



PASSION “Only passions, great passions, can elevate the soul to great things.”

-Denis Diderot

WATER PUMPING STATIONS

TRC has a wide range of experience in all types of pumping station projects including transmission system water booster stations, distribution system water booster stations, and sewage lift stations.

48th Street Booster Station

Phoenix, AZ The need for fully redundant power without investing in a large onsite power generation system was one of the technical challenges faced by TRC during this project. TRC responded to this challenge by designing a highly reliable power distribution system consisting of two independent utility services each capable of supporting the entire load of the facility. In the event that the primary utility source fails the power distribution system automatically transfers to a backup utility source for seamless operation. This approach allowed the Owner to forgo the costly expense of purchasing and maintaining a costly 2000KW generator set while allowing for optimum system reliability.



Chaparral Pines Water System

Payson, AZ TRC was proud to provide electrical, instrumentation and controls engineering for one of Arizona’s premier golf communities located in Arizona’s high-country. The project included a booster station, numerous well sites, and a sewage lift station.

Frye Road Pumping Station

Chandler, AZ TRC was engaged to develop a power distribution system and instrumentation and controls scheme within an existing facility which had been completely flooded. Since as-built drawings were not available, and the total damage from the flood was unknown, TRC first performed detailed site investigations to create an accurate picture of the situation. Once the as-built data was collected we were able to develop a design plan that met the Owner’s requirements and fit within the existing facility’s constraints.

Additional Pumping Station Projects

- ◆ Highlands at the Rim, Payson AZ
- ◆ Zone 12/13 Reservoir & Booster Station, Scottsdale AZ
- ◆ Bushway Pumping Station, Chandler AZ
- ◆ Hunt Highway Pumping Station, Chandler AZ
- ◆ Globe Middle School Transfer/Booster Stations, Globe AZ
- ◆ East Loop Road Transfer Station, Phoenix AZ
- ◆ Orangewood Lift Station, Phoenix AZ
- ◆ Sitegreaves Resort Lift Stations, Payson AZ
- ◆ Tolleson Lift Station, Tolleson AZ
- ◆ AWRP Effluent Pump Station Modifications, Phoenix AZ

“We retained TRC for construction administration services in a recent booster station and reservoir project. We found that they worked well with the other team members, responded well to directives for Owner revisions, and provided shop drawing review in a timely manner”.

James L. Condit, P.E. Senior Project Manager
Wood, Patel & Associates, Inc.



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ENGINEERING *“Engineering is a great profession. There is the fascination of watching a figment of the imagination emerge through the aid of science to a plan on paper. Then it moves to realization in stone or metal or energy. Then it brings homes to men or women. Then it elevates the standard of living and adds to the comforts of life. This is the engineer's high privilege.” -Herbert Hoover*

WATER FEATURES

TRC has provided electrical engineering services for numerous water feature projects in Arizona and California. These projects typically include lake water recirculation, irrigation pumping stations, aeration systems, fountain pumps and controls, and underwater lighting fixtures.

WATER FEATURE PROJECTS

- ◆ Rio Salado Water Features, Tempe AZ
- ◆ Trilogy at Vistancia Water Feature, Vistancia AZ
- ◆ American Ranch Water Feature, Prescott Valley AZ
- ◆ Dublin Ranch Water Feature, Dublin CA
- ◆ Sossaman Estates Water Feature, Maricopa County, AZ
- ◆ Maricopa Meadows Water Feature, Maricopa, AZ
- ◆ Power Ranch Water Feature, Gilbert AZ
- ◆ Goodyear Planned Regional Center, Goodyear AZ
- ◆ Province Water Feature, Pinal County AZ
- ◆ Cobblestone Farms Water Feature, Phoenix AZ
- ◆ San Tan Heights Water Feature, Pinal County AZ
- ◆ Old Stone Ranch Water Feature, Chandler AZ
- ◆ Laveen Farms Water Feature, Laveen AZ

“TRC provides a great service and has been very responsive to our needs. Although we are in California and TRC is in Arizona, we still work well together.”

Sonny O. Sim, P.E.
Vice President – Recreational Water Features
Pacific Advanced Civil Engineering





TAYLOR RYMAR
CORPORATION

COMMITMENT *"Individual commitment to a group effort -- that is what makes a team work, a company work, a society work, a civilization work."* Vince Lombardi

WATER & WASTEWATER TREATMENT

TRC has been involved in several projects involving modifications and upgrades to water/wastewater treatment plants.



Pecos Road WWTP Phoenix, AZ

The engineers at TRC were called on to figure out why several booster pump motors were routinely failing to start. With production capacity in jeopardy time was of the essence. TRC quickly determined the source of the problem and conceived an economical solution which quickly put the plant back in full production.

Deer Valley WTP Phoenix, AZ

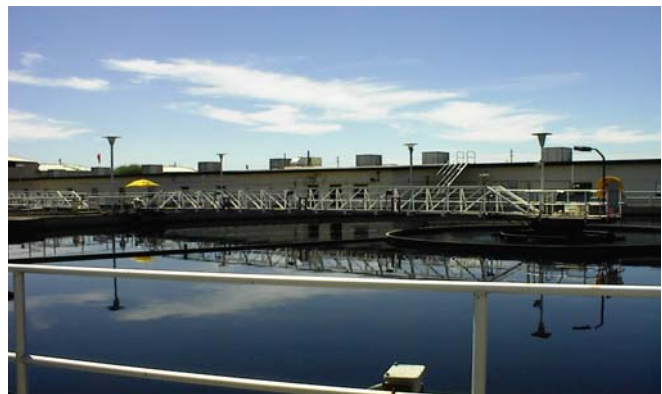
TRC provided electrical engineering for recent upgrade projects at this water treatment plant. System improvements included system wide improvements to the dewatering building and the addition of blowdown valves at the presidimentation facility. All construction drawings were provided using City of Phoenix Water Department AutoCAD drawing standards.

Lone Butte WWTP Phoenix, AZ

The Lone Butte WWTP was in dire need of system improvements to ensure reliable production. TRC performed engineering studies to determine what was needed to ensure peak system performance. It was determined that major renovations to the power distribution system were in order. Based on the findings of our study, TRC designed system wide upgrades including replacement of service gear, new motor control center equipment and a new stand by power system.

Anthem Water Campus Electrical Engineering Studies Anthem, AZ

TRC provided an in depth engineering study consisting of a short circuit study and an overcurrent device time/current coordination study for recently expanded facilities at the water campus treatment plant. The study evaluated the power distribution system's ability to safely clear short circuit events and determined the best settings of adjustable overcurrent devices to maintain peak system reliability.



"I have personally used the services of Taylor RyMar Corporation as an electrical sub consultant on a number of water and wastewater projects for municipalities in the Phoenix metropolitan area. Their staff of engineers have always been courteous, responsive and extremely knowledgeable. The quality of their designs have been excellent. I would not hesitate to employ their services again anytime the opportunity arises." Fred Renn, P.E. Project Manager
Burgess & Niple, Inc.