

Connor Creek Estates Pump Station and Gravity Sewers

Unified Government of Wyandotte County / Kansas City, Kansas



DRG provided study phase services for the construction of wastewater collection system improvements to accommodate growth and development in the Connor Creek Watershed of Wyandotte County. The study resulted in the recommendation to construct a new 600-gpm pump station in conjunction with the installation of over 2,100 lf of 15-inch interceptor sewer and approximately 2,700 lf of 8-inch force main. The flows are transported to a Wolcott Wastewater Treatment Plant located near the Missouri River.

The pump station include three wet-pit submersible pumps, a valve vault, a channel grinder manhole, a 55-kW standby generator, and a prefabricated fiberglass structure to house the station's electrical equipment. The electrical equipment installed within the structure included a motor control center, a PLC control system, and variable-frequency drives for each of the pumps. The design included provisions for the future addition of peak-flow diversion pumps and a 250,000-gallon holding tank. The project allowed for abandonment of an old existing WWTP serving a small development.



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