



# LETHBRIDGE FIRE HEADQUARTERS



The HIDI Group provided mechanical consulting services for the new Lethbridge Fire Headquarters in Lethbridge, Alberta. The fire station, administration and emergency operations centre established sustainability as key design criteria. As such, the facility was designed to include passive mechanical design elements including external shading and natural ventilation of the common areas. Zoned radiant heating and cooling panels provide individual temperature control, in conjunction with the zoned displacement ventilation system. The heat recovery system is integrated with the cooling system to allow the heat generated from the call centre and associated IT support to offset heating requirements. The building is estimated to successfully reduce energy and water consumption by over 50% and 40% respectively.

**8** DISCIPLINES  
 MECHANICAL  
 ELECTRICAL  
 PLUMBING  
 LIGHTING DESIGN  
 COMMUNICATIONS & AV  
 SECURITY & RISK  
 COMMISSIONING  
 ENERGY SERVICES

**LOCATION** Lethbridge, Canada  
**OWNER** City of Lethbridge  
**ARCHITECT** Ferrari Westwood Babits Architects  
**SIZE** 35,000 ft<sup>2</sup>  
**PROCUREMENT TYPE** Design-Bid-Build  
**COMPLETION YEAR** 2011  
**CONSTRUCTION VALUE** \$10 Million CAD  
**MARKET SECTOR** Institutional