

Ward L. Mahanke, P.E.

Principal

TST Inc. of Denver

Expertise

Treated Water, Reuse, and Wastewater Systems, Water Resources and Raw Water Supply, Storm Water Management, Construction Management, Transportation, Recreational Facilities, and Land Development.

Education

Colorado School of Mines

B.S. Geological Engineering, 1983

Registration

Professional Engineer – Colorado, Arizona

Certified Consulting Engineers of Colorado

Professional Affiliations

American Waterworks Association

Colorado Association of Stormwater and Floodplain Managers

Experience Summary

- **January 1994 to Present**
TST Inc. of Denver, Consulting Engineers
Project Manager / Principal
- **September 1989 to December 1993**
TST, Inc., Consulting Engineers
Engineer, Const. Mgmt., Computer Operator
- **October 1984 to August 1989**
Taranto, Stanton & Tagge, Consulting Engineers
Engineer, Const. Mgmt., Computer Operator

Mr. Mahanke has experience as a Principal-in-Charge, Project Manager, Design Engineer, and Construction Manager on a variety of projects including water and wastewater conveyance, storage, and treatment systems; roads; drainage systems; environmental studies; and environmental remediation. Projects include water and wastewater treatment facilities, pump stations, water storage tanks, water wells, advanced wastewater treatment and reuse systems, pipelines, drainage and detention facilities, roadways, and recreational facilities.

Project Experience

Drainage Systems

City of Golden, CO – Kinneys Run Detention.

Project Manager for the design and construction of a UDFCD regional detention facility that combines a public golf course's water features with 70+ acre feet of detention and a 100-year flow of 1550 cfs. The project included coordination of multiple departments within the City, ditch and utility companies, and approval from the State Engineer's Office for a jurisdictional dam.

Kipling Ridge Metropolitan District – Columbine Basin Improvements. Project Manager for the design and construction of the initial phase of the UDFCD drainage outfall system for the Columbine Basin watershed. The project included 3500 lineal

feet of box culvert conveyance and improvements to a regional park to create 17 acre-feet of detention. The project included coordination of multiple departments within two municipalities, multiple ditch and utility providers.

City of Golden, CO – Tucker Gulch. Project Engineer for the design and construction of channel improvements for a major drainage through Golden.

Castle Pines Commercial, Castle Rock, CO – Regional Detention Pond. Project Engineer for the design of a 29 acre-foot regional detention facility, including a LOMR of the flood plain.

City of Lone Tree, CO – Public Works. As part of the contract Public Works Department, role as the City's Floodplain Manager. Responsibilities include submittal reviews, strategic planning, and administering the GESC (Grading, Erosion, and Sediment Control) and MS4 (Municipal Separate Storm Sewer System) permitting.

Site Planning

Commercial Site Plans. Project Manager for the completion of commercial site plans in Castle Rock, Parker, Aurora, Denver, Centennial, Lakewood, Westminster, Conifer, Aspen Park, Jefferson County, and Douglas County for local and national clients including Target, Outback Steakhouse, Taco Bell, Red Robin, Norwest Banks, Best Western Motels, Black-eyed Pea, McDonalds, Vitamin Shoppe, Bank of the West, Kum & Go, and Shea Properties.

Municipal Plan Review. Third-party review and approval of reports and construction drawings for Town of Castle Rock, City of Golden, City of Lone Tree, Weld County Tri-Area Sanitation District Stormwater Utility, and Teller County Colorado.

Recreational Facilities

City of Golden, CO – Highway 58 and Highway 93 Pedestrian Overpasses. Project Manager for the design and construction of two regional trail overpasses of state highways.

City of Golden, CO – US 6 Bike Path. Project Manager for the design and construction of two phases of a regional trail system along US 6.

City of Golden, CO – Fossil Trace Golf Course. Project Manager for assisting the design and construction of a public golf course, including drainage and trail integration.

City of Golden, CO – Vanover Park. Project Engineer for the design and construction of renovating a trailer park into a city park.

City of Golden, CO – South Golden Road/Ulysses Street Regional Trail. Project Manager for the design and construction of a regional trail, including retaining walls and road crossings.

City of Golden, CO – Illinois Street Bike Path. Project Manager for the design and construction of a connection between the regional trail system along US 6 and a dedicated bike route in to the City.

Castle Pines Golf Club, Castle Rock, CO – Water Features. Project Manager for the design and construction of several water features for the golf course, including water quality and drainage integration.