

GRANDE PRAIRIE REGIONAL COLLEGE

GRANDE PRAIRIE, AB, CANADA

EDUCATION

THE GRAND TOUR

Grande Prairie Regional College (GPRC), known for its iconic main campus building designed by Canadian architect, Douglas Cardinal, is a comprehensive community college with two campuses attended by 2,000 students in credit programs, and over 6,000 in workforce training and recreational programs.

PROJECT DETAILS

The project's two-year scope called for the removal of the facility's pneumatic controls in favour of the Reliable Controls® MACH-System with the least impact on day-to-day facility operations. Due to the unique design of the facility's architecture, challenges on the project involved retrofitting the digital controls while maintaining the esthetics of the facility. To form the backbone of the new system, 19 MACH-ProSys™ and 3 MACH-ProCom™ BACnet Building Controllers were connected via Ethernet to the college's Intranet to be externally accessible via VPN. All BACnet® subcontrollers currently utilize an MS/TP connection to their corresponding main controller.

At the time of the project, the existing mechanical equipment consisted of a main heating plant with High Efficiency Boilers, a main cooling plant with absorption chiller, 22 main Air Handling Units, complete with Variable Air Volume control, perimeter radiation, and reheat. Working closely with the facility owner, Reliable Controls® Authorized Dealer, Serv-All Mechanical Services, was able to maximize energy savings while maintaining required levels of comfort and control by employing the SSL-OC controller's motion sensors in areas of intermittent usage.

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



PROJECT TYPE:

Retrofit

INSTALLATION TYPE:

Boiler, Chiller, CO2 Monitoring, HVAC, Lighting, VAV, Water Monitoring

TOTAL AREA:

90,000 m² (968,752 ft²)

EQUIPMENT INSTALLED:

**1 MACH2™
3 MACH-ProCom™
3 MACH-ProZone™
5 MACH-Zone™
12 MACH1™
15 MACH-Stat™
19 MACH-ProSys™
281 MACH-Air™**

NETWORK:

EIA-485, Ethernet, Wireless

INTEGRATION:

BACnet®

TOTAL SYSTEM POINTS:

3,000 points

RELIABLE CONTROLS® DEALER:

Serv-All Mechanical Services

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