

**ATTACHMENT E**

## TEMPORARY DIVERSION



### DESCRIPTION

A temporary diversion is a swale and/or dike used to:

- Direct sediment-laden runoff to a settling pond.
- Route clean runoff away from disturbed areas.
- Divert runoff to reduce the effective length of the slope.
- Direct runoff away from steep cut or fill slopes.

### PLANNING CONSIDERATIONS

**Temporary Diversions vs Silt Fence**--Two approaches are commonly used to intercept and treat sediment-laden runoff at the perimeter of disturbed areas. One approach is silt fence and the other is diversions directing runoff to settling ponds. When determining which approach is more appropriate, the designer should consider the following:

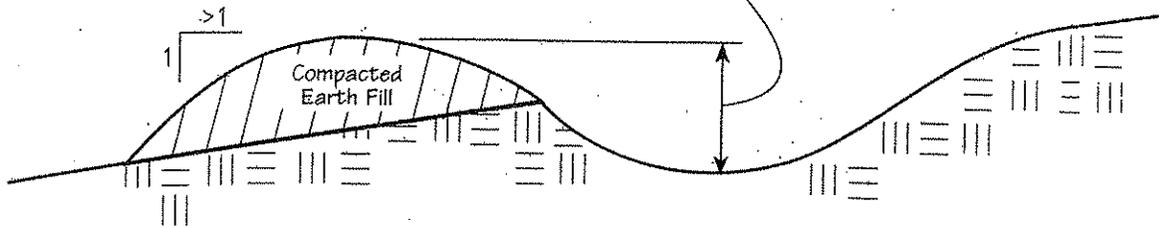
- Standard temporary diversion designs can accommodate flows up to 10 ac.
- Silt fence can generally accommodate sheet flow from 0.25 ac./100 ft. of fence (see silt fence specification).
- Diversions can be constructed on a grade to direct runoff while silt fence must follow the contour of the land.
- Diversions are durable and require minimum maintenance.
- Diversions are easily constructed.
- Silt fence itself treats runoff and need not be used in conjunction with a settling pond.
- Silt fence requires little space and causes less disturbance around valuable vegetation or structures.

# Specifications for Temporary Diversion

Diversion Slopes  
Shall Not be  
Steeper than 1 : 1

Seed and Mulch  
Entire Diversion

18" for Drainage Area < 5 Acres  
24" for Drainage Area > 5 Acres



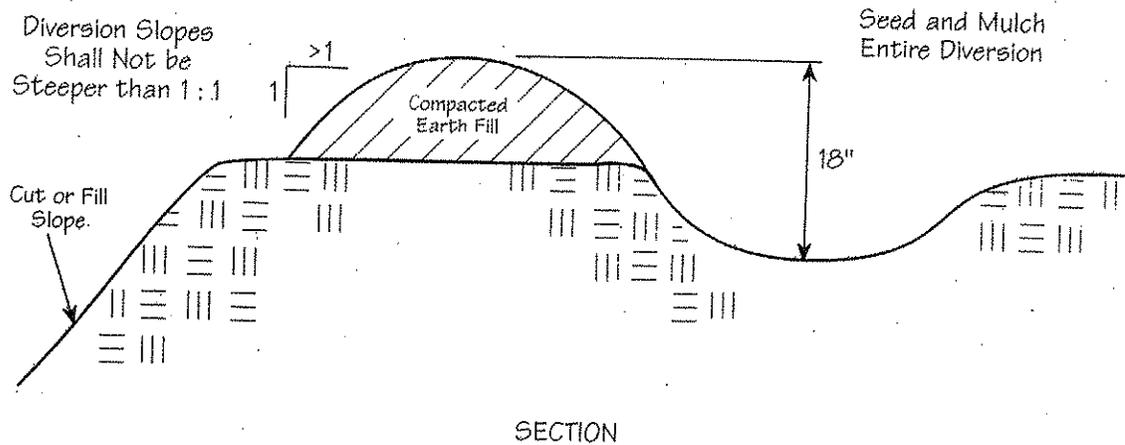
## SECTION

1. Diversion shall be compacted by traversing with tracked earth-moving equipment.
2. Diversions shall not be breached or lowered to allow construction traffic to cross; instead the top width may be made wider and side slopes made flatter than specified above.
3. Diversions shall be stabilized with vegetation and check dams or the following treatments:

Temporary Diversion Stabilization Treatment			
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%	Seed and Straw	Matting	Engineered

Note: Diversions with steeper slopes or greater drainage areas are beyond the scope of this standard and must be designed for stability. Seed, straw and matting used shall meet the Specifications for Temporary Seeding, Mulching and Matting.

Specifications  
for  
Temporary Diversion Above Steep Slopes



Diversions for the temporary protection of cut or fill slopes shall be installed in accordance with the following criteria for drainage areas of 5 acres or less. Larger areas require a diversion design.

1. Diverted runoff shall outlet onto a stabilized undisturbed area, settling pond, or into a drop structure.
2. Diversions shall be compacted by traversing with tracked earth-moving equipment and stabilized with seed and mulch.