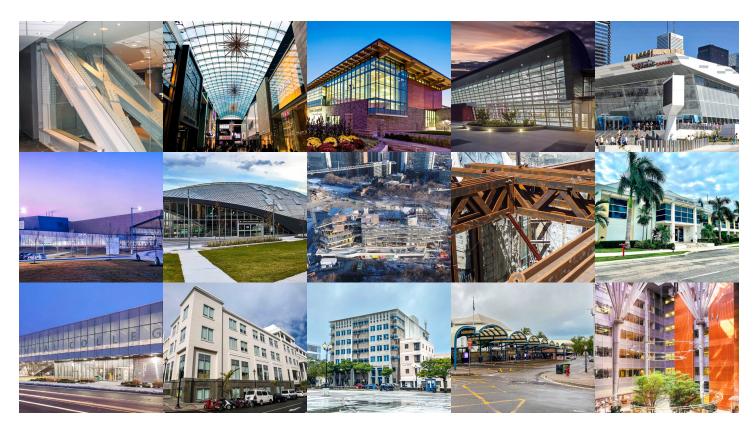


## BENSON

...because performance matters™

## PROJECTS PORTFOLIO



With nearly 44 years of business experience, we have done work in many different locations across Canada and around the world including Tanzania, Bermuda, Grand Cayman, Mexico, the Canadian High Arctic, Turkmenistan and in 2019, the United States of America.

From industrial, commercial and institutional structures to bridges and special design projects we have done an exceptionally wide range of work.

Over the years, we have earned a reputation of integrity and commitment to finding the best possible solutions that in turn allows us to exceed our clients' expectations.

Durability, strength, flexibility and resistance to weather, are attributes of metals used in the construction industry and they all serve a wide range of functions.

Carbon steel, aluminum, copper tubing and stainless steel are all durable, strong and corrosion resistant metals that are frequently applied in the building industry.

On every one of our projects, the structural steel is fabricated off-site at our plant in Bolton, Ontario. At the right time in the project's schedule it is brought to the construction site and rapidly erected, accelerating the overall project schedule.

#### STRUCTURAL STEEL

Structural Steel is the common choice to erect complex buildings designs due to its high strength-to-weight ratio and flexibility.

#### **METAL DECK**

Metal deck panels provide excellent lateral diaphragm action. They come in many thicknesses of Galvanized steel.

#### **MISCELANEOUS**

Steel is versatile, cost effective, resilient and sustainable, which is what makes it the ideal building material.

Structural steel frames provide a wide range of options for addressing a project's design requirements. It can be rolled, curved, and integrated into irregular building shapes.

At Benson, we provide a full range of services from design, detailing and construction engineering, through fabrication of special steel pieces and erection to special finishes with architectural features.









# Baycrest Home for the aged

TORONTO, ONTARIO.

Winner of the 2000 CISC Ontario Steel Design Awards – Architectural Category

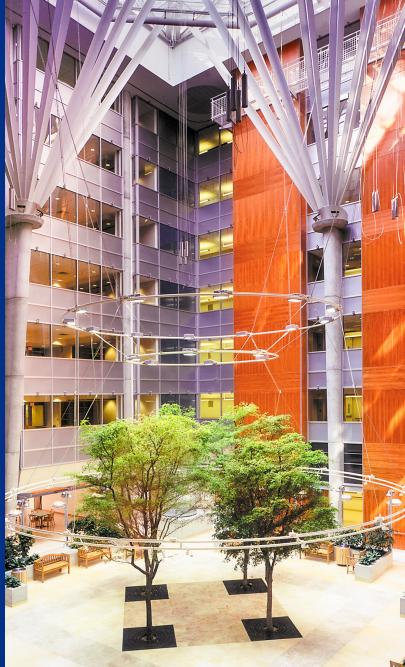
**Toronto Construction Association Best of the Best Award, 2003** 

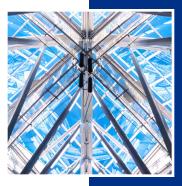
Stelco Ontario Steel Design Award of Design Excellence, 2003

Ontario Association of Architects Award of Design Excellence, 2004

The new 472-bed Apotex Centre, Jewish Home for the Aged opened its doors in 2000.

















## Etobicoke Hospital



#### **ETOBICOKE, ONTARIO**

IN 2016 BENSON STEEL fabricated the structural steel for the construction of a new four-storey tower, that hosts the addition to the Etobicoke General hospital.that added 250,000 sq. ft of space to the existing facility.

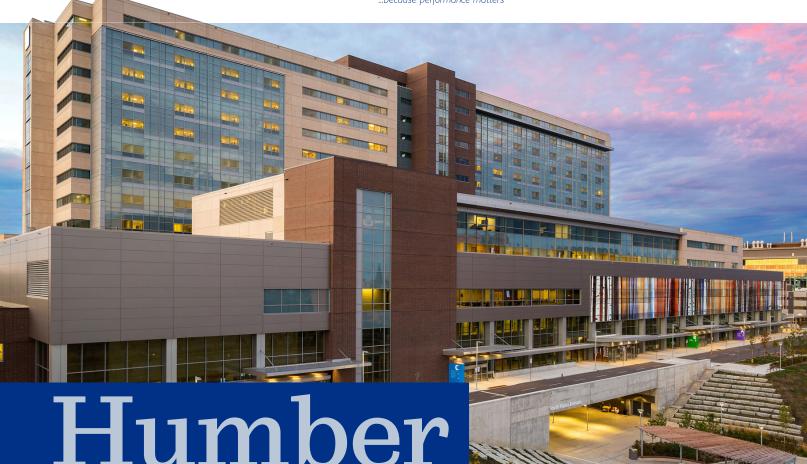
Etobicoke Healthcare Partnership; Developer: Axium Infrastructure Canada and DIF Infra 4 Canada Ltd.; Constructor: Walsh Canada; Architects: HDR Architecture Associates Inc.; Financial Advisor: Brookfield Securities LP; Facility Manager: ENGIE Services Inc.











## Humber River Hospital



#### TORONTO, ONTARIO

**IN 2012 BENSON STEEL** started fabricating the structural steel for the Humber River Hospital.

The facility includes a 14-storey, state-of-the-art acute care hospital complex equipped with expanded emergency services, diagnostic services and modern infectious disease containment systems, a separate central utility plant and 2,000 parking spaces in two parking structures and some surface parking.

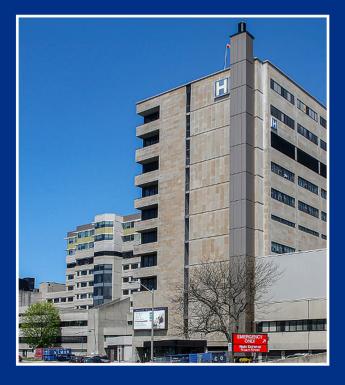
The 1.7 million square feet facility operates 656 beds and it has capacity to expand to 722 beds by 2025/2026. if needed.

The design and construction adhere to the guidelines and principles of the LEED rating system, with a goal of achieving LEED Silver certification.



# Kingston General Hospital









#### KINGSTON, ONTARIO

**IN 2008 BENSON STEEL** fabricated and erected the steel structure for the redevelopment of the Kingston General Hospital (KGH) under a contract with PCL Constructors Canada Inc.

This project consisted of 170,000 square feet of new construction and renovations to the existing 143,000 square foot facility.

The redevelopment project improved patients' access to cancer care and kidney dialysis. Added space and new units for: acute inpatient mental health; inpatient paediatrics; the medical surgical area allowing for more single and isolation rooms; and kidney dialysis: a larger 40-station in-centre unit was constructed.

The provincial government funded 90 per cent of the project's eligible construction costs, 100% of eligible planning costs, and some specialized radiation therapy equipment. However, costs associated with other medical equipment and furniture were funded wholly by the hospital through funds raised by the University Hospitals Kingston Foundation.



# Milton Hospital





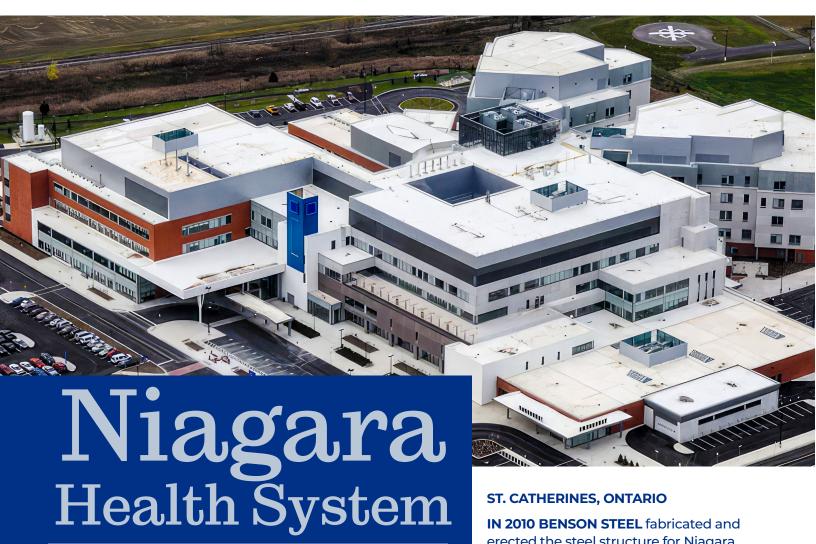
#### **MILTON, ONTARIO**

**IN 2015 BENSON STEEL** fabricated the structural steel for the Milton District Hospital.

The project added 330,000 square feet of space to the existing 125,000-square-foot hospital. Designed to address the needs of all users, including seniors, children, individuals with visual or cognitive impairments and those using wheelchairs and other mobility aids.

Plenary Health; Developer: Plenary Group (Canada) Ltd.; Constructor: PCL Constructors Canada Inc.; Architects: B+H Architects, RTKL Associates; Financial Advisor: RBC Capital Markets.











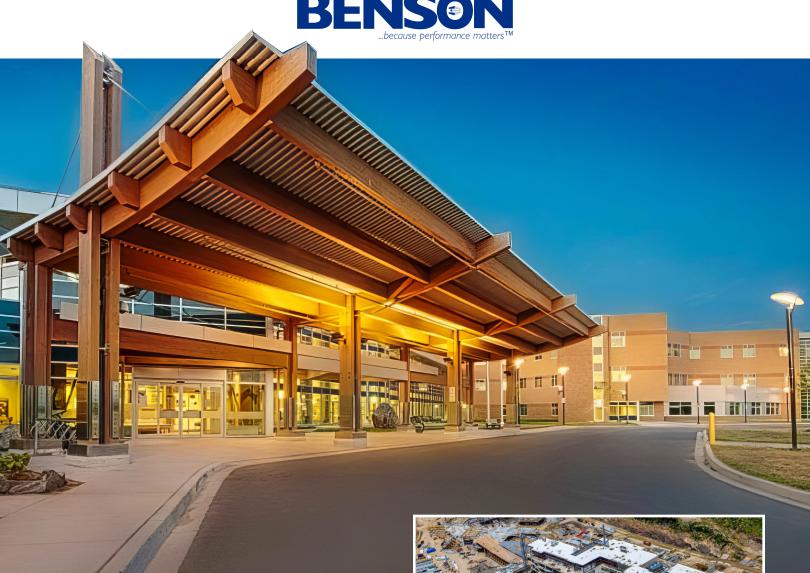
#### ST. CATHERINES, ONTARIO

IN 2010 BENSON STEEL fabricated and erected the steel structure for Niagara Health System Hospital, Ontario's largest multi-site hospital amalgamation comprised of seven sites serving 434,000 residents across the 12 municipalities making up the Regional Municipality of Niagara.

7,200 tons of structural steel were fabricated and installed for this stateof-the-art health-care complex. 970,000 square feet built on a 32-acre section of the 40-acre site.

It is environmentally friendly and designed to achieve Leadership in Energy and Environmental Design (LEED) certification.

Environmental features include energy efficient lighting, cooling and heating, which will help to reduce greenhouse gas emissions.



## North Bay Health Centre

#### NORTH BAY, ONTARIO.

The new 724,600 square foot facility introduced a number of firsts for Canadian hospitals, including circulating fresh air in every room, it was one of the first Canadian hospitals to achieve LEED certification.

This hospital offers an acute care and mental health facility.

A total of **1,550 TONS OF STEEL** support the structure.

Architect: CDTEB ARCHITECTS

Engineer: HALSALL ASSOCIATES LTD













# Southlake hospital



#### **NEWMARKET, ONTARIO**

**IN 2003 BENSON STEEL** fabricated and erected the steel structure for South Lake Hospital in Newmarket Ontario.

The complex redevelopment and expansion included the building of the pharmacy, CVICU, ICU, Cardiac Rehab Gym, and lobby, pivotal components of the hospital's expanding emergency care and cardiovascular care programs. These departments occupy the southern portion of the building, taking advantage of its serpentine shape to create two large open pods, where the individual rooms radiate around each centrally located nursing station.







## Sunnybrook hospital helipad



#### **TORONTO, ONTARIO**

BENSON STEEL fabricated and erected the steel structure for the helipad, bridge and covered tunnel access to the Sunny Brook Hospital M-Wing at the Bayview Campus in Toronto.

The platform measures 75 feet by 75 feet, it is the largest of its type in the country, both in terms of construction and the size of helicopter it can accommodate. Because of its strength it is the most capable rooftop helipad in Canada.





## Toronto Rehabilitation Institute

**TORONTO, ONTARIO.** New 13 storey research tower located at 550 University Avenue Toronto. A fit home for a global leader in physical and cognitive rehabilitation Centre.

Concrete tower with heavy structural steel trusses at ground and basement levels with structural steel penthouse at top.

**Architect:** 

MURPHY HILGERS ARCHITECTS INC.

Engineer: STANTEC CONSULTING LTD.























**TORONTO, ONTARIO. 2,200** tons of steel used for the Transformation.

AGO projects 97,000 square foot expansion. Steel features included 8 foot deep plate girders and 2 storey deep cantilever trusses.

Architect: **GEHRY INTERNATIONAL** 

**Engineer: HALCROW YOLLES** 

**2010** CISC Steel Design Awards

**AWARD OF MERIT** 

**Engineering AGO Transformation** 

**2008** The Toronto Construction Association

"BEST OF THE BEST AWARD"

Project Achievement- Art Gallery of Ontario





#### ST. CATHERINES ONTARIO.

New 6 story student residence consisting of girder slab/coreslab and structural steel design elements.

Architect: **ARCHITECTS TILLMAN RUTH ROBINSON INC.** (416)
595-2876

Construction Manager: STUART OLSON MR. GIANCARLO FUCILE (905) 206-0998

Engineer: VANBOXMEER & STRANGES (519) 433-4661

## Brock University Residence 8











## Cassie Campbell Community Centre









#### **BRAMPTON, ONTARIO**

This Community Centre includes a natatorium with leisure pool, indoor running / walking track, gymnasium and a figure skating center of excellence twinned with a community hockey rink.

#### Architect: SHORE TILBE IRWIN + PARTNERS

Benson Steel's 2008 Toronto Construction Association "BEST OF THE BEST AWARD".





## Centennial College Ashtonbee Campus

#### TORONTO, ONTARIO.

A 40,000 sq. ft. library and student centre located at Centennial College Ashtonbee Campus.

Features two storey deep (20')

CANTILEVERED TRUSSES 237 FEET IN LENGTH.

Architect: **MACLENNAN JAUNKALNS MILLER ARCHITECTS** Mr. Leland Dadson
T. 416-593-6796 f. 416-593-0212

Construction Manager: **ELLISDON** Mr. Brian Endacott T. 905-896-8900 f. 905.896-9138

Engineer: **BLACKWELL BOWICK** Partnership Limited Mr. Ian Mountfort T. 416-593-5300







## Canadian High Arctic Research Station









#### CAMBRIDGE BAY, NUNAVUT

The Canadian High Arctic research Station (CHARS) construction was done by EllisDon.

#### **BENSON STEEL**

Fabricated and erected the structural steel, metal deck and all miscellaneous metals inside the building.

CHARS is a worldclass hub for environmental science and technology in Canada's North.

The research station is a contribution to fulfill Canada's vision for the North.





#### TORONTO, ONTARIO.

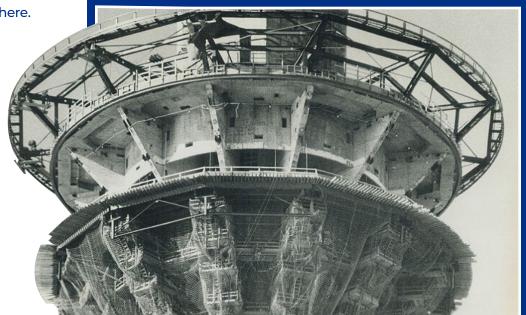
The CN Tower construction was completed in 1976. At the time, Paul Benson, a Benson Steel past President was the Project Manager for Canron Inc. who built the tower.

In 2012 and 2018 Benson Steel was selected to be the Structural Steel fabricator and erector of the latest upgrades to the tower.

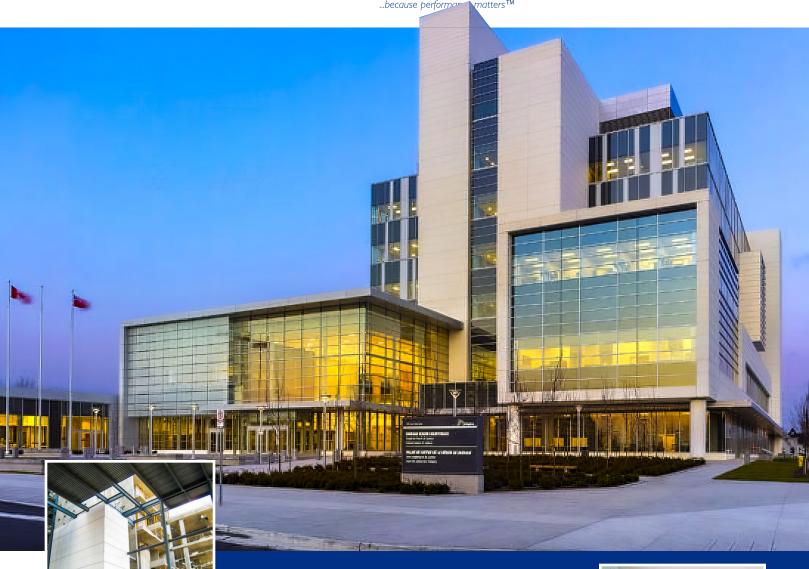
The CN Tower held the record for the world's tallest free-standing structure for 32 years. Today it is the ninth tallest free-standing structure in the world and remains the tallest free-standing structure on land in the Western Hemisphere.



## CN Tower















#### **OSHAWA, ONTARIO.**

New 450,000 square foot 5 storey courthouse. Concrete and steel structure, total of **574 TONS OF STEEL** used. Steel framing at ground level and mechanical penthouse.

This award-winning building's

includes innovations in energy performance that will result in energy savings of 42%, in comparison with similarly-scaled buildings completed within the last ten years.

Architect: WZMH ARCHITECTS

**Engineer: HALSALL ASSOCIATES LTD** 











**OSHAWA, ONTARIO.** A 200,000 square foot facility that features four NHL sized ice pads, Seniors centre, library, gymnasium, programming and wellness rooms. A swimming pool with a water slide, sauna and whirlpool.

Architect: **HUGHES CONDON MARLER** with **BARRY BRYAN ASSOCIATES** 

Engineer: **READ JONES CHRISTOFFERSEN** 

Contractor: MAYSTAR CONSTRUCTION

**BENSON STEEL** was awarded a **2006** Canadian Institute of Steel Construction Ontario **DESIGN AWARD FOR ARCHITECTURE** for this project.





## National Arts Centre





#### OTTAWA, ONTARIO.

A Major renovation and 60,000 square foot addition to one of Canada's largest performing arts venues, the National Arts Centre. The largest government investment in an architectural project to mark Canada's 150 Anniversary.

The National Arts Centre (NAC) is Canada's bilingual, multidisciplinary home for the performing arts.

The NAC presents, creates, produces,

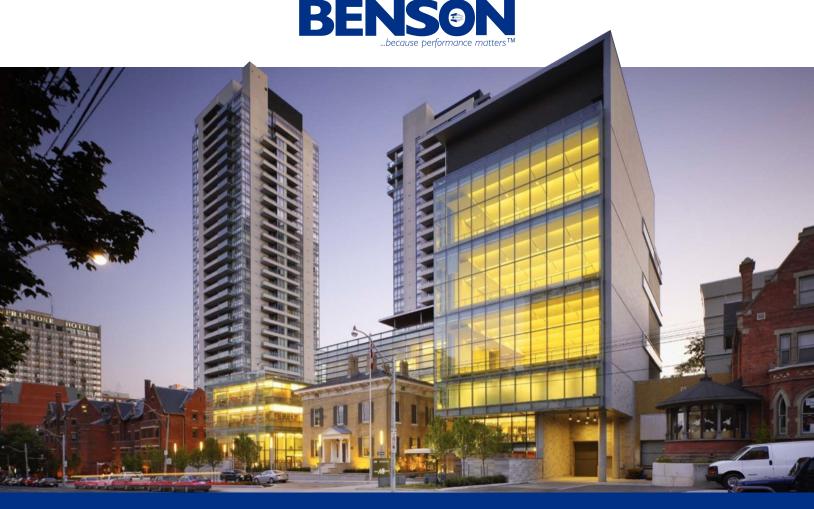
and nurtures the next generation of audiences and artists from across Canada.

Architect: **DIAMOND SCHMITT ARCHITECTS** 

Engineer: FAST + EPP

Construction Manager: **PCL CONSTRUCTORS** 





## National Ballet School







#### TORONTO, ONTARIO.

BENSON STEEL fabricated and erected the structure for the National Ballet School, One of the finest ballet training institutions in the world. The school offers professional dance training, academic education and student residences all on one site. Construction included the conservation, restoration, and adaptation of existing heritage buildings to accommodate new classrooms and administrative functions.





# Ottawa Public Library & Archives







#### OTTAWA ONTARIO.

Late in 2021 Benson Steel was awarded the contract alongside with PCL Ottawa to fabricate and erect the steel structure of the new Ottawa Public Library and Library and Archives Canada joint facility.

#### ĀDISŌKE

In Anishinābemowin Algonquin language, Ādisōke refers to the telling of stories, which are at the heart of Anishinābe Algonquin culture and the vision of both founding institutions.

The story of this groundbreaking project is about two major public institutions coming together to build a place where Ottawa residents, Canadians and visitors from around the world will come together to connect, to learn, discover, and create.





## Toronto Pan Am Sports Centre







**BENSON STEEL**, in a joint venture with Walters Group fabricated and erected the Structural Steel for the Toronto Pan Am Sports Centre (TPASC).

The facility was completed in July 2014, a year before the scheduled Pan American Games. The **6,000 SEAT AQUATICS ARENA** hosted diving, swimming, synchronized swimming and the swimming event of modern pentathlon.

One of the most important aquatic facilities in Canada, it's co-owned by the City of Toronto and the University of Toronto Scarborough. This facility is **312,000 SQUARE FEE**t has two Olympic-sized (50m), 10 lane swimming pools; a 25m diving tank with diving platforms and spring diving boards; four gymnasiums built to international standards, a 200m indoor track; double story fitness centre; a 41-foot high climbing wall; and four teaching studios.





#### TORONTO, ONTARIO.

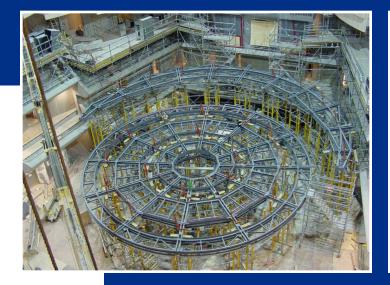
Roy Thompson Hall construction began in 1978. The hall often received criticism, particularly from the TSO, for its stark aesthetic and cold acoustics so plans for a renovation started in 1989.

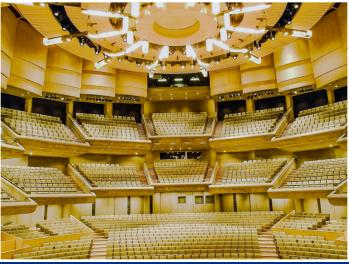
#### **BENSON STEEL**

fabricated the steel structure for the concert hall acoustic renovations in 2002.

The \$24-million renovation project entailed an overhaul of the auditorium's acoustic design, size and shape.

# Roy Thompson Hall





# University of Toronto Centre for Engineering,

Centre for Engineering, Innovation & Entrepreneurship

#### TORONTO, ONTARIO.

A Benson Steel completed project. A new 8 storey, 140,000 square foot building featuring a 500 seat lecture theatre, classrooms, workshops, lab spaces and fabrication facilities as well as multidisciplinary research centres and institutes.

Architect: **MONTGOMERY SISAM ARCHITECTS INC. MR. ROBERT DAVIES** (416) 364-8079 x297

Construction Manager: BIRD CONSTRUCTION MR. STEPHEN BET (905) 602-4122

Engineer: **REED JONES CHRISTOFFERSEN LTD. MR. ANDREW BAYNE** (416) 977-5335 x292















## **Innovation Complex**

University of Toronto Mississauga Campus







#### MISSISSAUGA, ONTARIO.

New 67,000 sq. ft. addition to the existing building, the Institute for Management and Innovation Centre located at University of Toronto's Mississauga Campus designed to LEED Silver standards.

Architect: **MORIYAMA & TESHIMA ARCHITECTS** T. 416-925-4484 f. 416-925-4637

Construction Manager: **PCL** Mr. Ryan Stackhouse T. 905-276-7600 f. 905.276-4200

Engineer: **ENTUITIVE** Mr. Paul Tomasik

T. 416-477-5832











## UTIM North Building Phase 2

#### TORONTO, ONTARIO.

A new 210,000 square foot building featuring academic, administrative, and student community space. This building also includes five green spaces, special bird deterring glass and utilizes an environmentally friendly rainwater reuse system.

Architect: **PERKINS & WILL JON LOEWEN** (416) 971-6060

Construction Manager: **STUART OLSON DAN BEADLE/PAUL DONOGHUE** (905) 206-0998

Engineer: **READ JONES CHRISTOFFERSEN LTD. MIKE BENALLICK** (416) 977-5335





### Vaughan Metropolitan Centre TTC Station







#### **VAUGHAN, ONTARIO.**

The Vaughan Metropolitan Centre TTC station opened and started operations in 2017. Benson Steel

fabricated the project once but erected the distinctive oval structure twice! Once at the Benson Steel yard to make sure the complex fabrication was match marked to ensure ease of erection and perfect fit on site.

The most distinctive feature of this station is the domed main

entrance building. The metal roof is a cool roof with a high solar reflectance to reduce heat absorption, and contain skylights to allow daylight into the concourse. The dome is supported on a ring-beam clad in pre-finished dark grey steel and the building is glazed in bird-friendly glass in curtain wall framing.











## West Memorial Building







#### OTTAWA, ONTARIO

Built between 1954 and 1958, it is Canada's historical landmark, honouring Canadians who served during the Second World War; a monumental seven storey, smooth stone building.

The project involves updating the building to accommodate the daily operations of occupants within the Supreme Court of Canada Building, who will occupy the West Memorial Building from 2023 to 2028.



#### TORONTO, ONTARIO.

In 2007, Benson Steel fabricated the steel trusses to replace a main concrete support column inside the Rogers Sportsnet building located at 1 Mount Pleasant Road in Toronto.

To erect the trusses and replace the column, the steel had to be hoisted by crane through the temporarily modified windows of the building into a negative pressure environment.

Legend say that Ted Rogers, owner of Rogers Communications and Sportsnet, liked the trusses so much that he asked to leave them exposed inside the building. Glass walls were erected to leave this outstanding support trusses visible and shine on its own not only as the integral support of the building but as the construction art they truly are.

#### Engineer: **HALSALL ASSOCIATES LTD**

2008 – CISC Steel Design Awards AWARD OF EXCELLENCE – ENGINEERING



## Roger's Sportsnet

















### Billy Bishop Airport



### TORONTO, ONTARIO.

In 2012, the construction of a new terminal building for Billy Bishop Toronto City Airport saw the relocation of the Terminal Building to the other side of the runways, near the Ned Hanlan monument.

BENSON STEEL fabricated and erected the structure for the new building as well as the canopies on the front where you can see the exposed steel beams. The building is located close to, and provides views of, the airport's runway. It reflects the modernist style, with its low, horizontal, rectangular massing; large glass windows; and minimal decoration.





# Iqaluit Airport







### **TORONTO, ONTARIO**

Benson Steel fabricated and erected the new terminal building and Fire services hangar of the Iqaluit International Airport that serves Iqaluit, the only city in the northern territory of Nunavut, Canada.

It is an important transportation hub for the North and opens the region to development. Today this airport sees over 120,000 passengers a year.

It is also used as a forward operating base by the CF-188 Hornet. A Royal Canadian Air Force fighter aircraft supporting the North American Aerospace Defense Command, a combined organization of the United States and Canada that provides aerospace warning, lgaluit. air sovereignty,

and protection for Northern America.









### L.F. Wade International

Airport







### **BERMUDA**

In 2017, Benson Steel fabricated, shipped by sea and erected the steel structure of the L.A. Wade International Airport in Bermuda.

Completed on budget, and on time, the new airport provides improved passenger processing, increased passenger capacity, greater resilience to extreme weather conditions, energy efficiencies, advanced security, and covered passenger jet bridges.

Innovation is a core value of Benson Steel and this project is an example of how we continuously look for new ways to execute the project.

We used 3D print modeling tool that enabled us to create models in real time, complete with wall thickening to compare best practices and design solutions for the project.





### Owen Roberts International Airport

**GRAND CAYMAN.** 

A Benson Steel project **670 TONS** of structural steel

or or structural stee

Architect: RS&H, INC.

Construction Manager: MCALPINE LTD., ROBERT

**FULLER** T. 345-949-2370

**Engineer: AMR CONSULTING ENGINEERS** 









### Pearson Intl. Airport









### MISSISSAUGA, ONTARIO.

The Greater Toronto Airport Authority constantly is upgrading the facilities of the Lester B. Pearson International Airport.

Over the years **BENSON STEEL** has in different occasions fabricated and erected the structures that support the upgrades and improvements of the airport facilities.

These improvements include not only support and aesthetics but also functionality structures for surveillance and passengers management.







### Porter Hangars







### OTTAWA, ONTARIO.

In 2022 and 2023 Benson Steel fabricated the two new Porter Airlines Hangars for aircraft maintenance at the Ottawa airport.

A 150,000-square-foot facility housing all of Porter's E-2 aircraft maintenance.

The hangars will have indoor parking for up to eight aircraft and will be built with sustainability in mind.

This project helps position Ottawa airport for future growth with a critical piece of transportation infrastructure for our national capital region.







### CIBC Commerce Court

### TORONTO, ONTARIO.

Originally built in 1931, once the tallest building in the British Empire and the tallest building in Canada for 31 years.

From 1993 to **1995, RENOVATIONS BY ZEIDLER ROBERTS PARTNERSHIP** 

ARCHITECTS added new vestibules between the buildings, light wells, canopies, and transformed the restaurant and retail areas Benson was the fabricator of choice for this majestic work.

Winner of the 1994 CISC Ontario Steel Design Awards



















## Loblaw Companies



and atrium.

### **300 TONS OF STRUCTURAL**

STEEL. features steel framed atrium with AESS trusses.

### Architect: **DERMOT** J. SWEENY ARCHITECT INC.

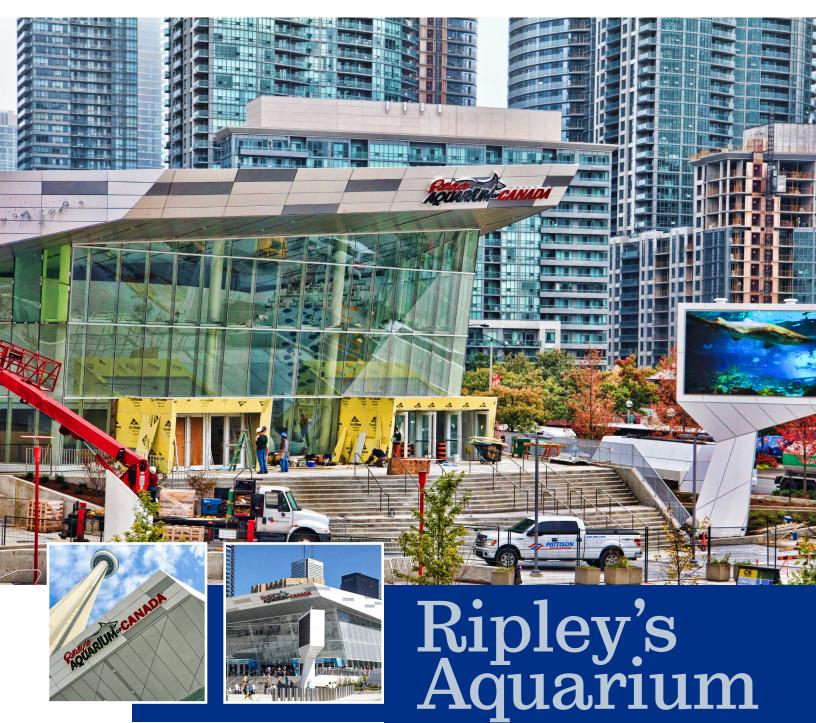
Construction Manager: **ORLANDO** CORPORATION, MR. MALCOLM BUSH t. 905-677-5480

### Engineer:

**READ JONES** CHRISTOFFERSEN, MR. DARREN WINT

416-977-5335







### TORONTO, ONTARIO.

130,000 square foot, 5.7 million litres of water aquarium.

Steel structure totaling 759 TONS OF STEEL.

Architect: B+H ARCHITECTS

**Engineer: ENTUITIVE ENGINEERING** 











KINGSTON, ONTARIO. Rogers K-Rock Centre, Today's Leon's Centre. North Americas first Large Venue Entertainment Centre (LVEC), LEEDs accredited arena facility of its type.

1450 tons of steel

Architect: BRISBIN BROOK BEYNON

**ARCHITECTS** 

**Engineer: HALCROW YOLLES** 

2008 CISC Ontario Steel Design Award

Award of Excellence Green Buildings









### The Well Bridges





### TORONTO, ONTARIO.

The Well is the most ambitious mixed-use endeavor in Canada, located in the heart of Toronto's west end. Bordering Front, Spadina, and Wellington, the design includes 1.1 million sq ft of office, 500,000 sq ft of retail and food services, and 1,700 residential units spread throughout six buildings connected to a 3-level retail base with bridges that Benson Steel fabricated and installed in 2023.













### TORONTO, ONTARIO.

In 2016 **Benson Steel** fabricated and erected the structural steel of the Yorkdale Shopping Centre, one of Canada's leading shopping destinations.

Yorkdale at the time underwent a \$220 million expansion – the largest and most significant in its history - growing to a total of 1.6 million square feet of retail space.











### Cayman First Centre

**CAYMAN ISLANDS.** A Benson Steel project completed in 2016.

Architect: **ARCOP ARCHITECTS MR. DOUG SMITH** T. 242-394-2600

Construction Manager: ARCH & GODFREY

T. 345-949-2370

**Engineer: AMR CONSULTING ENGINEER** 



### Cumberland House

### HAMILTON, BERMUDA.

**1988** was the year Benson Steel started to contribute to Bermuda by sending the structural steel for the largest new build of the time: Cumberland House.









### HAMILTON, BERMUDA.

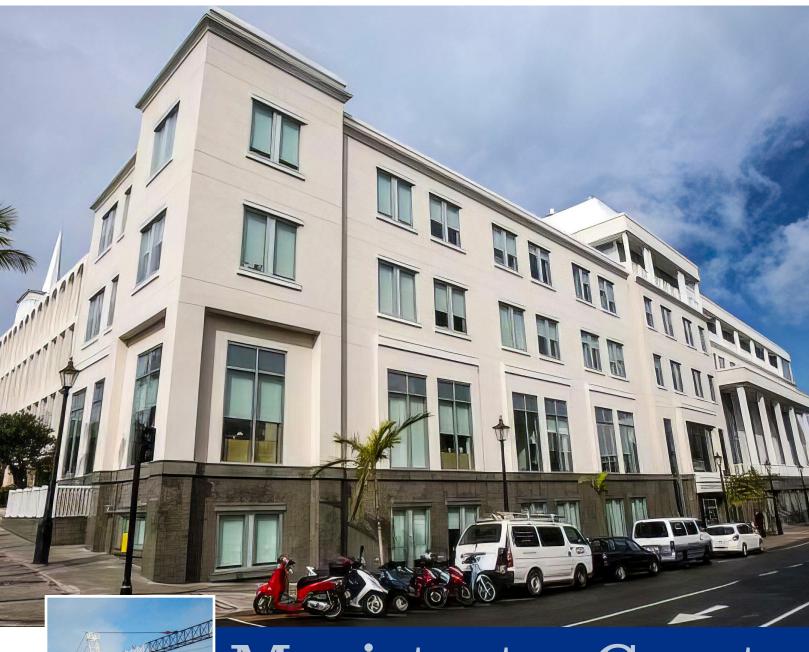
The Bermuda Bus terminal A Benson Steel project completed in 2006.

Most routes start and end at this location.
The \$3 million dollars station was named the
HUBERT W. "SPARKY" LIGHTBOURNE
Central Terminal after a former bus driver

famous for his legendary tours of the island.







### Magistrates Court

### HAMILTON, BERMUDA.

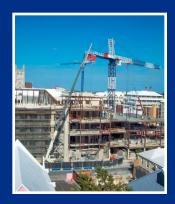
A Benson Steel project completed in 2016.

Architect: **ARCOP ARCHITECTS MR. DOUG SMITH** t. 242-394-2600

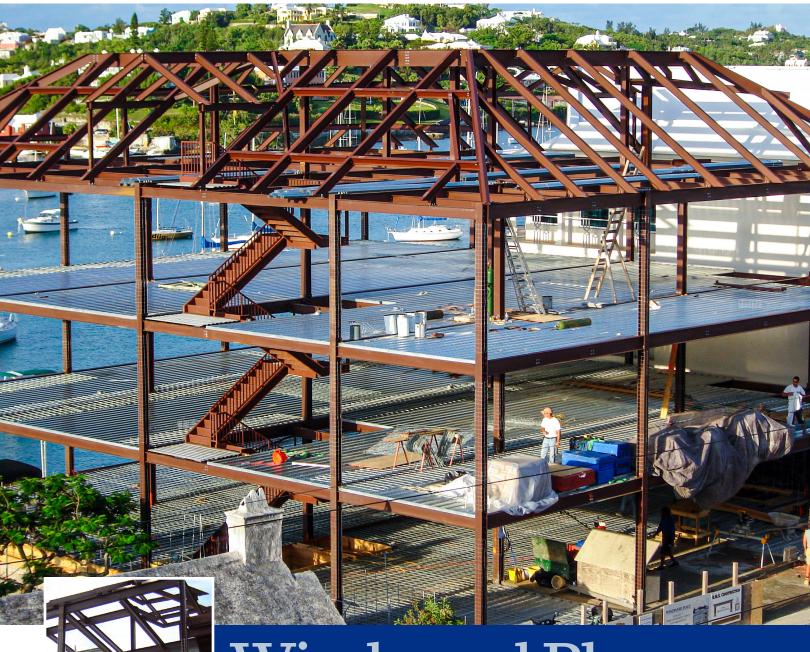
Construction Manager: ARCH & GODFREY

t. 345-949-2370

Engineer: AMR CONSULTING ENGINEER







### Windward Place

### HAMILTON, BERMUDA.

Situated on Crow Ln. Windward Place is a five storey office complex that Benson steel completed in 2007.





## BENSEN...because performance matters TM







72 Commercial Rd. Bolton, Ontario, L7E 1K4 Canada Tel. 905-857-0684 • Fax: 905-857-4005



### bensonsteel.com











