

## **General Construction Schematics for Plant Installation & Vegetative Stabilization of Streambanks**

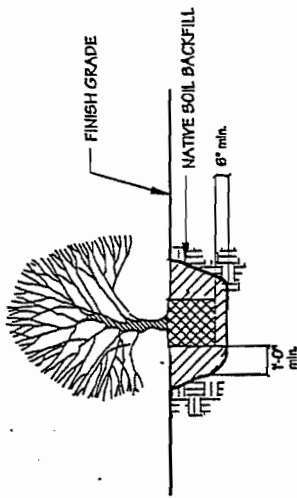
### **Selected References for Streambank Stabilization & Erosion Control Measures:**

Coppin, NJ, Richards, IG. 1990. *Use of Vegetation in Civil Engineering*. Butterworths, London, England.

Gray, DH, Leise, AT. 1982. *Biotechnical Slope Protection and Erosion Control*. Van Nostrand Reinhold Company, New York, NY.

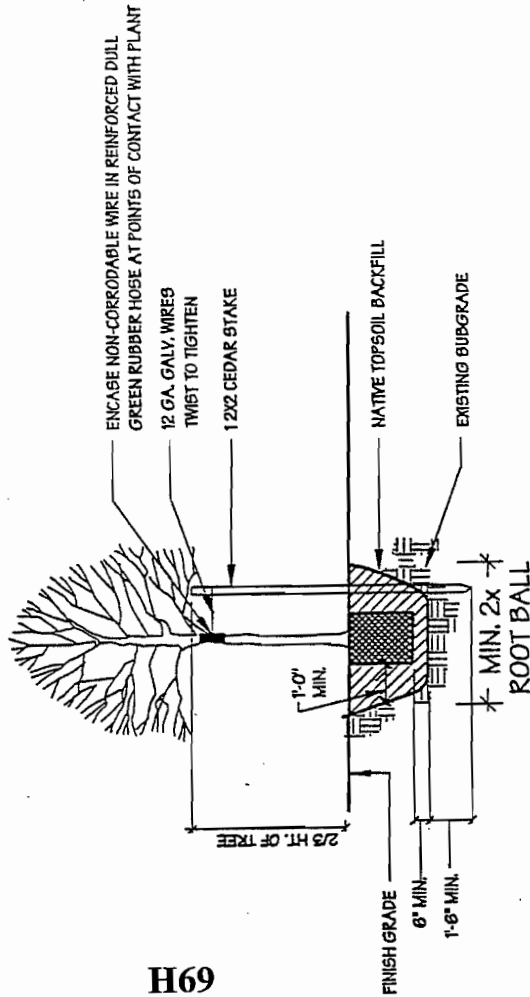
Johnson, AW, Stypula, JM (eds). 1991. *Guidelines for Bank Stabilization Projects in the Riverine Environments of King County*. King County Department of Public Works, Surface Water Management Division, Seattle, WA.

Schiechtl, HM. 1980. *Bioengineering for Land Reclamation and Conservation*. University of Alberta Press, Edmonton, Alberta.



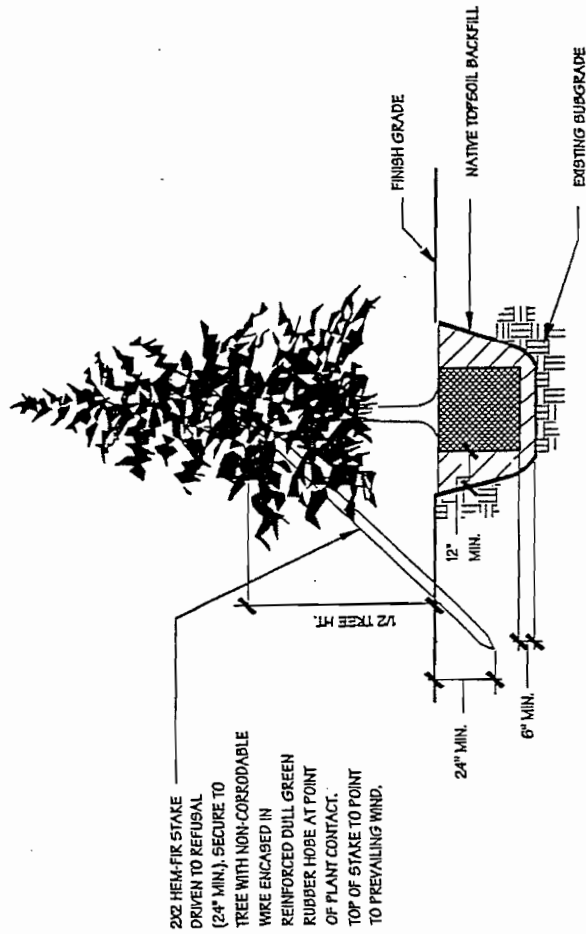
**TYP. CONTAINERIZED SHRUB PLANTING**

NOT TO SCALE



**TYP. DECIDUOUS TREE**

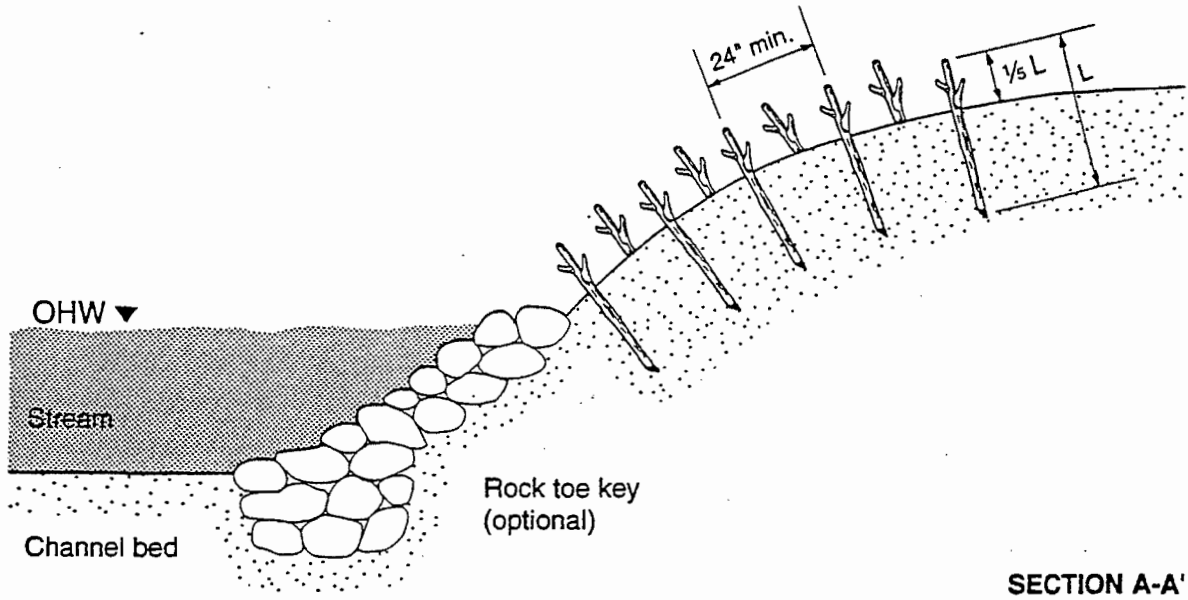
NOT TO SCALE



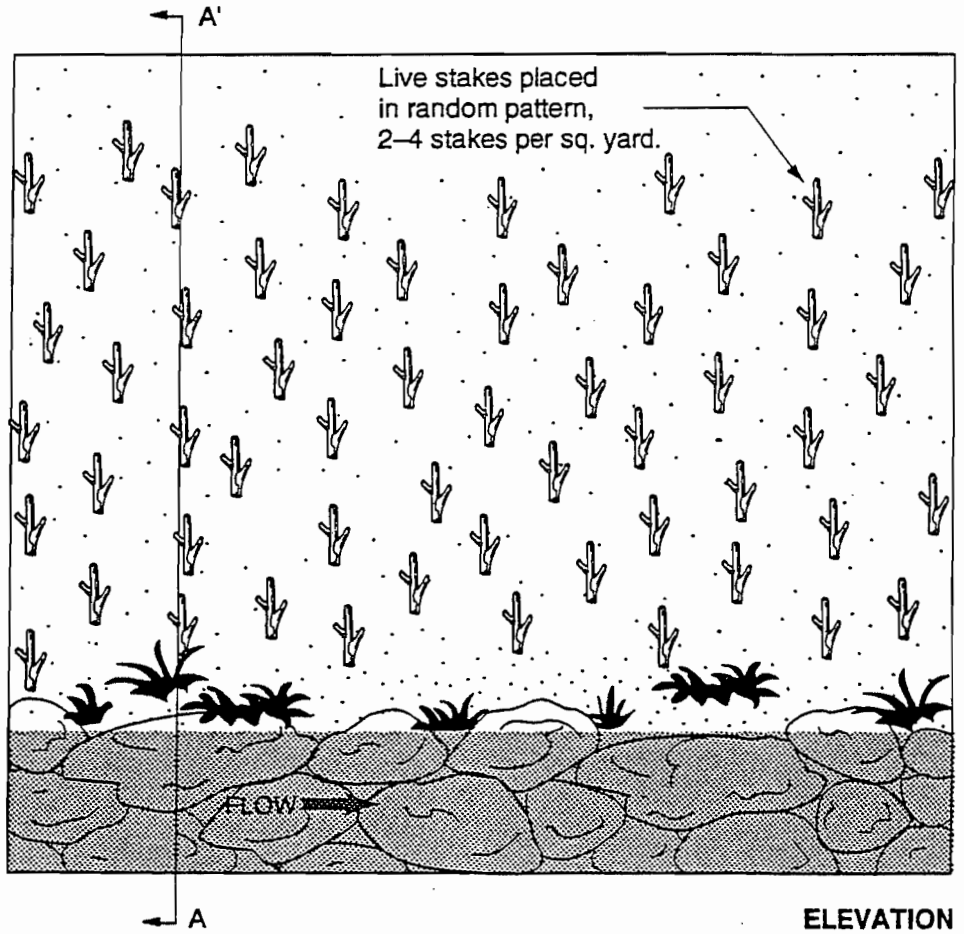
**TYP. CONTAINERIZED CONIFEROUS TREE**

NOT TO SCALE

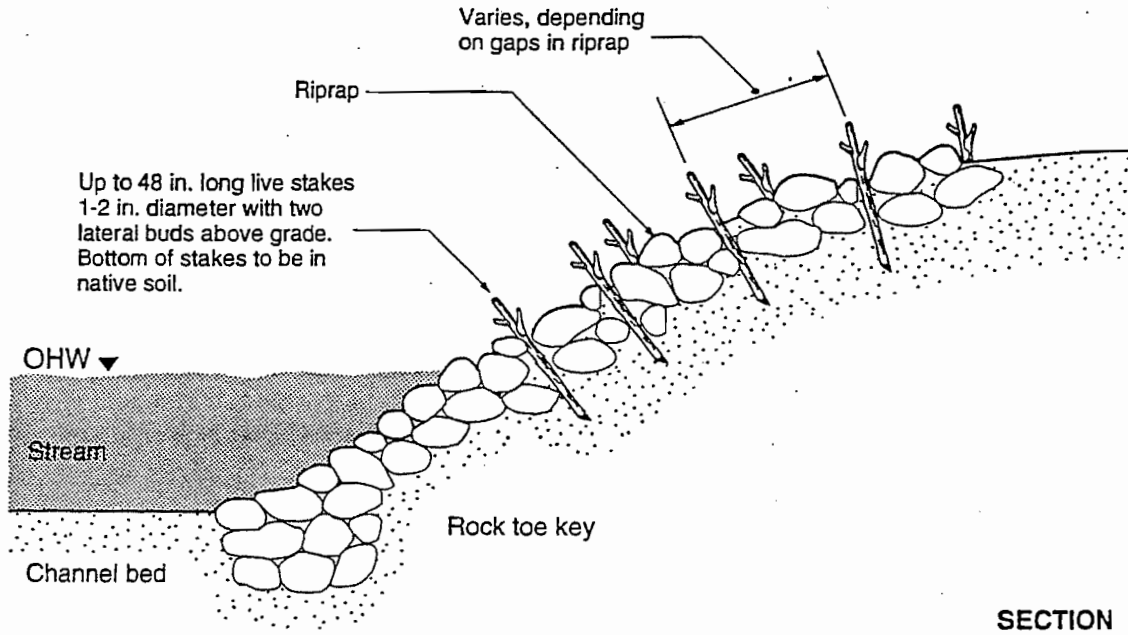
Installation of live stakes shown with an optional rock toe key.



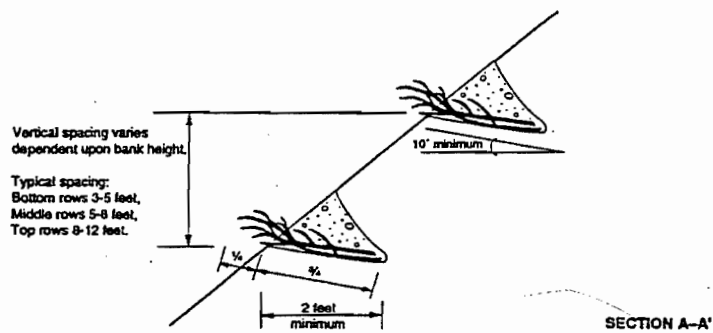
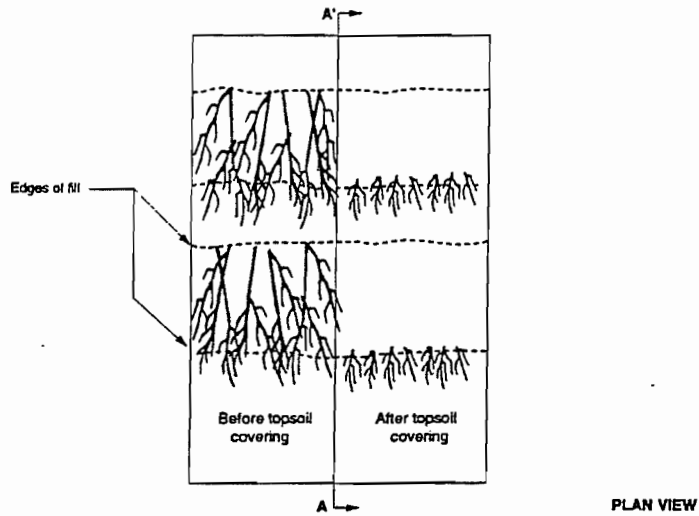
**LIVE STAKE  
DETAIL**



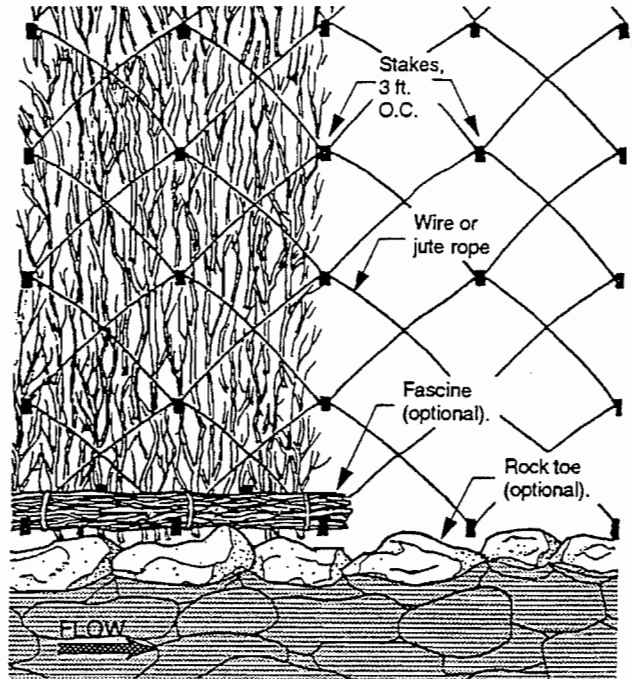
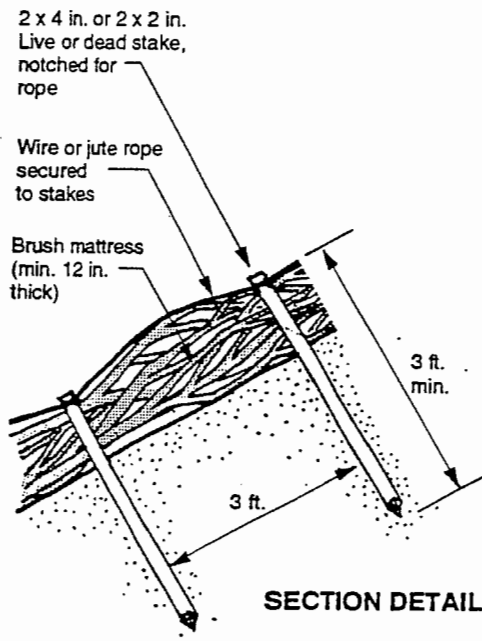
Installation of joint planting.



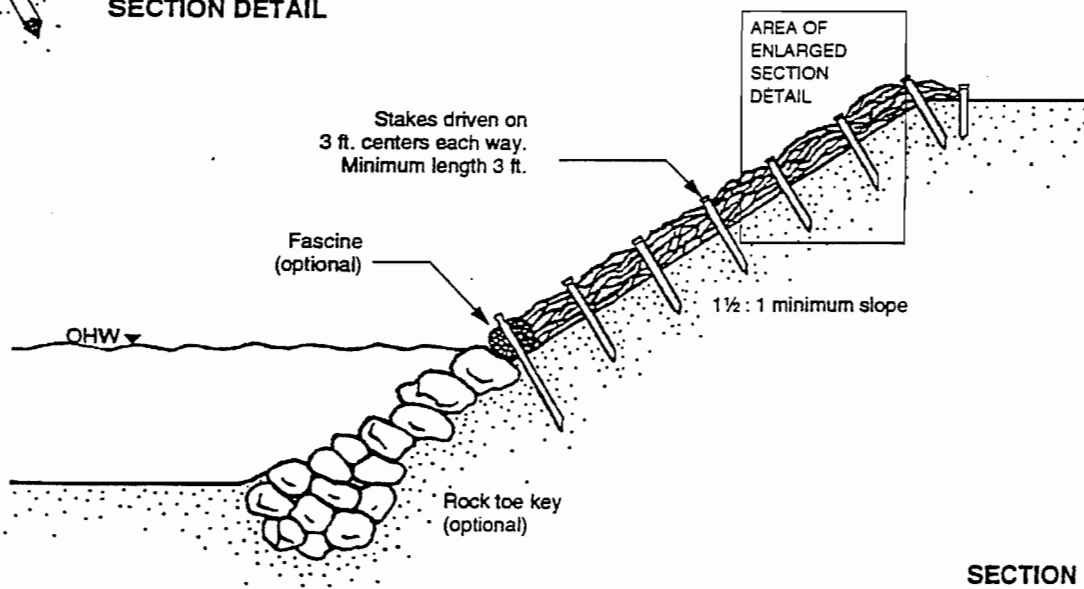
Installation of brush layers. (Adapted from Gray and Leiser 1982.)



Installation of a brush mattress shown with an optional fascine and rock toe.  
 (Adapted from Gray and Leiser 1982.)



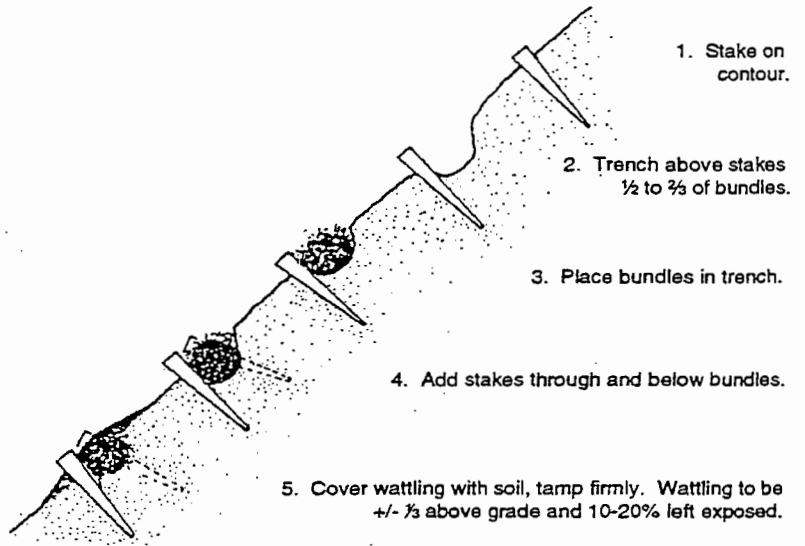
Note: Topsoil cover not shown.



Installation of fascine bundles. (Adapted from Gray and Leiser 1982.)

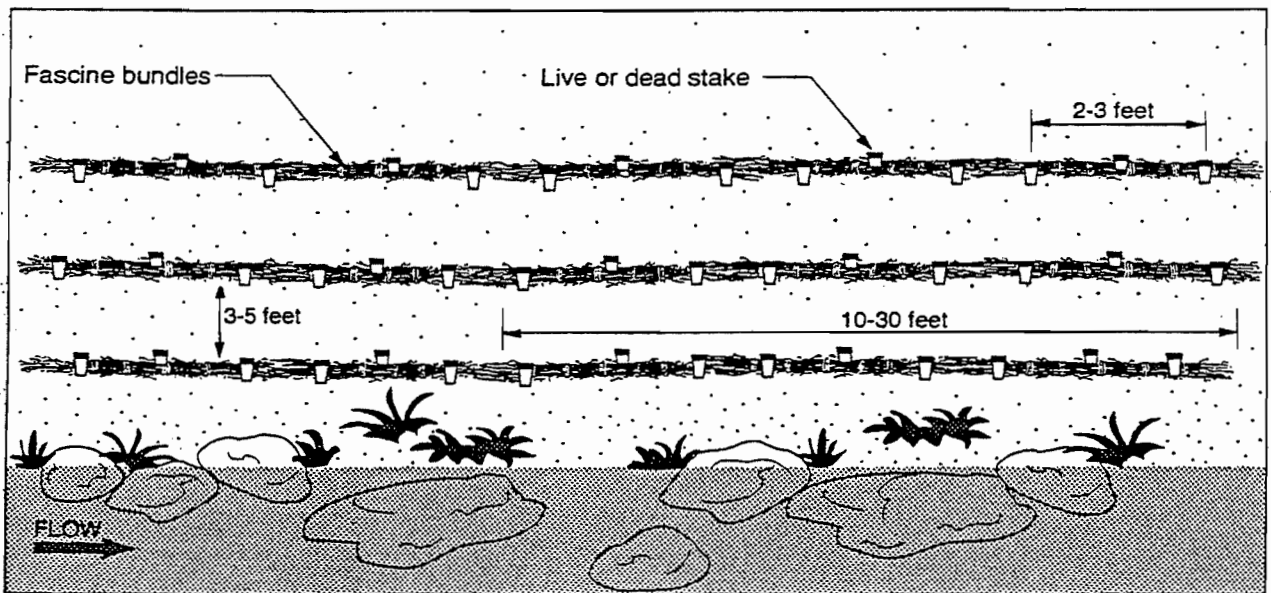


Prepare wattling: cigar-shaped bundles of live brush with butts alternating, 8-10 in. diameter, tied 12-15 in. o.c. Species which root are preferred. Bundles may be 10-30 ft. in length.



NOTE: Installation starts at bottom of the bank and proceeds upslope, following steps 1 through 5.

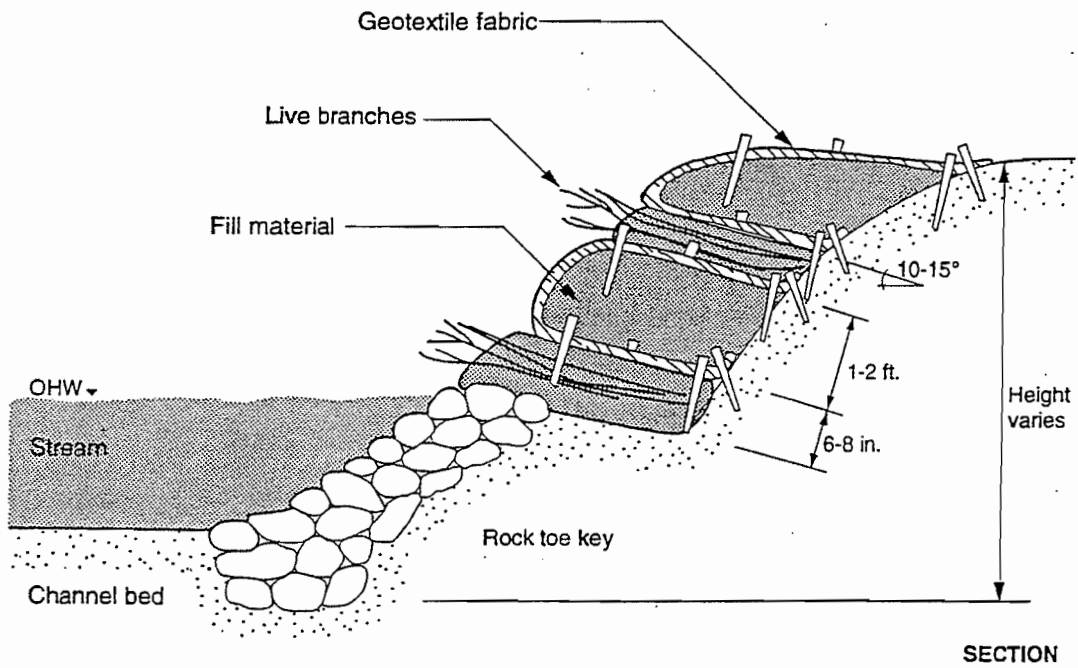
SECTION



NOTE: Topsoil cover not shown.

ELEVATION

Installation of a vegetated geogrid shown with an optional rock toe key.



Integrated system using large woody debris.

