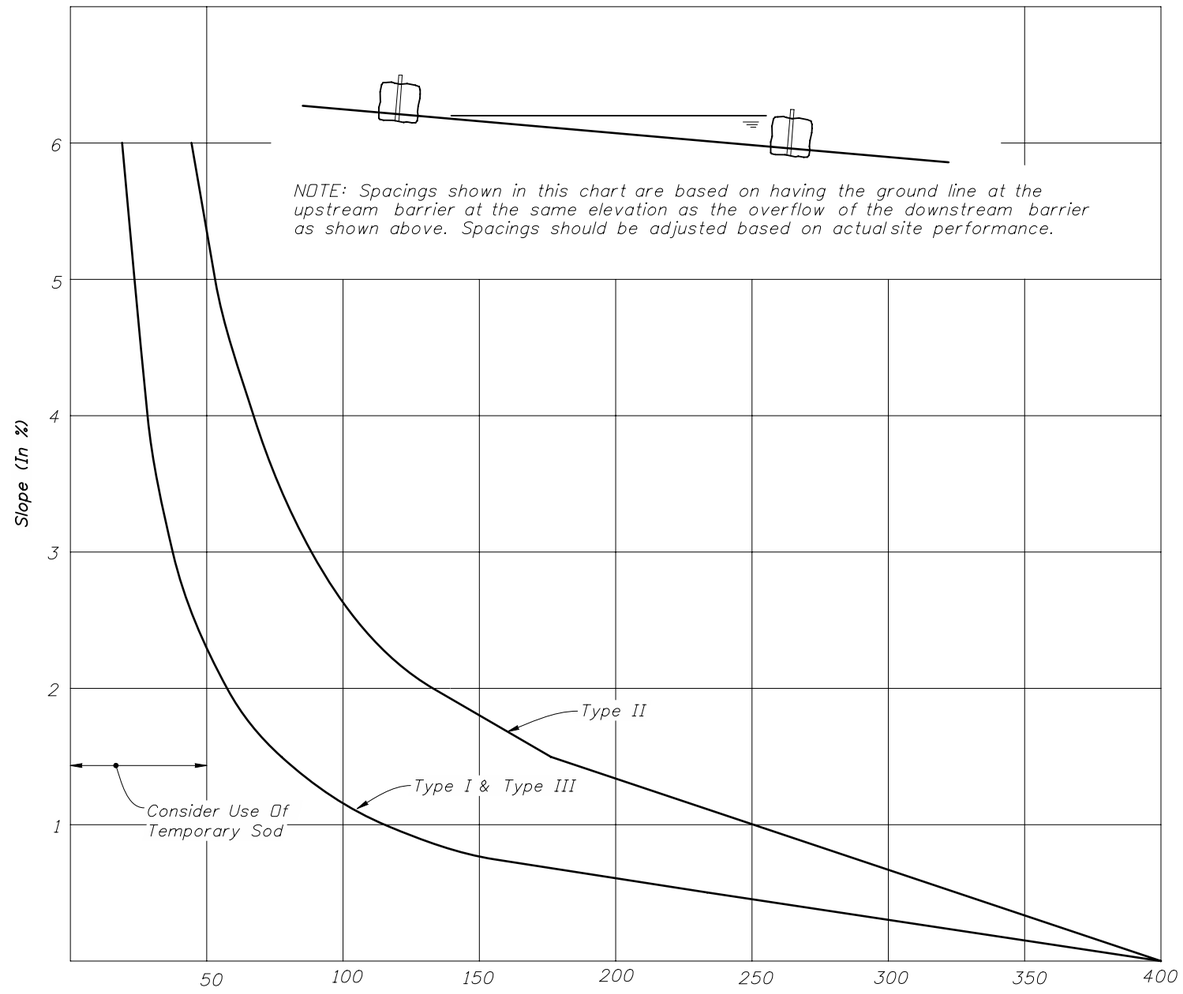
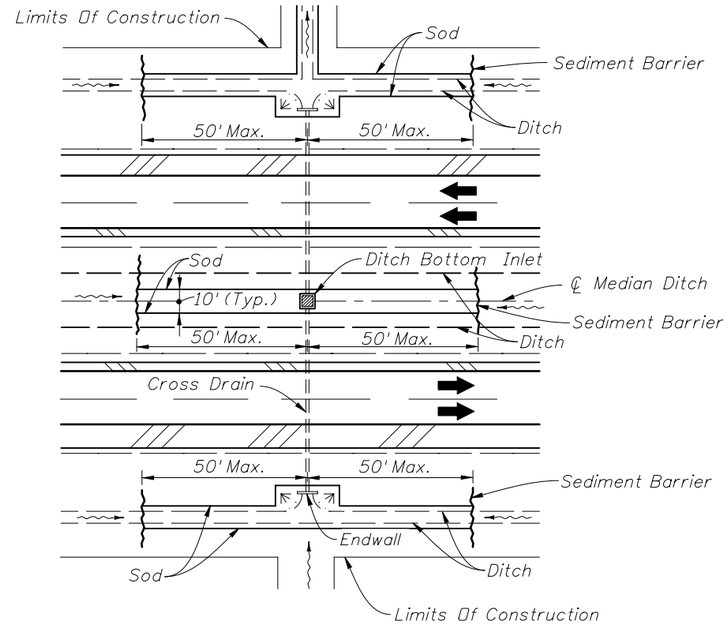


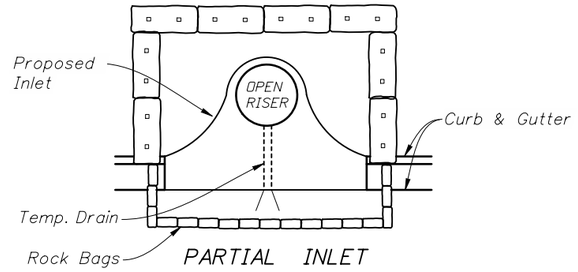
CHART I

RECOMMENDED SPACING FOR SEDIMENT BARRIERS

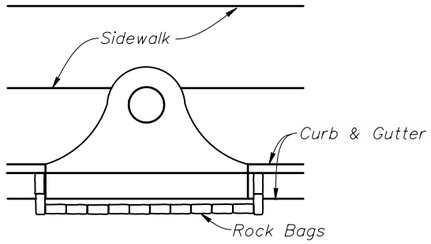


DITCH INSTALLATIONS AT DRAINAGE STRUCTURES

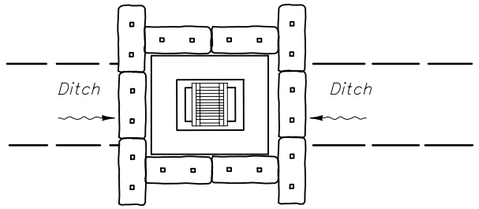
REVISIONS						2010 Interim Design Standard	Interim Date	Sheet No.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			
01/01/10	LLS	Changed CHART I title and replaced "Silt" with "Sediment"				TEMPORARY EROSION AND SEDIMENT CONTROL	01/01/10	1 of 3
							Index No.	102



PARTIAL INLET

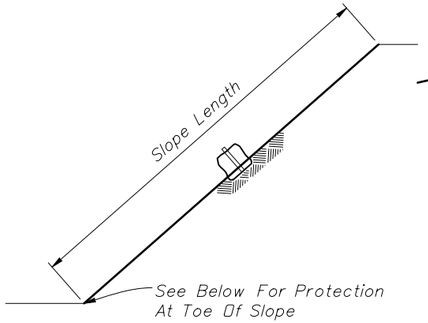


COMPLETED INLET



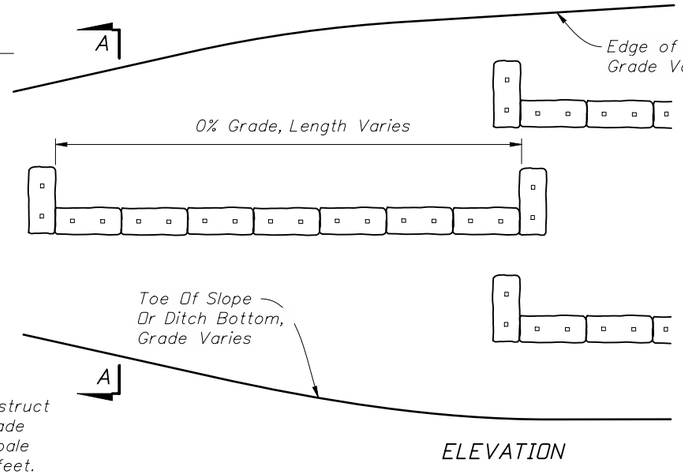
DITCH BOTTOM INLET

PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



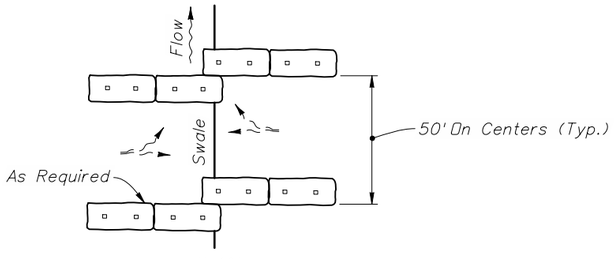
SECTION AA

Note:
Where the slope length exceeds 25 feet, construct one row of bale barriers at 0% longitudinal grade midway up the slope. Construct two rows of bale barriers where the slope length exceeds 50 feet.

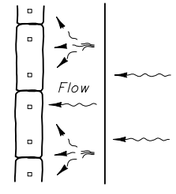


ELEVATION

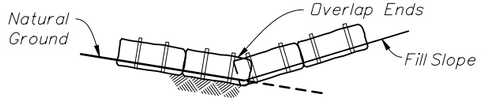
ALONG FILL SLOPE



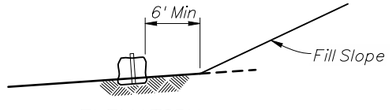
PLAN



PLAN

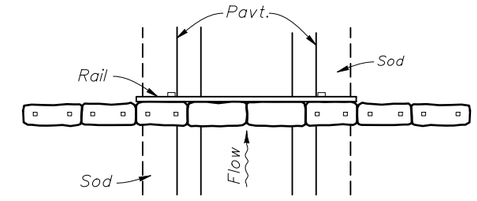


ELEVATION
TO BE USED WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

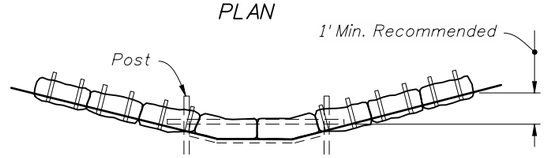


ELEVATION
TO BE USED WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

AT TOE OF SLOPE
BARRIERS FOR FILL SLOPES

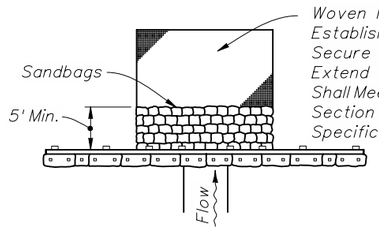


PLAN



ELEVATION

SYNTHETIC BALES OR BALE TYPE BARRIERS FOR PAVED DITCHES

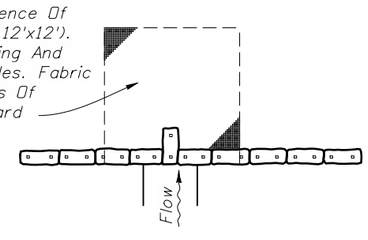


PLAN

Woven Filter Fabric In Absence Of Established Grass (Approx. 12'x12'). Secure Edges By Entrenching And Extend Under Bags and Bales. Fabric Shall Meet The Requirements Of Section 985 Of The Standard Specifications.

Anchor Top Bales To Lower Bales With 2 Stakes Per Bale.

ELEVATION
TYPE II



PLAN

ELEVATION
TYPE I

SYNTHETIC BALES OR BALE TYPE BARRIERS FOR UNPAVED DITCHES

NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS

1. Type I and II Synthetic Barrier should be spaced in accordance with Chart 1, Sheet 1.
2. Bales shall be anchored with 2-1" x 2" (or 1" dia.) x 4' wood stakes. Stakes of other material or shape providing equivalent strength may be used if approved by the Engineer. Stakes other than wood shall be removed upon completion of the project.
3. Rails and posts shall be 2" x 4" wood. Other materials providing equivlalent strength may be used if approved by the Engineer.
4. Adjacent bales shall be butted firmly together.
5. Where used in conjunction with silt fence, bales shall be placed on the upstream side of the fence.
6. Bales to be paid for under the contract unit price for Synthetic Bales, LF. The unit price shall include the cost of filter fabric for Type I and II Barriers. Sandbags shall be paid for under the unit price for Sandbagging, CY. Rock bags to be paid for under the contract unit price for Rock Bags, EA.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
01/01/10	LLS	Updating Index			

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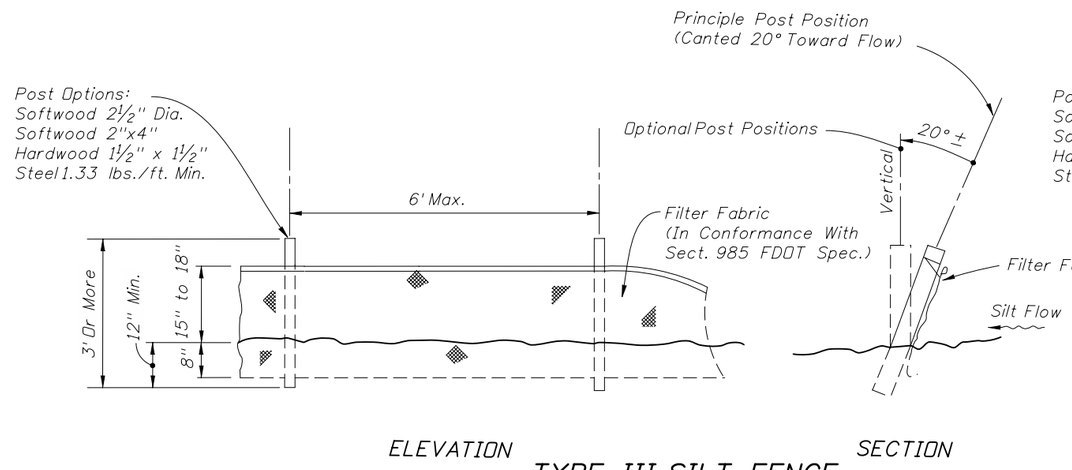
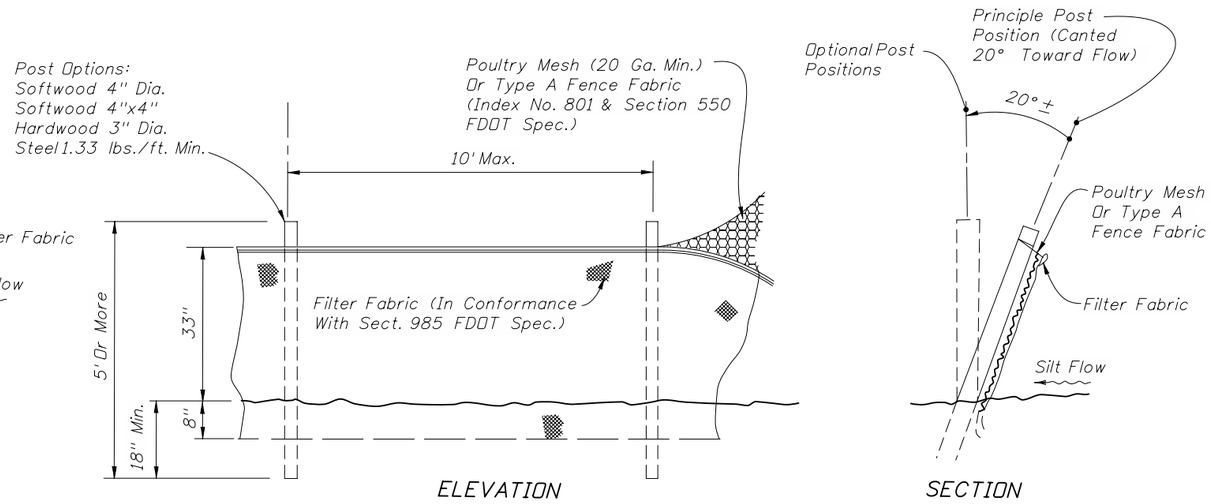
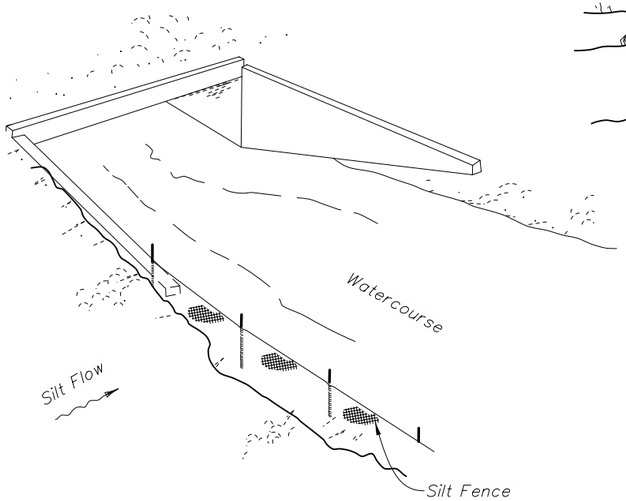
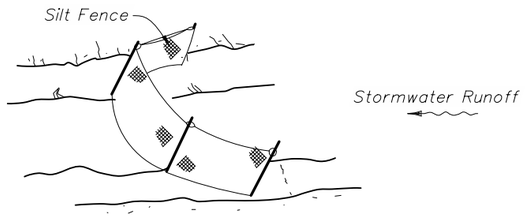


TYPE III SILT FENCE

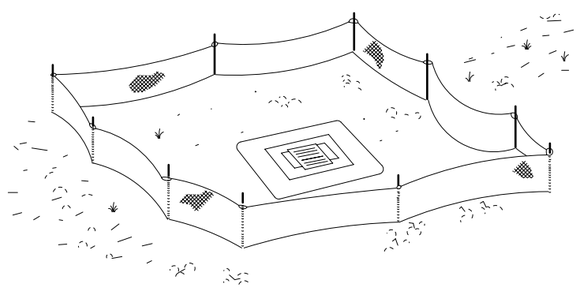


TYPE IV SILT FENCE

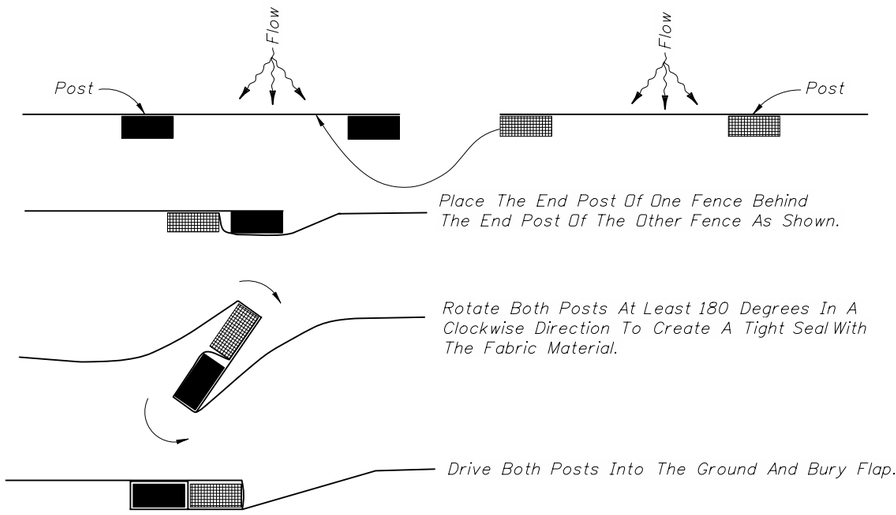




Silt Fence Protection In Ditches With Intermittent Flow



Silt Fence Protection Around Ditch Bottom Inlets



PLAN VIEW

JOINING TWO SILT FENCES

SILT FENCE APPLICATIONS

NOTES FOR SILT FENCES

1. Type III Silt Fence to be used at most locations. Where used in ditches, the spacing for Type III Silt fence shall be in accordance with Chart 1, Sheet 1.
2. Type IV Silt Fence to be used where large sediment loads are anticipated. Suggested use is where fill slope is 1:2 or steeper and length of slope exceeds 25 feet. Avoid use where the detained water may back into travel lanes or off the right of way.
3. Do not construct silt fences across permanent flowing watercourses. Silt fences are to be at upland locations and turbidity barriers used at permanent bodies of water.
4. Where used as slope protection, Silt Fence is to be constructed on 0% longitudinal grade to avoid channelizing runoff along the length of the fence.
5. Silt Fence to be paid for under the contract unit price for Sediment Barrier, (LF).

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
01/01/10	LLS	Updated pay item name in Note 5.			

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