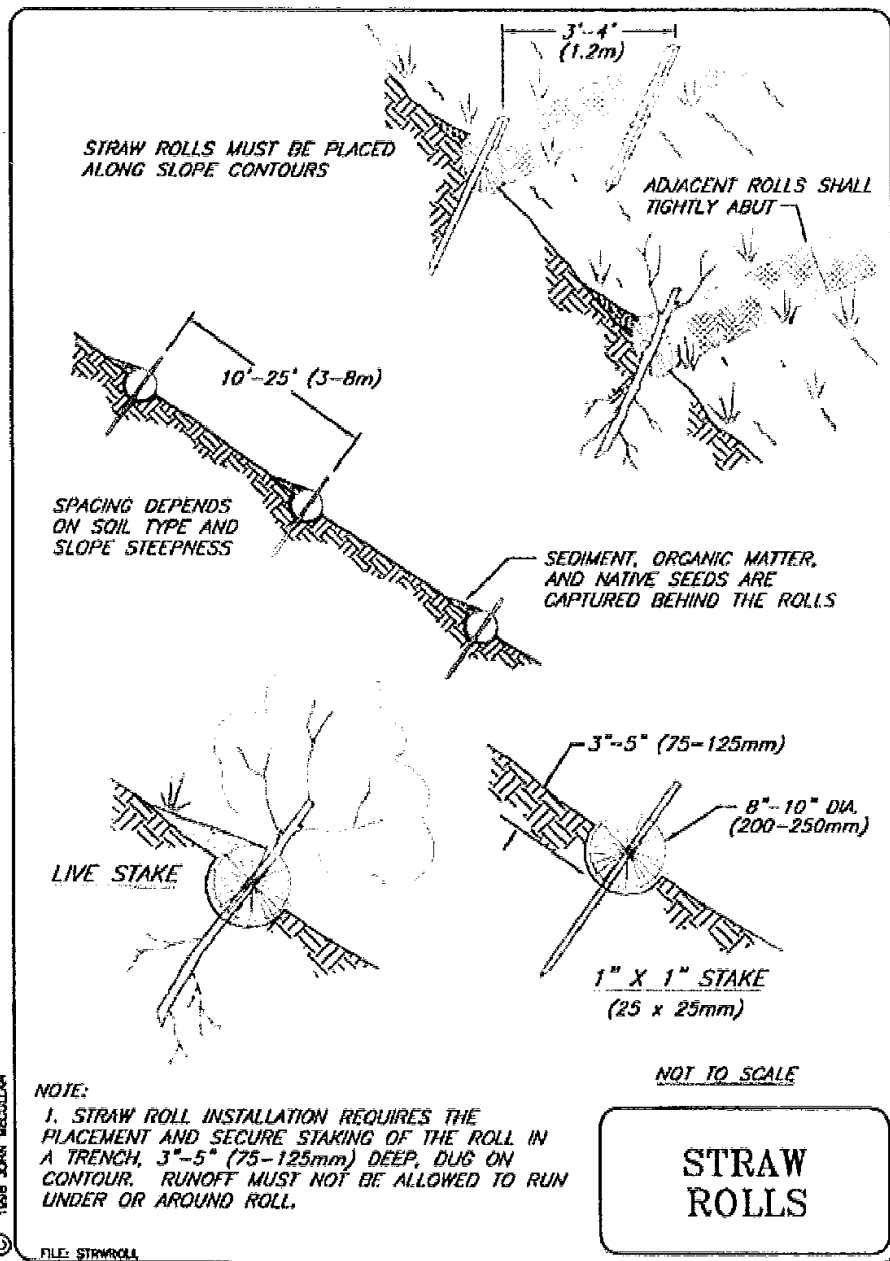
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Figure EC BMP #5.3. Straw Wattles Typical Drawing

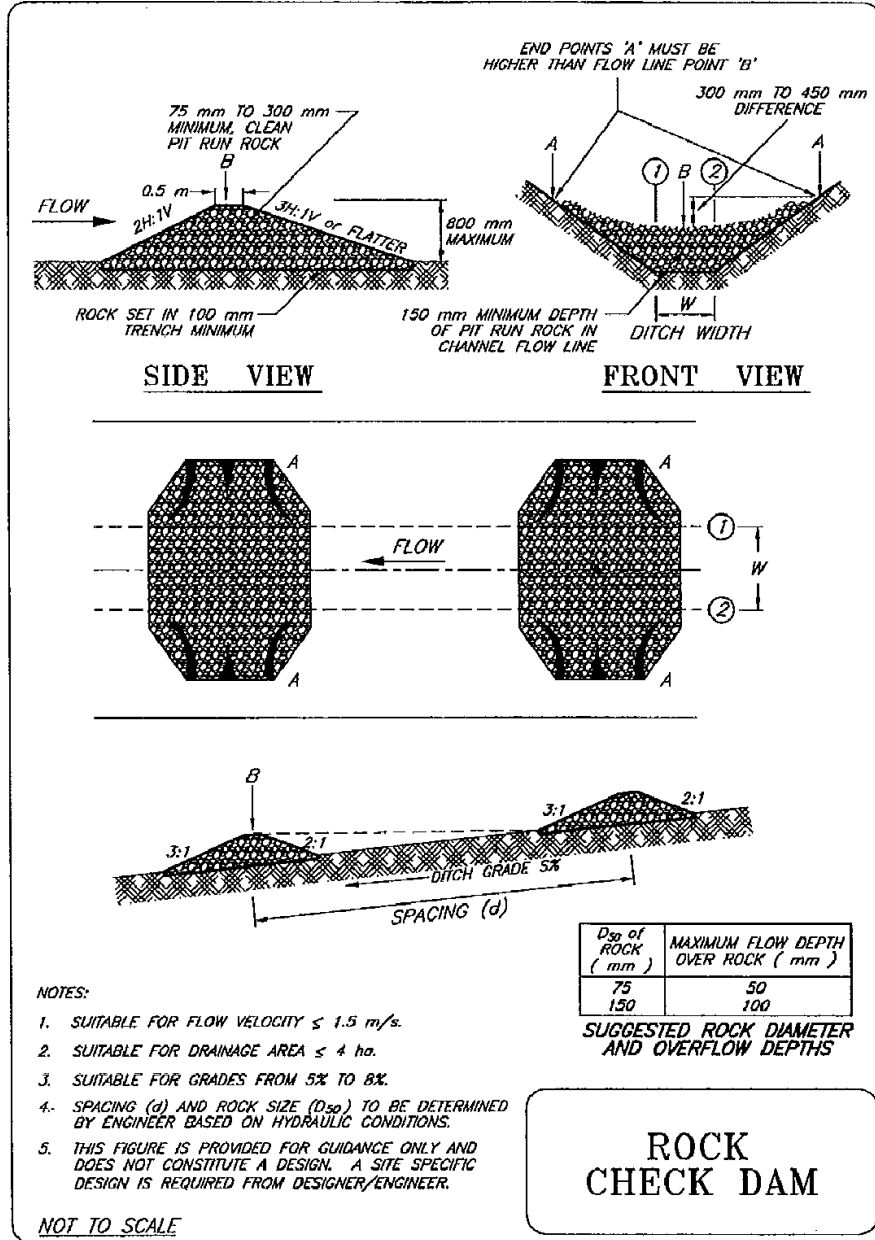


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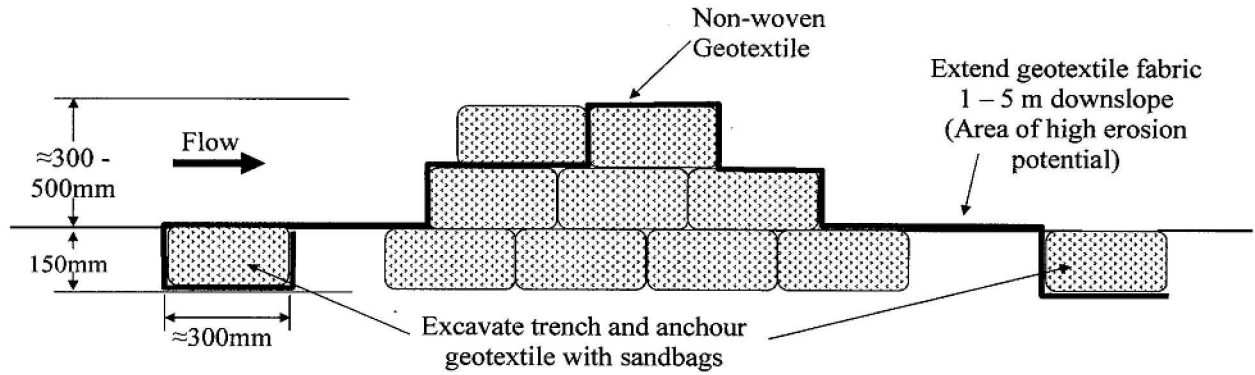


Erosion and Sediment Control

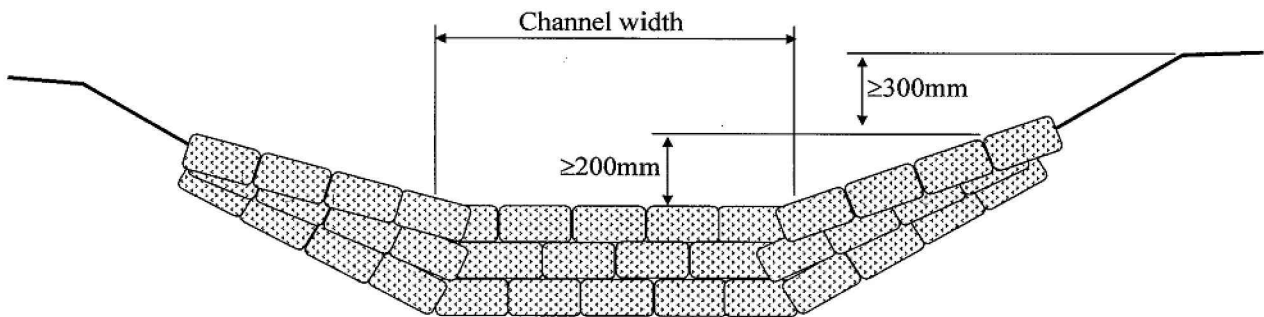
Figure EC BMP #9.3. Rock Check Dams Typical Drawing (Alberta Transport, 2003)



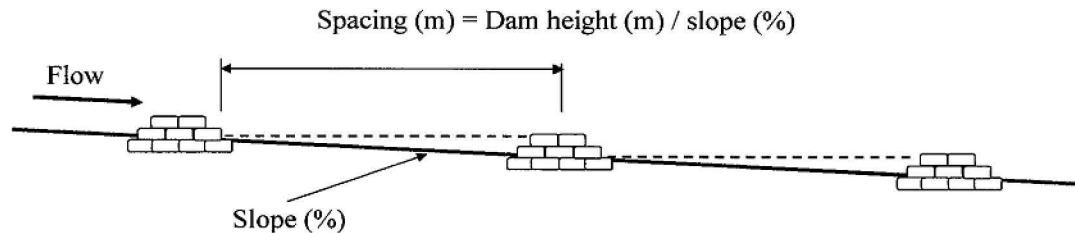
## SECTION VIEW THROUGH DAM



## SECTION VIEW THROUGH DAM



## TYPICAL SPACING FOR SANDBAG DAMS IN DITCH



### NOTES:

- Excavate 150mm deep trench full width of dam base.
- Wrap dam with non-woven geotextile (as shown) to increase dam stability.
- Ditch immediately downstream of dam prone to erosion. If non-woven geotextile is not installed as shown, erosion resistant apron must be placed to prevent erosion at this point.
- Ditch must have sufficient depth and be configured to ensure all flow remains within channel
- Ditch slope  $\leq 5\%$
- Drainage area  $\leq 2$  ha
- Remove accumulated sediment

VOI Environmental, 2006. *Erosion and Sediment Control – Participant's Manual*. Prepared for Vancouver Island University Natural Resources Extension Program.

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SANDBAG DITCH DAM

DRAWING NO.  
**CR-ES108**

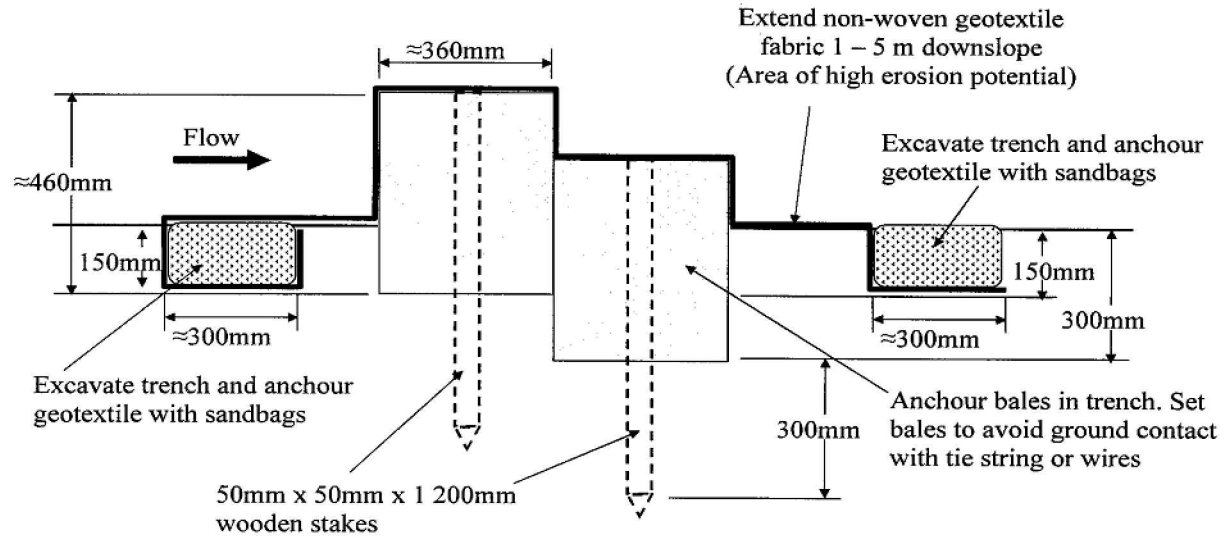
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SHEET OF

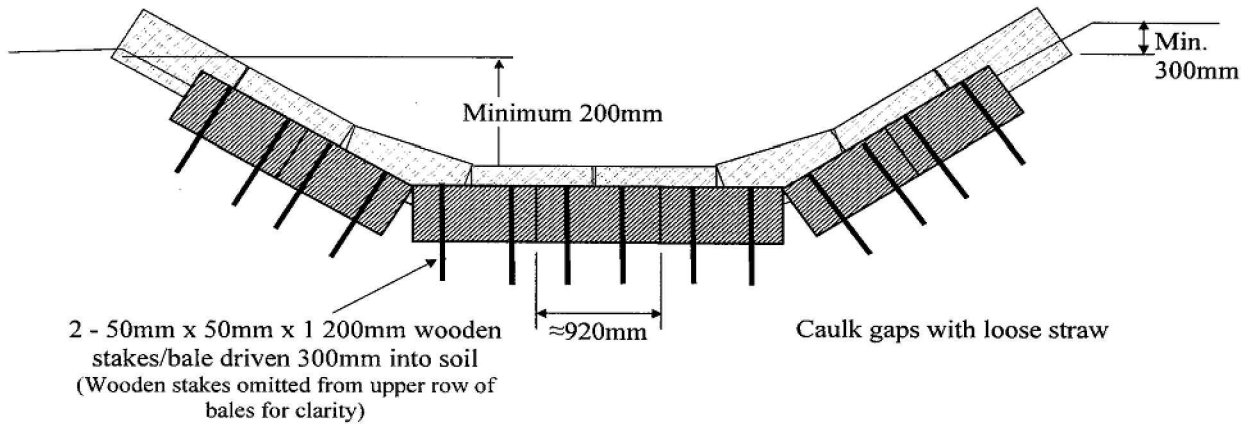
REV. 1



### SECTION VIEW THROUGH DAM

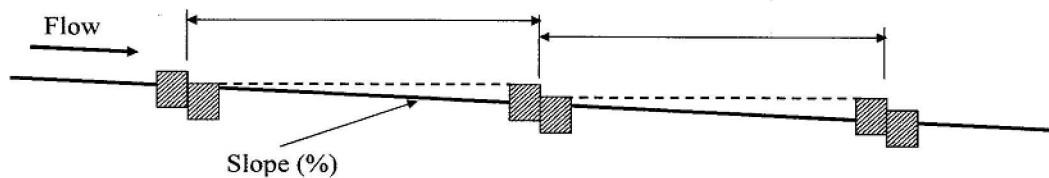


### SECTION VIEW THROUGH DAM



### TYPICAL SPACING FOR DAMS IN DITCH

$$\text{Spacing} = (\text{Bale height} - 150\text{mm}) / \text{slope} (\%)$$



#### NOTES:

- One bale high (maximum 500mm)
- Maximum effective dam height is 300 mm.
- Ditch must have sufficient depth and be configured to ensure all flow remains within channel
- Ditch slope ≤5%
- Drainage area ≤2 ha
- Flow velocity ≤0.3 m/s

VOI Environmental, 2006, *Erosion and Sediment Control – Participant's Manual*, Prepared for Vancouver Island University Natural Resources Extension Program.

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STRAW BAIL DITCH DAM

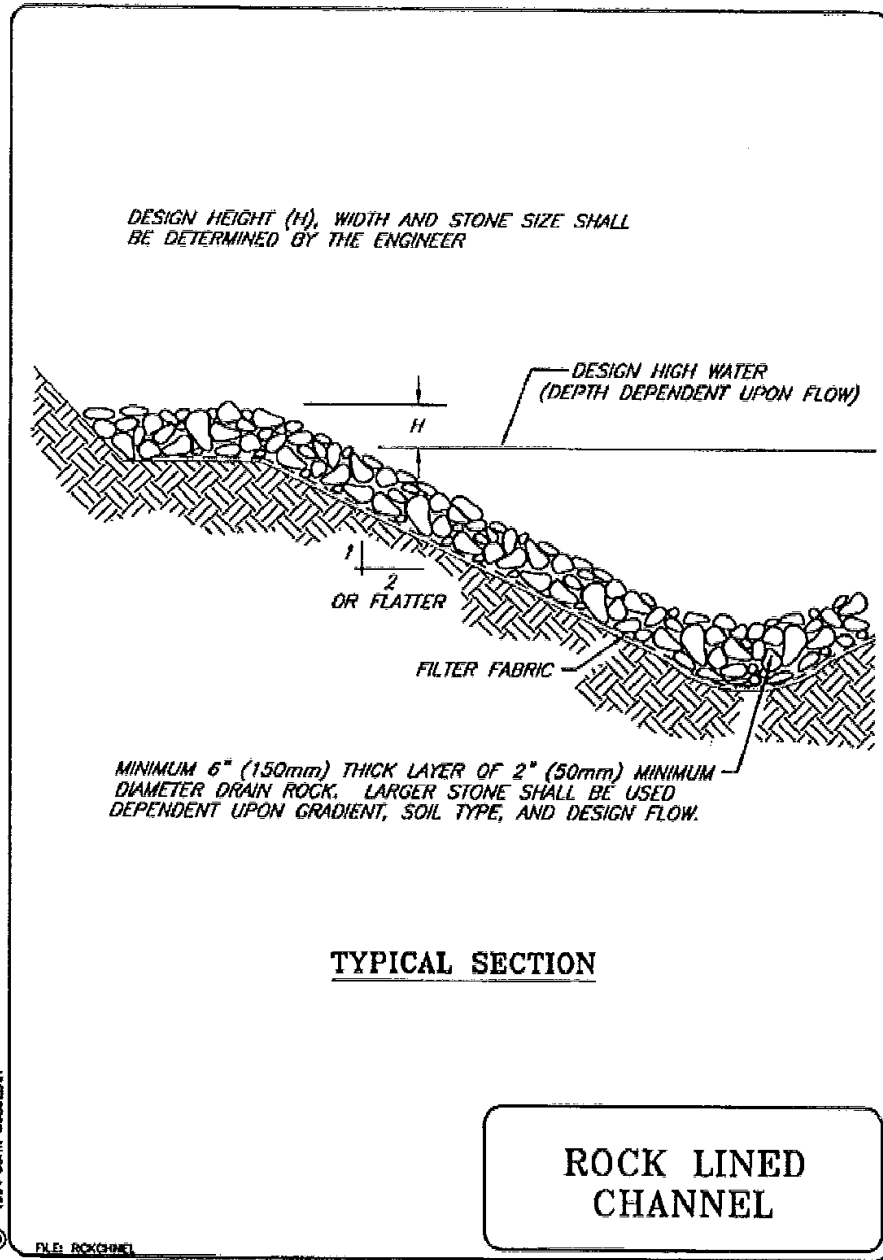
DRAWING NO.  
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DISK REF.

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Figure EC BMP #12.4. Rock-Lined Channel Typical Drawing



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ROCK LINED CHANNEL

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**CR-ES110**

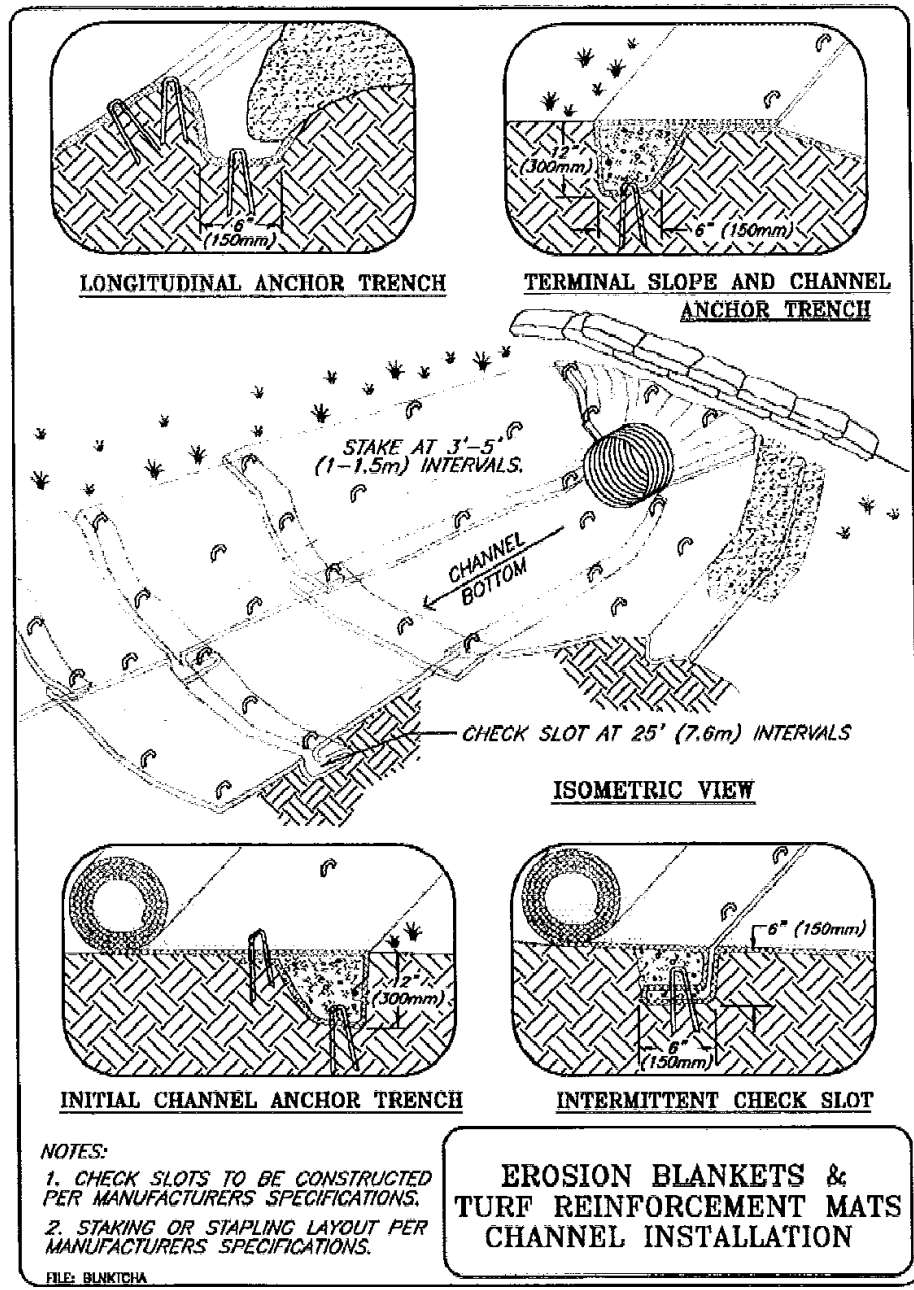
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*Erosion and Sediment Control*

Figure EC BMP #13.4. Rolled Erosion Control Products: Channel Installation Typical Drawing



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CHANNEL INSTALLATION

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Figure EC BMP #15.3. Slope Drain Typical Drawing

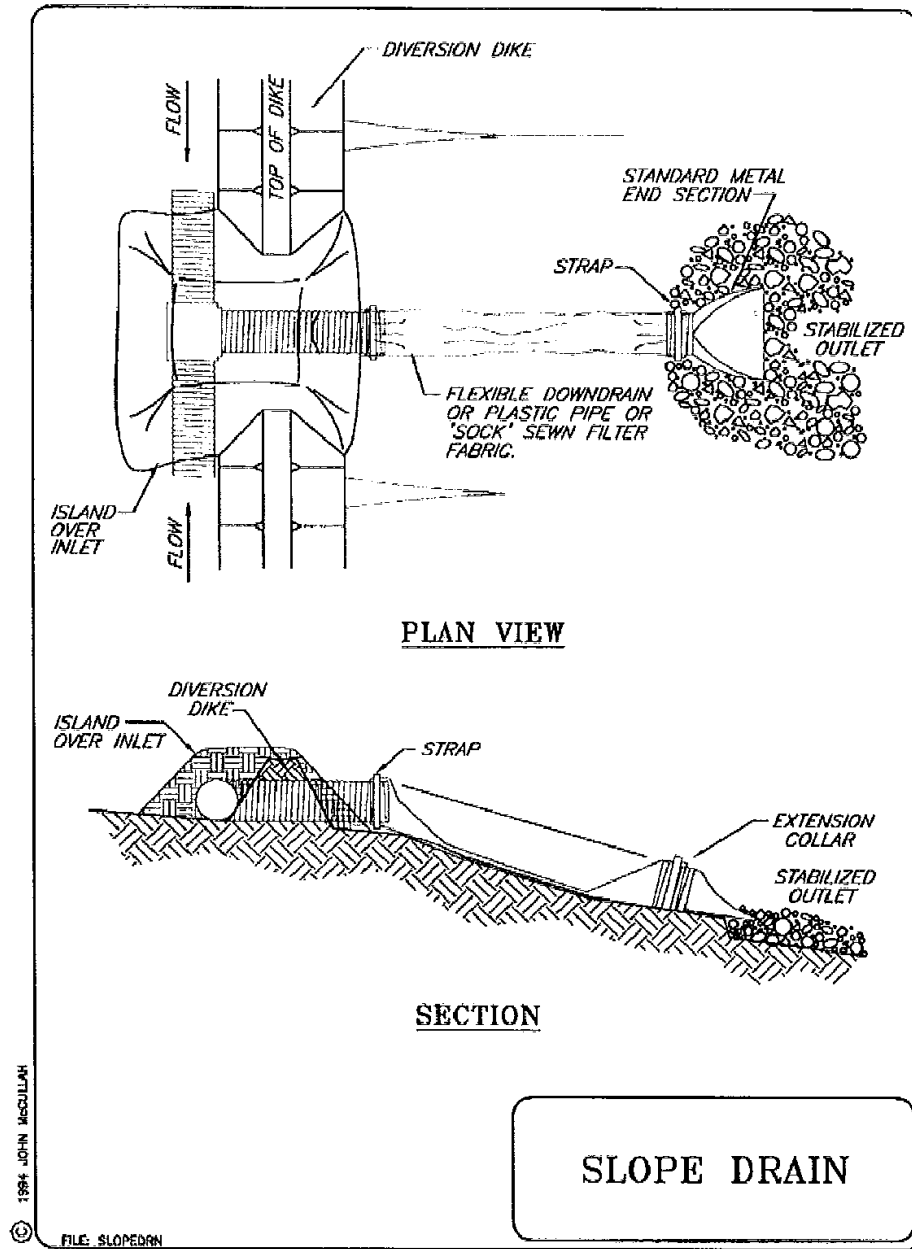
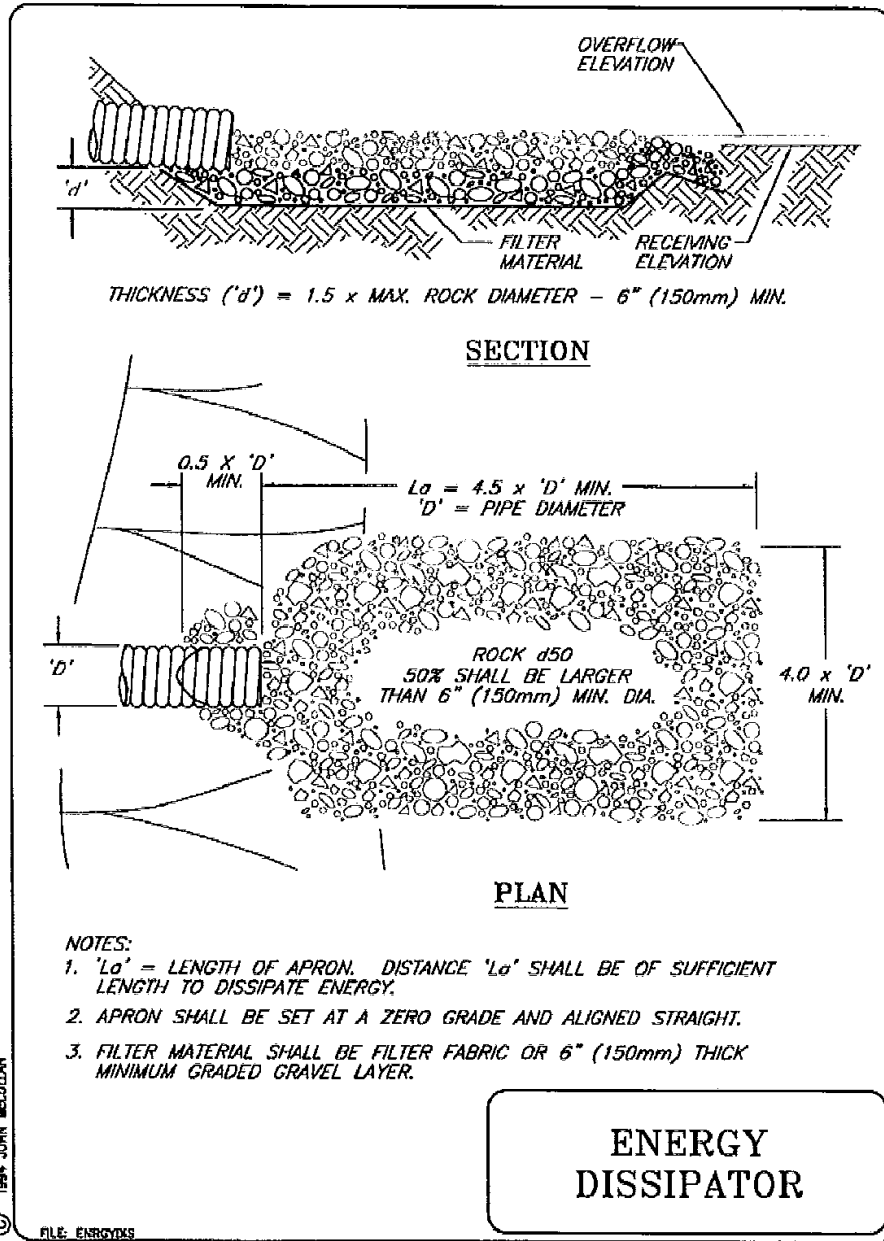


Figure EC BMP #16.2. Energy Dissipater Typical Drawing



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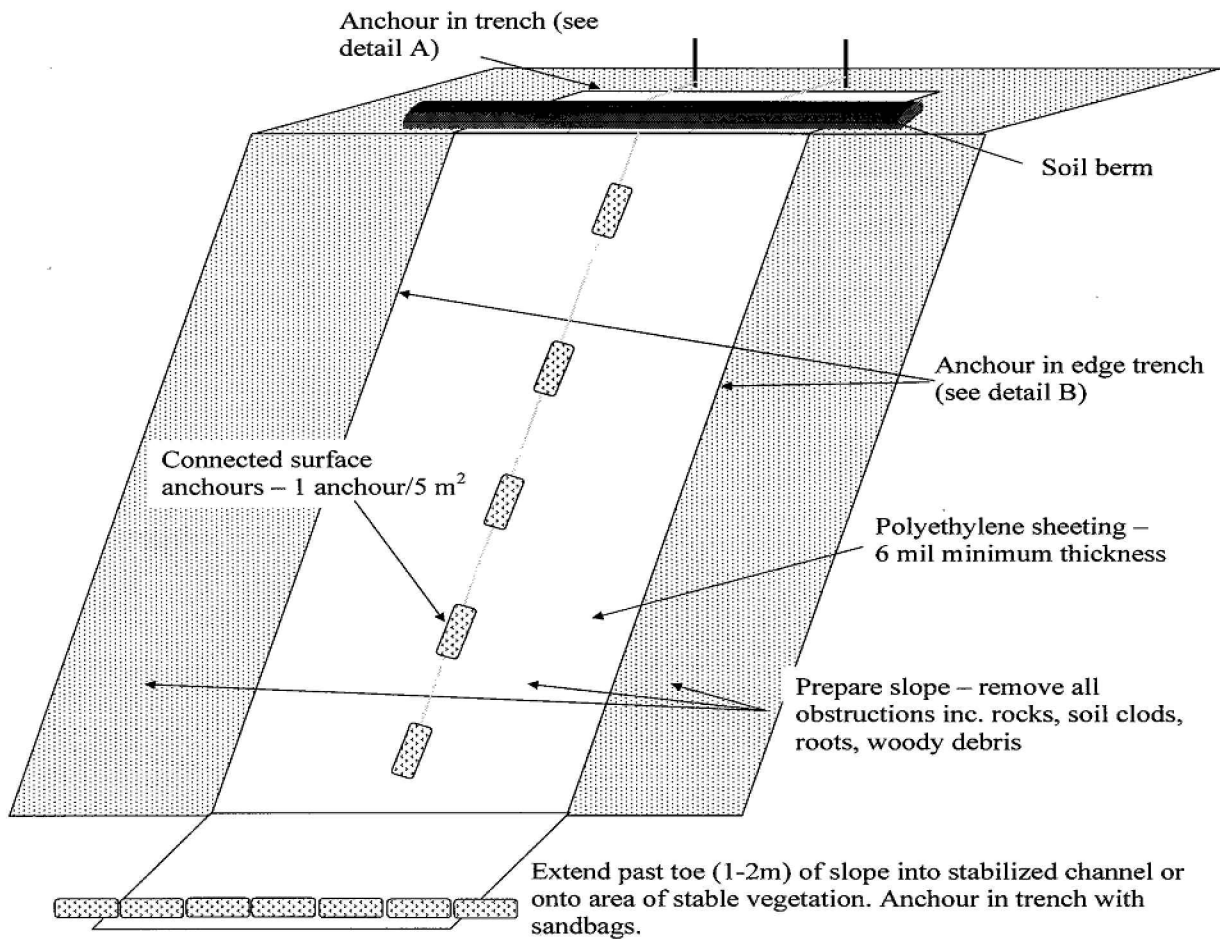
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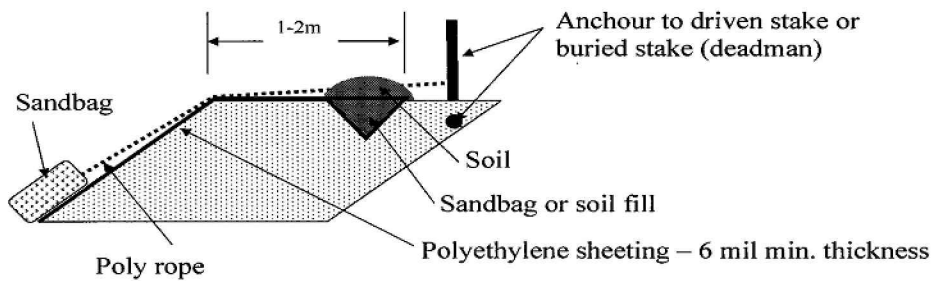
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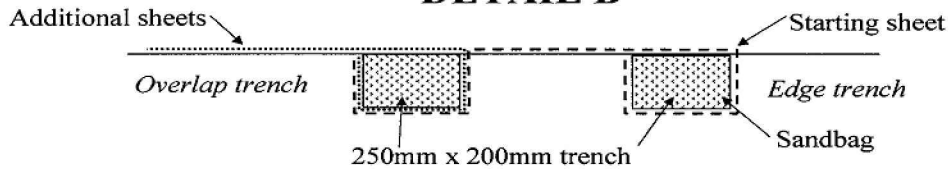
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**DETAIL A**



**DETAIL B**



VOI Environmental, 2006. *Erosion and Sediment Control - Participant's Manual*. Prepared for Vancouver Island University Natural Resources Extension Program.

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POLYETHYLENE SHEETING ON SLOPES

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**CR-ES114**  
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*Erosion and Sediment Control*

Figure SC BMP #1.4. Sediment Fence: Typical Placement for Two Slopes

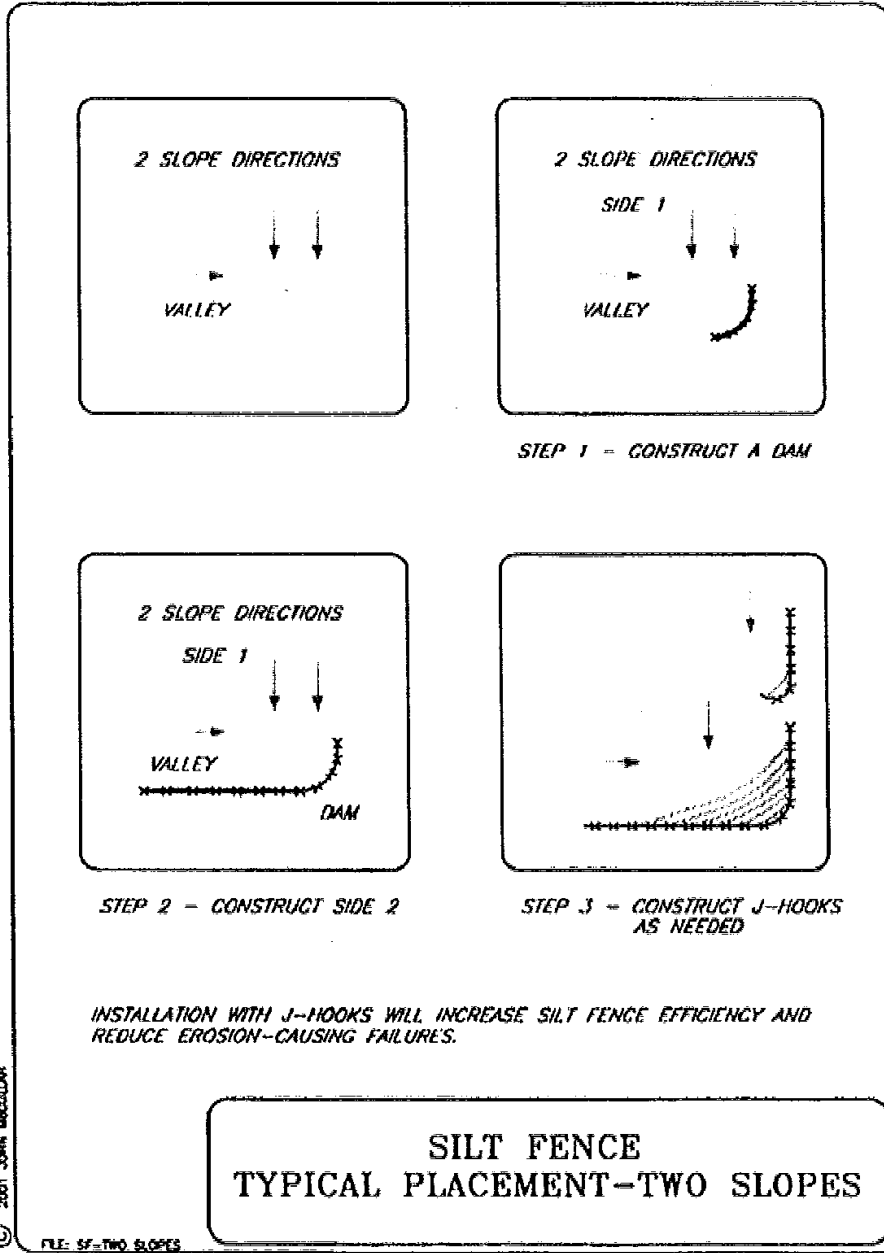
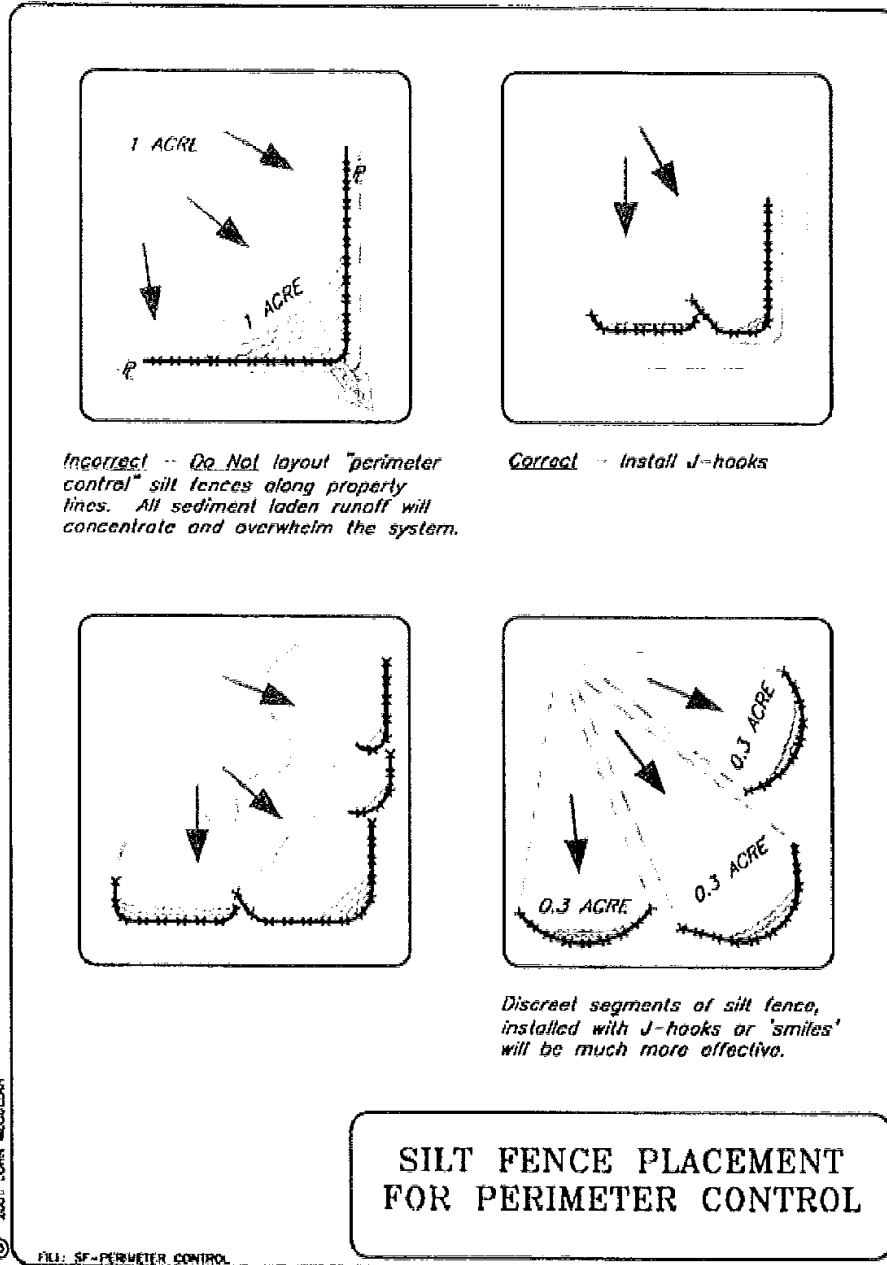


Figure SC BMP #1.5. Sediment Fence: Typical Placement for Perimeter Control



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SEDIMENT FENCE PLACEMENT  
 FOR PERIMETER CONTROL

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**CR-ES116**

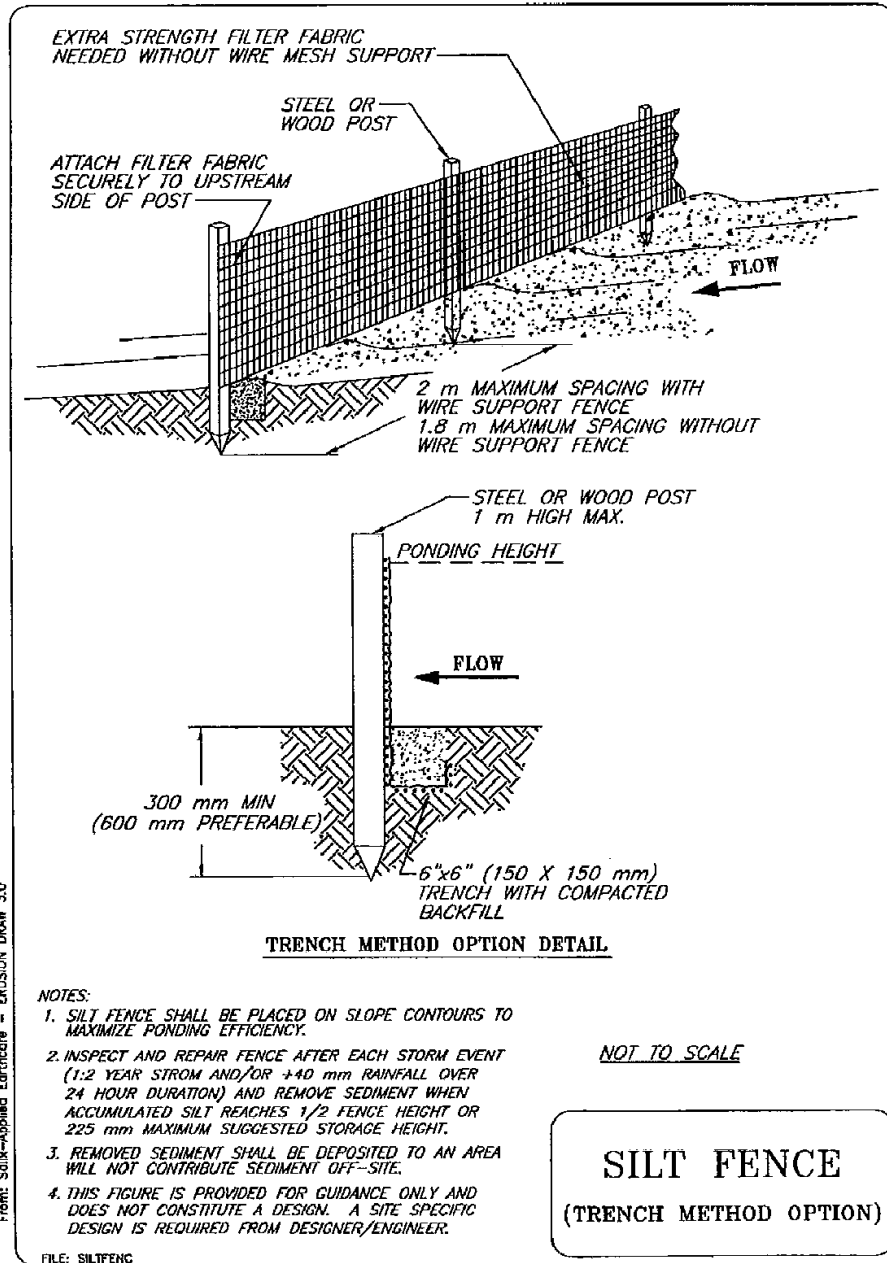
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Figure SC BMP #1.6. Sediment Fence Installation – Trench Method Typical Drawing (Alberta Transport, 2003)



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SEDIMENT FENCE  
TRENCH METHOD OPTION

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**CR-ES117**

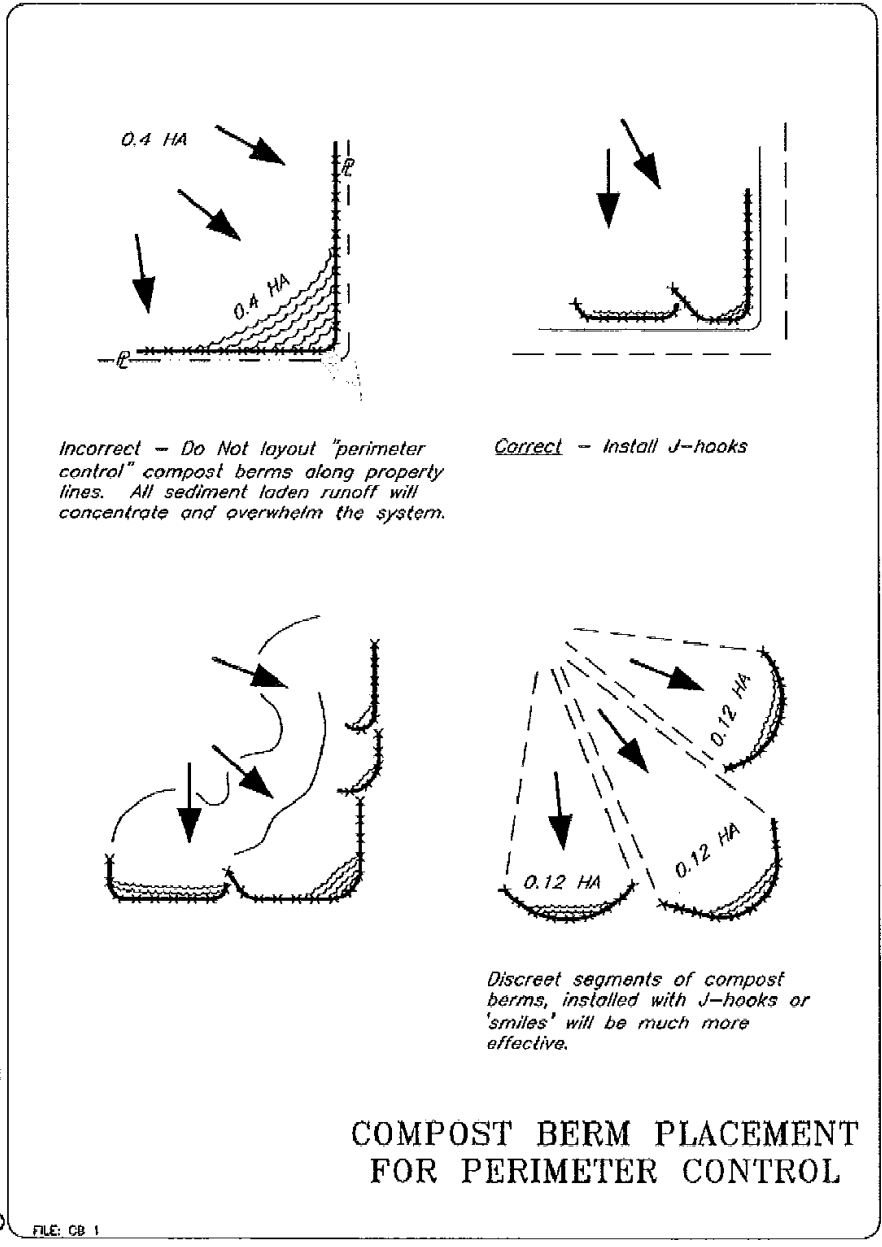
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*Erosion and Sediment Control*

Figure SC BMP #2.5. Compost Berm: Placement for Perimeter Control



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COMPOST BERM PLACEMENT  
FOR PERIMETER CONTROL

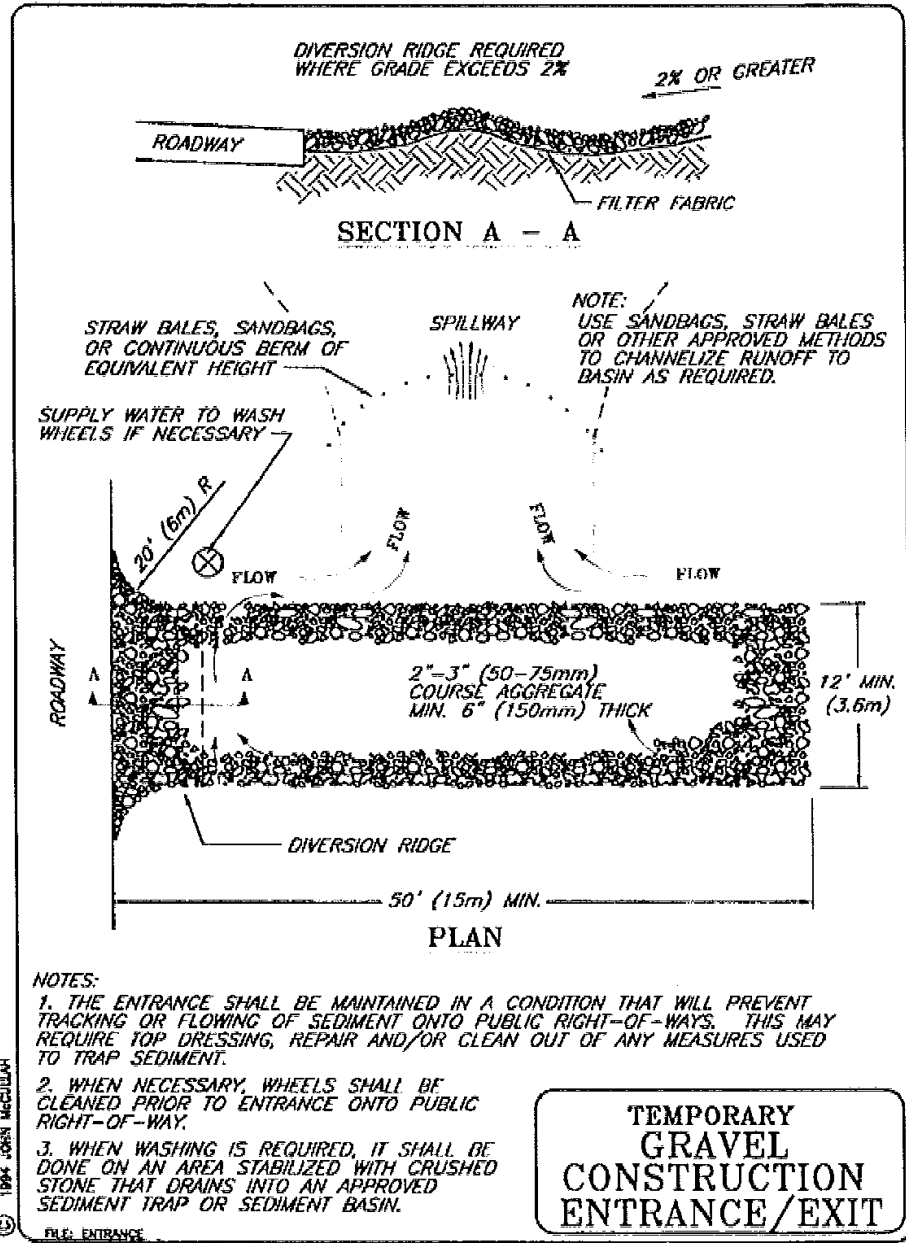
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**CR-ES118**

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Figure SC BMP #5.2. Stabilized Worksite Entrance Typical Drawing



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TEMPORARY GRAVEL CONSTRUCTION  
ENTRANCE/EXIT

DRAWING NO.  
**CR-ES119**

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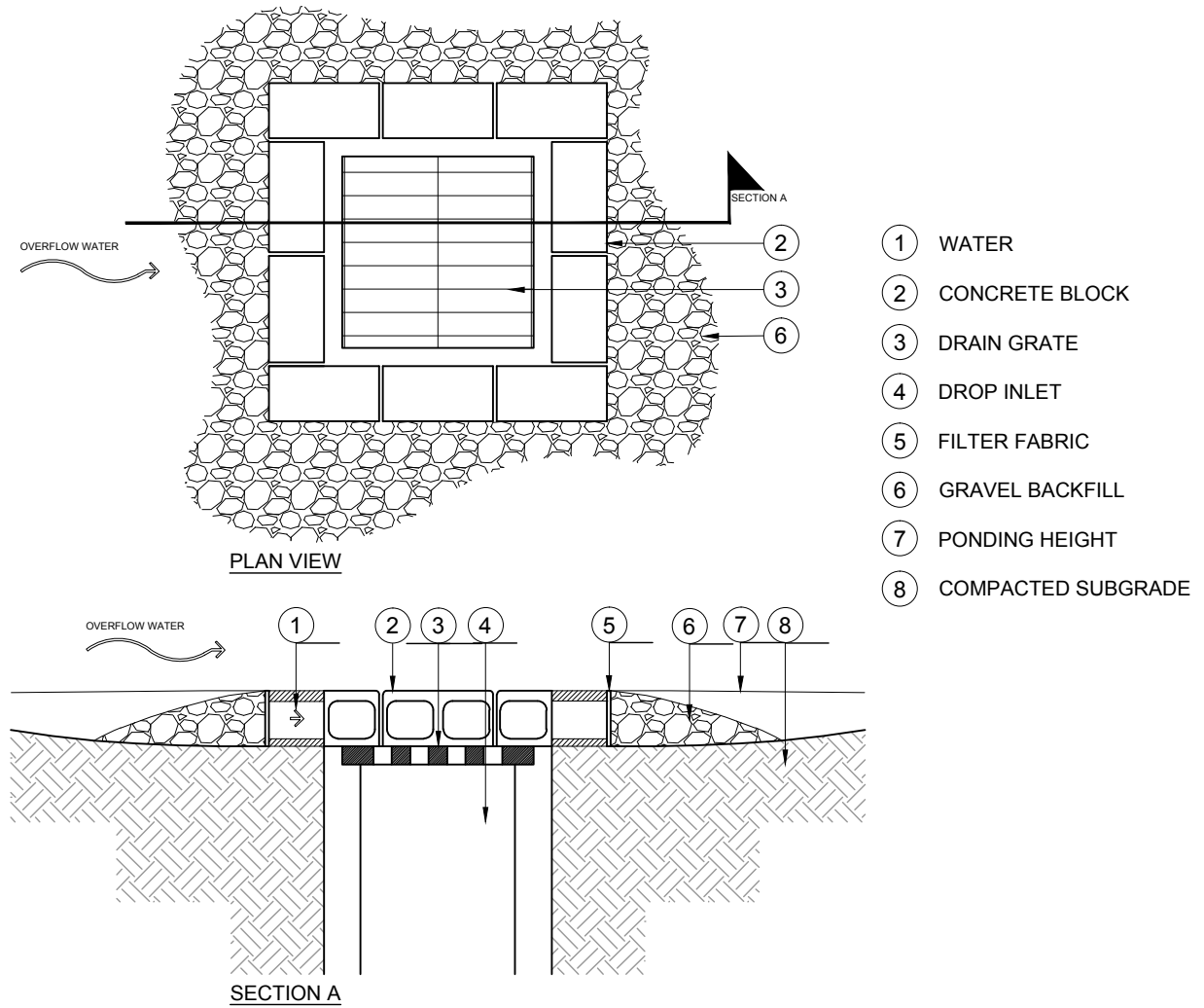
REV. 1

**NOTES:**

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREA (LESS THAN 5%).

2. EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE DROP INLET.

3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.



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**BLOCK AND GRAVEL  
DROP INLET SEDIMENT  
BARRIER**

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**CR-ES120**

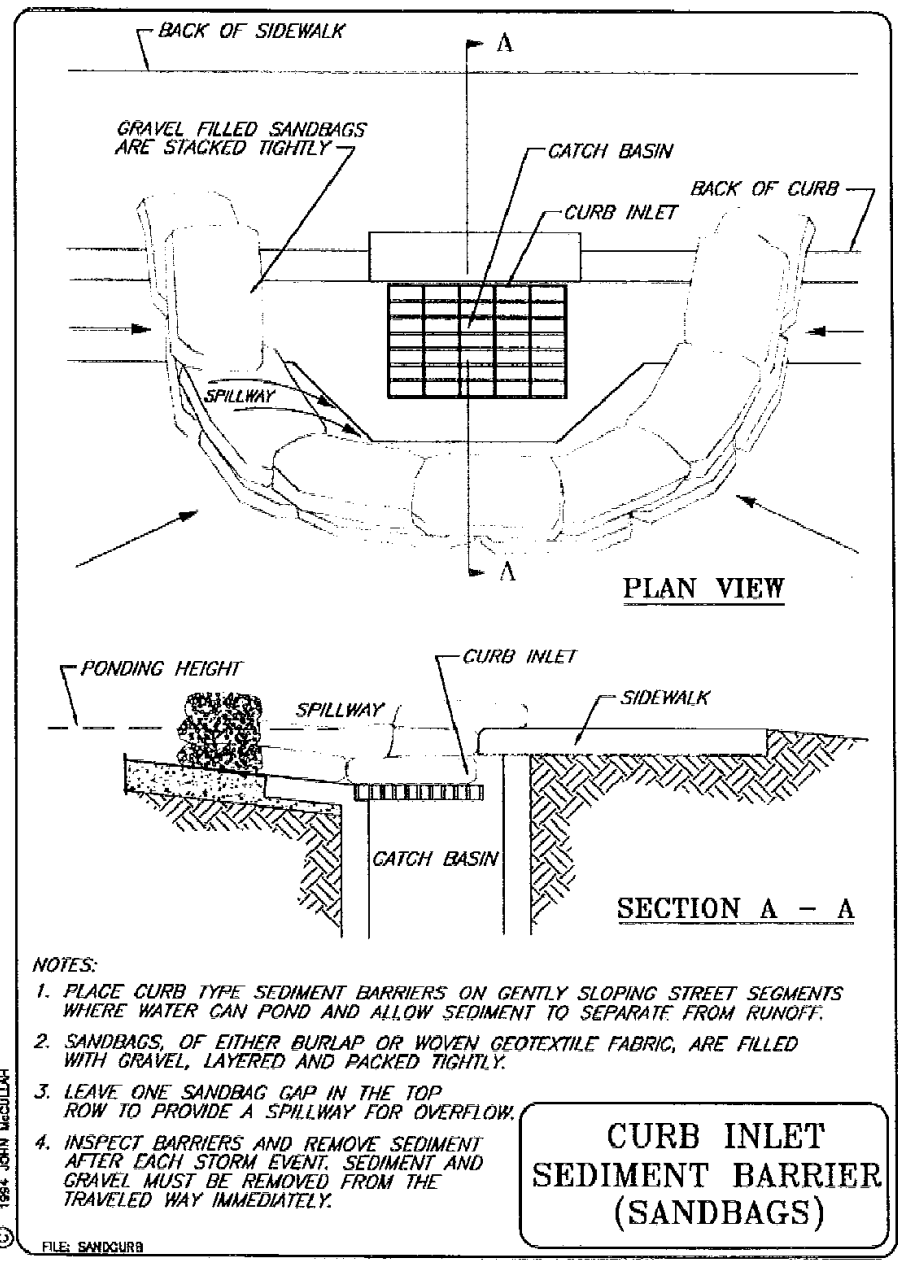
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*Erosion and Sediment Control*

Figure SC BMP #7.3. Curb Inlet Sediment Barrier: Sandbags Typical Drawing



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**CURB INLET  
SEDIMENT BARRIER  
(SANDBAGS)**

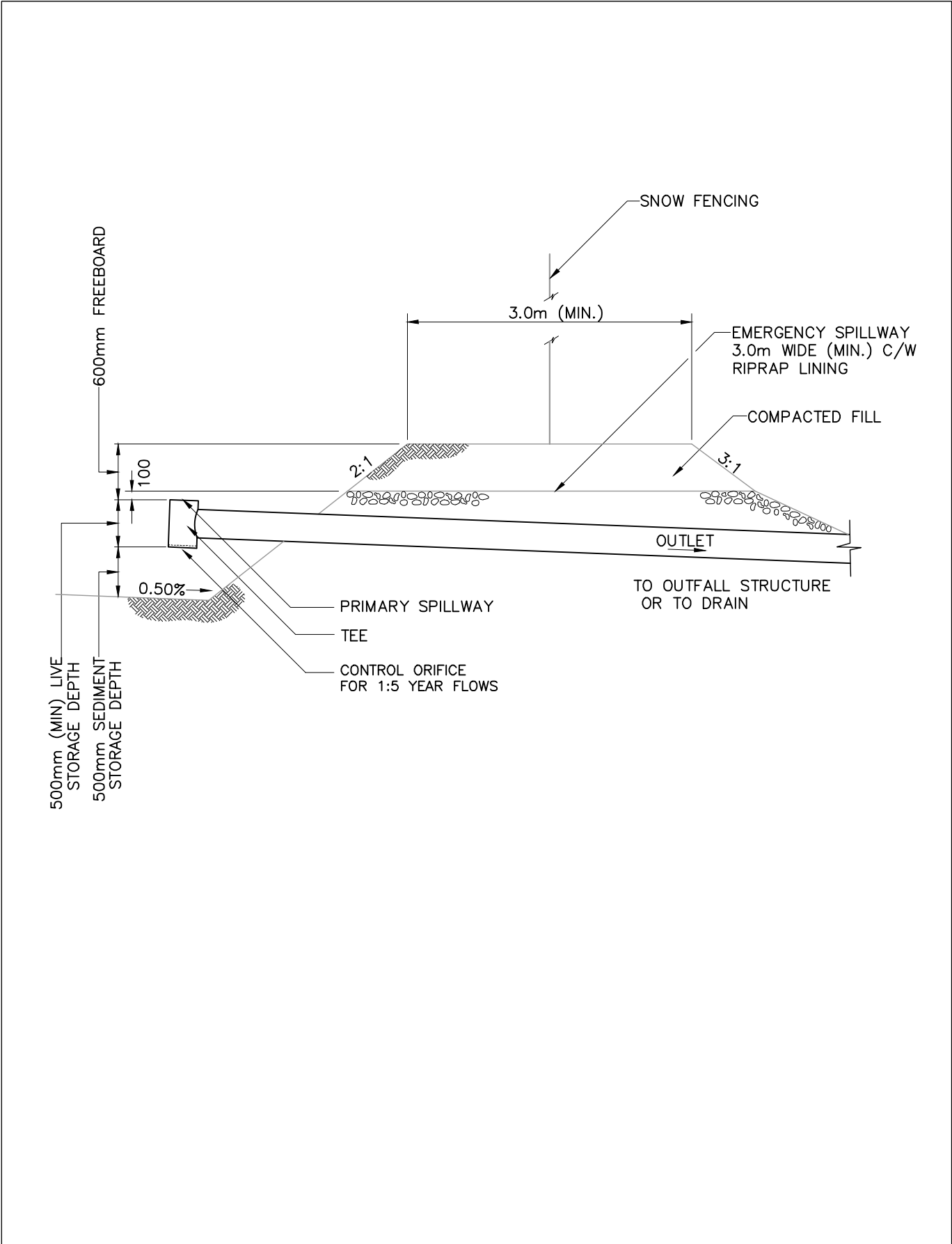
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EROSION & SEDIMENT CONTROLS  
**SEDIMENT CONTROL BASIN  
SECTION**

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**CR-ES122**

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