3.10 JETTIES

Figure 3.21. Jetty (Source: Department of Civil, Construction, and Environmental Engineering, Iowa State University)

Overview

**Description:** Used to deflect water currents away from selected sections of a streambank.

**Problem identification:** A streambank under stress from water currents needs to be protected from erosion.

**Design purpose:** To redirect stream currents away from the streambank to reduce erosion.

**Associated practices:** Used where one waterway meets another on new construction or where there is a shift in alignment.

**Installation:** Logs or planks are installed to move the current, and riprap underlaid with filter fabric, boulders, or gabions is installed. The material must be sized for the conditions at the distressed area.

**Maintenance/inspection:** Protected or repaired areas should be inspected after precipitation events for any damage or displacement of material. Any problem area must be repaired or reinforced as soon as possible.

**Design life:** Permanent.

**Estimated cost:** Riprap costs $32.20 per ton (aggregate material cost only).
Figure 3.22. Jetties (Source: Department of Civil, Construction, and Environmental Engineering, Iowa State University)