



CANYON RIM WATERLINE

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Project Location:

Tooele, Utah

Project Description:

The third phase of Canyon Rim Estates was separated from the first two phases because of inadequate water pressure due to the elevation of the site and was the last to be built. To develop the third phase a water source from a higher pressure needed to be connected to the site.

Wilding Engineering, Inc. designed the water system extension to Canyon Rim Estates Phase 3. The supply of water serving the upper area was inadequate to serve additional connections and it was necessary to pump water from a lower tank to a tank in the upper area. Because of the 640 foot difference in elevation from the tank to the pump house, the project area was divided into five pressure zones. Air and vacuum valves were installed to reduce flow problems caused by air and prevent pipe collapse. To save installation costs, the line between pump and tank served both as the pump line and the service line.

Because of the agreement between the developer and the city, the water connection to Canyon Rim had to be put in place by a fast approaching deadline. It was decided the quickest solution would be to have the pump station prefabricated and shipped to the site. The pump station design was a joint effort between Wilding Engineering, and Engineered Fluid Incorporated. Wilding Engineering, Inc. worked closely with the client, the city, and the contractor to be sure the new waterline would be installed on time, the foundation for the pump house would be ready, the pump house delivered and installed and have power and be operational by the time the deadline arrived.

The agreements were met and the subdivision now has water service at an adequate pressure.