

# Ryan Creek Migration Barrier Replacement Project

California Department of Fish and Wildlife Grant Award #P0910515

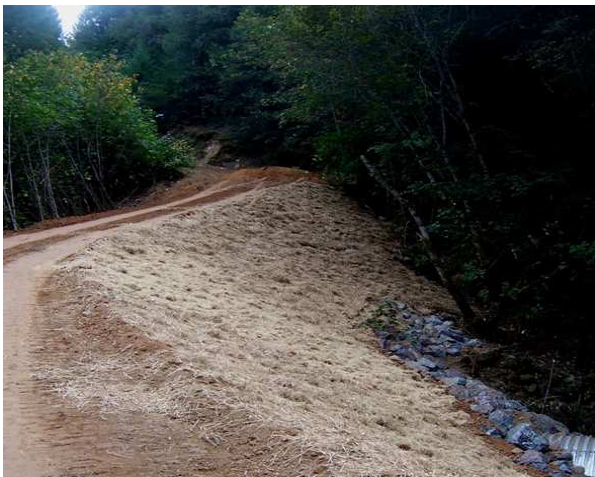
## PHOTO LOG



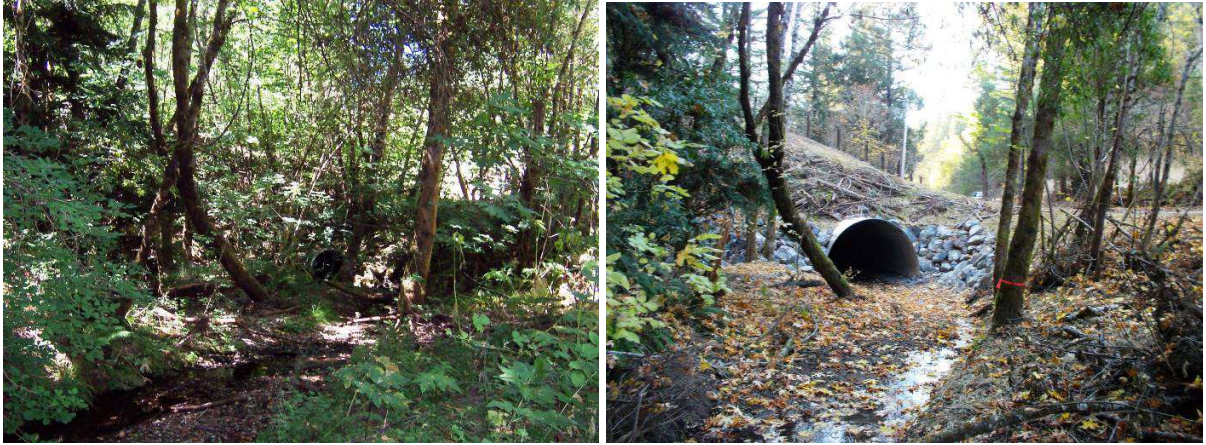
Upper Left Outlet of 5' diameter culvert before project. Upper Right- Inside old culvert showing disconnected segments and rotted bottom. Middle Left- Looking upstream pre-project. Middle Right Fill excavated to culvert depth. Bottom Left- New 14' x 12' (with 3' embedded) arch in place. Bottom Right- 40' deep cut to get new culvert in place.



Upper Left- Digging below stream grade to set arch. Upper Right- The creek bed was dewatered and culvert alignment and grade set. Middle Left- Managing the spoils pile. Middle Right- Unloading the arch pieces. Bottom Left- Filling the stream bottom with material. Bottom Right- Streambed in place.



Upper Left- Replacing the road fill. Upper Right- Placing rock slope protection while rebuilding road. Middle Left- Upstream of inlet. Middle Right- Road roughed in. Bottom Left- Road roughed in. Bottom Right- Road in place with only "guard rails" remaining to be installed.



Rhine Driveway Project before with 5' corrugate metal culvert looking downstream (left) and restored channel with 14' wide multi-plate arch culvert (right).



Rhine Driveway Project before with 5' corrugate metal culvert looking upstream (left) and restored channel with 14' wide multi-plate arch culvert (right).