

West Side Storm Sewer Wetlands Windsor, Colorado

Client Mr. Dennis Wagner
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ANDERSON CONSULTING ENGINEERS, INC.
Civil • Water Resources • Environmental

This project included the development and preparation of construction plans and specifications for a water quality detention pond located at the outfall to the West Side storm sewer, adjacent to the Cache la Poudre River in the Town of Windsor, Colorado. Anderson Consulting Engineers, Inc. performed all hydrologic and hydraulic analyses, as well as the final design for this project. Specific design elements included:

- hydraulic analysis of a concrete diversion structure at the entrance to the detention pond;
- hydraulic analysis of 158 feet of 18" RCP storm sewer from the diversion structure to the sedimentation forebay of the detention pond;
- design of 1-acre surface area detention pond including areas of alternating depth to promote wetland vegetation;
- design of a concrete water quality capture outlet structure;
- design of 24 feet of 24" diameter RCP storm sewer outlet pipe;
- design of the Cache la Poudre River outfall structure/pipe and co-ordination with Division of Wildlife staff regarding the placement of the pipe in a designated wildlife area ;
- design of modifications to existing 72" RCP storm sewer outlet box to tie-in to new wetlands;
- hydraulic evaluation of existing 72" RCP storm sewer to insure pre-project capacity is maintained after installation of wetlands detention pond; and
- development of a wetland vegetation, construction site re-vegetation, and site landscaping plans.



**West Side Storm Sewer Wetlands
During Construction**



**West Side Storm Sewer Wetlands
Post Construction**