

Rewire Cottage Living Quarters Parsons State Hospital and Training Center – Parsons, KS

Kansas Department of Social and Rehabilitative Services

The Kansas Social & Rehabilitative Services requested engineers from **DRG** to investigate the electrical systems in these buildings and provide a study with recommendations. Numerous safety issues were noted as well as a general inadequate distribution of power. **DRG** therefore recommended that the electrical service serving the cottages and the majority of the wiring in them be replaced. The SRS then retained **DRG** to perform the engineering design services. Due to uncertainties in available funds, this work was divided up into four bid packages to be spread out over approximately one and one-half years.

The cottages had been found to have significantly inadequate electrical service due to the many electrical devices, such as computers, currently in use. Therefore the electrical service into each cottage was increased from 125 amps to 400 amps. To supply power to the new feeders, a new 800A switchboard and 300kVA 4160-208/120V 3-phase transformer was installed for every three cottages. Unlike the existing switchboards which were located in the basements, the new switchboards were placed outside, thereby providing safe and easy access.



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