



PROJECT REPORT

Shenandoah Valley Juvenile Center

CLIENT: SV Juvenile Center
LOCATION: Verona, Virginia
ARCHITECT: Moseley Architects
CONTRACT: \$8.8 million
COMPLETED: September 2003

Special Features: Nielsen served as the construction manager on this job. The scope of the project included construction of a 32,000-square-foot structure to house up to 56 juveniles ages 9 to 18. The building includes five "pod" areas, which have resident sleeping rooms and a common dining area. The building also includes a large industrial kitchen, as well as a game room and outdoor athletic area. The building also contains a gym and school classroom wing.

The center has all the features needed for a LEED (Leadership in Energy and Environmental Design) certification, although it was never actually certified.

Geothermal energy is achieved through 100 350-foot deep wells under the parking area. The geothermal heating saves about 25 percent on energy bills. The roof is white, which reflects the light and heat. All paint and glue used are environmentally friendly. The flooring is linoleum, which is a natural wood product. At least 25 percent of all construction materials were recycled. The lights in the parking lot avoid any light pollution in the area by casting their beams downward instead of up into the atmosphere. A minimum amount of asphalt was used on the site. All offices include lights that shut off automatically after a set time period. Additionally, all light bulbs are low energy fluorescent bulbs. The domestic hot water heater has a dual system with both gas and electric. The owner can choose the type of energy to use based on the current cost of the energy. Youth Today newspaper, March 2006, names the center one of the most well designed centers in the country.