

# QUALIFICATIONS PACKAGE

JCK ENGINEERING INC.  
Structural Engineering Consultants

## Address

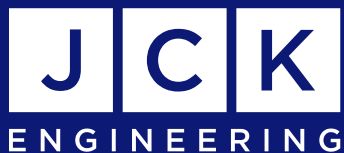
2424 College Avenue  
Regina, SK S4P 1C8

## Phone

P: 306.585.6126

## Website

[www.jckengineering.com](http://www.jckengineering.com)



STRUCTURAL  
ENGINEERING  
CONSULTANTS



# CORPORATE PROFILE

## JCK Engineering Inc.

JCK Engineering Inc. was established in 1995 to provide structural engineering consulting services to the Saskatchewan marketplace. Through our Regina, Saskatoon, Winnipeg, and Vancouver offices, we provide consulting and structural engineering services to major architectural firms, corporations, developers, and contractors throughout western Canada and beyond. Our personnel have extensive experience in the design and delivery of building structures, including the recently completed \$250M Mosaic Stadium in Regina, the University of Regina's \$60M College Ave. Campus Renewal, and the \$65M West River Landing Development in Saskatoon.

## SERVICES:

### Structural Design of Buildings & Related Structures:

- For architects, design-build contractors, public agencies, developers, and property managers.
- Office Buildings, health care facilities, parking structures, schools, performing arts centers, museums, industrial buildings, and other structures.
- Three-dimensional finite element modeling. Production with Revit software.

### Restoration & Modification of Existing Structures:

- Repairs to delaminated, corroded, and freeze-thaw damaged concrete structures.
- Repairs to deteriorated post-tensioned structures.
- Modifications to existing structures relating to deficiencies with respect to the NBC code and modernization.
- Assessment of historic building structures and engineering design with consideration to the Canadian Standards and Guidelines for Conservation of Historic Places in Canada.

### Building Assessments:

- Pre-sale evaluations of building structural systems.
- Review of existing structures to accommodate changes in floor loads.
- Feasibility studies of buildings with respect to proposed renovations and modifications.

### Monitoring & Assessment of Post-Tensioned Structures:

- 24 hour remote acoustic monitoring of post-tensioning in partnership with Pure Technologies.
- Preparation of repair and maintenance programs.

### Investigations & Reports on Structural Failures:

- Forensic structural investigations for insurance claims.
- Determinations of point and mechanism failure.
- Inspection of structures damaged by fire.
- Preparation of construction documents and strategies for repair or replacement.

### Costing & Budgeting:

- Preparation of accurate, realistic estimates of construction costs.
- Review of budgets based on historical database of projects.



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JCK Engineering Inc. together with Walter P Moore from Dallas, Texas provided structural engineering services to HKS Architects and PCL Construction for the new Mosaic Stadium in Regina. The stadium capacity is approximately 32,000 and is the new home of the Saskatchewan Roughriders. The design incorporates a sunken bowl with the field level dropped 10 m below the surrounding grade. The structural systems include cast-in-place concrete, precast concrete and a cantilevered steel roof system.

2019 "Accessibility Certified Gold" under the Rick Hansen Foundation Accessibility Certification.  
2017 Premier's Award of Excellence - Engineering & Geoscience

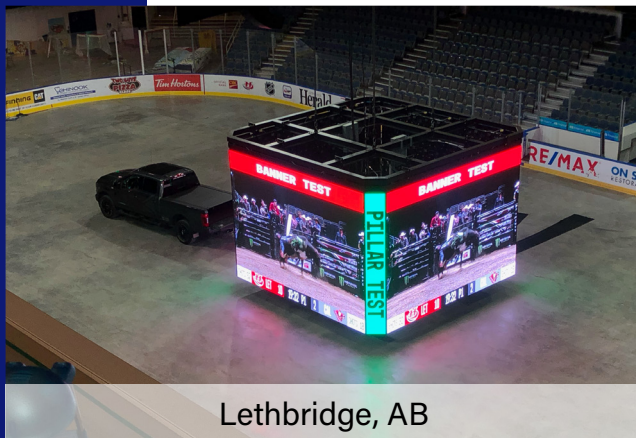
# Score Clocks



Estevan, SK



El Paso, TX



Lethbridge, AB



Humbolt, SK

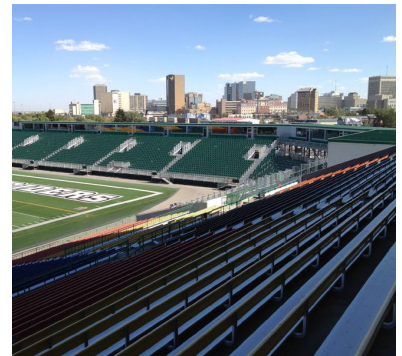
JCK Engineering has partnered with IKS Media & Technology and Display Development Group (DDG) to retrofit existing arenas across western Canada with modern score clocks. Several have been wall-mounted, but most are suspended over center ice. Depending on the end user's needs, JCK's scope can include the design of the steel structure required to support the state-of-the-art LED panels, analysis of the existing roof structure for the weight of the new score clock, or both.

# Outdoor Score Boards



JCK Engineering provided structural engineering services for the south video board at Mosaic Stadium by designing the foundations required to hold up the 6,844 square foot screen used at every Saskatchewan Roughrider home game. JCK also designed the structural steel and foundations required to support the new scoreboards at Leibel Field, home of Regina Minor Football.

# Video Boards at Old Mosaic Stadium

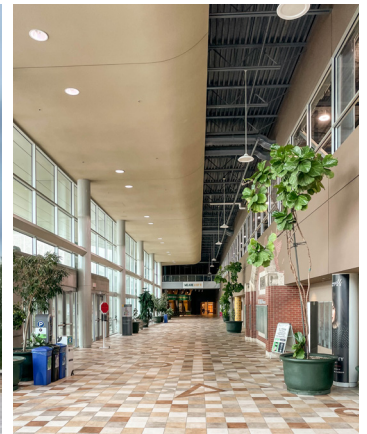


JCK Engineering provided structural services for two new video boards at the Old Mosaic Stadium as part of the 2012 Stadium Improvement project in preparation for hosting the 2013 Grey Cup. The video board project included a free-standing structure to support the main northeast video boards as well as new steel framing to suspend a video board from the west grand stand roof.

# Billboards & Pylon Signs



JCK Engineering has provided structural engineering services for the design of numerous billboards and pylon signs across Saskatchewan. JCK's scope typically includes the design of the steel framing and concrete foundations for new signs, or analysis and retrofit of existing signs for new screens.



The CKHS Building is a state of the art sports facility located at the University of Regina. The facility was completed in 2004 and was the focal point of the 2005 Jeux de Canada Summer Games. The building includes three full-size basketball/volleyball courts, collapsible seating for 2200 people, an elevated running track, sports medicine facilities and underground parking for 200 cars. The building is located adjacent to the existing Education and Aquatics Buildings.

The building structure includes a steel truss roof system spanning 50 m. Particular attention was paid to reducing floor vibrations and to achieving very flat floor surfaces.





The Logistics Warehouse Complex is part of SaskPower's long-term strategy to bring frontline employees together in fewer locations. JCK is providing the structural engineering services for this new facility, located at the Global Transportation Hub west of Regina. Phase 1 of the project totals \$100M and includes facilities for fleet services, logistics, and metering. Phase 2 will include facilities for transmission and distribution. The buildings add up to 450,000 square feet, they are steel framed with heavy-duty structural slabs at the main floor level. Phase 1 is currently under construction while Phase 2 is undergoing design. The general contractor for the project is WestridgeWright, a Saskatchewan JV.



# ELEAH GALLAGHER, P.Eng.

PRESIDENT | STRUCTURAL ENGINEER



STRUCTURAL  
ENGINEERING  
CONSULTANTS

## EDUCATION

B.Sc. Civil Engineering  
University of Saskatchewan, 2008

## REGISTRATION

Association of Professional Engineers and  
Geoscientists in Saskatchewan (APEGS)

## PROFESSIONAL PROFILE

Eleah is the President of JCK Engineering Inc., she is a structural engineer with 16 years of consulting engineering experience on many projects that include institutional, commercial, residential, and industrial buildings of different structural forms and systems. Her expertise includes the structural analysis and design of steel, conventionally reinforced concrete, masonry, and timber buildings.

Eleah has worked on many projects as well as challenging modifications to institutional buildings. She is dedicated and understands project timelines for project delivery and enjoys collaborating with Architects and Contractors.

## EMPLOYMENT HISTORY

JCK Engineering Inc., Regina, SK  
President | 2020 - Present

JC Kenyon Engineering Inc., Regina, SK  
Structural Engineer | 2008 - 2020

## AWARDS

ACEC | SK Young Professional Award - 2013

Gerry Zoerb Award, Association of Professional  
Engineers & Geoscientists of Saskatchewan - 2010

Civil Engineering Alumni Medal, University of  
Saskatchewan - 2008

## COMMUNITY INVOLVEMENT

Economic Development Regina  
Board Member | 2019 - Present

Athol Murray College of Notre Dame  
Board of Regents | 2012 - June 2023

## REPRESENTATIVE PROJECTS:

### Score Clocks

El Paso Score Clock  
Abbotsford Score Clock  
Estevan Score Clock  
Moosomin score Clock  
Lethbridge Score Clock  
Okotoks Score Clock  
Swift Current Score Clock



### Light Industrial/Commercial

SaskPower Logistics Warehouse  
Complex  
TransLink Logistics Centre, Global  
Transportation Hub  
Grasslands Commercial Development,  
Regina  
Eastgate Drive Commercial  
Development, Regina

### Educational & Institutional Facilities

Argyle St. Pius X Joint Use School, Regina  
All Saints & Ecole Centennial Joint-Use  
Schools, Swift Current  
mâdawêyatitân centre, Regina  
Maple Creek Middle & Secondary School  
Addition & Renovation, Maple Creek  
Kipling School Addition & Renovations, Kipling  
Regina Early Learning Centre, Regina  
Royal Saskatchewan Museum Gathering Space  
Renovation for Scotty the T-Rex



### Restoration & Renovation

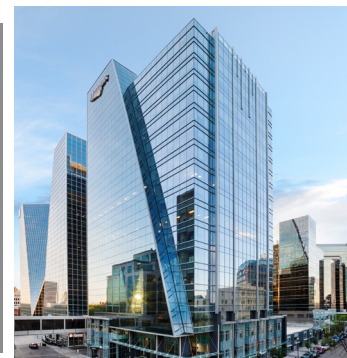
College Avenue Campus Renewal  
Project, University of Regina  
Campion College Entrance Addition,  
Regina  
Royal Canadian Legion Restoration &  
Renovation, Regina  
Walter Scott Building Renovation, Regina

### Office Buildings

Eastgate Medical Building, Regina  
Hill Centre Tower III, Regina  
FCC Office, Victoria Avenue East, Regina

### High Density Residential

Eden Care Communities Village Project - Validation  
Phase, Regina (Lean IPD)  
Harbour Landing Village, Regina  
Brighton Village Condo, Saskatoon  
Wintergreene Estates Phase II, Regina





# BRAD TAYLOR, MBA, M.Sc., P.Eng.

PRINCIPAL | STRUCTURAL ENGINEER  
DIRECTOR OF ENGINEERING



STRUCTURAL  
ENGINEERING  
CONSULTANTS

## EDUCATION

- Master of Science  
University of Illinois, 2019
- Master of Business Administration  
Lakehead University, 2010
- Bachelor of Engineering  
Lakehead University, 2009
- Structural Engineering Technology  
Red River College, 2007

## REGISTRATION

Provincial Associations:  
APEGS, APEGM, APEGA, EGBC, PEO, NAPEG.  
Professional membership of the Canadian  
Association of Heritage Professionals (CAHP).

## PROFESSIONAL PROFILE

Brad is a Principal at JCK Engineering Inc. with 14 years of experience in consulting engineering. He has extensive experience in the analysis and design of steel, conventionally reinforced concrete, masonry, & timber buildings.

Brad played a key role on the design team for the new Mosaic Stadium and the University of Regina's College Avenue Campus Renewal Project. Brad was the Lead Structural Engineer for the Conexus Head Office Building.

## EMPLOYMENT HISTORY

JCK Engineering Inc., Regina, SK  
Principal, Structural Engineer,  
Director of Engineering | 2010 - Present

## COMMUNITY INVOLVEMENT

- Canadian Association of Heritage Professionals  
Board Treasurer | May 2023 - Present
- Claybank Brick Plant Historical Society  
Board Member | June 2022 - Present
- Regina Christian School  
Board Member | June 2022 - Present
- Saskatchewan Heritage Foundation  
Board Member | 2014 - 2017

## REPRESENTATIVE PROJECTS:

### Sports, Parks & Entertainment

- Regina Revitalization Initiative Stadium Project (Mosaic Stadium)
- Mosaic Stadium Improvement Project at Taylor Field, Regina
- Pine Island Finish Line Facility, Wascana Park, Regina
- Prince Albert Recreational Facility, Prince Albert



### Institutional Facilities

- College Avenue Campus Renewal Project, University of Regina
- Regina Airport Check in Counter Renovations, Regina
- Regina Airport Fire Hall Addition, Regina

### Heritage Addition, Restoration & Assessments

- Saskatchewan Legislative Building Dome Conservation
- Manitoba Legislative Building Rotunda Restoration
- Sherwood Building Façade Restoration, Regina
- Leader Building Cornice Repairs, Regina
- Stone Church Foundation Investigation, Wishart
- St. Giles Church Addition, Estevan
- Claybank National Historic Site Brick Plant Kiln Investigation & Repairs, Claybank



### Educational Facilities

- Campbell Collegiate Underpinning Assessment, Regina
- Balfour Collegiate Underpinning, Regina
- Thom Collegiate Front Entrance Rehabilitation, Regina

### Commercial / Light Industrial

- Conexus Credit Union Head Office, Regina
- McIntosh Mall Post Tension Monitoring & Parkade Traffic Deck Membrane Repairs, Prince Albert
- Yorkton Flour Mill Assessment & Roof Repairs
- Quality Tire Warehouse Facility, Regina
- TS&M Office and Warehouse Facility, Estevan
- Bennett Dunlop Ford Renovation & Addition, Regina
- Saskatchewan Porsche, Saskatoon
- Winnipeg Porsche, Winnipeg