

## 2017 Alberta Steel Design Awards of Excellence - Finalists

Award winners will be announced at the  
2017 Alberta Steel Design Awards of Excellence Gala  
Thursday May 4, 2017  
Alberta Ballroom, Northlands EXPO Centre, Edmonton

Ticket can be purchased online at [www.cisc-icca.ca/awards/albertaawards](http://www.cisc-icca.ca/awards/albertaawards)

**Project Name: Banff Gondola Upper Terminal Redevelopment**

**Submitted by:** Entuitive

**CISC Members:** Entuitive, DIALOG, Metal-Fab Industries Ltd.

In operation for over 40 years, the gondola at the summit of Sulphur Mountain in Banff National Park welcomes over 500,000 visitors annually. To meet the demands of today's tourism industry, the upper terminal structures were redeveloped into a state-of-the-art complex to significantly improve the visitor experience. The design aimed to minimize potential environmental impact during redevelopment.

The new Banff Gondola complex provides 30 more occupied space on the same footprint than the previous structure and adds a 48-seat theatre, cafes and restaurants along with improved washroom facilities. A new interpretive centre heralds environmental stewardship. A rooftop deck provides a 360-degree view of six mountain ranges. The terminal also includes an outdoor climbing wall and a 150-person conference space for weddings and corporate events.

**Project Name: Brookfield Place Calgary**

**Submitted by:** Entuitive, Walters Group

**CISC Members:** Walters Group, Entuitive, DIALOG

The 56-storey East Tower (247 m) of Brookfield Place Calgary is Western Canada's tallest building and a landmark office tower. It will be joined by a future 41-storey West Tower and, when complete, the towers will be connected by a ground floor and mezzanine space contained in a jewel-box-like structure 'Winter Garden Pavilion'. The development will connect with neighbouring buildings via Calgary's +15 pedestrian walkway. The two towers will contain reinforced concrete cores with structural steel floor framing and exterior columns. The building envelope systems on the East Tower include unitized curtain wall with curved conical corner glass, structural glass wall systems at the crown and ground floor spaces of the building and insulated metal cladding systems.

**Project Name: Edmonton Tower**

**Submitted by:** Stantec

**CISC Members:** Stantec, Beauce Atlas Steel Fabrication

Edmonton Tower's curved façade rises 27 floors above ground, and stands as a hallmark project within the booming ICE District. Innovative in its integration of engineering systems and architectural assemblies, its skillful design sets a new architectural benchmark in our city.

One Properties, along with Stantec's architectural, structural, and electrical consulting groups, and Smith and Andersen mechanical consultants and Thurber Engineering geotechnical consultants, developed schemes for this commercial office development. Offering a dramatic floor-to-ceiling perimeter glazing, expansive tower floor plates, a grand public lobby, and enhanced connections to the public realm, the vision for Edmonton Tower is second to none.

**Project Name: Emerald Hills Leisure Centre**

**Submitted by:** Read Jones Christoffersen Ltd.

**CISC Members:** Read Jones Christoffersen Ltd., Sturo Metal Inc.

Emerald Hills Leisure Centre plays a significant role towards the fulfillment of Strathcona County's Aquatic Strategy. Designed with complete accessibility, features include a six-lane, 25-metre swimming pool; a four-lane, 25-metre adjustable depth pool; a children's teach pool; a whirlpool and steam room, as well as change facilities. The greatest challenge in the design, fabrication, and erection of the steel structure centered on the dramatic architectural expression of the building exterior. 3-D modelling during the shop drawing phase provided clash detection between the secondary steel framing and exterior cladding elements prior to the fabrication and shipping of the steel support elements. Structural steel is the only building material that would have been able to successfully achieve the resulting architectural expression of the building.

**Project Name: Lakeland College – Energy Centre**

**Submitted by:** Stantec

**CISC Members:** Stantec, Whitemud Ironworks Limited

Lakeland College sought to expand its facility to accommodate the growing demand for its Power Engineering Program. Together, Stantec and Fillmore Construction developed an extension that would enhance the educational experience and help shape the futures of the new generation of students.

Lakeland College's vision was for students to "live the learning" by exposing all the mechanical and structural intricacies of the expansion. Responding to the challenge, our team created a space that showcased every detail, including a highly complex boiler lab, structural components, and environmentally sustainable equipment— all designed with the students in mind.

**Project Name: 707 Fifth – Manulife Place**

**Submitted by:** Supermétal Structures Inc.

**CISC Members:** Supermétal Structures Inc.

707 Fifth – Manulife Place celebrates the city's vibrant cosmopolitan atmosphere while serving the pragmatic needs of a challenging prairie climate. The 27-story tower—currently targeting LEED Gold certification—will house open-concept office space, an array of employee amenities, and a two-story winter garden. Situated at a vital juncture in Calgary's urban grid, the tower prioritizes transit connections, provides bicycle and vehicle parking, and links directly into Calgary's extensive 15 pedestrian walkway system.

Structural Steel was a key contributor of the tower's open floor plan and elliptical shape allowing for increased daylight into the office spaces and enhanced availability of public space at the ground plane. A showcase of integration into the urban environment for years to come.

**Project Name: New Central Library**

**Submitted by:** Entuitive

**CISC Members:** Entuitive, Supermétal Structures Inc., DIALOG

The New Central Library, located in the vibrant East Village downtown, will be one of Calgary's most important and distinctive cultural institutions with signature design led by renowned international architecture firm Snøhetta and detailed drawing development and contract administration from award-winning Dialog.

The New Central Library will occupy 278,000 square feet, including public space, and 40,000 square feet for future library expansion and house a physical collection of approximately 600,000 books. The building structure is being constructed over Calgary's busiest LRT line which bisects the site and occupies approximately 40% of the site area. The Library's design places a strong emphasis on public accessibility and community-oriented spaces with 80% of the building, including collections areas, allocated to public space.



## Canadian Institute of Steel Construction

**Project Name: Rogers Place**

**Submitted by:** DIALOG

**CISC Member:** DIALOG, Canam Group Inc., Walters Group, Whitemud Ironworks

Rogers Place is the most modern arena in the NHL with over 1.1 million square feet of space. An extensively collaborative project involving the design, construction, fabrication and erection teams working together daily, sometimes hourly, to design and construct on an extremely tight schedule allowing Rogers Place to open on time and on budget. The building was constructed in only 928 days from ground breaking to the first concert. The fabricator created over 8000 drawings for about 9000 tons of structural steel used on the project.

**Project Name: Schulich School of Engineering, University of Calgary**

**Submitted by:** Read Jones Christoffersen Ltd. / Diamond Schmitt Architects/ Gibbs Gage Architects (Joint Submission)

**CISC Members:** Read Jones Christoffersen Ltd., Superm etal

The Schulich School of Engineering redevelopment and expansion creates a new focus and crossroads for the sprawling complex. The introduction of a central atrium encourages social and academic interaction in a light filled space.

The 30,000-square-meter infill core is configured to optimize the existing space with a new logic and create flexibility to accommodate the changing needs of each department and their curriculum. Elegant architecturally exposed structural steel and other servicing elements are on view and celebrated as central elements of the building aesthetic and create a didactic learning tool for students.

**Project Name: St. Louis Hotel**

**Submitted by:** Entuitive

**CISC Member:** Entuitive

Originally developed by Colonel James Walker, The St. Louis Hotel has been a Calgary landmark since 1914 and was designated as a Municipal Historic Resource in 2008. The brick, timber and steel-framed building sat empty for several years until its redevelopment into leasable space in 2014. Nyhoff Architecture led the conservation and adaptive re-use of the historic hotel.

To extend the life of the building by another 100+ years, the edifice was fortified with a new steel structure and concrete floors while the heritage floors as a ceiling were maintained. The building has been opened up with re-constructed light wells to enhance leasing opportunities on all above-grade floors of the character

building. Exposed brick, mechanical, electrical and structural elements evoke the original building's rustic feel.

**Project Name: Studio Bell**

**Submitted by:** Read Jones Christoffersen/ Walters Group Inc./ CANA Management Ltd. (Joint Submission)

**CISC Member:** Read Jones Christoffersen, Walters Group Inc.

Unique in purpose and form, Studio Bell is a non-typical building requiring very atypical solutions! The team had to incorporate a condemned historic building, design a buildable structure when everything is curved and/or inclined, design a bridge 65 feet above an active roadway, achieve the architect's vision of the vessels 'floating' with minimal support, frame a column free theatre with sloping walls and design a five-story cantilevered feature stair. While originally envisioned as concrete, steel solved the problems that concrete posed, allowing the team to deliver all of the project's requirements. Through creative thinking, technical excellence and close collaboration, the completed project is an iconic piece of architecture in Canada and the world.'

**Project Name: University of Alberta - 87 Avenue Pedway**

**Submitted by:** Read Jones Christoffersen Ltd.

**CISC Members:** Read Jones Christoffersen Ltd., Norfab Mfg. (1993) Inc.

The 87th Avenue Pedway at the University of Alberta, is a 155 foot long pedestrian bridge that spans across 87th Avenue in Edmonton, Alberta, to connect the Education South Building and the Heritage Medical Research Centre. The Pedway bridge deck is comprised of a reinforced concrete topping on composite metal decking, in turn supported by a structural steel truss assembly. The unique Architectural shape of the customized piers proved to be a significant challenge for the structural design team. Visualized as a stylistic "number 7", this pier was initially intended to be constructed as a reinforced concrete element, however, the streamlined Architectural form proved incapable of resisting the large shears and base overturning moments arising from the large pedway bridge reactions.