



Jenny's Floral Shop – Custer, SD

This project replaces a historic floral shop in downtown Custer. Jenny and her staff provide floral services to this community utilizing a little over 8200 SF. Her new shop includes a large retail space, a production area, a consultation living space, seasonal storage, receiving, two walk-in coolers, and exterior spaces consisting of Plaza sales and display and an exterior greenhouse. General contracting for this project was provided by her husband.

Project Data

Owner

Jenny Behlings
605-673-3549

Location

Custer, South Dakota

Building Type

Floral Shop

Building Area

8,200 square feet

Mechanical Systems / Features

High Efficiency Packaged Roof top Heat Pump
Fire Protection
Two walk-in Coolers

Electrical Systems / Features

New Underground Service
Track, Courtyard & Façade Lighting
Communications Connectivity
Fire Alarm

Construction Cost

\$430,000

Completion Date

Spring 2008

Mechanical Engineering

To maintain simplicity of design, operation and maintenance, a high-efficiency packaged heat pump was specified for this facility. Spiral duct in conjunction with flush mounted diffusers were incorporated in the design as well. This approach had the supplemental effect of keeping installed costs lower while providing an energy efficient system that blended nicely with the architectural features of the interior. The heat pump was equipped with auxiliary electric heat sized for full heating load. To facilitate energy savings, the heater is controlled with an SCR controller allowing for infinite control of the discharge temperature. HVAC control consisted of 7-day programmable thermostats.

To further augment the energy efficiency of the building, the roof top unit was provided with an airside economizer to take advantage of "free" cooling typically available in the Hill City area.

Skyline also designed the plumbing systems for this building. The facility required underfloor plumbing to feed the island sink areas. In addition, a specialized floral "food" machine was incorporated and piped to each sink.

Electrical Engineering

Lighting for this production and retail space mixed traditional efficient space lighting with track lighting to provide effective lighting with high color rendering index to bring out the floral colors. To minimize cost, the facility design used unitary emergency lighting.

A new underground power services powered the 600 amp, 208v, 3-phase electrical service.

Special systems for the facility included: fire alarm and communications connectivity.