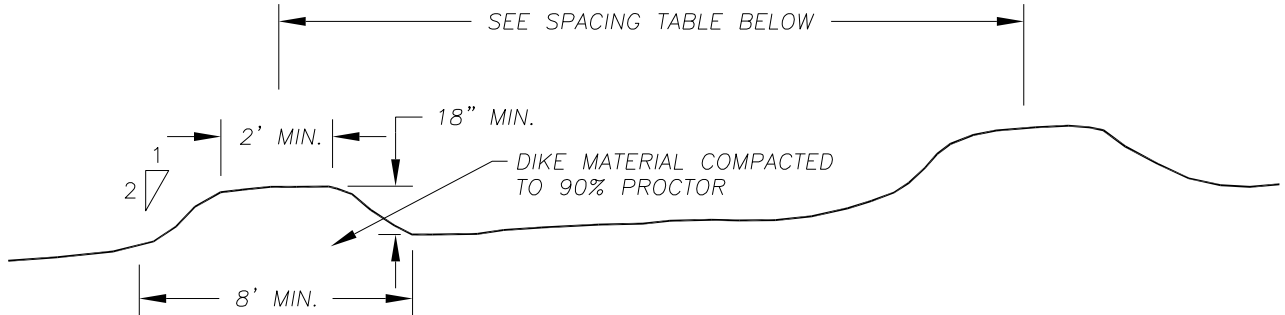


DIVERSION SWALE



TEMPORARY DIVERSION DIKE

NOTES:

1. DIKE OR SWALES ARE INSTALLED TO INTERCEPT AND CONVEY SMALLER FLOWS ALONG LOW-GRADIENT DRAINAGE WAYS TO LARGER CONVEYANCES SUCH AS DITCHES OR PIPE SLOPE DRAINS OR TO A STABILIZED OUTLET, AND CAN BE USE SINGULARLY OR IN COMBINATION WITH EACH OTHER.
2. REFER TO TABLES BELOW FOR DESIGN CRITERIA FOR DIVERSION DIKES AND SWALES. INSTALL THE DIKES AND/OR SWALES HORIZONTALLY AT INTERVALS ACROSS A DISTURBED SLOPE AT SPACING ACCORDING TO TABLES.
3. FOR SLOPES OF ERODIBLE SOILS STEEPER THAN 2:1 WITH MORE THAN 10 FT. OF VERTICAL RELIEF, CONSTRUCT BENCHES OR SHORTEN DISTANCE BETWEEN DIKES AND SWALES.
4. DISCHARGE THE RUNOFF TO A STABLE CONVEYANCE THAT ROUTES THE SEDIMENT LADEN RUNOFF TO A SEDIMENT TRAP OR POND.
5. MAY NEED MATTING TO PROTECT SEED BED AND CHANNEL FROM EROSION.

DIVERSION DIKE DESIGN CRITERIA

TOP WIDTH	24" MIN.	
HEIGHT	20" MIN (90% COMPACTION)	
SIDE SLOPES	2:1 OR FLATTER	
DIKE GRADE	BETWEEN 0.5-1%	
SLOPE OF DISTURBED AREA VS. HORZ. SPACING	<5%	300 ft
	5-10%	200 ft
	10-25%	100 ft
	25-50%	50 ft
SLOPE STABILIZATION	<5% SEED AND MULCH WITHIN 5 DAYS FOLLOWING DIKE CONSTRUCTION	
OUTLET	UPSLOPE SIDE OF DIKE PROVIDES POSITIVE DRAINAGE TO OUTLET, PROVIDE RIPRAP AS NECESSARY TO PREVENT EROSION RELEASE TO SEDIMENT TRAPPING FACILITY.	

DIVERSION SWALE DESIGN CRITERIA

BOTTOM WIDTH	24" MIN. LEVEL BOTTOM ACROSS SWALE	
DEPTH	12"	
SIDE SLOPES	2:1 OR FLATTER	
GRADE	MAX. 5% POSITIVE DRAINAGE TO OUTLET	
SLOPE OF DISTURBED AREA VS. HORZ. SPACING	<5%	300 ft
	5-10%	200 ft
	10-25%	100 ft
	25-50%	50 ft
SLOPE STABILIZATION	TEMPORARILY SEED OR LINE WITH RIPRAP 12" THICK AND PRESS INTO BANK ± 3-4"	
OUTLET	LEVEL SPREADER OR RIPRAP TO STABILIZED OUTLET/SEDIMENTATION POND	

NO.	REVISIONS	DATE	BY

DWG: E10.DWG



Department of
Public Works
CLARK COUNTY
WASHINGTON
proud past, promising future

DIVERSION DIKE/SWALE

Peter Capen
COUNTY ENGINEER

APPROVED

5/23/08
DATE

STANDARD
E10
DETAIL
DESIGNED
DRAWN
DATE 05/23/08