LETHBRIDGE COLLEGE TRADES AND TECHNOLOGY RENEWAL AND INNOVATION PROJECT (TTRIP)

The Lethbridge College Trades and Technology Renewal and Innovation Project (TTRIP) is a state-of-the-art multi-story educational facility that delivers hands-on training and experimentation. Housing spaces for heavy equipment, welding, electronics, simulation, technology labs, wind energy, automotive programs, classroom instructional areas, and learning commons, the project integrates four technology and eight trades programs under a single roof for heightened levels of collaboration.

8 DISCIPLINES

- MECHANICAL
- ELECTRICAL
- PLUMBING
- LIGHTING DESIGN
- COMMUNICATIONS & AV
- SECURITY & RISK
- COMMISSIONING
- ENERGY SERVICES

The HIDI Group provided mechanical and plumbing consulting for this $65 million project in Lethbridge, Alberta. Designed by Sahuri + Partners Architects with Diamond Schmitt Architects, the project focuses on reducing energy consumption through a combination of passive and active sustainable principles.

Scope of the project required complete HVAC, fire protection, plumbing, specialty systems and controls systems for the Lethbridge College Trades

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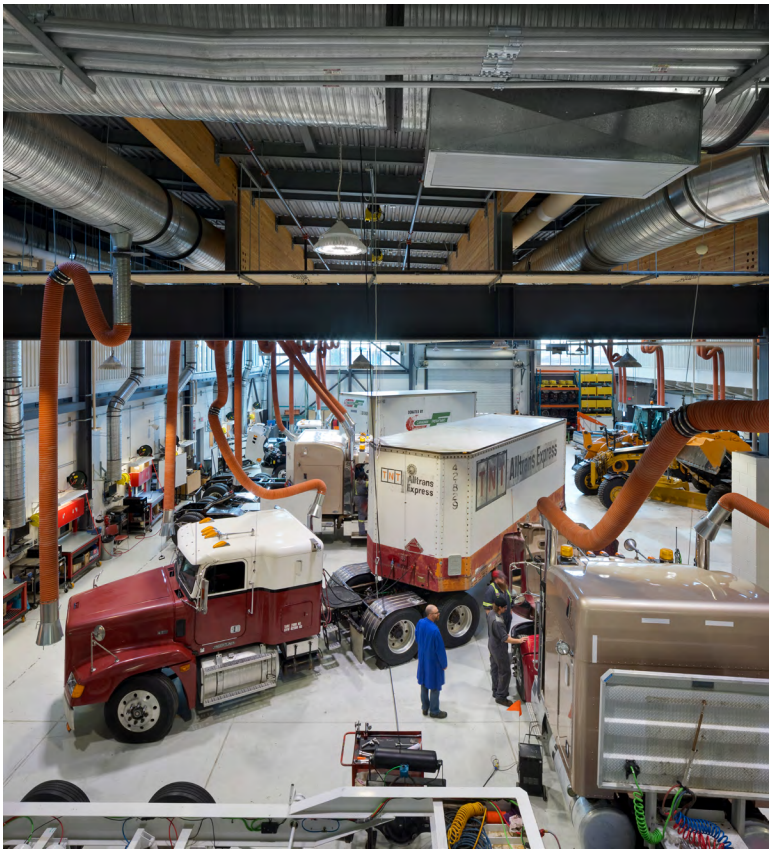

and Technology Renewal and Innovation Project (TTRIP). Project was phased to include a new addition, and the demolition/re-construction of the existing trade space. The total area of the project is approximately 165,000 ft^2. The plumbing systems, including domestic cold and hot water, sanitary and storm drainage, designed to accommodate diversified design flow of connected fixtures. The plumbing scope also included portable water systems both hot and cold, domestic hot water heater system, pressurized hot water system, emergency eye wash/shower, compressed air systems, welding piping systems.

Specialized ventilation was designed as per the clients' needs which included underground exhaust for automotives, overhead exhaust for diesel heavy equipment, ventilation for dynamometer rooms, extraction systems for fiberglass booths and work areas and for welding, grinding and gouging stations. Other items provided included fire protection, heating and cooling plant (hot water generation, chilled water generation), and BAS.

Lethbridge College TRIPP was registered with the CaGBC and targeting LEED Gold certification.

LOCATION: Lethbridge, Alberta
CLIENT: Diamond Schmitt Architects Inc.
DSAI + Sahuri partnership
OWNER: Lethbridge College
ARCHITECT: Diamond and Schmitt Architects Inc.
SIZE: 165,000 ft^2 **CONSTRUCTION VALUE:** $65 Million CAD
PROCUREMENT TYPE: Construction Management
COMPLETION YEAR: 2017
LEED: Gold (Target)
AWARDS: Prairie Wood Design Award
MARKET SECTOR: Institutional