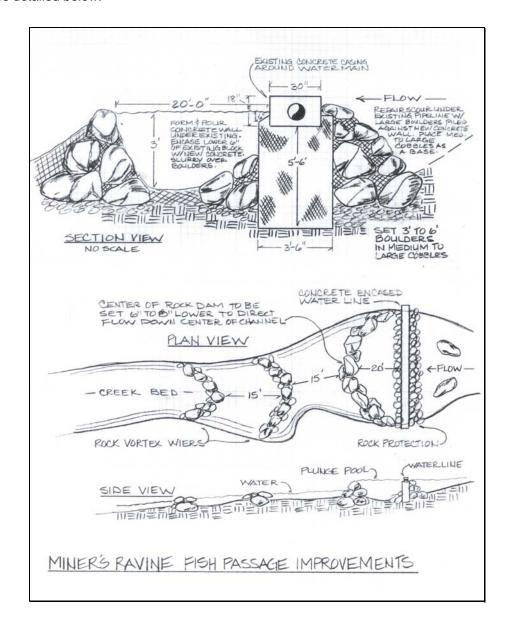
Miners Ravine Fish Passage Project Placer County, California

In June of 1998, Placer County was awarded a \$605,400 grant from the State Water Resources Control Board. Removal of the concrete sill from Miners Ravine at Site 'A' at the Miners Ravine Nature Preserve was analyzed. This sill had been a barrier to fish passage during times of low flow. It was determined that sill removal would cost approximately \$100,000 since the water line is active (serves the Shelborne Estates subdivision and is owned by the San Juan Water District). Instead, a fish passage project was designed that utilized weirs detailed below.



The TAC authorized the fish passage project and a Change Order was executed with Restoration Resources on July 29, 2003 in the amount of \$18,234.54. Construction was completed in October 2003.



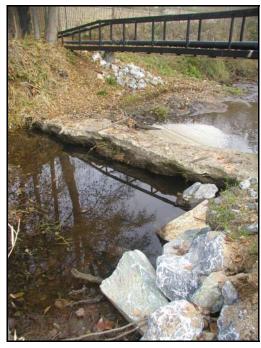
Fish Barrier Sill "Before"



Fish Barrier Sill "After"



"After"



Pre-Weir Installation
Rip-rap Installed as Part of Site 'A' Restoration



"After" Showing Three-Weir Design

All work was completed in late-2003. A Notice of Completion was approved by the Placer County Board of Supervisors and was recorded on January 8, 2004.