

DODSON STREET PUMPING STATION—GENEVA



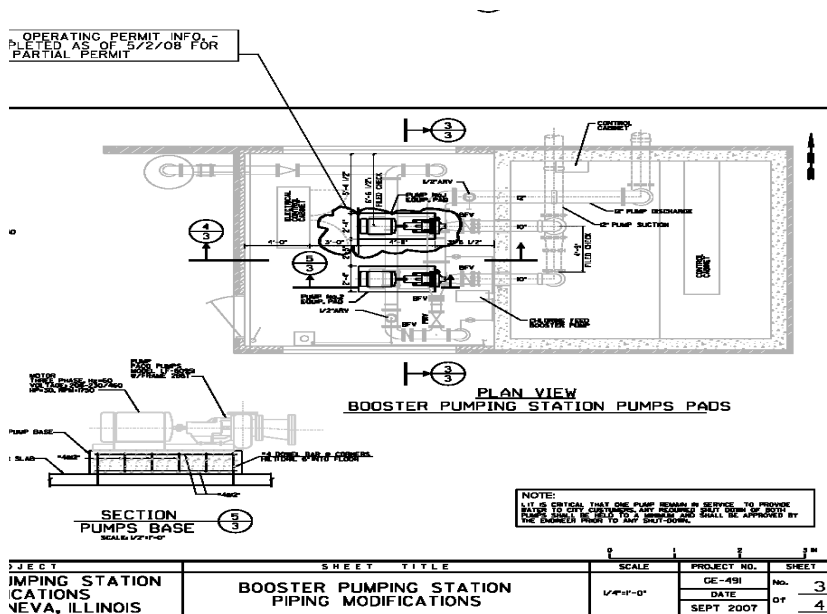
Client: City of Geneva

The demands of the higher pressure zone system required a larger set of pumps but the distribution system supplying the water was of limited capacity and would require throttling of the flow into a water storage tank.

Rempe-Sharpe:

- ◆ Developed water demands for the City as a whole and for the separate high pressure zone.
- ◆ Developed a computer model of the two distribution systems to determine pumping conditions at normal and extreme water demands.
- ◆ Evaluated various pump and impeller sizes and various rotational speeds of the pumps.
- ◆ Evaluated and changed the automatic control valve from hydraulic actuated to electric actuated, thereby allowing flow control through the valve controller.
- ◆ Prepared Distribution System Head Curves and pump curves (with individual piping losses) for the various pumping rates and demand conditions.
- ◆ Selected pumping equipment to meet demands and to allow the City to install Variable Frequency Drives in the future as a second phase.
- ◆ Prepared design drawings and specifications.
- ◆ Provided shop drawing reviews and construction related services.

Pumping Station Addresses High Pressure Zone Water Demands



The project gave the City the ability to control withdrawal rates from the low pressure system and provided increased capacity to high pressure system. The new pump installation was designed to minimize existing piping changes and provided space and connections for a future Variable Frequency Drive.

REFERENCE:

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**Plans, Specifications and Estimates
by Rempe-Sharpe**

