Typical Sidecast or Excavation Methods for Removing Outboard Berms on a Maintained Road

1. On gentle road segments berms can be removed continuously (see B-B').
2. On steep road segments, where safety is a concern, the berm can be frequently breached (see A-A' & B-B')

Berm breaches should be spaced every 30 to 100 feet to provide adequate drainage of the road system while maintaining a semi-continuous berm for vehicle safety.

Road cross section between berm breaches

Road cross section at berm breaches

Berm inhibiting drainage of outslopes or crowned road

Berm no longer inhibiting drainage

Aggressive outslope along old bermed reach facilitates drainage even after minor grading operations and vehicle rutting

Pacific Watershed Associates Inc.
Geologic and Geomorphic Studies • Watershed Restoration • Wildland Hydrology • Erosion Control • Environmental Services
PO Box 4433, Arcata, CA 95518 / Ph: 707-839-5130 / FAX: 707-839-8168 / www.pacificwatershed.com

Typical Drawing #12