

PROJECT PROFILE



Ted Handy Architects

**MUNDYS BAY ELEMENTARY SCHOOL,
MIDLAND, ONTARIO**

The new building was designed with environmental sustainability in mind. The community and school board's mandate was an energy efficient green building.

The school is a replacement of Parkview Public School. Requirements developed during pre-construction included:

- The existing school needed to be fully operational during construction.
- The new building was oriented to take advantage of natural daylighting.
- A cistern was installed to capture roof rain water for toilets and irrigation.
- An enhanced building envelope was incorporated for improved energy efficiency.
- Operable sky lights were installed for natural ventilation and to introduce daylighting in the corridors.

Statistics:

Gross Floor Area

4,645 m² (50,000 sf)

Construction Cost

Total \$ under construction

Mechanical \$ under construction

Reference

Simcoe County District School Board

Mr. Ron Merrifield

Project Manager

705.734-6363 x11308

GOAL: LEED NC

Certified Gold

HVAC systems installed include:

- A Termodeck system to pre-heat or pre-cool the building core slab during off peak hours to provide passive heating or cooling during the building occupied times.
- A ground source heat pump loop to provide the heating and cooling energy.
- Minimum ventilation rates are maintained efficiently through the use of heat reclaim wheels on the air moving equipment to recover energy lost from exhaust air.

CFMS was the commissioning consultant engaged to assist the design team to achieve the Best Practise credit, EAc3 toward LEED certification. Our services included:

- Review of the contract documents.
- Development of the commissioning plan.
- Verification of DDC system and BAS.
- 100% performance testing of HVAC systems.
- Co-ordination of mechanical equipment and systems training, including video-recording.
- Preparation and presentation of systems re-commissioning manual.
- Seasonal performance testing of HVAC systems.