WESTMOUNT COLLEGIATE INSTITUTE

OWNER: York Region Board of Education
Vaughan, Ontario

PROJECT ARCHITECT: Carruthers Shaw & Partners Limited

SYSTEMS DESCRIPTION

Mechanical

- Two centrifugal chillers using HFC-134a refrigerant.
- Two gas fired, forced draft, hot water, cast iron sectional boilers for heating
- One gas fired, forced draft, steam, cast iron sectional boiler for humidification
- Induced draft cooling tower
- Custom factory fabricated variable air volume and constant volume air handling units with return fans
- Hot water radiant ceiling panels
- Fan powered terminals for variable air volume applications
- Direct digital control building automation system

Electrical

- 347V fluorescent lighting, utilizing 34W lamps and energy saving ballasts.
- 120/208V and 600V power distribution, including separate power panels for each lab and shop, individually controlled-power 'on' - 'off' button.
- Fire alarm system is single stage, microprocessor based, fully addressable.
- The P.A./telephone system is fully integrated utilizing touch-tone handsets in each classroom and office for interior/exterior communication.

PROJECT DESCRIPTION

This jointly owned project consists of a new secondary school, community centre, arena, theatre and daycare centre.

This multi-use approach to building and site design achieved savings in infastructure costs, common building components and a greater sense of community focus.

The gymnasium and change rooms, of the school, are clustered to relate to the arena and the community centre for shared use.

In addition, the theatre is located such that it can be used as an academic resource to the school's programs in art and music.