

Rolland Moore Park Detention Pond Improvement Project Fort Collins, Colorado

Client: Mr. Owen Randall
City of Fort Collins
700 Wood Street
Fort Collins, Colorado 80522
(970) 221-6809



In 2004 the City of Fort Collins received a Pre-Disaster Mitigation (PDM) Grant to help fund drainage improvement projects along Spring Creek. One of the drainage improvement projects included in the grant involved the construction of a on-line detention pond on Spring creek in Rolland Moore Park, which is located in western Fort Collins.

The purpose of the drainage improvement projects along Spring Creek, including the Rolland Moore Park Pond Project, was to decrease the flooding potential for downstream structures adjacent to Spring Creek. This project consisted of the following:

- Hydrologic modeling of the tributary drainage basin to define design discharges;
- Formulation and hydraulic design of all listed drainage improvements;
- Final design of the Rolland Moore Park detention pond;
- Final design of a new pedestrian bridge over Spring Creek, at the outlet of the Rolland Moore Park detention pond;
- Final design of a flood proofing plate along the northern edge of the detention pond;
- Final design of a flood control beam located just upstream of the new pedestrian bridge, at the outlet of the Rolland Moore Park detention pond;
- Preparation of a re-vegetation plan for the disturbed areas;
- Preparation of final construction plans, technical specifications, and contract documents;
- Preparation of a Floodplain Use Permit for the City of Fort Collins;
- Construction management services during the approximately 3-month construction time period; and
- Preparation of as-built drawings.



**Installation of the 60 foot long
flood control girder at pond outlet.**



**New flood control girder
and pedestrian bridge at pond outlet.**