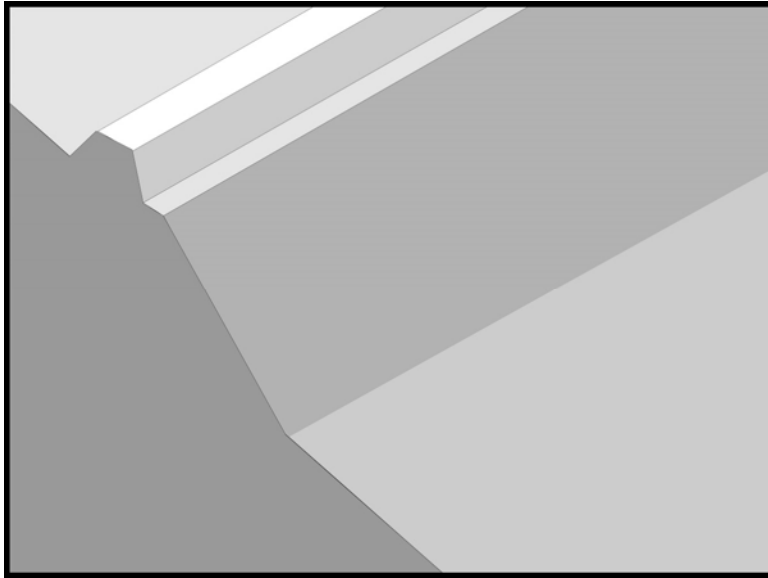

Top and Toe of Slope Diversion Ditches/Berms

SC-12



Source: Modified from Caltrans Construction Site Best Management Practices Manual, 2003.

Description	Devices used to minimize sheet flow over slopes and reduce erosion by intercepting and conveying runoff to sediment removing structures or a protected drainage system.
Applications	<ul style="list-style-type: none">• Areas which must be protected from runoff flowing down slopes.• Areas where runoff must be intercepted at bottom of slope.
Installation and Implementation Requirements	<ul style="list-style-type: none">• Design flows and safety factors shall be determined by an evaluation of risks associated with erosion and overtopping, flow backups, or structure washouts. Consult with the HWY-OM Engineer or Hydraulic Section to determine these values.• Line or stabilize ditches with high flow velocities.• Direct flows at top of slopes to slope drains. Refer to SC-11 (Slope Drains and Subsurface Drains) in this manual for more information.• Protect outlets from erosion.
Limitations	<ul style="list-style-type: none">• Additional sediment trapping BMP devices may be necessary for sediment-laden runoff.
Inspections and Maintenance	<ul style="list-style-type: none">• Inspect weekly during dry periods as well as within 24 hours of any rainfall of 0.5 inch or greater which occurs in a 24-hour period and daily during periods of prolonged rainfall.• Inspect ditches/berms for washouts. Repair requirements shall be reported and include replacement of rip-rap, damaged lining, or soil stabilizers and compaction and revegetation of fill berms and ditches.

Top and Toe of Slope Diversion Ditches/Berms

SC-12

**Inspections and
Maintenance
(Continued)**

- Inspect structures for accumulated sediment and debris and remove as necessary.