

RSW REGIONAL JAIL FRONT ROYAL, VA



Size: 587,000 S.F.
Budget: \$52,000,000
Bid: TBD
Est. Completion: 2014

The new RSW Regional Jail is to be located in Warren County, Virginia. The jail will serve Rappahannock, Shenandoah, and Warren County, with an initial capacity of 375 inmates. The facility will blend in with neighboring facilities without the visible features such as razor ribbon, observation towers, or high mast lighting that some might associate with a correctional institution. The front of the building will be brick with stone accents. The jail will pursue LEED® certification with the US Green Building Council, and will be designed to implement high performance and sustainable features including water saving systems, high-recycled content and regionally manufactured materials, and the General Contractor will be required to recycle more than half of all the construction waste. Select high performance and sustainable design features also include:

- encouraging alternative transportation by providing bicycle racks and preferred parking for low-emitting and fuel-efficient vehicles;
- landscaping 44 percent of the open space with native or adaptive vegetation to reduce water use by eliminating the need for irrigation, and promoting biodiversity;
- installing highly reflective roof materials to minimize the heat island effect and keep the building cool;
- using a vacuum-assisted flushing system through the project will result in a 40 percent reduction of potable water usage;
- using a cistern for collecting rain water for re-use in the laundry facility and to feed the HVAC cooling tower;
- increasing insulation, modular chillers, and energy recover wheels to result in a 20 percent savings on energy bills;
- employing a healthy indoor air strategy by using non-toxic paints, adhesives, and other materials that contains no or low volatile organic compounds; and
- achieving innovation in design by using a non-chemical water treatment process for the ongoing maintenance of the cooling towers.