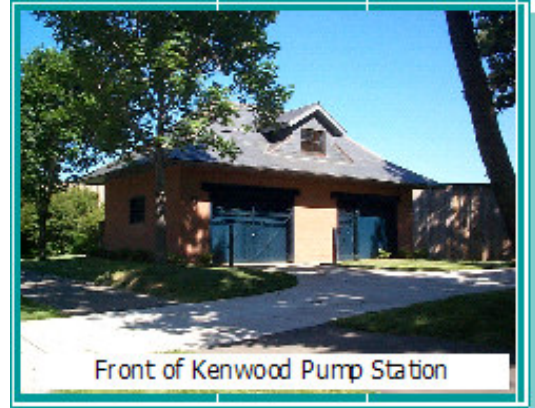


Kenwood Pump Station Improves System Performance

In 1980 the original Kenwood Pump Station (KPS) was abandoned and the Kenwood High Service Area (KHSA) was integrated with the North High Service Area. However, the system pressures in the Kenwood area were marginal. The new KPS was constructed for redundancy, and to improve system pressures and the available fire flows.

The project required significant proactive design discussions to create a context sensitive design that fits into the surrounding historic Lowry/Kenwood neighborhood. Several meetings with the Lowry Hill Residents, Inc., a local consortium of businesses, and residential representatives were held to address the group's concerns. These concerns were incorporated into the design of the pump station resulting in strong public support for the project.



The Kenwood Pump Station consists of a 40' x 22' building with a 3,000 gpm pump, a 2,000 gpm pump, and room for an additional 2,000 gpm pump.



The pumps are equipped with variable frequency drives (VFD) to meet a wide range of system demands. The widely varying flows required an accurate Venturi meter with two sets of separate differential pressure taps calibrated for low and high flows, respectively. The operations based design includes an over head crane rail for servicing the pumps as well as an overhead garage door for truck access to the pump station. Discussions and coordination meetings were held with the Minneapolis Water Works' (MWW) staff to ensure all of their operations and maintenance needs were incorporated into the final design of the Kenwood Pump Station.

The construction of the Kenwood Pump Station was accomplished with minimum disturbance to the surrounding neighborhood and Interruption to the use of the recreation trails running through the site. Construction costs of \$427,900 were nearly identical to the design team's estimates, with change orders totaling less than 2% of the total construction costs.

Client Contact: Karl Streed
Client: Minneapolis Water Works
Year Completed: 1999
Cost: \$427,000



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