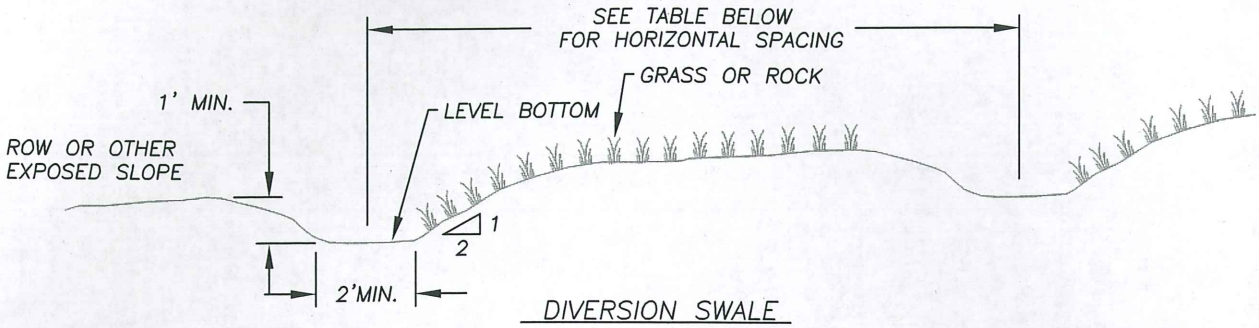
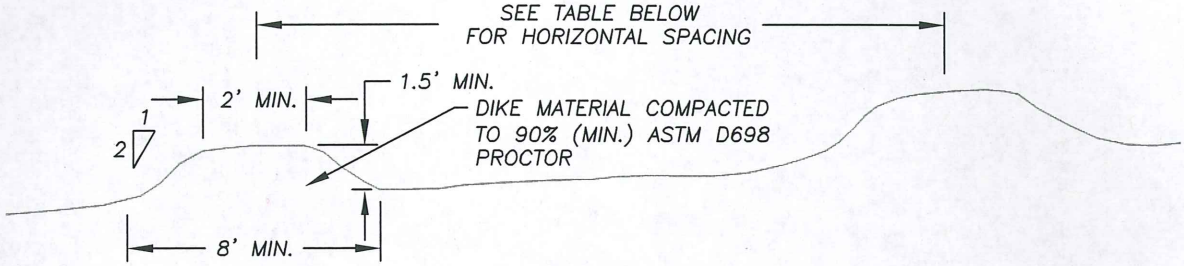


DIVERSION SWALE



DIVERSION DIKE

NOTES:

1. REFER TO TABLES BELOW FOR DESIGN CRITERIA FOR DIVERSION DIKES AND SWALES.
2. 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.
3. DISCHARGE THE RUNOFF TO A STABLE CONVEYANCE THAT ROUTES THE SEDIMENT LADEN RUNOFF TO A SEDIMENT TRAP OR POND.
4. MAY NEED MATTING TO PROTECT SEED BED AND CHANNEL FROM EROSION.
5. REFER TO BMP C200 IN VOLUME II OF THE WESTERN WASHINGTON MANUAL FOR MORE INFORMATION.

DIVERSION SWALE DESIGN CRITERIA

GRADE	MAX. 5%	POSITIVE DRAINAGE TO OUTLET
HORIZONTAL SPACING	3–5%	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	

DIVERSION DIKE DESIGN CRITERIA

DIKE GRADE	MIN. 0.5%, MAX. 1%	
HORIZONTAL SPACING	3–5%	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
	5–40%	DEPENDENT OF RUNOFF VELOCITIES AND DIKE MATERIALS. STABILIZATION SHOULD BE DONE IMMEDIATELY USING EITHER SOD OR RIP–RAP OR OTHER MEASURES TO AVOID EROSION.
OUTLET	UPSLOPE SIDE OF DIKE PROVIDES POSITIVE DRAINAGE TO OUTLET, PROVIDE RIPRAP AS NECESSARY TO PREVENT EROSION RELEASE TO SEDIMENT TRAPPING FACILITY.	

N.T.S.

DIVERSION DIKE/SWALE

STANDARD DETAIL

CITY OF BATTLE GROUND
APPROVED

Scott P. Sawyer 9-16-10

CITY ENGINEER DATE

REVISIONS:	DATE:	DRAWN:	DESIGNED:
1	8/12/98	BSG	GGH
2	8/30/05	ALL	MCH
3	9/15/10	RMJ	RMJ

EC–8.0