



# NATIONAL BANK TRADING FLOOR



The HIDI Group was engaged by WZMH Architects to provide electrical and communications services for the National Bank of Canada's (Banque National du Canada) large new trading floor in a space that once housed the main trading floor of the Toronto Stock Exchange. The project included 30,000 ft<sup>2</sup> of space on one large floor plate, including the entirely column free trading floor.

The scope of work included the construction of a new server room and a large central UPS and Blade Server technology for connecting the traders to the corporate trading data centre located in Barrie, Canada. A raised floor was constructed on the existing floor slab for power and communications cables. Each of the 177 traders is equipped with six data cables and four voice cables, as well as four quad electrical outlets. This trading floor uses dramatically less energy than a traditional trading floor because of the complete elimination of PC's at each trader's desk.

The lighting for the floor uses a tiered fluorescent indirect system from the perimeter valence to produce glare-free illumination for the traders' desks.

## Sustainability Initiatives

This trading floor uses dramatically less energy than a traditional trading floor due to the complete elimination of PC's at the desks. The display screens are connected to the Blade Servers over a Canadian technology called PCoverIP, which delivers the pixels to the traders screen directly over Ethernet, supporting four super-high res screens at each desk, for each pair of cables. This resulted in an electrical and cooling savings of 140KW.



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

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- LOCATION** Toronto, Canada
  - CLIENT** National Bank of Canada
  - OWNER** National Bank of Canada
  - ARCHITECT** WZMH Architects
  - SIZE** 30,000 ft<sup>2</sup>
  - CONSTRUCTION VALUE** \$12 Million CAD
  - COMPLETION YEAR** 2010
  - SECTOR** Commercial Interiors
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