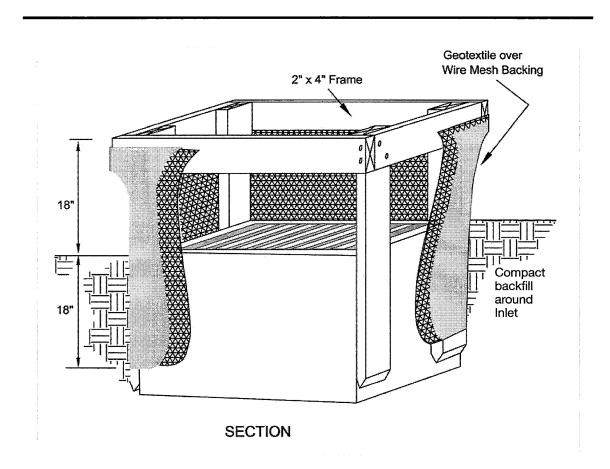
Geotextile Inlet Protection



- land disturbance begins or before the inlet becomes 2. The earth around the inlet shall be excavated completely
- to a depth at least 18 inches. 3. The wooden frame shall be constructed of 2-inch by 4-inch construction grade lumber. The 2-inch by 4-inch posts shall be driven one (1) ft. into the ground at four corners of the inlet and the top portion of 2-inch by 4-inch frame assembled using the overlap joint shown. The top

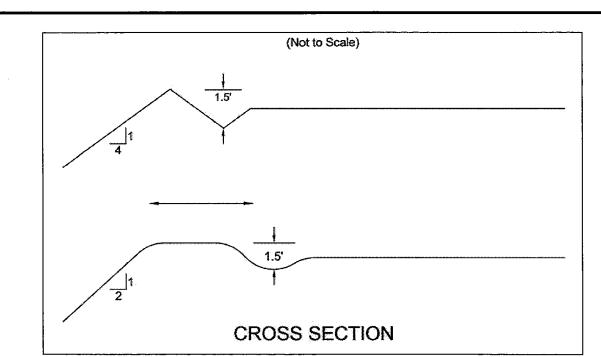
of the frame shall be at least 6 inches below adjacent

roads if ponded water will pose a safety hazard to traffic.

- 4. Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.
- 1. Inlet protection shall be constructed either before upslope 5. Geotextile material shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 inches below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.
 - Backfill shall be placed around the inlet in compacted 6inch layers until the earth is even with notch elevation on ends and top elevation on sides.
 - 7. A compacted earth dike or check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression. The top of the dike shall be at least 6 inches higher than the top of the frame.

Specifications

Temporary Diversion



- 1. Drainage area should not exceed 10 acres. Larger areas 4. The grade may be variable depending upon the topograrequire a more extensive design.
- 2. The channel cross section may be parabolic or trapezoidal. Disk the base of the dike before placing fill. Build the dike 10% higher than designed for settlement. The dike shall be compacted by traversing with tracked earth-moving equipment.
- 3. The minimum cross section of the levee or dike will be as follows: (Minimum design freeboard shall be 0.3 foot.) Where construction traffic will cross, the top width may be made wider and the side slopes flatter than specified

Table 5.3.2

Dike Top Width (ft.)	Height (ft.)	Side Slopes	Shape
0	1.5	4.1	Trapezoidal
4	4.5	0.1	Davahalla

phy, but must have a positive drainage to the outlet and be stabilized to be non-erosive.

Table 5.3.3

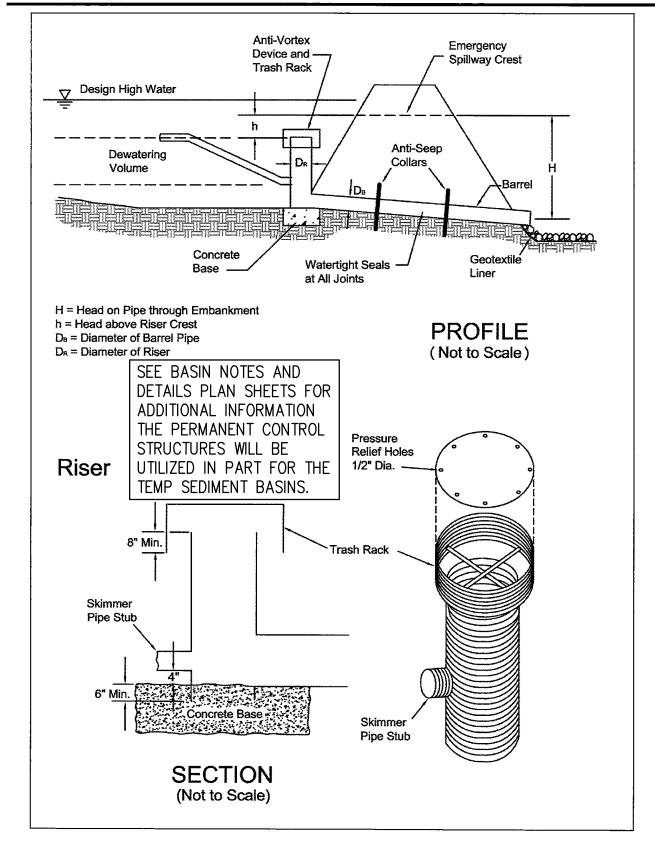
Tem	porary Diversion S	Stabilization Treat	ment	
Diversion Slope	< 2 ac.	2 - 5 ac.	5 - 10 ac.	
0 - 3%	Seed and Straw	Seed and Straw	Seed and Straw	
3 - 5%	Seed and Straw	Seed and Straw	Matting	
5 - 8%	Seed and Straw	Matting	Matting	
8 - 20%	- 20% Seed and Straw Matting Engineered			
beyond t	he scope of this sta	es or greater drainage ndard and must be c natting used shall me	lesigned for	

Specifications for Temporary Seeding, Mulching and Matting.

- 5. Outlet runoff onto a stabilized area, into a properly designed waterway, grade stabilization structure, or sediment trapping facility.
- 6. Diversions shall be seeded and mulched in accordance with the requirements in practice standards TEMPORARY SEEDING (or PERMANENT SEEDING) and MULCHING as soon as they are constructed or other suitable stabilization in order to preserve dike height and reduce maintenance.

Specifications

Sediment Basins



SEE EXTENDED DETENTION BASIN A-F PLAN SHEETS AND BASIN NOTES AND DETAILS PLAN SHEETS FOR ADDITIONAL INFORMATION.

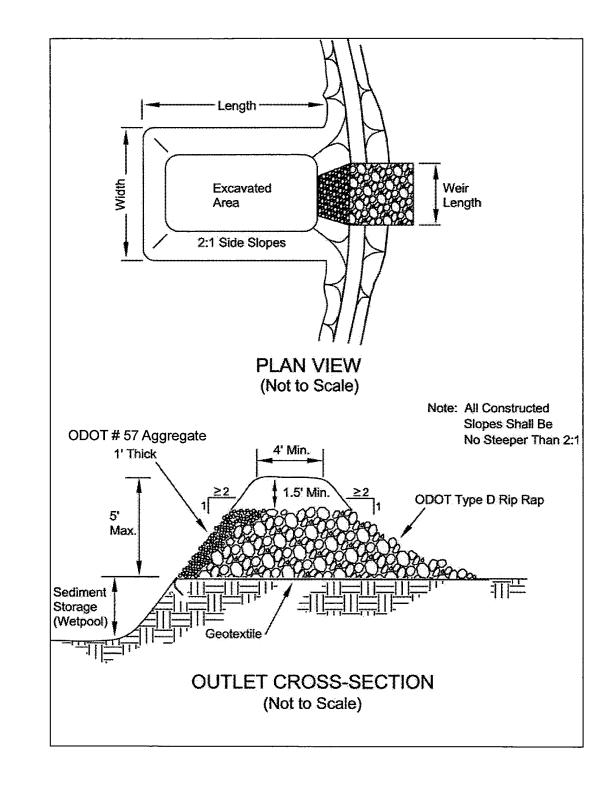
Sediment Basins

- 1. Sediment basins shall be constructed and operational before upslope land disturbance begins.
- be cleared, grubbed, and stripped of any vegetation and root mat. The pool area shall be cleared as needed to facilitate sediment cleanout. Gullies and sharp breaks shall be sloped to no steeper than 1:1. The surface of the foundation area will be thoroughly scarified before placement of the embankment material.
- 3. Cut-Off Trench -The cutoff trench shall be excavated along the centerline of the embankment. The minimum depth shall be 3 ft. unless specified deeper on the plans or as a result of site conditions. The minimum bottom width shall be 4 ft., but wide enough to permit operation 10. Sediment Cleanout -Sediment shall be removed and the of compaction equipment. The trench shall be kept free of standing water during backfill operations.
- 4. Embankment -The fill material shall be free of all sod, roots, frozen soil, stones over 6 in. in diameter, and other fill material shall be started at the lowest point of the foundation and the fill shall be brought up in approximately 6 in. horizontal layers or of such thickness that the required compaction can be obtained with the equipment used. Construction equipment shall be operated over each layer in a way that will result in the required compaction. Special equipment shall be used when the required compaction cannot be obtained without it. The moisture content of fill material shall be such that the required degree of compaction can be obtained with the equipment used.
- 5. Pipe Spillway -The pipe conduit barrel shall be placed on a firm foundation to the lines and grades shown on the plans. Connections between the riser and barrel, the antiseep collars and barrel and all pipe joints shall be watertight. Selected backfill material shall be placed around the conduit in layers and each layer shall be compacted to at least the same density as the adjacent embankment. All compaction within 2 ft. of the pipe spillway will be accomplished with hand-operated tamping equipment.

- 6. Riser Pipe Base -The riser pipe shall be set a minimum of 6 in. in the concrete base.
- 2. Site Preparation -The area under the embankment shall 7. Trash Racks -The top of the riser shall be fitted with trash racks firmly fastened to the riser pipe.
 - 8. Emergency Spillway The emergency spillway shall be cut in undisturbed ground. Accurate construction of the spillway elevation and width is critical and shall be within a tolerance of 0.2 ft.
 - 9. Seed and Mulch -The sediment basin shall be stabilized immediately following its construction. In no case shall the embankment or emergency spillway remain bare for more than 7 days.
 - sediment basin restored to its original dimensions when the sediment has filled one-half the pond's original depth or as indicated on the plans. Sediment removed from the basin shall be placed so that it will not erode.
- objectionable material. The placing and spreading of the 11. Final removal Sediment basins shall be removed after the upstream drainage area is stabilized or as indicated in the plans. Dewatering and removal shall NOT cause sediment to be discharged. The sediment basin site and sediment removed from the basin shall be stabilized.

Specifications

Sediment Trap



Specifications

Sediment Traps

- removal of all sediment traps at the locations designated on the drawings.
- 2. Sediment traps shall be constructed to the dimensions specified on the drawings and operational prior to upslope land disturbance.
- 3. The area beneath the embankment shall be cleared, grubbed and stripped of vegetation to a minimum depth of six (6) inches. The pool shall be cleared as needed to facilitate sediment cleanout.
- 4. Fill used for the embankment shall be evaluated to assure its suitability and it must be free of roots or other woody vegetation, large rocks, organics or other objectionable materials. Fill material shall be placed in six (6) inch lifts and shall be compacted by traversing with a sheepsfoot or other approved compaction equipment. Fill height shall be increased five (5) percent to allow for structure/foundation settlement. Construction shall not be permitted if either the earthfill or compaction surface is frozen.
- 5. The maximum height of embankment shall be five (5) feet. All cut and fill slopes shall be 2:1 (H:V) or flatter.
- 6. A minimum storage volume below the crest of the outlet of 67 yd³. for every acre of contributing drainage area shall be achieved at each location noted on the drawings with additional sediment storage volume provided below this elevation.

- 1. Work shall consist of the installation, maintenance and 7. Temporary seeding shall be established and maintained over the useful life of the practice.
 - 8. The outlet for the sediment trap structure shall be constructed to the dimensions shown on the drawings.
 - 9. The outlet shall be constructed using the materials specified on the drawings. Where geotextile is used, all overlaps shall be a minimum of two (2) feet or as specified by the manufacturer, whichever is greater. All overlaps shall be made with the upper most layer placed last. Geotextile shall be keyed in at least 6" on the upstream side of the
 - 10. Warning signs and safety fence shall be placed around the traps and maintained over the life of the practice.
 - 11. After all sediment-producing areas have been permanently stabilized, the structure and all associated sediment shall be removed. Stabile earth materials shall be placed in the sediment trap area and compacted. The area shall be graded to blend in with adjoining land surfaces and have positive drainage. The area shall be immediately seeded.



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REV.	REV. DATE	DESCRIPTION
-	06/02/14	06/02/14 REVISED PER LOCAL AGENCY COMMENTS
2	06/27/14	06/27/14 REVISED PER LOCAL AGENCY COMMENTS
3	07/18/14	07/18/14 REVISED PER LOCAL AGENCY COMMENTS
4	07/25/14	07/25/14 REVISED PER LOCAL AGENCY COMMENTS
5	08/01/14	08/01/14 MILLER PARCEL UTIILTY UPDATE
6	08/05/14	08/05/14 COMMENTS FOR GRADING APPROVAL
7	08/20/14	08/20/14 REVISED PER LOCAL AGENCY COMMENTS
8	08/22/14	08/22/14 SANITARY REVISION MH 300—302
9	09/12/14	09/12/14 REVISED PER LOCAL AGENCY COMMENTS

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ISSUED FOR:		
PERMIT	06-02-14	
BID	06-02-14	
CONSTRUCTION	09-16-14	
RECORD	-	
PROJECT MANAGER	DESIGNER	

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