



Engineers

# Bridge Design & Rehabilitation



Creative Thinking **Practical Results**



Bridges play a critical role in society and in our communities. They are a direct and purposeful expression of structure, connect people and places and allow our communities to function and thrive.

## Creative Thinking **Practical Results**

Since 1948, **RJC Engineers** has been an innovative solutions provider that uses engineering knowledge and constructibility experience to capture our clients' vision and turn it into a reality. Our firm was founded on the principles of innovation, collaboration and engagement.

We constantly challenge ourselves by taking on projects that are unique and unconventional. We carefully consider each project, ensuring our designs are practical, sustainable and responsive to the ever-changing environment.

Ultimately, our goal is to design and restore buildings and structures that add vitality to streets, communities and city skylines.

## Service Offerings

### **Bridge Design and Rehabilitation**

- Building Enclosure Engineering
- Condition Assessments
- Depreciation Reports
- Façade Engineering
- Fall Protection/Travel Restraint
- Heritage Conservation
- Parking Facility Design
- Pavement Rehabilitation
- Performance Assessment

- Post-Tensioned Concrete
- Prime Consulting
- Reserve Fund Studies
- Roof Consulting
- Seismic Risk Mitigation
- Structural Engineering
- Structural Glass Engineering
- Structural Restoration
- Sustainable Design
- Waterproofing Design

RJC's areas of practice all contribute to developing the right plan of action for our clients.



St. Patrick's Island Bridges | Calgary, AB



# Bridge Design & Rehabilitation

## Connecting people and places

Our engineers deliver creative solutions for all types of bridges, from simple standard bridges, to iconic landmark structures. While the scale and type of bridges we work on varies, one thing remains the same – we spend the time up front to find the right solutions balancing function, economy and aesthetics.

### RJC offers a full-range of bridge engineering consulting services:

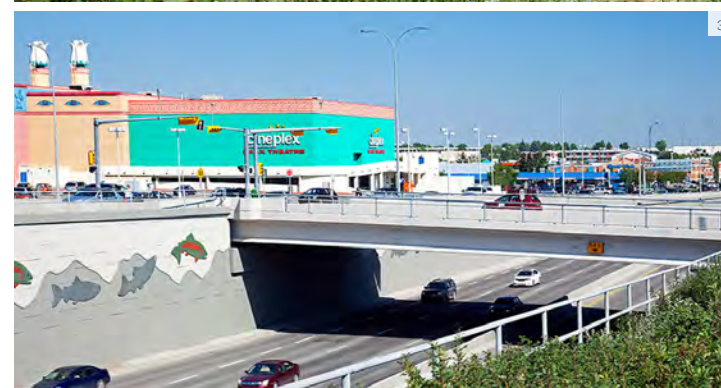
- Planning
- Design
- Construction
- Assessments
- Rehabilitation
- Construction Engineering



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4



1. Nose Creek Pedestrian Bridge | Calgary, AB

2. Rundle LRT Station Pedestrian Bridge | Calgary, AB

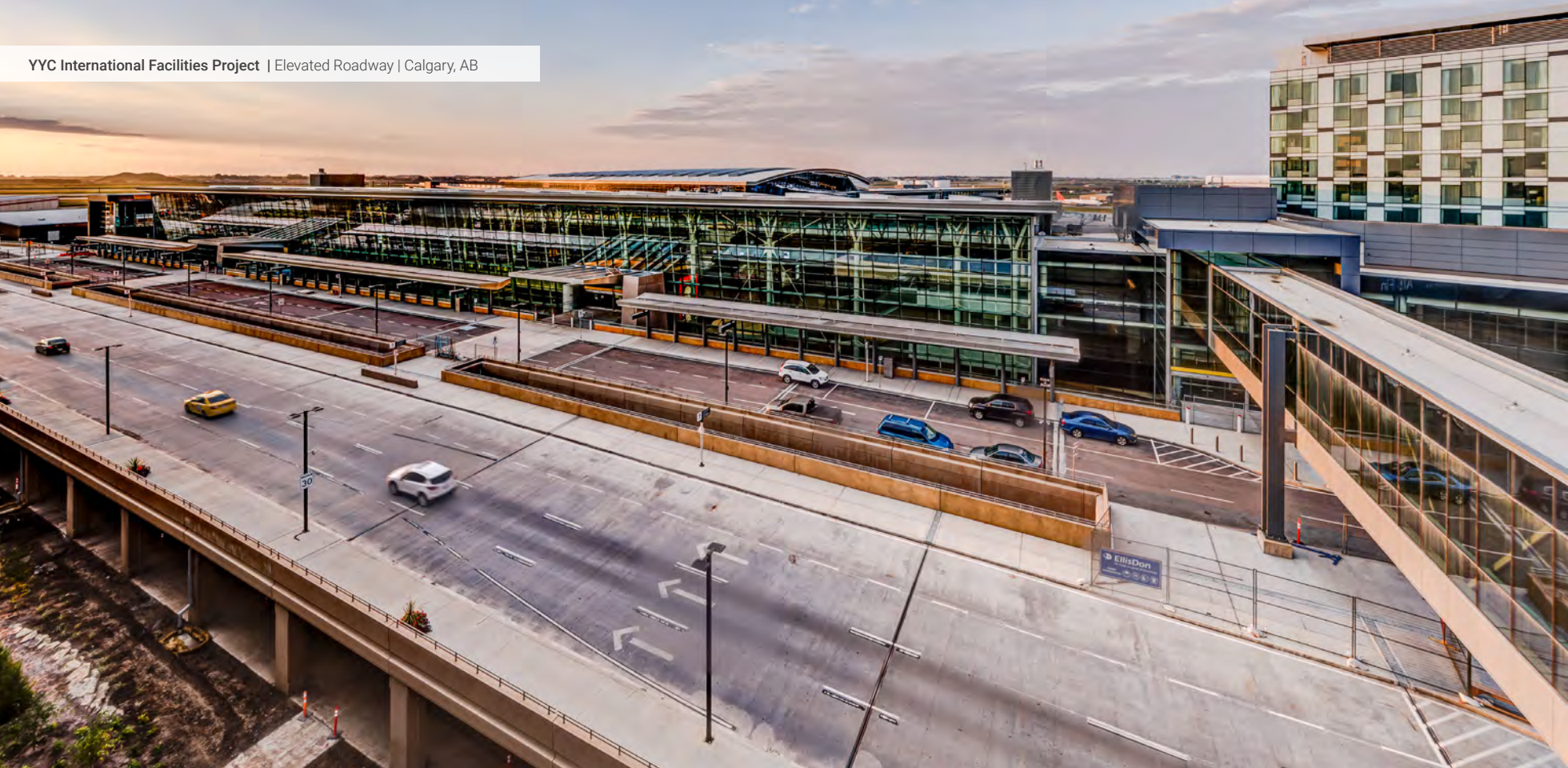
3. Glenmore Trail & 5<sup>th</sup> Street Bridge | Calgary, AB

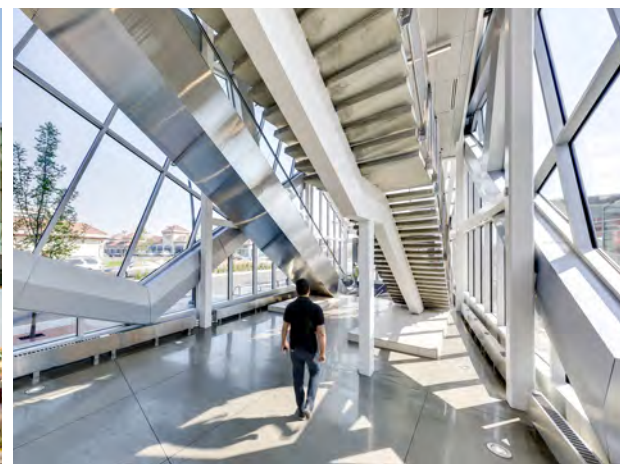
4. Prince's Island Bridge Rehabilitation | Calgary, AB



1. Columbia Icefield Skywalk | Jasper, AB
2. Sarcee Trail Southbound Connector | Calgary, AB
3. Prince's Island Bridge Rehabilitation | Calgary, AB
4. Calgary Stampede & Exhibition Weadick Crossing | Calgary, AB
5. West LRT Sunalta Station & Elevated Guideway | Calgary, AB

YYC International Facilities Project | Elevated Roadway | Calgary, AB





Pedestrian Overpass at 61<sup>st</sup> Avenue SW over Macleod Trail SW | Calgary, AB





## Our Experience

- Boardwalk Structures
- Bridge Construction and Erection Engineering
- Bridge Demolition
- Bridge Lifecycle Rehabilitation
- Bridge Load Evaluation & Capacity Upgrades
- Elevated Light-Rail Guideway
- Interchange Bridges
- Park and Trail Bridges
- Pedestrian Bridges
- Pedestrian Underpasses
- Retaining Walls
- Roadside Signage Structures
- Single and Multi-span River Crossings
- Standard Bridges
- Temporary Bridges
- Tunnel and Trench Structures



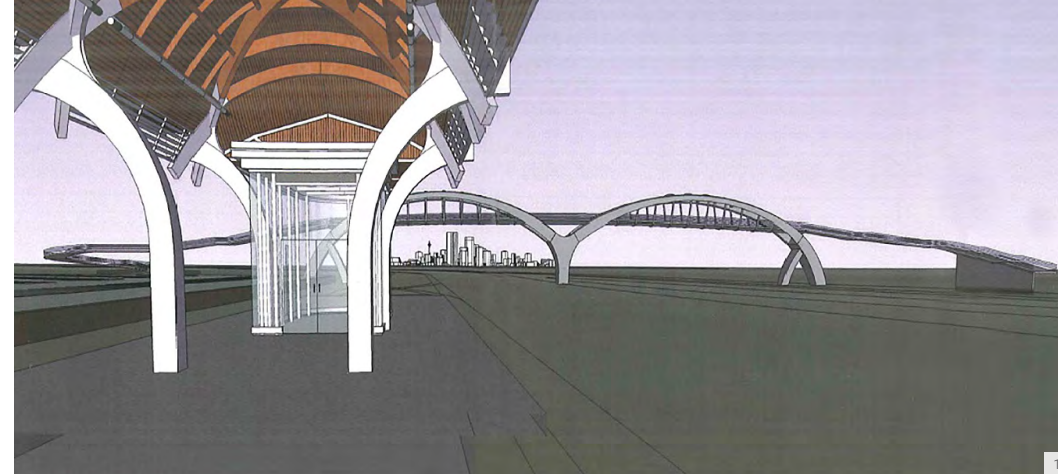
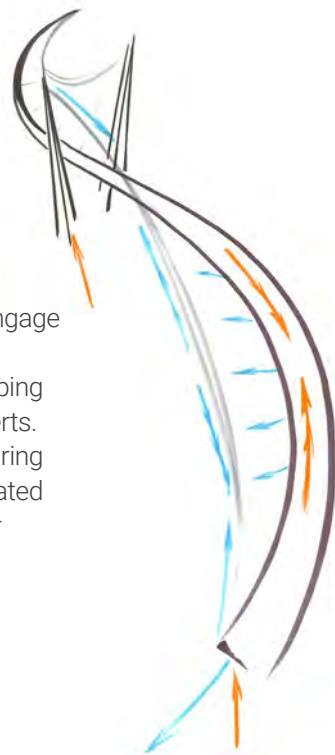
As structural engineers, we generate innovative design solutions through an integrated delivery approach that thrives on communication and collaboration.



# Our Approach

## Collaborative Teamwork Through All Phases

Recognizing that success factors for each project and client are unique, we engage with the team to clearly understand the shared objectives and opportunities. These are the basis for exchanging ideas, challenging constraints, and developing solutions through collaboration with a multi-disciplinary team of industry experts. We engage with the team through every phase of the project, continually ensuring alignment of resources and expertise to support the project goals. This integrated approach fosters creativity, strengthens communication and results in greater overall value for all project partners and stakeholders.



1. Westwinds LRT Pedestrian Bridge | Calgary, AB
2. Westbrook Pedestrian Overpass | Calgary, AB
3. Westbrook Pedestrian Overpass | Calgary, AB
4. Trinity Gateway Bridge | Calgary, AB



Calgary Stampede Weadick Crossing | Calgary, AB

## Our Bench Strength

### Collaborative attitude, technical excellence

RJC Engineers is one of North America's leading engineering firms. With numerous locations across Canada, we are able to provide bridge structure design and rehabilitation services for clients nationwide. Our bridge specialists have acquired knowledge and expertise through years of experience and a multitude of project types for our broad base of clients.



West LRT Sunalta Station & Pedestrian Bridge | Calgary, AB



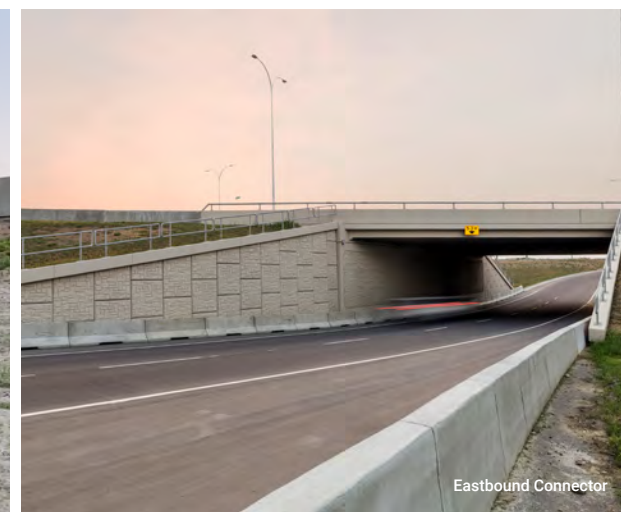
Sarcee Trail & 16th Avenue NW Rehabilitation and Connectors | Calgary, AB



Sarcee Deck Rehabilitation



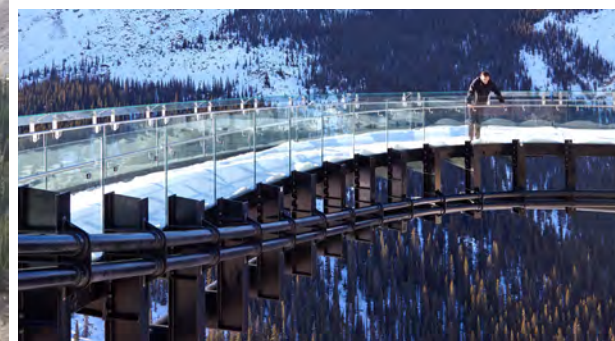
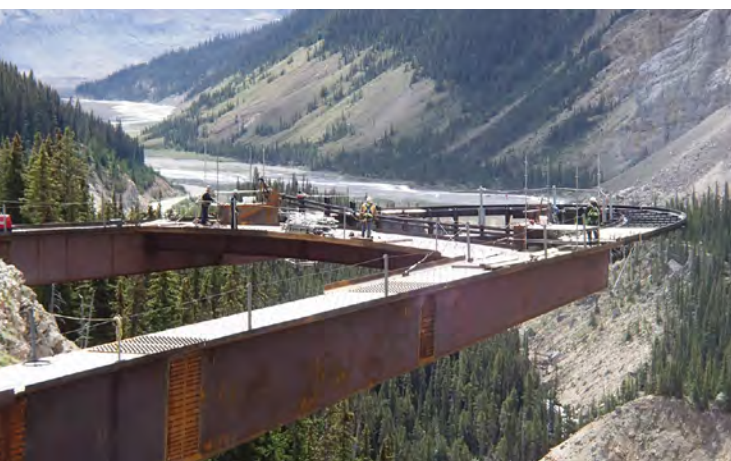
Southbound Connector



Eastbound Connector



Westwinds LRT Station Pedestrian Bridge | Calgary, AB



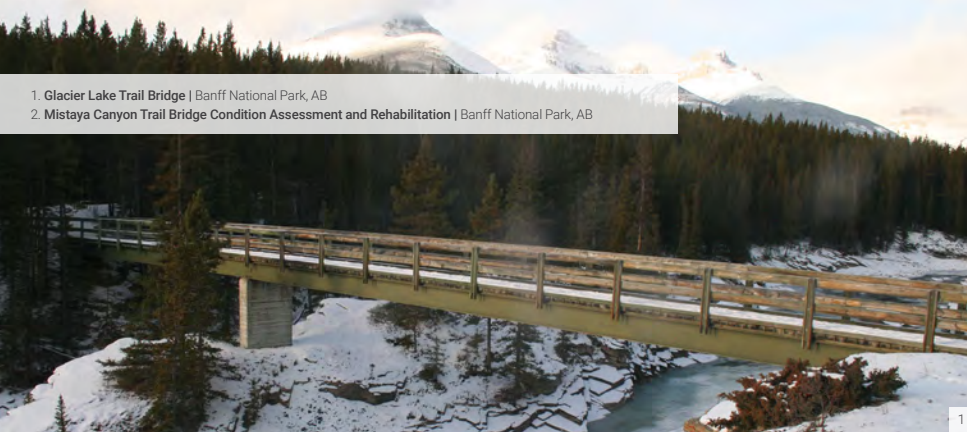
Columbia Icefield Skywalk | Jasper National Park, AB



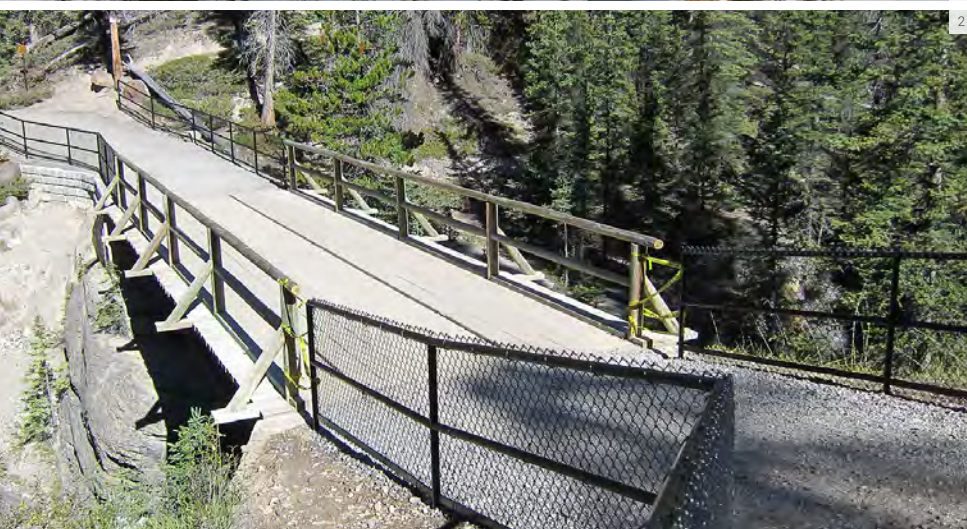


Elbow River Traverse | Calgary, AB





1. Glacier Lake Trail Bridge | Banff National Park, AB  
2. Mistaya Canyon Trail Bridge Condition Assessment and Rehabilitation | Banff National Park, AB



3, 4 & 5. Jack Tennant Memorial Bridge | Cochrane, AB



69th Street LRT Station Bridges and Trenched Guideway | Calgary, AB



Pedestrian Overpass at 61<sup>st</sup> Avenue SW over Macleod Trail SW | Calgary, AB

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## Our Bridge Specialists

### British Columbia

**Reza Anjam**  
MSc, MEng, PEng.  
T. 604.739.6309 E. ranjam@rjc.ca

### Alberta

**Mark Bowen**  
MEng, PEng., CEng, MStructE  
T. 403.338.5878 E. mbowen@rjc.ca

### Ontario

**Ralf Altenkirch**  
MEng, PEng., LEED® AP  
T. 416.639.1603 E. raltenkirch@rjc.ca



Jack Tennant Memorial Bridge | Cochrane, AB



Creative Thinking  
Practical Results

## Contact Us



Front Cover: Left to Right  
St. Patrick's Island Pedestrian Bridge | Sarcee Trail & 16th Avenue NW - Southbound and Eastbound Connectors | Westwinds LRT Station Pedestrian Bridge

Back Cover: Left to Right  
Westwinds LRT Station Pedestrian Bridge | Sarcee Trail & 16th Avenue NW - Eastbound Bridge | Calgary Stampede Weadick Crossing | Rundie LRT Station Pedestrian Bridge

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