

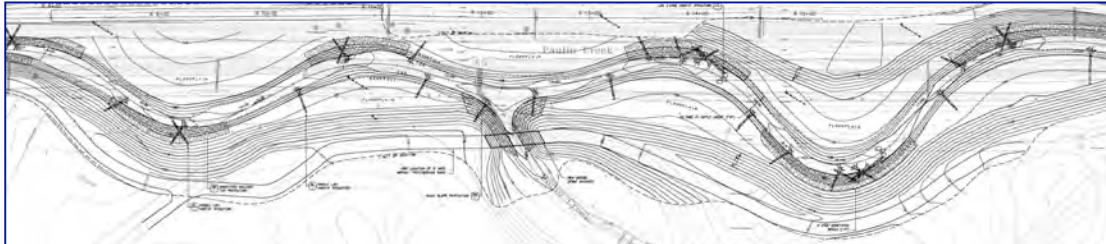


PRUNUSKE CHATHAM, INC.

## PAULIN & POMO CREEK RESTORATION PROJECT, 2010

Client: City of Santa Rosa

Contact: Sheri Emerson, (707) 543-4225



PCI prepared preliminary plans to restore approx. 1,500 linear feet of Paulin Creek adjacent to Northwest Community Park as part of the Santa Rosa Citywide Creek Master Plan. The creek was straightened and constructed as a trapezoidal channel for flood control in the early 60s. The primary objective of the project is to improve steelhead trout and other aquatic and wildlife habitats while providing adequate flood protection of the 100-year storm. The plan includes reintroduction of a meandering stream channel with inset floodplains, pools and riffles, along with placement of in-stream log structures to create channel complexity for various aquatic habitats. The plan also calls for removal of invasive plant species and a wider riparian corridor with increased diversity and density. Service roads were realigned for maintenance and for human interaction with the creek by providing a creekside trail through Northwest Community Park to link to the Piner Creek and Santa Rosa Greenway trails on the south bank. PCI conducted geomorphic, hydraulic flood flow and sediment transport analysis along with recommendations presented in the draft basis of design report for Paulin Creek.

PCI also prepared a conceptual plan to enhance Pomo Creek, a tributary to Paulin Creek that flows through Northwest Community Park. The objective of the plan is to improve water quality and restore the riparian zone while providing an environmental education to park users and school groups. The conceptual plan demonstrates the physical elements of a watershed to park users at a small scale that is fun and easy to understand. Elements of the plan include treating urban/park runoff with biofiltration, floodplain and wetland areas, removal of invasive species and revegetation with riparian plants. The plan incorporates circulation and human use elements including walking trails, footbridge, picnic areas, outdoor classroom, interpretive signage, and children's play area/raingarden. Practices such as rainwater harvesting, solar energy, and drought tolerant landscaping are exhibited to promote the importance of healthy streams and the watersheds that support them. PCI's biologist prepared Botanical and Wildlife Design Recommendations that were incorporated into the plan including nesting habitat for bees, terrestrial wildlife structures and basking rocks for turtles.

