

Design and Construction Program Notes

By

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In this past year the District's Design and Construction Program committed over \$9.1 million to design and construction projects throughout the Denver Metropolitan area. Our work load continues to be in the area of 80 to 90 projects that are either in the design process, obtaining lands and easements, or under construction.

Notable projects this past year included construction of improvements to the Pinehurst Tributary to Bear Creek. This project, located almost entirely on Colorado Academy, a private school located in Jefferson County, consisted of a regional detention pond and channel improvements. Incorporated into the channel improvements were two "faux" rock drop structures as well as a new outlet spillway from the existing Woodys Pond. This was a cooperative project with Denver, Jefferson County and Colorado Academy (CA). During the design process CA developed a master plan for The Alumni Nature Preserve that encompassed most of the drainage facilities. The preserve will be made up of various geozones each representing a particular ecological and cultural environment and connected by an extensive pathway system, part of which will provide maintenance access for the drainage improvements. This project has been a fine example of various stakeholders partnering to develop a truly multifunctional drainage improvement project.

This past year saw the start of the fourth and final phase of the Goose Creek project in Boulder. This has been a multi-year project (the first phase was constructed in the mid-80s), of which the fourth phase should be completed in the spring of 2003. This multi-million dollar project will remove hundreds of properties, both residential and commercial, from the 100-year floodplain. Congratulations to the City of Boulder for staying the course in implementing this important drainage and flood control project.

STATUS OF DISTRICT DESIGN PROJECTS

Project	Participating Jurisdiction(s)	Status
Pinehurst & Academy Park Tribs	Denver	Complete
Plaster Reservoir Detention	Broomfield	Complete
Parker/Jewell Outfall	Arapahoe County	Complete
Sand Creek Stapleton to Toll Gate	Aurora	Complete
Sulphur Gulch	Parker	Complete
McKay Outfall	Adams County	95% Complete
South Trib. Slaughterhouse Gulch	Littleton	95% Complete
Lakewood Gulch at Tennyson	Denver	95% Complete
Little Willow Creek	Douglas County	90% Complete
Parker/Mexico Outfall	Arapahoe County	75% Complete
South Lakewood Gulch	Lakewood	75% Complete
Kalcevic Reservoir	Adams County	50% Complete
Lena Gulch @ Mountain Side	Jefferson County	50% Complete
Irondale 80 th Ave. Outfall	Adams County	50% Complete
Piney Creek	Arapahoe County, Centennial	50% Complete
Lena Gulch	Golden	50% Complete
Arvada Channel	Arvada	30% Complete
Upper Big Dry Creek	Highlands Ranch	30% Complete
Lena Gulch	Jefferson County	25% Complete
Lake Erie Tributary 1	Adams County, Thornton	20% Complete
Utah Junction Outfall	Adams County	10% Complete
Hoffman Drainageway	Adams County	10% Complete
Piney Creek	Aurora	5% Complete

STATUS OF DISTRICT CONSTRUCTION PROJECTS

Project	Jurisdiction(s)	Cost	Status
Bear Creek Maintenance Access	Morrison	\$817,300	Complete
Leyden Dam	Arvada	1,604,000	Complete
Little Dry Creek RR Culverts	Adams County	3,200,000	Complete
Niver Trib. M Outfall	Federal Heights	172,000	Complete
Marcy Gulch	Highlands Ranch	1,800,000	Complete
Lemon Gulch	Douglas County	815,000	Complete
Dad Clark Gulch	Highlands Ranch	523,000	Complete
Wonderland Creek	Boulder	575,000	Complete
Indiana St. Outfall	Lakewood	950,000	Complete
Virginia Village Phase II	Denver	1,296,000	Complete
13 th & Ulster Outfall	Denver	673,000	Complete
Drainageway G	Jefferson County	1,285,000	Complete
Little Dry Creek at City Ditch	Englewood, Cherry Hills	89,600	Complete
Massey Draw North Trib.	Jefferson County	521,000	Complete
Sanderson Gulch	Lakewood	400,000	Complete
Swansea Outfall	Denver	446,000	Complete
University/Mexico Outfall	Denver	648,000	Complete
Virginia Village Phase III	Denver	860,000	Complete
West Evans Outfall	Denver	661,000	Complete
Bayaud & Hooker Outfall	Denver	851,000	Complete
Erie Drainage	Erie	248,000	Complete
Cottonwood Creek	ArapCo, Greenwood	1,360,200	95% Complete
Brookridge/Grant Outfall	Arapahoe County	996,000	95% Complete
Drainageway 4	Lafayette	400,000	95% Complete
Kenneys Run West Fork	Golden	2,293,000	95% Complete
Pinehurst Tributary	Denver, Jefferson Co.	769,000	95% Complete
Baldwin Gulch	Douglas County	1,017,000	90% Complete
Goose Creek	Boulder	3,480,000	75% Complete
Park Hill Outfall	Denver	1,849,000	50% Complete
Happy Canyon Creek	Douglas County	301,000	25% Complete
Plaster Reservoir	Broomfield	475,000	20% Complete
Clear Creek at Washington St.	Golden	3,322,000	15% Complete

This coming year looks to be equally as busy with almost \$8.8 million identified in the 5-Year Capital Improvement Program for 33 new or existing projects.

The new year has all the appearances of a banner year as we anticipate going to construction with the long awaited Van Bibber Creek Flood Protection Project.

This project, in which the District and City of Arvada have partnered with the U. S. Army Corps of Engineers, is projected to be bid by the Corps in January, 2003. This project officially began in 1989 when the District and Corps entered into an agreement for the feasibility study of the Van Bibber project. Even prior to 1989, the District and Arvada worked with the Corps in the development of a reconnaissance report and made their first major land purchase in anticipation of the project in 1988. This past year, the City of Arvada has been purchasing the needed lands and easements needed for the project as well as relocating utilities that are in conflict with the proposed improvements.



The Leyden Lake project features a 380 feet wide roller compacted concrete spillway with a capacity of 75% of the probable maximum flood.

The Marcy Gulch channel stabilization project included a dozen soil cement drop structures to stabilize the longitudinal slope of the channel, along with restoration and creation of wetland areas. Last spring 200 high school students spent several hours on a Saturday planting upland shrubs and wetland plants along the newly completed construction area. The photos to the right and below show the students in action.

