

BERRY ARCHITECTURE + ASSOCIATES

RED DEER, AB, CANADA

ADMINISTRATION

PROMOTING SUSTAINABLE OFFICE SPACE

This project transformed the former Red Deer Bowladrom into a sustainable, LEED® Gold certified facility, housing Berry Architecture + Associates and Downey Roth Hrywkiw Fidek Chartered Accountants in an office space that features lighting, heating, and ventilation zones; open spaces with natural light; motion sensors for energy reduction; and a green roof featuring a patio, local plants, butterfly gardens, bee boxes, hummingbird nests, herb/vegetable gardens, solar panels, and water collection.

PROJECT DETAILS

Reliable Controls Authorized Dealer, Independent Control Services, Ltd. recently completed a project transforming an unoccupied bowling alley into a LEED Gold certified facility used for office space.

The networked hardware in this project included BACnet/IP communication and control of a third-party air handling unit, BACnet/MSTP communication of a third party humidifier, and BACnet/MSTP communication of all MACH-Air controllers to the MACH-ProWebSys. The mechanical equipment included 40 VAV boxes with MACH-Air controllers, 2 condensing boilers, and solar panels on the roof to allow for solar heating of domestic hot water.

The building's water usage is tracked and logged, and the facility reduces water usage by collecting rainwater for toilets. Natural gas usage is also reduced through the installation of solar panels on the roof. This project demonstrates that a small, professional business can have a huge impact on the environment. The space is comfortable to work in, pleasant to visit, and respectful of the environment, while acting as a model of how to marry beautiful, functional, and sustainable design in central Alberta.

To learn more about projects using Reliable Controls® visit www.reliablecontrols.com/projects/overview

**PROJECT TYPE:****Retrofit & New Construction****INSTALLATION TYPE:****Boiler, CO₂ Monitoring, HVAC, VAV, Water Monitoring****TOTAL AREA:****8,000 m² (86,111 ft²)****EQUIPMENT INSTALLED:****1 MACH-ProWebSys™****2 MACH-ProPoint™****40 MACH-ProAir™****NETWORK:****EIA-485, Ethernet****INTEGRATION:****BACnet®****TOTAL SYSTEM POINTS:****170 points****RELIABLE CONTROLS® DEALER:****Independent Control Services, Ltd.**

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