



City of Hamilton

Architects: **RDH - Rounthwaite Dick and Hadley Architects Inc.**
Consultants: **Jain & Associates Ltd.**



North Wentworth Twin Pad Arena:

The North Wentworth Twin Pad Arena is designed to be fully accessible and meet the recreational requirements of today. The facility has been designed to accessibility standards far more stringent than the Ontario Building Code to allow all members free use of the facilities.

The arena uses a pre-engineered steel frame which has been configured in a non traditional way to give the facility a modern look in an economical way. The master site plan involved the relocation of two soccer fields, the preservation of the existing single pad arena and accommodating a proposed Ministry of Transportation highway interchange.

Project Highlights:

- First stage is geothermal (use of underground heat) and therefore utilizes free heating
- Second stage for heating uses a thermal equalizer tank that gets heat from arena re Fridgeration
- Special heat pumps are capable of running between 4.4oC to 32.2oC

Project Details:

- Boiler Heat Loops
- Main loop boiler to boiler modulated for last stage of heating
- Heat pump loops serves heat pumps throughout the arena
- Also used for free cooling when possible
- Last stage of heating is supplemented by a boiler loop
- Chiller is used for the arena

The North Wentworth Twin Pad Arena is a 8,500 square metre building located in Flamborough, Ontario. Designed in association with David Premi Architects of Hamilton, the new facility will replace an existing single pad arena and community hall, which will be demolished upon completion.



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