

SOUTH PLATTE RIVER GLOBEVILLE AND NORTH AREAS

DENVER



The South Platte River project in North Denver (Globeville area) is the single largest flood control project undertaken by either the UDFCD or the City and County of Denver. This project removes 320 acres of land in north Denver from the 100-year floodplain.

The full project was implemented in three phases, Phase I, completed in May 1997, consisted of 2,000 linear feet of channel improvements including levees, trails, bank stabilization, aquatic and wildlife habitat improvements, landscape plantings, and removal of large abandoned sanitary sewer that crossed the river. Phase II, completed in August 1998, included additional floodwalls and levees, bank stabilization, trails, wetland creation and landscape plantings.

Phase III began construction in the fall of 2005 and is now complete. It includes the relocation of the Burlington Ditch diversion dam from downstream of Franklin Street to approximately 1,000 feet upstream. These ditch facilities irrigate



over 100,000 acres of land.

The project also included the construction of grade control weirs, removal and replacement of the (DRIRR) bridge, a new river diversion structure with fish ladder, a 230 foot long pedestrian bridge and removal and reconstruction of a 36-inch Denver Water Department suspended 'gray' water line which bridges the channel. Obtaining a 404 permit, other USFW&S regulatory permitting, and FEMA floodplain submittals have been key components of this project; as well as gaining approvals from all the adjacent landowners and the railroad, and water users. The total design-construction cost for all three phases will be just under \$25,000,000.

To assure FRICO, UDFCD and Denver that the proposed system would work as well or better than the current water diversion system, the design was physically modeled at the Colorado State University Hydraulics Laboratory in Fort Collins.



LOCATION
CLIENT
LEAD OFFICE
SCOPE
AWARDS

DENVER, COLORADO
CITY AND COUNTY OF DENVER
BOULDER
FLOOD CONTROL, GREENWAY TRAILS
2009 APWA, COLORADO DRAINAGE AND FLOOD CONTROL AWARD FOR LARGE COMMUNITIES
2009 CASFM, GRAND AWARD FOR ENGINEERING EXCELLENCE



