

## **Glendon W. Berrett, P.E.**

Senior Project Engineer  
TST Inc. of Denver

### **Expertise**

Mr. Berrett has 10 years of experience in engineering and construction support services. As an engineer with TST, he has worked on the design of many diverse projects for Water & Wastewater Treatment Facilities, Water Distribution, Sanitary Sewer Collection and Conveyance, Storm water Improvements, and Roadway & Trail Improvements. This diversity of projects while at TST has provided him with broad based technical abilities in design, coordination skills for interdisciplinary projects, as well as construction administration skills.

### **Education**

B.S. Civil Engineering  
Minor - Economics  
Colorado School of Mines - May 2000  
High Scholastic Honors

### **Significant Continuing Education:**

American Council of Engineering Companies of Colorado – Future Leaders Management Skills II Course – (Current)

### **Registration**

Professional Engineer  
State of Colorado: PE #39284  
State of Wyoming: PE #10713

### **Professional Affiliations**

Member of AWWA (American Water Works Association)  
Boy Scouts of America - Eagle Scout (1993)

### **Experience Summary**

- **January 2000 to Present**  
TST Inc. of Denver – Lone Tree, Colorado  
Design Engineer
- **June 1999 to August 1999**  
**June 1998 to August 1998**  
Rio Verde Engineering – Pinedale Wyoming  
Engineering/Surveying Intern
- **June 1997 to August 1997**  
**June 1996 to August 1996**  
Town of Rangely, Colorado Public Works  
Summer Intern
- **June 1995 to August 1995**  
**June 1994 to August 1994**  
Allred Construction  
Home Construction General Laborer

## **Project Experience**

### ***Water Treatment/Supply & Wastewater Treatment Facilities***

#### **City of Golden Water Treatment Plant Improvements, Golden, Colorado:**

Design and Construction Services for modifications to existing flocculation/ sedimentation basin for split treatment capabilities, dewatering improvements, and sedimentation basin drain pump improvements, and emergency power modifications, sludge dewatering etc.

#### **Todd Creek Reverse Osmosis Water Treatment Plant, Brighton, Colorado:**

Design and Construction services for Reverse Osmosis Facility, including modifications to existing pump station facility. Construction and design required coordinating, electrical, mechanical, structural and architectural design.

#### **Rocky Ford Water Treatment Plant, Rocky Ford, Colorado:**

Design services for proposed improvements to sedimentation basin, filters, and clear well, addition of UV disinfection. Required design report for State review and approval, one of first UV Reactor plants to receive LT2 credit in Colorado. Design required coordination of electrical, mechanical, structural, and architectural. The WTP is part of comprehensive water improvements project administered by USDA/Rural Development.

#### **Bridger Valley, Wyoming Water Treatment Plant, Bridger Valley, Wyoming):**

Construction Services and design modifications for reclaim basin improvements.

#### **Rocky Ford Additional Alluvial Well Supply**

Coordinated construction documents with Well Consultant for alluvial well, also included design of an additional supply line for delivery to the City. The well facility is part of comprehensive water improvements project administered by USDA/Rural Development.

#### **Rocky Ford Wastewater Treatment Plant:**

Project included Site Application & Design Report for review by State for the addition of Chlorination/Dechlorination Improvements. Project administered by the Colorado Department of Local Affairs.

### ***Water Distribution, Sanitary, and Storm Systems***

#### **City of Golden Water Distribution Master Planning & Hydraulic Modeling:**

Ongoing master planning effort for City of Golden's distribution system for hydraulic performance as well as water age analysis for use in prediction of DBP formation within the system. 2007-2008 modeling was used to perform a system specific study for the City's Initial Distribution System Evaluation as required by EPA's Stage 2 Disinfection Byproducts Rule.

#### **Maher Ranch Transmission Main, Lift Station and Force Main, Castle Rock, Colorado:**

Design and Construction Services for 16" transmission main, 12" gravity sewer interceptor, Lift Station and force main for 800 Home subdivision. Project required site application and design report for approvals from regulating agencies.

#### **Metzler Ranch Transmission Main, Castle Rock, Colorado:**

Design and Construction Services for 18" Transmission Main.

**City of Golden Utility Replacement:**

Design services for sanitary, storm and water replacement projects for the City of Golden.

**City of Golden Rimrock Tank Circulation Improvements:** Design for distribution system improvements to increase Tank level fluctuations for water quality improvement. Required modeling of design concept and field testing, designed automatically controlled valve vaults to control flow into the reservoir. Project also included an in-tank mixing system that worked with filling and emptying of the tank. Project also involved Construction Services.

**Cottonwood South Lift Station & Force Main, Parker Colorado:**

Design for 8" force main, and submersible pump lift station. Project required coordination for lift station site application, a process of submittals to local and state regulatory agencies.

**Guernsey Wyoming Level II Master Plan, Guernsey Wyoming:**

Performed hydraulic modeling for Guernsey's distribution system. The Evaluation of the system was for delivery of fire flows within the system and identifying needs for water line upsizing or looping improvements. Upon completion of master planning, water line replacement plans were produced with a supporting report of modeling, and preliminary cost estimates of the proposed improvements.

**Todd Creek Irrigation Pump Station and Expansion, Brighton Colorado:**

Design and construction services for irrigation pump station, including coordination of design with electrical, mechanical, structural engineers, and architect. Coordinated planning and construction document submittals with the City of Thornton. The project also involved construction administration.

**City of Golden Inflow and Infiltration Study & Mitigation Plan:** Performed Analysis of Wastewater flows, as compared to precipitation events, identification of I&I source areas, and a mitigation plan for Compliance with State Regulations. Mitigation plan led to design for wastewater flow monitoring stations within the collection system that would provide flow data into the City's SCADA system.

**City of Golden Bonvue Pump Station:** Included design of closed system, VFD controlled pump station. Design required coordination with architect, and structural and electrical engineers. Hydraulic modeling was performed for selection of pumps and overall pressure zone performance. The project also involved construction administration.

**City of Golden 6260 Pump Station:** Included water modeling for design of pump station to fill an existing tank, as well as master planning the new proposed zone to be served by the pump station and existing tank. The project also involved construction administration.

**City of Golden 6000 North Tank** Included civil site design and overall design coordination for 1.25 MG concrete post-tension tank. The project also involved construction administration.

**Sierra Ridge Lift Station, Parker Colorado:**

Design for submersible pump lift station, and site application, a process of submittals to local and state regulating agencies.

**City of Rocky Ford, Zone I Tank** Included site civil design and overall coordination for 0.75MG steel tank.

### *Development Projects*

**Metzler Ranch, Castle Rock, Colorado:**

Design services for commercial development, including water, sewer, storm, and roadway/parking improvements. The project also required coordination of planning submittals with the Town of Castle Rock.

**Buckingham Mall – Target, Aurora, Colorado:**

Design support for target store site water, storm and parking improvements.

**Lincoln Creek, Parker, Colorado:**

Design for over lot grading, roadway improvements, water and sanitary sewer, storm sewer collection and detention for single/multi-family development within Douglas County, Colorado. Coordination for CLOMR required for project.

**Arvada Ridge, Arvada Colorado:**

Design support for Storm Sewer Improvements associated with commercial project.

### *Roadway & Trail Improvements*

**City of Golden –Trail Improvements:** Design for expanding trail network for city of Golden.

**City of Golden – 19<sup>th</sup> Street Narrowing:** Design for narrowing of existing 19<sup>th</sup> Street Section, for traffic calming purposes including addition of multi-use trails on each side of new section.

**City of Golden – Illinois Street Narrowing:** Design for narrowing of existing Illinois Street Section, project closely tied with 2003 Utility Replacement, and Storm Sewer Improvements associated with traffic calming design.