

**BRUCE BELMORE, P.Eng., PTOE, AVS**  
**Canada West Transportation Planning Manager**

**PROFESSIONAL EXPERIENCE**

Bruce Belmore has specialized in transportation for over 25 years. Bruce is a past president of the Canadian Institute of Transportation Engineers, and recently completed a three-year term on the International Board of Direction with the Institute of Transportation Engineers. Bruce is certified as a Professional Traffic Operations Engineer (PTOE), and an Associate Value Specialist (AVS).

Bruce is well-known for facilitating discussions on transportation with the public and government.

**BOARD AND INDUSTRY EXPERIENCE**

Key board and industry positions include the following:

<b>ITE Saskatchewan Section Executive</b>	2001 – 2003
<b>ITE Canadian District Executive</b>	
Secretary–Treasurer	2004, 2005
Vice President	2006, 2007
President	2008, 2009
Past President	2010, 2011
District Director (IBOD member)	2013 – 2015
<b>ITE Canadian District Annual Conference</b>	
Technical Programs Chair	2005
District Liaison for Conference	2015
<b>ACEC SK (CES) Board Member</b>	2006, 2007
<b>ACEC SK (CES) Transportation Exec Committee</b>	2014–2016
<b>University of Regina Adjunct Professor</b>	
Engineering 401:	
Engineering Law and Professionalism	2006–2008 2010–2012
Engineering 821 (MBA course):	
Law for Practicing Engineers	2014

**PROFESSIONAL AFFILIATIONS**

- Institute of Transportation Engineers
- Canadian Parking Institute
- Association of Professional Engineers & Geoscientists of Saskatchewan (APEGS)
- Association of Consulting Engineers Companies (ACEC) – Saskatchewan

**EDUCATION**

B.A.Sc., Civil Engineering,  
 University of Saskatchewan,  
 Saskatoon, Saskatchewan (1988)

**TRAINING AND CERTIFICATES**

- Leadership Training, York University, Toronto, Ontario (2012)
- Associate Value Specialist, SAVE International, Toronto, Ontario (2010)
- PTOE, Transportation Certification Board, Institute of Transportation Engineers, Calgary, Alberta (2002)

**PROFESSIONAL BACKGROUND**

- Canada West Transportation Planning Manager, WSP | MMM Group Limited, Regina, SK (2011–Present)
- AECOM, Regina SK (2002–2011)
- Trialpha Consulting Limited, Regina, SK (1996–2002)
- Morrison Hershfield, Ottawa, ON (1994–1996)
- UMA Engineering Ltd., Ottawa, ON (1990–1994)
- Cumming Cockburn Ltd., Ottawa, ON (1988–1990)

## SELECTED PROJECT EXPERIENCE

### Transportation Planning / Traffic Operations Assessments

- » **Project Manager, Mosaic Stadium Traffic and Parking Plan, City of Regina, Saskatchewan (2016) :** Recommend a plan to accommodate game-day traffic operations and parking related to the development of the new Mosaic Stadium CFL football facility. The plan addresses all modes including automobiles, transit, taxis, charters, pedestrians, and cyclists. The plan has a heavy emphasis on transit to include stadium front door service for transit users, as well as dedicated bus service from downtown and outlying malls.
- » **Project Manager, Regina Revitalization Initiative, Regina, Saskatchewan (2014):** Examine parking and traffic requirements related to three new redevelopment sites adjacent to downtown Regina, including the CP Yards, Mosaic Stadium and Evraz Place. This foundational transportation work led to detailed traffic reviews for each of the developments.
- » **Project Manager, Southeast Neighbourhood Plan Transportation Assessment, Aurora Retail / Chuka Creek Developers / City of Regina / Dream Asset Management, Regina, Saskatchewan (2016):** Examine an efficient road network layout for 6 major landowners in this future east Regina neighbourhood. The review included modelling future traffic volumes, establishing roadway classification and laning, developing roadway cross-sections, and examining active modes networks for a 1,400 acre area of land south of Victoria Avenue, comprising over 1.7M sq.ft. of commercial development, 19,000 residents, two schools, community space and prestige industrial development .
- » **Project Manager, Regina Bypass General Location Study, Ministry of Highways and Infrastructure, Regina, Saskatchewan (2013):** Examine the approved location of the Regina Bypass, and made high-level recommendations to the Ministry regarding the need to adjust the alignment. The recommendations included moving the bypass further south of the city and change the western terminal of the bypass.
- » **Senior Project Engineer, Traffic Study, RM of Edenwold, Emerald Park, Saskatchewan (2015):** Collect existing traffic volumes within Emerald Park community and assess peak commuting times along key roadways such as Emerald Park Road, South Plains Road, and Betteridge Road. Examine potential development occurring in the surrounding area and establish an estimate of traffic generated by future development. Determine the level of service currently offered to roadway users and offered at the development horizon year, as well as provide guidance on roadway classification and road network hierarchy.
- » **Project Manager, University of Regina Bus Layby Design, University of Regina, Saskatchewan (2015):** Complete the planning and design of a bus stop along University Drive East. The purpose was to assess the alternatives to relocate the bus stop (No. 0382) from its current location within a parking lot, onto the main circulation roadway, while providing improved service to the First Nations University, and to Luther and Campion College. The project was expanded to include a full review of the circulation road on the campus east side. Parking, cycling, traffic calming, signing, and paint marks were reviewed and a preferred concept for a two block section of roadway with adjacent pathway was developed.
- » **Project Manager, Downtown One-Way to Two-Way Conversion Study, City of Regina, Saskatchewan (2008):** Collect traffic volumes for approximately 40 intersections in Regina's downtown, establish a Synchro model of all intersections and model the impact of converting the current one-way street system to a two-way system.

- » **Co-Manager, Transportation Master Plan, City of Swift Current, Saskatchewan (2012):** Develop a transportation master plan that addresses long term traffic needs. The study included a significant public consultation effort and identified short, medium and long-term recommendations for transit, car, pedestrian and cyclist networks.
- » **Manager, Travel Demand Model Feasibility Study, Ministry of Highways and Infrastructure, Regina, Saskatchewan (2013) :** Explore the logistics of the Ministry operating either regional travel demand models or a province-wide travel demand model. Assess the type of model that would be of most value to the Ministry, and the cost of establishing such a model.
- » **Project Engineer, East Sector Sustainable Community Development, City of Saskatoon, Saskatchewan (2008):** Examine sustainable transportation solutions for a future Saskatoon residential development. Pedestrian, bicycle, transit and automobile modes were examined to lessen the carbon footprint of this future 10,000 population community.

#### Value Engineering / Analysis

- » **Project Manager, Southeast Regina Bypass - Hwy 1 to Hwy 33, Ministry of Highways and Infrastructure, Regina, Saskatchewan (2014):** Finalize the location for the Regina Bypass between Highway 1 and Highway 33, as well as identify a layout for both the system interchange at Highway 1 and the service interchange at Highway 33. A large-scale consultation effort was undertaken for this, and a separate week-long Value Engineering session undertaken to establish the system interchange at Highway 1.
- » **Value Analysis Participant, Tower Road and Highway 1 Interchange, Ministry of Highways and Infrastructure, Regina, Saskatchewan (2013):** Participated in establishing over 100 design suggestions for consideration by session participants in the development of a preferred option. A unique aspect of this project was inviting key landowners for the week-long session. This was seen as instrumental in informing the landowners of the issues but also to providing consensus on and support for the recommended design. This design, with only minor modifications, is now part of an extensive P3 project related to the Regina Bypass.
- » **Value Analysis Lead, Establishing New Systems Planning Division, Ministry of Highways and Infrastructure, Regina, Saskatchewan (2011):** Value Analysis was used to define a new transportation planning group at the Ministry of Highways and Infrastructure. Using Value Analysis principles, a function can be described as “an action that a product, process, or service must do to satisfy the needs of its users”. The analysis helped facilitate input from existing departments, achieve agreement on the scope of services to be offered by the new group, establish organizational structure, identify the number of people required within the group, and define those services no longer to be offered by other groups.
- » **Value Analysis Lead, West Regina Bypass and Highway 1 Interchange, Ministry of Highways and Infrastructure, Regina, Saskatchewan (2011):** A value analysis was undertaken to define the interchange layout for this important location on Highway 1. Initially designed as a service interchange, the value analysis determined how it could be staged into a full systems interchange with directional ramps serving primary movements, including Highway 1 traffic and truck traffic accessing the Global Transportation Hub.

#### Parking

- » **Project Manager, Evraz Place Transportation Background Study, Regina, Saskatchewan (2013):** Examine the traffic circulation needs and parking impacts related to adding a new football stadium on the Evraz Place site. Transit, parking, pedestrian flow, and cyclist access needs were addressed in the study.

This study included the collection of existing traffic information at surrounding intersections and the development of various high level recommendations on addressing forecast traffic as the site develops.

- » **Project Manager, Downtown Parking Review, City of Regina, Saskatchewan (2013):** Develop a downtown parking strategy that would allow the City to reposition its existing organization toward policies and practices to better accommodate current and future demand. Phase 1 of the project involved an assessment of the current parking program and parking strategy for downtown. Phase 2 of the initiative included a detailed survey of current parking supply, demand, and utilization characteristics in downtown Regina.
- » **Project Manager, Parking Review, Regina General Hospital, Saskatchewan (2011):** Examine potential locations for a parkade on the General Hospital site and conduct a business case for construction. Also examine options for STARS Air Ambulance service as part of the site.
- » **Project Manager, Parking Demand Management Review, Regina Qu'Appelle Health Region, Saskatchewan (2010):** Examine options for managing demand for the health region including remote park-and-ride, improved transit and active modes operations, and reconfiguration of existing parking supply at the General Hospital.
- » **Project Manager, Parking and Traffic Review, Mosaic Potash Belle Plaine, Saskatchewan (2010):** Expand the site entrance roadway to accommodate multiple lanes and a security office for addressing entering and existing traffic. Develop multiple designs to reconfigure/expand the main staff parking area and oversee construction of the preferred option.
- » **Project Manager, Traffic and Groundside Infrastructure Study, Regina Airport Authority, Saskatchewan (2008):** Reviewed options to accommodate existing and future passenger demands at the Regina International Airport. Identified solutions to resolve parking, safety and circulation roadway operations and determined long-term parking requirements for the public, rental car agencies and employee parking lots.
- » **Project Manager, Circulation Roadway Review and Parking Lot Expansion, Saskatoon Airport Authority, Saskatchewan (2005):** Examined groundside traffic operations and provide a functional solution to double the existing parking lot capacity. Project tasks included transportation planning, functional planning and design, detailed design and tender package preparation.
- » **Project Engineer, Ground Transportation System Study, Calgary International Airport, Calgary, Alberta (2002):** Examine groundside traffic and parking operations at the Calgary International Airport. The examination included a review of traffic projections for the airport, which is anticipated to grow from 6 million passengers per year to over 10 million passengers per year. Key roadways were assessed for capacity. The study examined the need for improvements and recommended functional interchanges for future access.

#### Active Modes Studies

- » **Project Manager, Bicycle Facility Network Study, City of Saskatoon, Saskatchewan (2002):** Develop a city-wide based cycling network of both on-road and off-road cycling facilities. The study developed costing and network staging plans.
- » **Project Manager, Bicycle Route Design, City of Regina, Saskatchewan (1999):** Identify recommendations for cycling facility selection and complete the engineering design of three new cycling facilities.
- » **Project Manager, Cycling Network Plan, Township of Cumberland, Ontario (1996):** Prepare cost estimate and staging plan for the cycling network.

- » **Project Engineer, York Steps Pedestrian Review, Ottawa, Ontario (1995):** As part of the development of the U.S. Embassy site in Ottawa, the use of the York Steps adjacent to the building were reviewed. The study involved numerous pedestrian counts to address the heavy tourist traffic accessing Parliament Hill by foot from downtown.
- » **Project Engineer, Bicycle Network Plan, City of Kanata, Ontario (1995):** Develop a community based cycling network of both on-road and off-road cycling facilities. The study developed costing and network staging plans.
- » **Project Manager, Integrated Pedestrian Pathway / Bicycle Network Study, City of Gloucester, Ontario (1994):** Develop an integrated network of pedestrian and bicycle facilities for existing Gloucester communities and future expansion areas.
- » **Project Manager, Cycling Network Plan, City of Nepean, Ontario (1993):** Develop a comprehensive commuter cycling network that ties in with the existing 28 kilometres of off-road pathways with in Nepean.
- » **Project Manager, Bicycle Parking Standards, City of Ottawa, Ontario (1992):** Examine bicycle parking requirements for office developments in Ottawa.

#### In-service Road Safety Reviews

- » **Project Manager, In-Service Road Safety Reviews, Various Locations, Saskatchewan**
  - » Highway 1 - Regina
  - » Highway 1 - Grenfell
  - » Highway 1 - Whitewood
  - » Highway 3 - Shelbrook
  - » Highway 39 - Estevan
  - » Highway 6 - Regina
  - » Highways 2 and 11 - Prince Albert
- » **Project Manager, Highway 10 Safety Review, Ministry of Highways and Infrastructure, Regina, Saskatchewan (2014):** Assess the operation of new passing lanes constructed on the Highway 10 corridor between Balgonie and Fort Qu'Appelle. These new lanes (four in either direction) represent the first example of passing lanes on Saskatchewan highways, besides the truck climbing lanes that are provided on two-lane highway segments with long steep inclines. Because of the lack of driver familiarity, clear instruction was important. The in-service safety review of the passing lanes focussed on the visibility and clarity of pavement markings and signs, and observations of how the public appears to be using the passing lanes. A separate safety assessment was conducted of the new ramps that have been installed at the Highway 1 East intersections at Highway 48 and at Highway 46.