

Bio-Engineered Deflection Barbs (5) Construction Specifications

- 30 feet long trees boles with large end diameter of 20 inches or greater supported by rock
- trees maintain as many branches and roots as possible (to provide aquatic habitat and bank holding stabilization)
- deflection trees buried 6 to 8 feet back into bank into bank (key) with top of butt log 1.5 feet above normal low flow
- planting of bank key with native vegetation including red dogwood, cottonwood, and willow in late fall or early spring following barb establishment
- position deflection barbs up creek at approximately 55 degree angle to bank
- position five barbs per Kittitas Conservation Trust Preliminary Design Draft, June 8, 2017, p. 9 of 19, in alignment with proposed structures 2-41, 2-49, 2-50, 1-51 and 2-52
- GPS coordinates of barb bank locations in yellow are located on site plan, Kittitas Conservation Trust Preliminary Design Draft, June 8, 2017, p. 9 of 19 submitted.

Kittitas County Shoreline Exemption Permit
STVMA Emergency Bio-engineered Deflection Barbs, 6/16/2