

Caisse Financial Group Building

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Winnipeg, Manitoba



Project Description

KGS Group provided mechanical and electrical design services for the design and construction of a new four storey, \$10 million office building, complete with a credit union branch on the main floor, in Winnipeg, Manitoba. KGS Group provided conceptual and detailed design as well as contract administration services for the project. KGS Group was involved in the budgeting process and attended regular site inspections and construction meetings to resolve project issues and assess the progress.

A collaborative design approach was taken toward energy efficient design. Features of this 34,000 square foot building and notable work on the project include:

- "Heat Wheel" energy recovery system which recovers both sensible and latent energy from the exhaust air. Heat is also recovered from the ceiling plenum for space heating. CO₂ controlled ventilation and high efficiency condensing boilers further reduce operating costs.
- DDC control of mechanical systems, programmed to optimize energy efficiency.
- Lighting control system for all exterior and common area lighting. Occupancy sensor controlled lighting for offices, washrooms, and service rooms. Boardrooms have local lighting controls via the audio visual system.
- Hydro Power Smart energy efficient fluorescent lighting throughout the facility and dark sky compliant exterior building and parking area lighting
- Data center complete with a central 40kVA UPS with a full bypass system and fully monitored pre-action and gaseous fire protection systems. Electrical distribution was designed to allow easy installation of a future 200kW generator to the roof.
- Hydro, MTS and Shaw site services upgrade for the whole block were changed from an overhead system to an underground system to accommodate the new building.