

Canadian

# Design & Construction

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ATLANTIC

VOLUME 5, ISSUE 3, SUMMER 2014

Report



ATLANTIC CONSTRUCTION NEWS  
CFB Halifax Teme building

SPECIAL FEATURE  
Fenestration Canada/Win.door

Masonry in B.C.

WOMEN IN CONSTRUCTION  
Profiles of career success



# Canadian Design & Construction Report

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The magazine is distributed to thousands of design and construction industry leaders across Canada. It is also available for review and downloading at the Canadian Design and Construction Report website ([www.cadcr.com](http://www.cadcr.com)) or you can sign up for the electronic edition newsletter by emailing [buckshon@cadcr.com](mailto:buckshon@cadcr.com).

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# Welcome

By Mark Buckshon



I had the opportunity to attend the national Construction Specifications Canada (CSC) convention in Kitchener as we prepared this issue of Canadian Design and Construction Report. The conference keynote speaker, University of Waterloo professor John Straube, took aim at one of the biggest challenges in Canadian building insulation/energy savings: Leaky fenestration.

His observations co-ordinated with our annual Fenestration Canada/Win.door Show feature, with several articles and features describing innovations, resources and services for Canada's window and door industry.

My ears also perked up to an issue not formally addressed in the CSC convention's program, but reflected in underlying conversations and observations: The huge cost to Canada's design and construction industry because of sloppy or incomplete specifications.

Certainly, specifications are at this industry's heart. Without contract documentation, no one will know what or how to build anything. Unfortunately, problems caused because of sloppy specifications often only appear later in the game; when trade contractors discover the plans don't work properly reflected in. Some contractors understand the issue well enough to look for sloppy specs while bidding for projects. Knowing they can price in change order revenues, a truly messy way of doing business.

On the other hand, projects can be well-specified, planned and co-ordinated, such as the Department of National Defence's TEME (Transport Electrical Mechanical Building) at CFB Halifax. Here, the project has been completed under-budget, with good-will all around for the owner, general contractor and suppliers – an example of how to get things right.



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## Canadian **Design & Construction** SUMMER 2014 Report

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# Atlantic Canada governments announce harmonization of apprenticeship systems



## *Canadian Design and Construction Report*

The Atlantic provinces have agreed to harmonize their apprenticeship systems.

Federal and provincial leaders announced in late May that the Atlantic provinces, through the Council of Atlantic Premiers, will invest \$3.5 million in the project. In addition, federal Employment and Social Development Minister Jason Kenney announced that the federal government will provide more than \$4.3 million to support the initiative.

"It is time to keep our most important resource, our people, working at home," said New Brunswick premier David Alward. "Harmonizing apprenticeship projects across the Atlantic region will help build our communities and create job opportunities here at home. As we continue to work together to build a skilled workforce across our region, we want to ensure opportunities meet the needs of employers and apprentices."

Within the next four years, the project will harmonize

10 trades across the four provinces beginning with bricklayers, cooks, instrumentation and control technicians and construction electricians.

"Having harmonized apprenticeship systems will help more Canadians gain the skills and experience they need to find available jobs," said Kenney. "This project will create jobs and opportunities for workers across Atlantic Canada and help employers get the skilled workers they need. Today is an important step forward in removing the barriers to job creation caused by different apprenticeship systems across the country."

Over the course of the past year, Alward met with his Atlantic counterparts to discuss how together they can best respond to the region's labour market and job training needs.

"This on-going dialogue and co-ordination led to today's announcement," said Alward. "I am pleased that our government, as a partner in the Atlantic Workforce Partnership, will harmonize apprenticeship programs across the Atlantic region."

A New Brunswick government news release says the Atlantic harmonization strategy will provide:

- improved mobility through improved employer recruitment across jurisdictions;
- faster training completion through reduced duplication and better synchronized training;
- improved understanding and access for foreign-trained trades people;
- improve speed of completion by recognizing work within different jurisdictions;
- reduced development costs of training and exams for governments and institutions;
- increased consistency of assessment standards and quality of achievement;
- improved access to training through log book and curriculum alignment;
- consistent advice and guidance to provincial authorities;
- Atlantic governments receive common advice on compulsory certification;
- enhanced access to information by all stakeholders;
- improved resource allocation, cost distribution, scheduling of training; and the ability to compare success, improved understanding of success rates and best practices.

The project will help harmonize training, certification and standards, leading to increased availability of training, higher apprenticeship completion rates and increased labour mobility for apprentices across Atlantic Canada. In turn, that means more jobs and opportunities for workers in the skilled trades and a step forward in addressing the skills shortage faced in certain regions and sectors in Canada, the news release says.

"This project complements our efforts to support apprenticeship in New Brunswick," said Jody Carr, New Brunswick's post-secondary education, training and labour minister. "Our Labour Force and Skills Development Strategy 2013-2016 already highlights work being done to attract teens into the trades through the New Brunswick Teen Apprenticeship Program as well as efforts to implement a women-in-trades program. And most recently, we announced four new apprenticeship incentive programs designed to engage employers and support apprentices."

Other observations:

"Having harmonized apprenticeship systems will help more Canadians gain the skills and experience they need to find available jobs. This project will create jobs and opportunities for workers across Atlantic Canada and help employers get the skilled workers they need. Today is an important step forward in removing the barriers to job creation caused by different apprenticeship systems across the country."

— *Jason Kenney, federal minister of employment and social development and minister for multiculturalism*

"Harmonization of Atlantic Canada's apprenticeship programs will improve the opportunity for workers to access the training they need to advance their careers and will create a stronger labour market in Atlantic Canada. This level of collaboration is unique to Canada and complements work already being done through the Atlantic Workforce Partnership to support workers and businesses. This is part of our comprehensive approach to making sure we have the skilled work force needed to meet the demand for existing projects and to attract new employers to the region."

— *Stephen McNeil, Nova Scotia's premier and chair of the Council of Atlantic Premiers*

"Atlantic Canada is leading the nation in ongoing efforts to harmonize apprenticeship programs. By supporting a regional approach to apprenticeship that fosters a highly-trained and mobile workforce, the Atlantic apprenticeship harmonization project will ensure Newfoundland and Labrador continues to meet the growing demand for skilled labour - a demand-driven by major developments such as Muskrat Falls, continuing business growth and a strong economy."

— *Newfoundland and Labrador premier Kathy Dunderdale*

"We are pleased to see the federal government partner with Canada's Atlantic provinces and complement the work that is ongoing with our apprenticeship programs. We must work together to build a labour force that is ready for the jobs available today and those in the future."

— *P.E.I. premier Robert Ghiz*

"Based on what we have heard from our stakeholders, the Canadian Council of Directors of Apprenticeship (CCDA) has made harmonization of apprenticeship training and certification requirements one of its strategic priorities. The work that will be done to harmonize apprenticeship programming in the Atlantic region is complementary to the Red Seal trades work that is underway at the national level through the CCDA harmonization initiative."

— *Joe Rudderham, Canadian Council of Directors of Apprenticeship*

# Atlantic Canada Construction News Briefs

Here are excerpts from news briefs updated frequently at the Atlantic Construction News website ([atlanticconstructionnews.com](http://atlanticconstructionnews.com)).

## NOVA SCOTIA

### Eight-storey development planned for Halifax's Spring Garden Rd.

Construction of a new mixed-used development on the former Winsbys site on Halifax's Spring Garden Rd. should begin in the next two weeks, says Westwood Developments Ltd. president Danny Chedrawe.



The former Winsbys site was recently demolished. According to Chedrawe, the eight-level complex that will replace it will include three commercial levels and five residential levels with 16 rental units.

He said the approval process was lengthy and a required public benefit component — because the development is more than five storeys tall — and still has to go before council.

### Nova Scotia Lt. Gov. Architectural Design Awards announced

The Nova Scotia Association of Architects (NSAA) has recognized outstanding design in the Lieutenant Governor's 2013 Architectural Design Awards

There were 19 entries in the competition.

NSAA awards include:

- Lieutenant Governor's Medal of Excellence
- JDA Architects (now Stantec Architecture) - Wagmatcookewey School
- MacKay-Lyons Sweetapple Archi-

itects Limited -Lean-To House

### Award of Merit

- WHW Architects Inc - Charles P. Allen High School, Bedford
- Abbott Brown Architects Incorporated - Dalhousie Human Resources Offices

### Citation

- Omar Gandhi Architect - Black Gables, Louisdale
- Lisa Tondino, Houdini Design – Ritchie Gidney residence in Sandy Cove, Nova Scotia.

### Honourable mention

- GF Duffus & Company Ltd. - Halifax City Hall – Stone masonry restoration  
Jury members included: Christine Macy, Dean of Dalhousie Faculty of Architecture and
- Planning; George Cotaras, NSAA, MRAIC/Fowler Bauld & Mitchell Ltd.; and Jonathan Carmichael, NSAA, MRAIC / S.P. Dumaresq Architects Ltd.

### Contractor turns industrial building into \$3.5 million medical marijuana grow facility



Lindsay Construction has started construction on Nova Scotia's first medical marijuana production facility, reports The Chronicle Herald.

The company was awarded the contract to renovate an old Stellarton industrial building for Vida Cannabis Inc. of Ontario.

The renovation of the more than 300,000-sq. ft. former Clairtone build-

ing will be done in two phases, a Vida Cannabis news release says.

The first phase, estimated at \$3.5 million, includes design, engineering, office space construction and security systems installation, along with roof, facade and entrance improvements. Phase 2, estimated at \$5 million, will be the construction of the hydroponic medical marijuana grow facility.



### \$20 million Marine Atlantic Terminal construction underway

Construction of Marine Atlantic's new ferry terminal is well underway and on schedule, according to media reports.

The structural steel is up and the floor and roof decks are presently being installed. Sydney-based Joneljim Construction carried out site preparation and the new terminal is being built by Roclan Construction, also from Sydney. Rolcan is a division of Dartmouth-based Dora Construction.

The new terminal is expected to be open and operational in the fiscal year 2015-16. The cost — including design, site preparation and construction — is estimated to be \$20 million.

## NEW BRUNSWICK

### J.D. Irving \$450 pulp mill modernization construction commences

Construction work is currently underway for the \$450 million modernization project at J.D. Irving Pulp and Paper (JDI) in Saint John, New Brunswick.

The investment will involve a total

of 1.2 million person hours of construction work over the next 48 months, the company says.

Civil work has begun to prepare the



site for construction of a continuous digester. The existing chip handling equipment will also be replaced with state-of-the-art technology as part of JDI's ongoing investment to stay competitive in the global market environment.

This project phase will create 450 direct and indirect construction jobs.

## NEWFOUNDLAND

### EllisDon appoints Kirk Saunders as Newfoundland manager

EllisDon has announced the appointment of Kirk Saunders as its buildings group's area manager for Newfoundland and Labrador.

The company says Saunders has progressed through the industry since he started his career in 1993, from junior project manager to president of a Newfoundland and Labrador general contracting group.



He has completed approximately \$500 million of construction projects in the Newfoundland and Labrador and Caribbean regions. Previously, he was president of Anchorage Contracting Ltd. and general manager of Moss Group between 2007 and 2014. There, Saunders was responsible for the general direction of four multi-discipline contracting firms with operations throughout Newfoundland and Labrador, and approximately 120 employees.

EllisDon says Saunders' appointment reflects the company's commitment to the development and growth of its operations in the region

### Olympic Construction wins close to \$1 million in health authority court case

Newfoundland and Labrador will give close to \$1 million to Olympic Construction after the company won a court case against the Eastern Regional Integrated Health Authority.

Earlier, a court ruling said the health authority breached its tender contract with Olympic Construction for an extension to the Janeway Children's Hospital in St. John's.

The health authority appealed that decision, but on April 10 the Newfoundland Court of Appeal upheld the original ruling.

### \$4 million contract to develop adult additions treatment centre



Anchorage Construction has received a \$4 million contract from Newfoundland and Labrador for the development of the Harbour Grace adult addictions treatment centre.

The centre is expected to be completed by the end of 2015.

The project will include 18 resident bedrooms and support areas, clinical

and therapeutic spaces. The company will also upgrade the building's HVAC and plumbing/electrical systems.

## PRINCE EDWARD ISLAND

### Souris beach development nears completion

Construction is on target for the new development at Souris beach, CBC reports.



The project, located at the town's entrance, involves a new boardwalk, retail shops, playground, washrooms, and picnic area.

Work began last fall and the final details are expected to be completed by July.

"Now there is going to be a nice boardwalk, a nice seawall, a place for the kids to wash their feet, enhanced toilets, of course the boutiques, the ice cream shop. It's all going to enhance the entrance to the town," deputy mayor Denis Thibodeau, was quoted as saying.

### Charlottetown budgets \$175,000 for roundabout construction

Charlottetown plans to build a roundabout at the Vogue Optical intersection where three different streets intersect in a rotary-like design.

Recently, city council passed its annual budget, setting aside money to buy land in the former neighbourhood of Sherwood.

The city has budgeted \$175,000 this year to buy one more piece of land and pay for the engineering design.



## CFB Halifax's LEED-Silver TEME building

# **\$71 million project completed on time and more than \$20 million under original budget**

*Canadian Design and Construction Report staff writer*

The successful construction of a new Transport Electrical Mechanical Engineering (TEME) building at Canadian Forces Base Halifax demonstrates how a challenging military construction project can be completed in both a timely and economical manner.

The project's success sets the stage for additional, even larger, base construction initiatives, including a \$64.8 million junior ranks project.

Lt. Col. Dave Lauckner, CFB Halifax's construction engineering officer, says the TEME structure was finished on time, and at a significantly lower cost than originally anticipated. Planners originally expected that the project, to consolidate vehicle and equipment maintenance services in one 11,935 sq. m., two-storey building, replacing nine largely obsolete locations, would require \$96.8 million. In the end, it cost about \$71 million. The construction portion, overseen by general contractor EllisDon, also was completed at less than the originally expected \$55 million.

These design-build project cost savings were achieved without curtailing services or building quality, which has been designed to meet LEED Silver certification requirements – an exceptional achievement, considering the building's environmentally challenging function and brownfields location.

"There was really good interaction between the defence department director for capital project delivery and the folks in administration, local bases, and Defence Construction Canada (DCC) project managers handling the project," Lauckner said. "There was great management on the ground and with EllisDon."

Construction started in June 2012 and the building was occupied in April, 2014. Commissioning work is under-way.

"I don't recall any serious issues or technical challenge in the construction," he said. Despite the site's old industrial uses and a significant elevation difference between the base and city streets below it (requiring a retaining wall), EllisDon and sub-trades completed the project with a modest number of change orders – representing less than two per cent of the project's value, Lauckner said. In fact, one reason the project was completed at a lower cost than expected is that planners were concerned about possible surprises, and so built contingencies into the budget – which thankfully were not needed.





Architect Smith and Carter designed the building on a “heavily-used formerly industrial site DND-owned since the early 40s,” he said. “Prior to that it was an old rail site.” Some of the original structures the new building replaces date back to the turn of the 20<sup>th</sup> century. “One was originally built in 1901 and another in 1904,” Lauckner said.

The building has been designed with a focus on environmental responsibility and energy savings. There's a rainwater reclaimer, “for the wash bays and operation of the toilets and urinals as well,” he said.

“The building is half garage and half maintenance bay. Radiant floor heating has been built in to reduce temperature differentials and windows have been designed to reduce heat loss and gain.”

Overall, the new building should save the military money in operating costs, both through lower heating costs and, because a single structure replaces nine buildings, Lauckner said the federal government will save money on payments in lieu of municipal taxes.

There were some concerns from neighbouring residents as construction commenced. “Pounding in the caissons, could cause a lot of noise,” he said, and there were noise and dust issues. “But at the end of the day it's a gentrifying neighbourhood, and it is a fine, beautiful-looking building.”

Fortunately for local tradespeople and subcontractors, the TEME project completion has occurred just as work commences on a new junior ranks housing and training facility to be completed by 2016.

Three new buildings, with an overall cost of \$160 to \$200 million, are planned.

The first complex, with more than 21,000 sq. m., will include living quarters and a dining, galley and mess hall, a DND announcement said. A second, smaller building will house a retail store, snack bar and financial services. The third building, to be completed after the first two are completed, will be a modern seamanship training facility.

The construction contract, expected to create 380 jobs, has been awarded to Aecon and SLI in Halifax.

“As one of the largest military bases in Canada, CFB Halifax needs to maintain modern infrastructure for the hardworking men and women of the Canadian Armed Forces,” defence minister Rob Nicholson said in a statement. “Today's investment will provide the members in the junior ranks with facilities that will contribute to their well-being while in Halifax.”



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## Suppliers contribute essential resources to TEME project's success

### CDCR special feature

Specialist suppliers provided equipment and technical knowledge to help complete the TEME project within its budget, and on time.

**Multiserve Petroleum Equipment Inc.** installed the bulk oil and coolant system for vehicle services.

"We provided the tanks, pumping equipment and 15 stations in the building," said Multiserve's Mike Dickie. "We also provided air supply reels for each of the guys, and, on the flip side, to handle the waste products, added "control systems in there to prevent the tanks from overflowing."

This project was undoubtedly one of the largest for the company, but it went smoothly with EllisDon's co-operation and co-ordination. "The biggest challenge was co-ordinating the work and we followed the contractor's guidelines as on any given day, there could be 15 different trades trying to work around and with each other."

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"Everything to this point has gone well," he said.

Meanwhile, **Atlantic Compressed Air Ltd. (ACAL)** worked both with general contractor EllisDon and mechanical contractor, Atlantica Mechanical (a division of Modern Niagara Group Inc.)

"On the Atlantica Mechanical side, we supplied the project with all compressed air, through our main compressor supplier Sullair," said ACAL regional manager Michael Leger.

We also supplied and installed products directly to EllisDon including two industrial spray booths and an industrial blast booth, manufactured by Global Finishing Solutions."

"The project needs compressed air to supply air for vehicle hoists, for pneumatic pumps for oil and other lubricants and greases," he said. As well, there is need for air for the paint and blast booths and there is a need for "clean air, with oil-less compressors" for a couple of different applications, Leger said.

Systems needed to be designed and installed to meet stringent environmental requirements, he said.

"We found EllisDon were very accommodating and professional and a pleasure to do business with," he said. "They know their business and they know how to put a building together and they chose some very conscientious suppliers to work with them on this project." He said Atlantica Mechanical has been equally professional "and we have built a great partnership with them as well as EllisDon on this project."

"We've been in business for 40 plus years," Leger said. "We've built strong relationships with our customers from small shops to larger projects like this. We really put our clients first and our responsibility doesn't end after the equipment is sold. Our responsibility is ongoing to make sure this equipment is maintained and is functioning properly for the client."

*For more information about Multiserve Petroleum Services Inc. in Millford, NS, call (877) 771-7575 or email: [multiserve@multiserve.ns.ca](mailto:multiserve@multiserve.ns.ca)*

*You can learn about Atlantic Compressed Air Ltd (ACA) at <http://www.atlanticcompressedair.ca> or e-mail at [info@atlanticcompressedair.ca](mailto:info@atlanticcompressedair.ca) The company has offices in Dartmouth, NS, Moncton, NB and St. Johns, Newfoundland and Labrador.*

## Guildfords Group of Companies

# Insulation, firestopping and fireproofing services

*Canadian Design and Construction Report special feature*

North America's oldest insulation contractor – Guildfords - began in 1906 as a family owned business and since that time has become the premier insulation contractor in Atlantic Canada. Over the years the company has provided specialty contracting services to a wide variety of commercial, industrial, institutional and marine-related projects throughout Atlantic Canada and beyond. Now in the hands of a partnership based in Atlantic Canada, the Guildfords Group of Companies continues to operate on the principles of family and commitment to client, has diversified to better serve the industry and is looking to expand its operations to new markets.

The Guildfords Group is pleased to have provided a range of specialty insulation, firestopping and fireproofing services in the construction of National Defence's Transportation, Electrical and Mechanical Engineering (TEME) Facility now nearing completion in Halifax, Nova Scotia.

**Guildfords (2005) Inc.**, working under contract to Atlantica Mechanical, provided pipe insulation throughout the facility as well as canvas jacketing for the HVAC ductwork. PVC jacketing was also installed on the building's various piping systems. Sister company **Guild Contracting Specialties** provided firestopping throughout the facility as well as spray-applied fireproofing under contract to Project Manager Ellis-Don.

With offices in St. John's, Sydney, Halifax, Port Hawkesbury area, Moncton and Saint John, Guildfords has a strong Atlantic presence. The company is also doing work in other Canadian markets and will focus more energy on bidding projects on a national and international basis.

Besides common ownership, a commonality to all of the Guildfords Group's member companies is quality and a commitment to safety and customer service.

### Guildfords

North America's oldest and Atlantic Canada's largest insulation contractor provides thermal, fire and acoustical insulation services to the commercial, marine and offshore sectors of Atlantic Canada.



### Guild Contracting Specialists

Guild Contracting Specialists provides services including asbestos and lead abatement, mould and fungicidal remediation, firestopping and penetration seals, structural steel fireproofing, spray-applied polyurethane foam and special coatings applications.

For more information on Guildfords Group, visit [guildfordsgroup.com](http://guildfordsgroup.com).

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Members of the Guildfords Group of Companies have been proudly serving Canada's Construction Industries with specialized services since 1906.

Our services range broadly from insulation, abatement and a variety of spray applications to structural steel and building erection, piping systems testing and cleaning services, sheet metal application and custom steel fabrication.

Our work can be found in hospitals, sports facilities, major industrial sites such as oil refineries, power generating plants, oil rigs and offshore vessels.

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Building sciences professor John Straube speaks to CSC Canada conference

# Windows and energy savings: The weakest link in Canadian buildings



John Straube

*Canadian Design and Construction Report staff writer*

Where is the weakest point in energy savings in Canadian buildings?

John Straube, a University of Waterloo engineering professor, indicates that windows, even ones marketed for their high-efficiency – leak energy at an incredible rate, and less-than-perfect fenestration solutions could defeat other energy-saving efforts, including wall and ceiling insulation.

“What’s really damning is that older buildings, built well before the Second World War, are pretty good in terms of energy consumption,” he told the annual Construction Specifications Canada (CSC) conference in Kitchener in May. As an example, the university’s School of Architecture building, constructed in the early 1920s, uses “significantly less energy than the average.”

“The walls are made of solid masonry,” he said. “There are decent windows – but not too many of them.”

Yet the building is “filled with natural daylight.”

Compare this construction to modern, mass-market urban condos in Toronto, with floor-to-ceiling glass curtain wall facades.

These may look nice, and help sell the condos, but the owners will be stuck with the energy bills – and possibly hefty maintenance charges – for years and years.

Straube, in an earlier CBC interview, said a building is a living, breathing thing, enclosing and protecting the people who live inside. “Building with glass walls is to miss the main point of a building . . . sacrificing the pro-

tection that is a building’s first duty for a beauty that is only skin deep,” CBC reported.

“It’s almost derogatory in my world to forget about everything else that’s part of experiencing a building,” Straube was quoted as saying. “I like to think what is the building going to be like on a dark and stormy night. In our climate, particularly, we care about that. It’s life and death.”

Simply put, he told the national CSC conference, many commercial buildings have really “poor enclosures” with exceptionally low insulation R-values, caused by “too much glazing, too many thermal bridges, and too much air leakage – which no one seems to measure.”

Meanwhile, heating and ventilation systems have been designed with super-efficient equipment, but “the systems are often very inefficient.”

The result, windows, even with double-glazing, often have absurdly low R-values, perhaps at 2 or maybe 3.

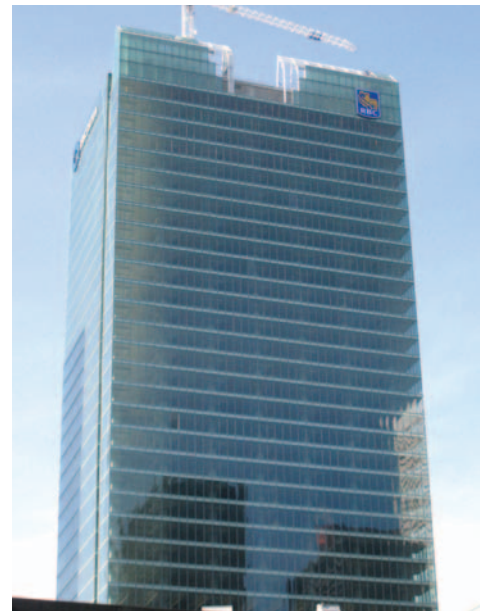
If these window systems dominate the building, even the best insulation within the walls won’t do much to solve the problem as thermal bridging gobbles up wall and ceiling insulation value.

For example, if wall systems have an R20 level (over 50 per cent of the area), and there are R2 windows covering the other 50 per cent, the overall building insulation value is just R3.6.

Assuming really good windows are installed, with an R4 value, then the building gains some ground, but the overall insulation factor remains what would seem to be a dismally low R6.6.



*The University of Waterloo's Faculty of Architecture building (left), built years ago, is far more energy efficient than modern high-rise condos in the GTA.*



"Windows are expensive (in terms of energy loss)," he said. The cheapest solution is to reduce the area dedicated to them. If the window area is reduced to 31 per cent (with an R2 value) you would have an overall R rating of 5.3. If you do the same with energy efficient R4 windows, you could reach R8.9 overall."

"You make trade offs in design," he said. "You make intelligent choices about how you spend your money."

There are other issues, he said, with curtain window walls. As much as they leak heat in the winter, they absorb heat from the sun in the summer, creating truly heavy air conditioning loads.

He said buildings built by investor-owners, rather than for quick resale to condo purchasers, are being built to a higher standard.

There are solutions, he said, including solar control glass, thermo-electronic systems that control the light intensity, and interior and external shade and blind systems.

"Curtain walls have very poor thermal comfort performance," Straube said. "Specifying better products and reducing (window) area reduces costs and significantly improves performance."

"Higher industry performance should and will be demanded for our buildings," he said. "Windows are the last big hole we have to fix."



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# Sloppy specifications and change orders

How much does poor contract documentation cost Canada's construction industry?



**Heritage engineer John Cooke**

Ottawa Construction News staff writer

How much does sloppy and incomplete construction documentation cost the Canadian construction industry?

It is hard to quantitatively answer this question, some industry leaders say, but the implications are immense.

"The situation isn't getting better," Ontario General Contractors Association (OGCA) president Clive Thurston told a gathering at the national Construction Specification Canada (CSC) convention in Kitchener, Ontario in May. "On average, specifications are 70 per cent complete. Owners will not spend the money to put out

a decent set of bid documents."

John Cooke, an Ottawa-based professional engineer specializing in heritage restoration, agrees. "If you talk to anyone in the industry, especially contractors and owners, they will tell you the cost of poor specifications results in an excessive number of change orders, and this is a huge cost to the industry.

"It impacts on costs, both the final costs and schedule – the schedule impacts contractors' ability to meet the deadlines, and the owners' ability to bring the new structure into use."

The consequence of incomplete or sloppy documentation on change orders is controversial.

Cooke says knowledgeable contractors study the bid documentation, and when they see the sloppiness, they know they can turn a “low bid” project into highly profitable work through effective change orders.

“They (the contractors) will go through it with a fine-tooth comb to find things that aren't specified, or where things are specified that contradict the drawings. They will use that in most contract specifications to override the drawings.”

“They (the contractors) will price according to spec, knowing that that is not the intent of the designer.”

Thurston agrees that change orders are a problem arising from incomplete or inaccurate specifications, though he doesn't suggest that contractors are actually looking forward to them.

“If my guys get really good specs, they (offer) better pricing, and fewer change orders,” Thurston said. “We have trouble with public owners who don't go that way, because they think ‘low bid’ is the way to go.”

He said, however, when New York State introduced a qualification-based design selection (QBS) process, it reduced its cost overruns. (The U.S. federal government, and several state and local authorities, have for many years mandated QBS through Brooks Act provisions, which make it clear that price should not be a primary consideration in selecting architects and engineers for public projects.)

Thurston says if architects need to compete on price, with the low bid winning, “architects don't build in enough visits to the site.” This leads to the change orders – where “contractors will hit you on anything not specified. Owners then try to remove the change-order risk by building risk-transfer provisions into their contracts, denying contractors the right to be compensated for legitimate change orders.

The result: Unmanageable contract documents that deter contractors from bidding on the work, resulting in significantly higher costs because of less competition and more stress (and completion risk) on the part of the contractors who accept the work under these circumstances.

Cooke says the problem with poor quality specifications isn't entirely with owners not willing to pay for quality. There are challenges within the design industry as well.

Many architectural and engineering practices are not “spending enough time on the specifications,” he said.

“If your specifications are wrong, or you have to issue change orders, or take remedial action, this results in more action on your time or the time of your staff. You are already paying for your mistake.”

“This results in longer site meetings and fighting over interpretations of the specifications,” he said. The time wasted and extra costs means that the architectural or engineering practice ends up paying out far more than the savings achieved by rushing or inadequately preparing the initial specifications, regardless of the actual design fee.

“If you have good specs, you should be able to operate within five to 10 per cent of an overage for change orders,” he said. “When you go above that, you are going to have an impact on costs.”

Cooke says the cost in time and money to send architects, engineers and technologists for specifications writing training is insignificant compared to the savings that can be achieved through clear specifications.

CSC, for example, offers courses that can be completed either on line or in classroom settings, require a modest amount of time and cost only a few hundred dollars to complete. “The costs for this training would be recovered in a single project that doesn't go wrong,” he says.

He says clear specifications need to be combined with a systematic inspection program to ensure the specifications are observed throughout the construction process. “You need to have someone on site holding the contractor accountable,” he said. “You can't wait until the job is finished for this inspection – you need to catch things when they are visible.”

These site inspections could add some short-term costs, but, Cooke says, will save money long-run, and avoid the consequences of building systems failures after the work is finished.

Cooke says, conversely, general and trade contractors might benefit from CSC courses to understand the specifications process more clearly, and be better equipped to see discrepancies and potential change order opportunities.

“There are far fewer structural engineers who take the CSC courses, and mechanical and electrical engineers, even less,” he said. “There are more contractors who take the courses than there are consultants – so contractors know what to look for.”



**OGCA president Clive Thurston**

*For more information about CSC's certification program, see <http://csc-dcc.ca/Certification>.*

## Little Lake Seniors Community in Barrie, Ontario

# Integrated multi-phase project to include medical centre, condominiums and a retirement community



### *Canadian Design and Construction Report special feature*

Work is well underway in developing the Little Lake Seniors Community in Barrie Ontario. Once completed, the multi-phase project is expected to include a medical centre, a condominium development and a retirement community.

The project's first phase, a five-storey 50,000 sq. ft. regional community health centre, has been designed by MCL Architects Inc. and is being built under the supervision of construction manager Brimnor Construction Services Ltd. President Robson Knapp says the first phase is expected to be completed in October with the next phases coming in over the next few years.

"There is a five-acre parcel of land in the centre of the project set to become 360 condominium units with amenities including a pool, fitness centre, café and salon. That development though is contingent on the completion of the bridge bypass which is at least a two-year project."

He says the Ontario Teachers' Pension Fund also

plans to build a 150-170 bed retirement home including assisted living and memory care housing options. This phase should open next summer.

"When everything is done you can buy a condominium, be guaranteed a doctor through the medical centre and have the retirement community adjacent for flexible assisted living when those services are required," he said.

Knapp says the medical centre has been constructed with local trades, incorporating common-sense energy savings. Features like the third floor communal waiting room with curtain wall overlooking Little Lake make the centre bright and airy and connect visitors to the natural environment.

The centre will include family doctors, specialist, minor surgery services, a pharmacy and lab, optometry, health and wellness services, nurses and nurse practitioners.

Knapp says Brimnor Construction Services Ltd. has developed an expertise with this type of project, having constructed several others across the province.



# Threads of Life fills void for families of workplace accident victims



*Canadian Design and Construction Report staff writer*

Threads of Life began 10 years ago with a mission to support families who have suffered a workplace fatality, life-altering illness or occupational disease. On May 3 and 4, 37 Steps for Life Walks took place across the country in support of the initiative.

When Shirley Hickman lost her son in a workplace accident she struggled, as many left behind do. Together she and other volunteers formed Threads of Life to fill a void; to offer families support, forums, and opportunities to move forward in their lives. Today the program serves more than 1,500 family members across the country.

Government organizations, commercial enterprise and key construction industry partners have supported Threads of Life fund-raising.

Todd MacDonald, district HSE (health, safety and environment) manager with PCL Intracon Power Inc. also chairs the Edmonton Steps for Life Walk.

PCL was the walk's first national sponsor, MacDonald said. "As a health and safety professional, I appreciate the life changing impact a workplace fatality can bring. This is why companies need to work diligently in implementing health and safety management systems which prevent these tragic events."

Threads of Life also provides speakers who work across the country delivering the message that workplace accidents are preventable and are in no way an acceptable cost of doing business.

MacDonald says he started working with Threads of Life early in 2013 with little knowledge beyond understanding the fundraising and awareness were important.

"Last year the walks raised just under \$600,000. This is the tenth anniversary of the program in Canada, the fifth anniversary for them in Edmonton."

"Through the program I've met people who have lost loved ones on job sites," MacDonald said. "It has made a deep impact on me, and made it more personal."

In Edmonton, balloons were released to start the event and a bagpiper piped walkers to the start line. Along the path, a memory lane featured workplace accident victims' pictures and stories.

He says the funds raised across the country are pooled and directed to support spouses, children and parents. Families or friends should connect with Threads of Life directly if they require support.

For more information, visit <http://threadsoflife.ca>.

# NEWS BRIEFS

CADCR News briefs

## Robert Landry appointed to Trisura's board



Trisura Guarantee Insurance Company, a Canadian specialty lines insurance and surety company, has announced that Robert Landry has joined the company's board of directors.

Landry is an experienced leader from the insurance sector, having served as president and CEO of Zurich Insurance Company's Canadian operations for six years, retiring in 2007, a Trisura news release said. From 2006 to 2009 he was a director of the Insurance Institute of Canada, and he served as chair of that organization in 2007.

"We are very pleased that Robert Landry has joined our board of directors," said Mike George, president and CEO of Trisura. "Robert brings a distinguished career of leadership, dedication and expertise in the Canadian insurance industry, and as a fast-growing company with unique product offerings, Trisura will undoubtedly benefit from his experience and guidance."

Landry holds the Fellow Chartered Insurance Professional (FCIP) designation from The Insurance Institute of Canada. In 2009, he received the ICD.D designation from the Institute of Corporate Directors. He currently lives in Mississauga, Ontario.

The complete list of Trisura Board of Directors is available on the Trisura website: [www.trisura.com/why-trisura/board-of-directors](http://www.trisura.com/why-trisura/board-of-directors).

Trisura Guarantee Insurance Com-

pany is a Canadian specialty insurance and surety company with offices in Toronto, Montreal, Calgary, Halifax, Quebec City and Vancouver.

## Holcim Canada supports the Canada Green Building Council as Gold Level national sponsor

The Canada Green Building Council (CaGBC) has announced Holcim Canada is a Gold level CaGBC National Sponsor for the second year in a row. Through its national sponsorship program, the CaGBC provides the building industry with opportunities to support the Council's goal of accelerating the transformation of the built environment to high-performing, healthy green buildings, homes and communities throughout Canada.

"Holcim has been a longtime supporter of CaGBC in advancing sustainable construction practices and a trusted partner on various initiatives over the past six years," said Thomas Mueller, CaGBC's president and CEO. "Support from innovative, forward-thinking companies like Holcim is critical in helping to accelerate our mission throughout Canada."

Holcim Canada was a lead sponsor of the CaGBC National Conference 'Building Lasting Change' in Toronto in June, as well as supporting chapter events in Ontario and Quebec. The company has also worked with the CaGBC to encourage Canadian sustainable construction projects to be recognized globally via the Holcim Awards for Sustainable Construction, a \$2 million (USD) international competition recognizing and rewarding visions and projects in sustainable construction.

"Holcim works diligently to ensure that sustainable development is integrated into the business and into our thinking," said Ruksana Mirza, Holcim (Canada) Inc.'s vice-president of sustainable development. "We have

a responsibility to drive sustainability by providing innovative solutions that will enable the industry to design, build and operate sustainably. Partnering with the CaGBC allows us to multiply our efforts and work together to help drive sustainable development awareness and behavior change in Canada."

## B.C. Construction Industry Survey

The British Columbia Construction Association (BCCA) has published results of the 2014 B.C. Construction Industry Survey, with nearly 500 respondents articulating the major challenges and opportunities facing BC's construction sector.

Responses from construction owners and employers, trade contractors, and suppliers demonstrate a united industry on key issues affecting productivity and profitability across the province: youth engagement, succession planning, outside competition, fair and transparent procurement practices, foreign workers, prompt payment, and others:

- 18 per cent of respondents searched internationally for skilled workers in the past year;
- About 50 per cent of respondents in every region of the province say they plan to hire in the next year. Another 35 per cent in each region say they might hire... leaving only about 15 per cent of employers who aren't hiring;
- On average, large companies are planning to hire 35 tradespeople each this year;
- 61 per cent of respondents say that regional competition is hotter than it was two years ago, and 32 per cent say that international competition has increased as well;
- 74 per cent surveyed from Vancouver Island responded they are now using online bidding tools;
- More than 230 respondents listed numerous trades and tech-



Ontario cement plant wins award as international leader in reducing energy costs and consumption

nical positions which they are having difficulty hiring for; the majority are for trades which require certifications, but also include labour positions and upper-level supervisory roles, indicating a disconnect between training and needs for the last several years.

This disconnect in career planning is highlighted by one survey respondent, who commented: "Most families do not encourage the trades. It seems as though there is nothing between McDonald's and university."

"Construction employers are under increasing pressure and scrutiny," says BCAA president Manley McLachlan. "This honest, straightforward input from industry is invaluable. The respondents are clearly deeply invested in the sector and have expressed a sincere need to resolve issues and move forward."

### Georgia-Pacific Canada expands sales presence across the country

Georgia-Pacific Canada LP, an affiliate of Georgia-Pacific Gypsum, one of North America's leading manufacturers of gypsum products, has expanded its Canadian coast-to-coast sales presence.

Three independent sales representative firms, all based in Canada, cover specific territories, the company said in a news release.

- Div7 Building Systems, based in Surrey BC, will cover British Columbia;
- North 49 Sales Agency Inc., based in Toronto, ON will service Ontario, Quebec and Atlantic

Canada;

- Pilot Group Inc., based in Calgary, AB will operate in the prairie provinces.

Leo Bissonnette, Georgia-Pacific Gypsum's regional business manager - Canada and Northeast US, says the companies represent all gypsum products. This team will focus on building owners, architects and roofing contractors, complementing the work of the company's internal field sales managers, who focus on dry-wall contractors and distributors.

### Ontario cement plant wins award as international leader in reducing energy costs and consumption

Community leaders and St Marys Cement Inc. executives have celebrated St Marys Cement - Bowmanville plant recently receiving the Gold Award Certification in Energy Excellence.

Certification in Energy Excellence is a program which tests an organization's energy management processes and performance, and is one of the most thorough programs in the world. More than 160 energy management criteria, based on world-class best practices, are assessed. The program is independently moderated and validated by the United Kingdom's National Energy Foundation.

St Marys has been recognized for its world-class energy conservation performance and its success at integrating energy management in all aspects of its operations.

To date, the Bowmanville Plant's approach to energy management has added \$10 million to its bottom line,

the company said in a news release. "The plant is again on pace this year to reduce its energy bill by \$1 million," the news release reported.

"These savings are achieved though an integrated and carefully balanced approach of smart energy buying, matching energy-intensive plant operations with off-peak rates, common sense energy conservation practices and other plant-based energy initiatives."

John Pooley, chief assessor for the Certification in Energy Excellence, based in the United Kingdom, presented the award.

"The Bowmanville facility is one of the largest cement plants in North America with a rated capacity of over 1.8 million metric tonnes of product," Pooley said. "As we all know, cement plants consume significant amounts of energy, but few other industrial operations in the world have come close to achieving the same level of integration in energy savings."

Marty Fallon, CEO of St Marys Cement, Celso Martini, VP Cement Operations, and Fabio Garcia, manager of plant operations, accepted the award on behalf of St Marys.

Since the committee's inception, St Marys Cement - Bowmanville Plant has reduced energy usage by a total of 171,429 mw, which is sufficient to provide power to 3,819 homes. This energy savings lowered CO2 emissions by 31,886 tonnes, equivalent to the removal of 9,135 cars from the roads, the news release said.

## Masonry Institute of B.C.

# Improving the product, educating the design industry, and supporting research and skills development

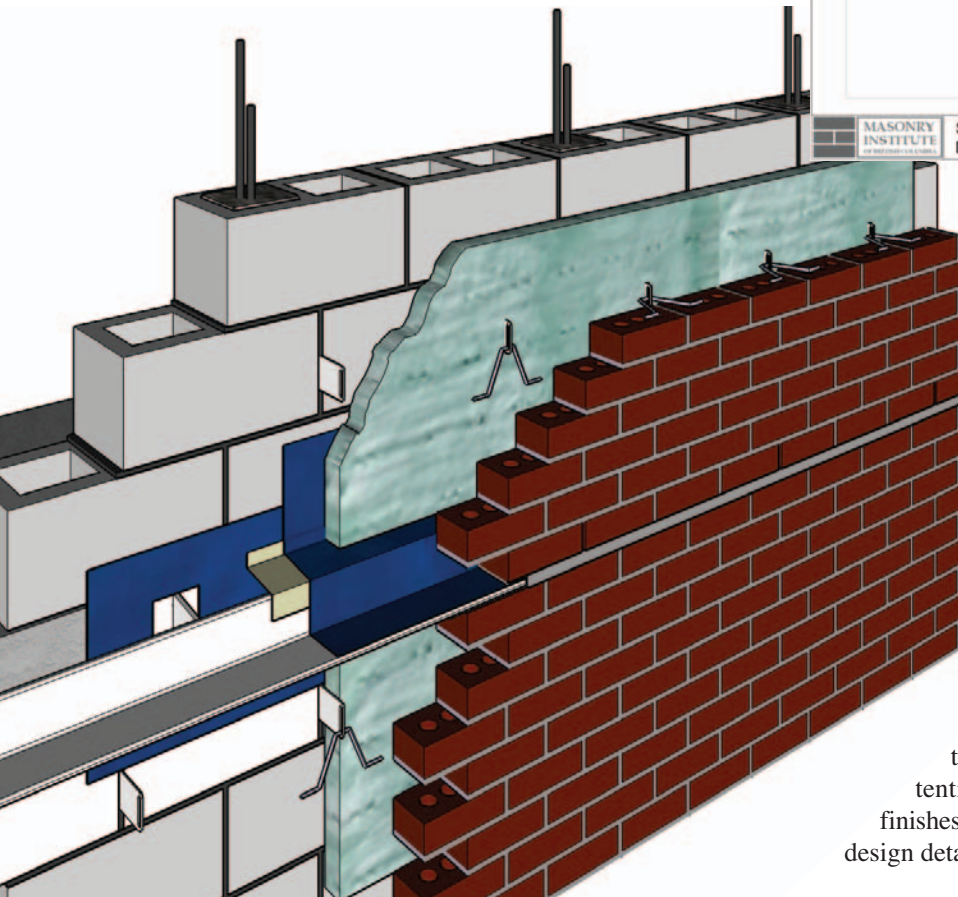
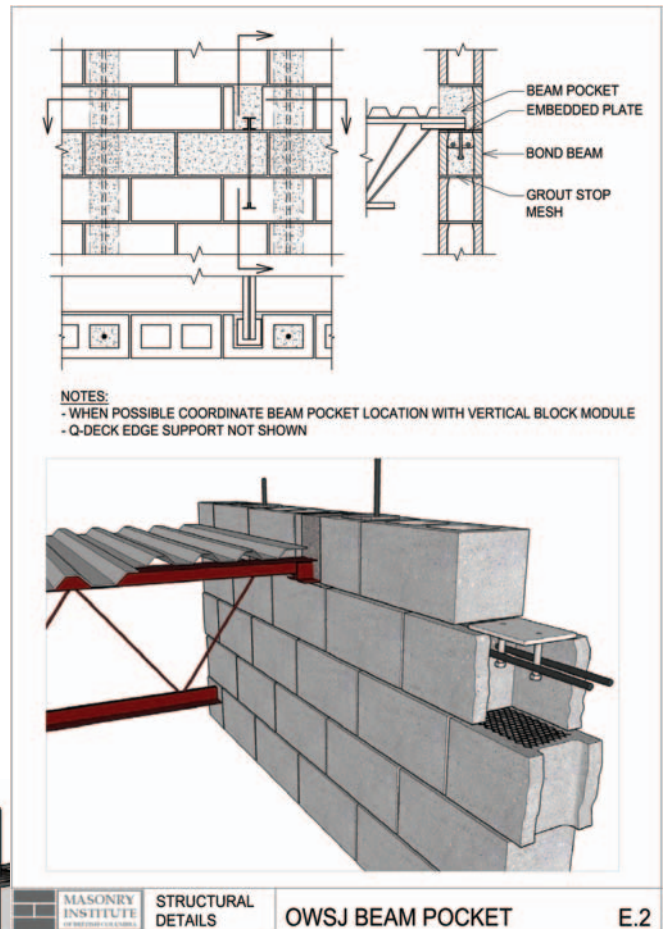
*Canadian Design and Construction Report special feature*

The Masonry Institute of British Columbia (MIBC) promotes masonry in the province by developing product improvements, educating the design industry and supporting research, building code and skills development.

Executive director Bill McEwen says masonry is the most proven historic construction method. “The fact that buildings of masonry are still standing hundreds of years later is impressive,” he said. “Consider the fact they were built without seismic consideration and that bringing them to code often only involves adding that and it’s even more impressive.”

McEwen indicates masonry’s value perception has been eroded in recent years with the province’s Wood First initiative, something the concrete, steel and masonry industries have been collaborating to dispute. McEwen says he understands the policy’s relevance for wood exports, but believes that it is unfair to give preference to one material over another in B.C., especially for government projects.

“The government is just trading one carpenter job or one lumber mill job for one bricklayer job or one concrete truck



driver job,” he said. “The Wood First campaign has impacted a number of industries and it’s time to put it into perspective.”

McEwen indicates that in many ways masonry does well under LEED criteria but the environmental rating program doesn’t properly consider durability. “What is better than a 100-year old building for sustainability?”

He says the masonry’s mass helps as well because heavier buildings avoid the temperature peaks and valleys of lighter structures. “It isn’t as easy as talking about R-values but the evidence is there,” he said.

Another challenge is educating young architects and engineers about masonry’s value and potential. The development of new architectural finishes, including ground face blocks, coloured units and design detailing options is just the beginning.

“Our online technical manual includes detail drawings for both masonry veneers and structural walls in CAD and 3D modelling, so architects, building envelope specialists and engineers can see walls being built through a series of layers and the sequence of construction. It’s a unique feature and one that is getting positive feedback and one we hope will help inspire. These MIBC Details are available for free download on our MIBC website.”

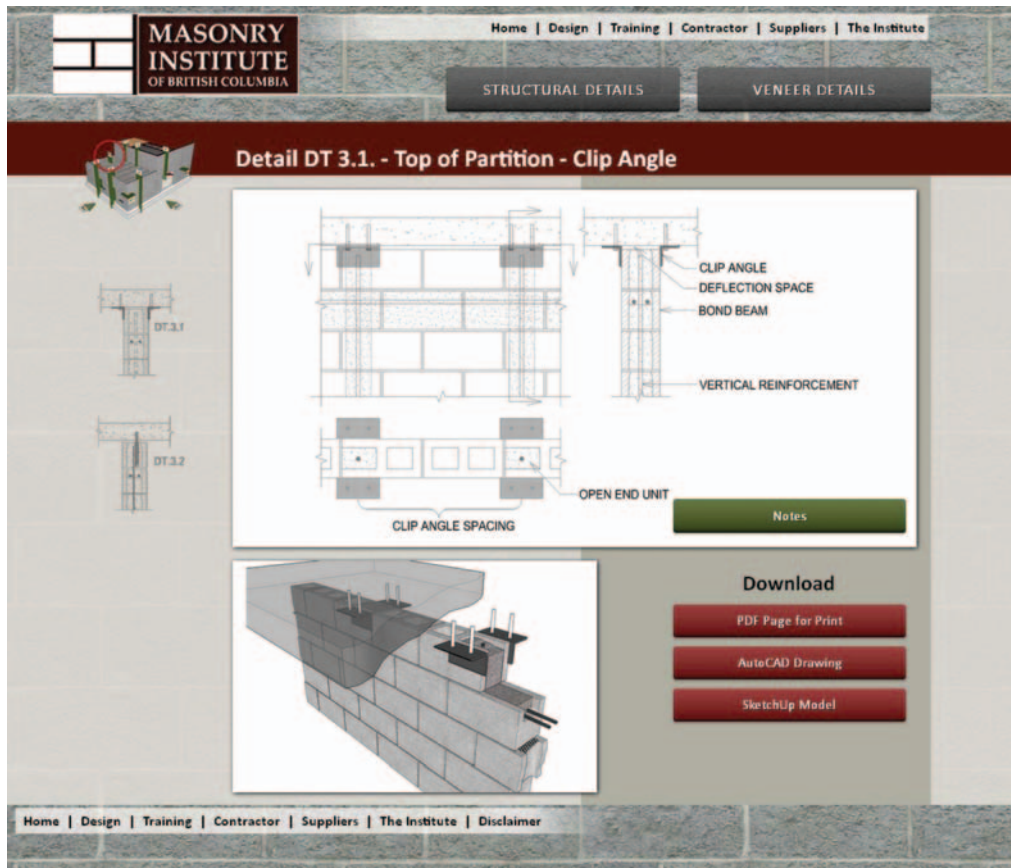
The feedback has been so positive, the institute is now collaborating with its counterpart in Alberta to roll the program out there and may look at expanding it across Canada.

Another source of inspiration is the MIBC masonry awards, held every three years. The awards, next scheduled for 2015, include submissions by architects and engineers and include recognition in a variety of categories including restoration, commercial, residential and institutional projects.

People’s choice awards from the attendees at the awards banquet also showcase masonry design excellence, innovation and beauty.

Another concern and focus of the institute, as with many sectors of the industry, is the aging workforce. McEwen says the masonry training school in Surrey offers apprenticeship programs, but they are not full and the tendency of workers in the field to retire younger is a cause for concern.

“Bricklaying is not about sheer strength but it does require skill, concentration, technique and working outdoors,” he said. “We need to work more with schools and counsellors to educate people.



“Masonry is a good job and provides a good career. People coming out of apprenticeships are already ahead of the game financially. Trades simply aren’t given appropriate consideration.”




McEwen says women's participation in masonry is historically low but doesn't have to be.

The institute continues in its research efforts which will contribute to future building code developments. “We’re co-ordinating with others in Canada and the U.S., sharing information on common issues and common concerns and working to raise the bar for masonry across the country.”

For more information, visit [www.masonrybc.org](http://www.masonrybc.org).


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# Industry challenges: Attracting young people and developing complex industry's potential

B.C.'s Tristar Brick and Block leads in structural masonry innovation



## *Canadian Design and Construction Report special feature*

Tristar Brick and Block Ltd. began in 1983 as a block manufacturing plant. Over the years its expertise has evolved to include architectural structural masonry, ground face, scored and precast concrete.

President Severin Samulski trained as a bricklayer in Ontario and on moving to B.C. discovered structural masonry's potential. Since then that has been one of his key interests. "I saw what you could achieve with structural masonry, all the efficiencies of having electrical, mechanical and reinforcing elements built right in."

From its 7,000 sq. ft. Abbotsford plant, Tristar has supplied projects in Vancouver, Northern B.C. and Vancouver Island. The company has provided product to several local federal and provincial prisons which Samulski calls the epitome of a project with structural masonry as the main component.

"We did our first project recently using steel blocks which were installed strategically within the concrete construction," he said. "The placement of the steel blocks created a unique look and allowed elements like bunks and hardware to be welded directly to the wall."

Tristar is also producing new products, using techniques like burnishing (ground face) to create unique looks and interest for architects.

Samulski calls masonry a craft that is neither high tech, nor sexy. He says the job's physical demands can make it hard to attract young people. "It's an old skill and an old product that, when done right, is so durable it can create buildings that will last a lifetime."

He says quality and skill in craftsmanship is critical to ensuring the industry maintains high standards. He also says the low-bid process can impact the industry's reputation because it can tend toward lesser skill sets. "Once masonry is constructed it hides any mistakes that may lie within. The industry needs to find ways to certify the quality of the wall system to give the design community the confidence in the masonry system."

Samulski has noticed a decline in the volume of masonry projects combined with increasing complexity. "Tilt-up is gaining popularity as a technique because it gives the illusion that volumes can be put up quickly," he said. "What people don't see is the extra time and work it then takes to set masonry walls with all of the electrical and mechanical components that can't be added to the tilt-up walls."

To meet the demands of a more complex and more competitive industry, Samulski has aligned his efforts with national associations working collectively to market to and educate the community about masonry's value.



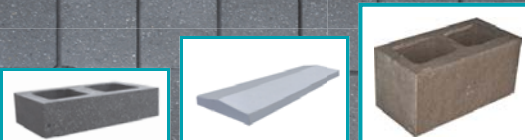
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## Changing the way we think about **GREEN BUILDING**

*By Jenifer Christenson, executive director Built Green Canada*

So what's sustainability? Technically, it's the process of using without depleting and/or destroying, and in full function, it has four pillars in which it works: environment, society, finance, and culture. Landmark Group of Builders is a rare builder who engages all four.

Landmark has taken a firm stance on green building. The company's product development manager, Dave Turnbull, chairs the Built Green Canada board of directors and often speaks on behalf of sustainable building. If you haven't heard of Built Green, it's a national, industry-driven organization with programs focusing on seven areas of green building: energy efficiency; materials and methods; indoor air quality; ventilation; waste management; water management; and business practices. Every Landmark home is the trademarked Built Green Gold certified or better, and as one of the largest Built Green builders in Alberta, they make a substantial contribution to sustainable building across the province and are raising the bar across the country.

Landmark says that the biggest challenges around green building are the misconceptions: too many consumers believe that green homes are ugly and difficult to maintain, that beauty is forfeited for environmental

stewardship. Strange, really, considering that sustainability has little to do with appearance, and that one of the most overlooked factors of a sustainably built home is durability.

The Built Green program encourages the use of a variety of durable features, from engineered lumber that resists warping to extremely durable exterior features, such as 30-year shingles—many of the products Built Green suggests through its product catalogue are made from recycled material, repurposed to be beautiful, useful, and environmentally friendly. And moreover, renovations are taxing on the homeowner and the environment: between energy consumed during the process and wasted materials—and therefore added stress to waste deposit sites—producing a home that will soon need renovations is something sustainable programs strive to prevent—another reason durability is emphasized in green building programs.

Environmental leaders like Landmark do more than build; they promote sustainability. Landmark has done a fantastic job of this, while also fulfilling the social pillar of sustainability—something they've been doing for years through the Full House Lottery. The University of Alberta and Royal Alexandra Hospital Foundations put on this charitable lottery, with the help of local businesses





like Landmark, to raise funds for much needed medical equipment. This year, they're raising funds towards the purchase of the gamma knife, a robotic surgery technology that will mean those at the Lois Hole Hospital for Women benefiting from it will have a much shorter hospital stay, less pain, minimal scarring, and a significantly faster recovery. For those with life-threatening growths, like cancerous tumours, it means getting a treatment at home that they would have had to travel to get, spending out-of-pocket amounts many just can't afford.

Of their participation in the lottery, Landmark's founder and CEO Reza, says: "After I was appointed as a trustee of the University Hospital Foundation in the early 1990s, I soon realized the tremendous potential the



foundation had to help the U of A hospital in research and palliative care. Once I understood this, I decided to help their cause as best as I could. So Landmark started building the House of Hope. All profits from each House of Hope were donated to the Foundation. In 1998, Landmark switched from building the House of Hope to building homes for the Full House Lottery. We continue to participate because it is a very big source of income for the Foundation—and I want to help them succeed."

This year, Landmark built the "The Mendelssohn II," a Built Green Platinum certified, net-zero home—meaning it produces as much energy as it consumes. While giving to a fantastic cause, Landmark dispels misconceptions of unattractive green building because, as anyone who's taken a walk through can see, The Mendelssohn II is completely gorgeous. As its certification suggests, it's also been built to be sustainable: for the environment and the homeowner.

When people look at a home like The Mendelssohn II, they likely won't understand why or how it's sustainable—public awareness just isn't there yet, but thanks to progressive builders, we're getting there. Landmark is brilliant at showing with perfect simplicity how their homes are helping the environment and the homeowner. They call them "silent sellers": decals with concise explanations of how a particular feature is performing. For instance, on Landmark windows, the silent seller sticker says, "Money-Saving Feature: triple-pane windows offer superior insulation and are up to 100 per cent more energy efficient than dual-pane windows." Simple, clear, and it tells customers just what they need to know.

Another decal says, "Money-Saving Feature: heat recovery ventilation transfers heat from stale outgoing air to fresh incoming air while reducing allergens and airborne contaminants." These tips give the consumer insight into what it means for a home to be green built, while promoting the concept itself. This makes way for increased awareness, which means more people start asking for green building—for the environment, but also for their own health and finances. The method of educating consumers on green building doesn't have to be complex—it's far easier to digest if it's not—but it needs to be communicated in a way that consumers can see benefits for all involved, which is what Landmark strives for.

The company says: "Landmark's position for becoming a sustainable builder is not based on emotion, but on sound business principles, economics, and progressive thinking. It's a responsible and conscious decision we've made to benefit everyone, including our own customers, communities, and our planet." Simply put, environmental consciousness is a solid business plan and a responsible move for all involved. Financial sustainability, for stakeholders, employees, and community, is another pillar of sustainability. Without a solid economy, human sustainability is compromised. This is one of the reasons Landmark's green building program of choice, Built

Green Canada, encourages, through the program checklist, the use of local products—to fully engage builders in their local economy, while also reducing emissions required to transport materials from any distance.

Landmark takes its sustainability stewardship a step further to embrace the final pillar: culture. Landmark has taken an active role in supporting organizations such as the Citadel Theatre and Victoria School Foundation—a group focused on supporting Victoria School, an arts-centric educational institute. On the former, Landmark has sponsored the Citadel Theatre since 2006 and is currently supporting its work in audience development to address the needs of existing and potential audiences. Additionally, Landmark sponsors Edmonton Symphony Orchestra, and supports the Edmonton Opera and the Professional Arts Coalition of Edmonton.

As the world's population spikes at an exponential rate, and the repercussions of our collective environmental footprint continually becomes more obvious and threatening, we can choose to support those companies pushing for a societal change towards the sustainable. Consumers *can* choose environmental stewardship when buying their home—and that's the only way we'll see significant change: if consumers levy industry through market demand.

The spectrum of sustainability Landmark has committed to is commendable. They've taken their responsibility to sustainable living further than you're likely to see with

many of their peers. Why? Because as Reza puts it, "If we leave our children a world which cannot sustain itself, then we are not only depriving them of what has been, but also what could have been."

### Bits and pieces of green

Since becoming a Built Green member in 2007, Landmark Group of Builders has built more than 2,650 homes—all to a Built Green gold standard.

Landmark Group of Builders have supported more than 30 non-profit organizations providing support to sectors including arts and culture, sports, healthcare and education.

Staff at Landmark all receive an hour-long sustainability training session as part of their first day orientation, must complete an online sustainability course, as well as come out for the company's annual tree planting day. In the last few years, Landmark has shut down its operations and held a full two-day sustainability workshop for all staff. On the lighter side, staff fully embrace Landmark's commitment to sustainability as evidenced with organized activities including Climate Jeopardy and baking chocolate chip cookies in solar ovens.

*For more information about Built Green Canada, see [www.builtgreencanada.ca](http://www.builtgreencanada.ca).*

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# National Precast Concrete Association (NPCA) gathers for annual convention and awards in Montreal this October

*Canadian Design and Construction Report special feature*

The National Precast Concrete Association's 49th annual convention takes place in Montreal this October at Le Centre Sheraton. The event brings together company owners and top-level managers for association business, executive training and a look into the future.

The association represents the industry in both the U.S. and Canada, with its head office in Carmel, Indiana, near Indianapolis.

In addition to a top-flight educational program, the convention includes the precast marketplace exhibit hall, committee meetings and special networking events. It also includes the chairman's banquet gala event and awards presentations.

Among the awards is the Yoakum Award, named after industry and NPCA pioneer Robert Yoakum. The award reminds future generations of the vision and leadership he displayed in his efforts to create NPCA and has become the most prestigious award and longest-running in the precast concrete industry. It is presented to a member who exemplifies Yokum's vision through long-time service to NPCA and to the precast concrete industry.

The Douglas G. Hoskin Award, named in honour of one of the NPCA's Canadian founders, recognizes the NPCA member who has sponsored the most new members during the previous 12 months.



The association also presents several awards at The Precast Show, an annual spring trade show.

The Creative Use of Precast (CUP) Awards, sponsored by Tricon Precast Ltd., recognizes projects promoting the innovative and cost-saving advantages of precast concrete and is divided into categories for underground and above-ground projects. Judging criteria includes: project innovation, cost benefits and ease of construction.

The Pinnacle Awards, sponsored by Spillman Company, provide NPCA producer members with "a forum to showcase their creative solutions for everyday challenges that occur in the precast plant."

Finally, awards will be presented at the trade show in the categories of safety and sustainability.

At the chairman's banquet, outgoing chair Brent Dezember of StructureCast in Bakersfield, California, will end his one-year term and the culmination of years on the board of directors, executive committee and three years as an officer of NPCA with a speech to attendees. He will also welcome incoming chair Michael Tidwell of Bartow Precast in Cartersville, Georgia.

The NPCA Foundation, created to introduce the features and benefits of precast concrete products and create a more educated specifying community, will hold two fundraising activities including a curling event and a silent auction. Other activities include a downtown tour, a Montreal dining tour, an old Montreal walking tour and a flavours tour.

For more information, visit <http://precast.org/convention>.



# BASF Construction Chemicals

*Canadian Design and Construction Report staff writer*

As part of the world's largest chemical company, BASF's Admixture Systems business has served the construction industry since 1909 with many innovations and industry firsts.

Through its Master Builders Solutions brand, BASF brings new and innovative admixture technology to the precast/prestressed concrete market. This includes ad-

mixtures for self-consolidating concrete, workability and placeability improvements, set control and shrinkage reduction, durability and corrosion control, and production efficiencies.

"Our products optimize material costs for concrete producers, improve constructability for contractors, increase service life for owners and specifiers and reduce the environmental impact for society," he said.

He says innovation is what drives BASF.



Over the years, it has brought to market many innovations, including: the first water reducer, the first accelerator, the first high-range water reducer, the first mid-range water reducer, and the first hydration-control admixture to the market. "In 1997 we introduced SCC (self-consolidating concrete) in 1997, Green Sense Concrete followed in 2008 and we were the first to provide Eco-Efficiency Analysis/Life-Cycle Assessment service to our customers in 2009."



So far in 2014, BASF has introduced the first Crack-Reducing Admixture (CRA) as well as the first freeze/thaw durability admixture that is based on microspheres rather than air-entrainment.

BASF products have been used in many notable projects including the World Trade Center, (transportation hub, both reflection memorial pools, and so far Tower 1 and Tower 2 in NYC); the Perot Museum in Dallas, TX; and the Rock and Roll Hall of Fame in Cleveland, OH.

Membership in and involvement with various associations and institutes keeps BASF in tune with what industry wants and needs. Kruse is personally a member of the board of directors with PCI (Precast/Prestressed Concrete Institute), and a former member of the board of directors of CPCI (Canadian Precast/Prestressed Concrete Institute). He is a Fellow of both organizations, and he is also active with NPCA (National Precast Concrete Association) and ACI (American Concrete Institute).

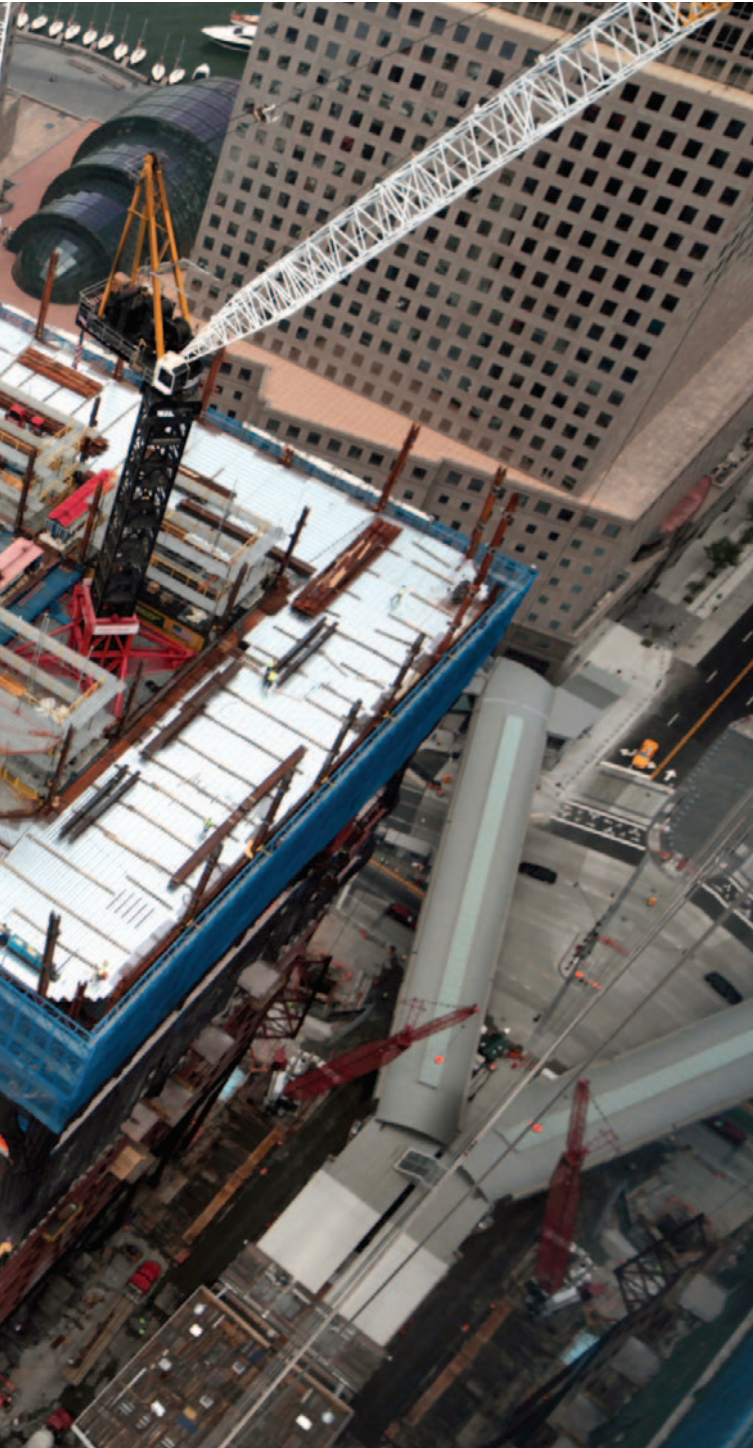
Kruse says the company has also been the first to deliver an Environmental Product Declaration (EPD) service to its customers. "LEED v4 is coming and it's going to make it more difficult for people to provide the detailed information it requires. We take on that work for our clients and can produce EPDs for them within weeks, eliminating that burden from their workload."

Providing LEED reporting is just one way BASF supports the industry. Kruse says the company is a proud founding member of The Sustainability Consortium.

TSC includes more than 90 global members "that work collaboratively to build a scientific foundation that drives innovation to improve consumer product sustainability through transparent methodologies, tools, and strategies to drive a new generation of products and supply networks that address environmental, social, and economic imperatives."

Kruse says BASF is proud to be a key player in the construction industry and is committed to providing continued development and innovation.

For more information on BASF, visit [www.master-builders-solutions.basf.us](http://www.master-builders-solutions.basf.us).





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# \$25.1 million Wood Innovation and Design Centre showcases industry as tallest North American contemporary wood structure

Canadian Design and Construction  
Report special feature

British Columbia's new \$25.1 million Wood Innovation and Design Centre in Prince George will celebrate wood's beauty, showcasing its potential and appeal. It will reach six stories (or 90 ft.), making it the tallest North American contemporary wood structure.

The building has been designed to use the maximum amount of wood possible, including a cedar exterior. One hundred per cent of the primary structure, above the foundation, will be comprised of wood. Locally sourced douglas fir, cedar, pine and spruce will be used in

the engineered wood products including glulam columns and beams, cross-laminated timber and laminated veneer lumber, all manufactured in British Columbia.

The design is also intended to purposely show the innovative structural design, and not cover it up, allowing people to see the wood structure and unique floor slab system as the actual finish. The underside of the cross-laminated timber floor slab system will be exposed wherever possible with the mechanical and electrical infrastructure concealed in the innovative staggered chases within the floor slab.

Houle Electric has been responsible for the complex electrical work required, including data, mechanical controls and security. Prince George branch manager, Greg Mcleod said the company has had about 24 crew members from his branch on site working on various aspects of the project.

"Timelines are always a challenge and in this case, different dampening techniques and encasing procedures are required because of the way wood carries sound. Right now we're working hard to have the building ready for its opening in mid-July."

He says though his company has experience with challenging projects, as the tallest and first of its kind in North America, this project has been unique.

"There are restrictions working with all wood like this because the transformers give off heat," he said. "Where drywall gives a fire rating, wood doesn't so we've had to adjust layouts and ensure 1 ft. clearance compared with the usual 6 in. to allow for this."

The new provincial government building has been funded in part by the Ministry of Jobs, Tourism and Skills Training. It will house demonstration spaces to showcase innovative wood products. The building will also include University of Northern British Columbia (UNBC)'s aca-



demical and research programs including advanced building systems, engineered wood products and interior wood design.

MGA (Michael Green Architecture) designed the building to achieve LEED Gold certification. PCL Constructors Westcoast Inc. is the builder.

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Project Spotlight  
The Wood Innovation & Design Centre

Exterior Rendering - Credit: MGA

Industrial Sector Power Quality 24-Hr Emergency Service

Houle Electric is proud to work with PCL Constructors Westcoast on the complete integrated electrical system installation, that includes building controls, data networks and security systems, for the tallest wooden building in North America, currently under construction in Prince George, BC.

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BEST MANAGED COMPANIES

## First Ontario PPP courthouse heritage renovation completed

### \$250 million Elgin County project designed to achieve LEED Silver standards



The \$250 million Elgin County Courthouse in St. Thomas, Ontario has opened. NORR designed the three-storey building in close collaboration with heritage architects Fournier Gersovitz Moss Drolet et Associés Architectes (FGMDA). EllisDon operated as general contractor for the project. The Infrastructure Ontario public-private partnership project (PPP), the first of its kind for a heritage renovation, includes design, construction, financing and maintenance.

Construction began in June 2011 on the site of the historic Elgin County Courthouse, originally built in 1853. The work consolidated the Superior Court of Justice and Ontario Court of Justice, formerly in separate locations, to modernize the courthouse and provide better accessibility.

The building has eight courtrooms and three conference settlement rooms. A heritage courtroom has been maintained from the original building.

The north and west elevations, dome and copper roof and masonry and sculptural detailing from the original structure have also been conserved and restored.

A modern addition connects the heritage courthouse and a former Land Registry Office which has also been refurbished. The addition adds 135,000 sq. ft. of new space.

David Clusiau, NORR's senior principal, architectural design, says the challenges in maintaining and incorporating the old with the new were numerous but worth the effort.

"We had to insert modern mechanical systems and technology into the heritage building in as invisible and unobtrusive a manner as possible," he said. "We also needed to bring the heritage building up to standard with regard to new security processes and accessibility requirements."

The design also needed to accommodate the different

circulation/access requirements for the public, accused, and judicial officials.

Clusiau said the design team created an addition to enhance the original buildings, supporting and complementing heritage elements, while meeting LEED Silver standards.

He says the design has achieved all of these goals in a way that is interesting and engaging. "Aside from the public atrium at the heart of the new addition and the associated public circulation system that provides views out to the surrounding landscape and adjacent heritage courthouse, one of the interesting elements of the projects is the inclusion of a programme of heritage plaques around the site," he said. "The multiple storey one in the main atrium as well as the display case of historical artifacts that all add another layer of interest onto the already architectural layered site."

The design needed to be flexible, as the project will serve the community for at least three decades. Clusiau says this has been achieved through the addition of two additional courtrooms on the third floor and adaptations to the existing courtrooms.

"We made modifications to the millwork, creating a two-sided crest that can be flipped for use by either the Ontario or Superior Court as needed."

Sight N Sound Design, a design build audio visual consultant, installed the audio visual systems, including evidence presentation, voice enhancement, audio recording, video conferencing, remote testimony facilities, and control systems.

Sight N Sound president Ken Lewis says his company specializes in complex projects. Before this project, they were also involved with the Waterloo Courthouse and the Quinte Courthouse. "One element that is unique to these courthouses is the integration of legacy video and the new digital format into courtroom evidence presentation



system,” he said. “Essentially that means lawyers have the capability to use any known video support material, which supports the ministry’s spirit of providing optimal services for every person’s right to a fair trial.”

All of the systems needed to be tested for consistent quality sound with a 100-hour burn-in phase. “If something is going to fail it will generally happen in the first 70 to 100 hours so we let it settle and then retest to make sure everything is still functioning as it should,” Lewis said.

“Everything we installed is state-of-the-art but each component was designed as the technical solution for a particular situation. Every capability meets a judicial need so it is all very efficient.”

Lewis says in this case the heritage courtroom posed unique challenges. “We had to integrate the same technology into this courtroom but into the existing furniture and walls instead of using purpose-built furniture as in the case of the other courtrooms.”

He says connectivity has been integrated into a newly constructed wall that resembles the original woodwork. The millwork contractor also drilled up and through existing spindles where possible to hide wiring. Lewis says this kind of solution, part of collaboration in which consideration is given to each consultant or subtrade and their particular area of expertise, is the only way such projects succeed.

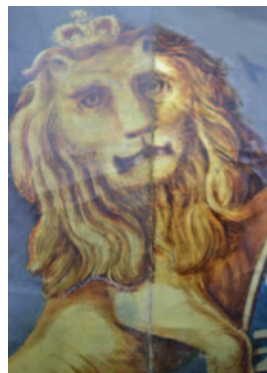
Now that the courthouse has opened Sight N Sound Design’s role changes, but the audio-visual experts will remain on site, reflecting the ongoing commitments in P3 projects. “We’ll do training with all of the staff and more extensive training with key people,” says Lewis. “We will also take on a role of technical support to facilities management. If they don’t know how to do something, need more training or experience a problem, we will be there for the next 30 years to lend our support.”

Lewis says his company has learned a lot about the judicial process and system through their work on these courthouse projects spanning more than a quarter of a century. Sight N Sound continues to observe the needs and changes that occur over time, will take away lessons learned, and gain an even greater understanding of this kind of project.

Clusiau says this is first heritage renovation and addition courthouse delivered through the Infrastructure Ontario PPP process.

“This process has been used primarily for new buildings and is the primary funding mechanism for such large projects. It is a significant milestone that this project was able to be successfully delivered through this method and hopefully will encourage other projects of this type that retain valuable components of Ontario’s built heritage.”

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*Art Conservation Services Inc.  
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Above: detail of the coat of arms for the main courtroom during treatment.

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## **Building code changes: Overcoming confusion and misinformation**

*Canadian Design and Construction Report special feature*

Heading into its twentieth year presenting the Win.door Show, Fenestration Canada continues to support the nation's window and door manufacturing industry both behind the scenes and publicly.

President Skip MacLean says the changing building code is the industry's biggest issue. There is much confusion and misinformation.

"Fenestration Canada has a clear understanding of the code and where it originates from," he said. "Unfortunately there are still grey areas when it comes to interpretation by authorities having jurisdiction. We are working with NRC (National Research Council) to improve the language in the code to clarify these grey areas."

MacLean says the steepest path to compliance will involve entry doors. Despite the fact they are usually opened and closed more than windows, they number fewer than windows, and that means they receive less attention and fewer demands, so manufacturers and suppliers are further behind.

While a few companies are progressive and are producing products well beyond the code requirements, he says these are the exception and that most companies are far more reactive.

Building code enhancements have a theoretically positive impact, in that the regulations can help combat the underground market and create a more level playing field for the housing industry. However, MacLean says there are also challenges. "Even now we're seeing fabricators without the means to test their product who have to look to others to provide them with finished product."

MacLean says this could lead to the loss of the entrepreneurial design and development spirit, with fabrication taking place through fewer, larger sources.

He is pleased though that through proper labeling, documentation and testing results, Fenestration Canada member fabricators will continue to provide quality products to consumers along with better information to help them deal with any issues that may arise.

Fenestration Canada has created powerful web tools including a simple NAFS (North American Fenestration



Standard) requirement calculator and has made it available to members, architects, consumers and other stakeholders. "Users just select a city, enter the information and get a document with the performance level that needs to be met," says MacLean. "It is very transparent and can be printed and attached to a quote to ensure specifications are met."

MacLean offers kudos to the association's technical committee for implementing this and other tools and also to its membership and marketing committees which are meeting regularly to attract new members and work collaboratively with sister associations.

"All of the committees are more engaged and as a whole we're looking to more national co-operation, more opportunities to share assets and information and to get a look at the bigger picture."

Fenestration Canada has created a Fabricators' Council to act as a stronger voice for fabricators within the association and has joined the Canadian Energy Efficiency Alliance. Together the alliance will correlate issues and initiatives with a better understanding of their industry impact.

MacLean says it is important as an association to be on the forefront of change to provide members information ahead of time, rather than having change push the industry along. "There is a lot more going on now than at any point in the last 10 years," he says. "With the U.S. economy energizing we're at a critical tipping point. Canada makes a better window, our products are held to a higher standard; we just need to be ready to take advantage of the opportunities as they arise."

With the exception of one staff member, Fenestration Canada is wholly run by volunteers. "The amount of time and work expended by volunteers to improve our industry is remarkable," MacLean says.

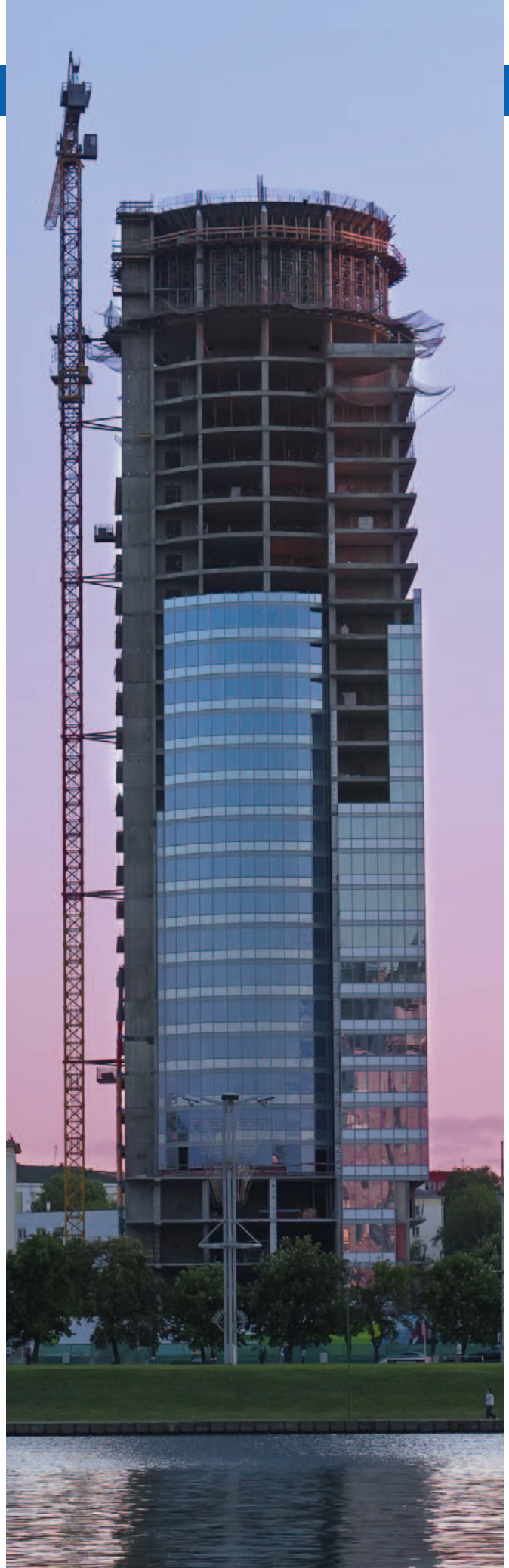
## **20 Years of Win.door**

November's Fenestration Canada-owned Win.door Show will mark the event's twentieth anniversary

"Win.door is by far the most recognizable value in the industry," he said. "The cost to exhibit, the value of the educational component and the displays, cannot be beat."

MacLean says the show and conference is well worth attending, for its sell-out education events, new products showcase and special events.

"There are so many activities, from social to business, special guests, great seminars and a lot of good debates. This year we'll find a special way to celebrate our 20<sup>th</sup> anniversary and make the event even more memorable."



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# Quanex Building Products



Since its founding in 1927, Quanex Building Products has grown and evolved through a series of strategic acquisitions. Today, the company is a leading supplier of energy-efficient window and door profiles, window and door screens and insulating glass spacers, including the field-proven Super Spacer® TriSeal™ structural silicone warm edge spacer, which was designed specifically to meet architectural needs, improve fabricator efficiency and contribute to a superior building envelope.

Joe Erb, commercial sales specialist, says the company has witnessed a global need for high-performance framing materials and insulating glass from Quanex. "Canada was one of our earliest markets for these products because of the cold climate. But, even in the warm and hot climate markets, customers are seeing the sustainable advantages of non-metallic framing and insulating glass spacer technologies," he said.

According to Erb, fabricators are investing in their businesses and adopting more efficient technologies to improve not only their products, but also their processes. "We are seeing a significant uptick in the number of major fabricators upgrading to full automation with Super Spacer. It is designed for just-in-time manufacturing, requires fewer steps and fewer people, allowing companies to operate more efficiently without sacrificing performance and quality."

The automated approach also serves the architectural community and end user well.

"Because the product is robotically applied, it is more accurate, providing crisp, clean sight lines with reduced error," Erb said. "This benefit is even more evident in larger glazing applications where spacer placement accuracy is critical to ensuring the aesthetic the architect demands. The fabricator also benefits because automation increases

output and accuracy on the larger glass lites. The net result: a cost-effective, high-performance solution."

With building codes constantly changing and evolving Erb says fabricators who are coming on board with this technology now and those who did so years ago, have positioned themselves far ahead of the curve in meeting demands.

"Super Spacer has been on the market for 25 years with demonstrated performance architects can trust even in large-scale applications, including structurally glazed high-rises," Erb said.

Quanex uses third-party testing and applies standard test methods across the globe to ensure its products meet international demands.

"Adding non-metallic and composite framing profiles help fabricators stay well ahead of the game in terms of energy efficiency, while providing the long-term performance end users desire.

When you have a good frame, the right glass, a good seal and it's all properly installed, there is great benefit to the end user and to the environment," Erb said. "It's about a whole building design approach."

Quanex's Super Spacer TriSeal is a flexible, structural silicone spacer designed to address the design professional and fabricator's need for aesthetics, thermal performance, structural strength, enhanced durability and the manufacturing efficiency to keep their projects on budget. With its unique triple-seal design, Super Spacer TriSeal incorporates an inner acrylic adhesive seal for immediate unit handling and comes complete with a polyisobutylene primary seal for enhanced gas retention and low moisture vapor transmission.

Learn more about Quanex's offerings for the commercial market at [www.Quanex.com/Architect](http://www.Quanex.com/Architect).

## REHAU commercial uPVC window and door designs enhance thermal performance with style and colour options

*Special to the Canadian Design and Construction Report*

REHAU is helping Canadian window and door manufacturers to improve thermal performance and respond to a growing demand for colour options.

As a leading provider of polymer-based solutions in construction, automotive and industry, the company has combined strong development capabilities with decentralized sales and service excellence to become one of the top global providers of uPVC window and door designs.

Helmut Grohschaedl, director of REHAU's window and door business unit, says the U.S. market experienced a strong year in 2013, with double-digit growth, through a focus on commercial projects. He is anticipating a similar development in Canada this year.

"The commercial window and door segment has been dominated by aluminum, but with higher code requirements and the demand for better thermal performance, Canadian manufacturers still have work to do to

offer products that are environmentally friendly, save money and create energy savings," he said.

To encourage growth of uPVC in the commercial market, in 2013, REHAU launched a certified commercial manufacturer program. The program provides additional support and benefits.

REHAU has had a lot of success in the U.S. through continuing education programs such as an AIA (American Institute of Architects) initiative, showcasing features and benefits of uPVC versus aluminum windows and doors, while addressing designers' specific needs. "That's what we're working to get Canadian manufacturers into more – what does the architect need?"

Grohschaedl further explains that colour is a big topic, so REHAU has placed emphasis on a new stock program to react to the demand. "The ability to provide colour profiles is part of what leads to success in the commercial market. Providing options like silver exterior, wood grain interior and bronze on either side helps architects envision using these kinds of products," explains Grohschaedl.

Another trend is toward passive homes. Grohschaedl says while the west coast from B.C. to California has been pioneering the market, he has seen projects popping up elsewhere as well. To meet the trend, REHAU has introduced its GENEO product, which is passive house certified in both Europe and the U.S.

Performance demands go beyond passive homes to basic lifecycle. "At the start of a project, it is important to sit with the architect and engineer to discuss how windows fit into the envelope, to calculate the energy consumption looking at windows and HVAC and to see how all the pieces fit."

Grohschaedl says REHAU has had products installed in the field for more than 50 years, so he has confidence in their durability and performance. He adds that vinyl stacks up very favourably against wood and particularly aluminum in terms of footprint.

REHAU continually updates its products' performance and styling. The company's current focus is on its System 2200 Patio Door, introduced last year, and on a contemporary upgrade of its casement system due out later this year. "The upgraded casement will feature flat lines and surfaces for the modern look architects want," he says. And what comes after? "Still much more," Grohschaedl says.

For more information, visit [www.na.rehau.com/commercialwd](http://www.na.rehau.com/commercialwd).



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# Polysulphide enhances insulated glass windows: FENZI NORTH AMERICA

*Canadian Design and Construction Report special feature*

Fenzi North America is keeping ahead of higher energy efficiency expectations in window and door components by advocating the use of polysulphide and polyurethane in insulated glass (IG) windows.

The global company headquartered in Italy, with a Toronto office to oversee North American operations, provides sealants, aluminum and warmedge steel spacers and desiccants for the flat glass processing industry.

General manager David Devenish says there is a lot of talk in the industry about energy-efficient windows and the growing trend for energy ratings and gas retention. "Five years ago there were no requirements for this," he said. "Now there are requirements for the initial concentration and an after cycling requirement. Once new changes are put into place over the next few years, Fenzi will be in an enhanced market position because the systems we use already support and meet those requirements."

CONTINUED ON PAGE 42



## RUNNING LOW ON GAS?

Polysulfide has the highest argon retention rate\*

\*Among Two Part Insulating Glass Sealants



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NORTH AMERICA

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This is an AIA course and is absolutely free and offered on an online platform making it easier for professionals to get their learning units at their own pace.

For more information visit  
[www.fenzi-na.com/  
architects-education.html](http://www.fenzi-na.com/architects-education.html)

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# Fenestratio: Flexible software solution

*Canadian Design and Construction Report special feature*

Fenestratio is a flexible software service for window and door manufacturers and retailers. Addressing all of the industry's business needs from sales appointments to manufacturing paperwork, purchase orders, service tracking, inventory and accounting entries, the product promises to "make windows easier."

Company founder Joe Clarke started development of the system while working as a window salesman with a past in the software industry.

He says Fenestratio is designed to handle any number of product lines without the need for custom programming and can be integrated or extended into other areas of a customer's enterprise. "This means faster cheaper startup for our customers, the ability to quote all of their products together, and the ability to try new suppliers or deactivate old ones in the future without software modifications."

Clarke says many of his clients are small to medium sized manufacturers and retailers whose owners are active in the business and want to make their lives easier by putting their knowledge into rules that can be applied to the work they delegate to others.

Another key delegation and information-sharing tool provided is the branch calendar that allows all system users work with the scheduled sales appointments, service calls, deliveries and installations for the branches they are authorized to.

Clarke says Fenestratio supports his customer's business growth and evolution because "there is no limit to the devices or users you can register with the product. We even let our customers give self-serve quoting access to their customers. All upgrades to the service are included, forever."

The product's benefits list includes loading product lines without requiring custom programming; coordinat-

ing sales calls, service, installation, re-measures and deliveries for multiple branches; communicating with customers and suppliers with easy email integration; and saving money and headaches through shared online software.

Clarke says he is determined to ensure the product's focus remains on quickly producing accurate, attractive quotes, and passing that quality information seamlessly to the downstream processes including order management, manufacturing, purchasing and NAFS-08 compliant labelling.

Charges are based on the users' annual sales. Testing and demonstration opportunities are available.

For more information, visit [www.fenestratio.com](http://www.fenestratio.com).

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Fenzi — CONTINUED FROM PAGE 41

Fenzi believes that insulated glass (IG) windows can be enhanced with polysulphide and or polyurethane. "It is widely known and agreed upon by industry experts, that window insulated glass units made with two-part polysulphide and or polyurethane retain argon gas at a higher rate than silicone sealant made IG's," says Devenish.

"Fenzi, through AEC Daily has created an AIA accredited continuing education course to better teach the function of sealants in insulated glass and the long term advantages. Thus far we have had upwards of 400 architects and interested parties throughout the U.S. and Canada take the course, which is exciting from our perspective."

This course can be viewed at [www.fenzi-na.com/architects-education.html](http://www.fenzi-na.com/architects-education.html).

The online course gives an overview of characteristics of insulating glass sealants and the importance of long-term thermal performance, structural durability and longevity of insulating glass units. The advantages to using a polysulphide sealant versus a silicone sealant in insulated glass requirements will show these energy savings with better long-term gas retention.

"The city of San Francisco recently introduced a program for building owners to monitor their energy usage over a five year period," says Devenish. "Doing so, the window efficiency will be at the forefront – and argon gas retention will have a strong impact for maintaining efficient windows. I think you are starting to see all these buildings (with LEED status) monitored and the building owners want assurances they perform as specified."

For more information about Fenzi, visit [fenzi-na.com](http://fenzi-na.com).

## Fenestratio.com



**Software for  
manufacturers  
and retailers.**

\* NAFS-08 labelling

*make windows easier*

## Fenestration Canada holds annual meeting in Winnipeg



*Canadian Design and Construction*  
Report staff writer

Fenestration Canada held its annual general meeting June 12 to 14 in Winnipeg.

Described as a 'crossroads of culture, commerce and tourism,' in part because the city has one of the largest French-speaking communities outside Quebec, Winnipeg is also home to a large number of window and door manufacturers.

The event program included business sessions and technical updates. The President's Reception and Supplier's Showcase provided registrants the opportunity to display their products before the dinner.

A presentation on NAFS-08 reviewed code related case studies for interpretation, education and clarification. It also demonstrated how members can work with Fenestration Canada to resolve issues.

"The National Energy Code for

Buildings was published in 2011; British Columbia will be the first province to implement this code," a Fenestration Canada news release reports. "Ontario has had its own energy code, SB10, for building in place for several years now. While these codes apply to commercial fenestration products they will also apply to residential products being used in part five buildings where these codes apply. This presentation will review the National and Ontario codes and look at how they impact all fenestration manufacturers."

There were opportunities to network and socialize. From an opening evening at Fort Gibraltar to a companion program featuring a World War II Spy and Hermetic Code Tour as well as the opportunity to participate in the Fenestration Manitoba Golf Tournament, guests had the chance to meet with old and new friends.

For more information, visit [fenestrationcanada.ca](http://fenestrationcanada.ca).



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# WOMEN IN CONSTRUCTION



## Renée Auer and Wendy McNeil

# Women of the Greater Vancouver Home Builders' Association

*Canadian Design and Construction*  
Report staff writer

The Greater Vancouver Home Builders' Association (GVHBA) has grown since 1974 to be the largest local association in B.C. Renée Auer and Wendy McNeil are members of the dynamic team, delivering services and providing support to more than 700 association members.

As director of membership and sales, Auer uses her marketing background, business skills and relationship building abilities to attract members to the association and then ensures they remain as satisfied members for the value and attention they receive.

"I've been with the association 12 years, starting as member development co-ordinator," Auer said. "Over the years I evolved the position, added responsibilities that met with my interests, such as on the IT side."

When she applied for the position, Auer says she had all the skills it required, except industry experience. "I believe there isn't anything you can't learn if you want to. Those first six months I was producing but also learning as much as I could and I continue to learn today."

McNeil started her career with the association in 2001. She applied her education in psychology and marketing management but also lacked specific industry experience.

"I started as co-ordinator of special projects and membership and evolved and changed my role with time," McNeil said. "I have always found people both within the association and in the industry to be helpful and respectful. People want

you to succeed in your role because that helps them succeed. You also need a passion for learning, especially if you are unfamiliar with the industry."

Auer says the ability to network, taking ownership of her role and responsibilities and the ability to work as part of a small team – doing whatever needs to be done and working as part of a team – has been important.

McNeil says adaptability, accessibility and problem solving skills are also important.

The GVHBA is always working to provide added value to members, which requires flexibility and creative thinking. Auer has noticed for instance a lot of flux in membership with older members passing along family businesses to next generations. "The new business owners often have a lot of new ideas but may not have experience on the business side."

To meet the demands, the association develops short workshops and seminars throughout the year to teach basic business skills including estimating and people management skills, designed to meet the time constraints and immediate educational needs of business owners.

Auer says she thoroughly loves her job and the value she brings to members. "There is only one other home builders' association in Canada that has a dedicated membership person on staff. The value this position brings to members – having someone focused solely on them – is both rewarding and important."



Renée Auer



Wendy McNeil

Continued on page 47

## Summer Green

# Problem-solving skills vital in leading RemovAll asbestos remediation business



*Canadian Design and Construction Report special feature*

Summer Green started her business career just out of high school and by age 21 owned her own business. She has taken her desire for efficiency and problem-solving to her current role as co-founder of RemovAll Remediation Ltd. in Victoria.

"I never really thought about owning my own business in the beginning," Green says. "I just had the kind of work ethic that was always trying to find the most efficient way to get things done."

She says encouragement from past employers and acknowledgement of her skills motivated her to strive to succeed.

Over the years, she worked in a variety of management roles and then she and her husband, Dave Robinson, decided to go out on their own. With his background in remediation and abatement and her problem-solving skills, she says they found a good formula.

Green says Dave is company's face and she is the voice. "This has been working great for us because we are very quick to respond to peoples' needs with sincere concerns for the issues at hand."

The company's website explains further, noting: "Dave has the knowledge and skill to deal with potentially hazardous situations in a calm and professional manner. Summer has the business and management skills to coordinate the team and ensure prompt customer service and support."

"Problem solving is what I enjoy the most and with Removall the problem is asbestos. Every job presents a different challenge," she says.

She says her days can range from an emotional call from a mother concerned about asbestos in a child's bedroom to dealing with old school contractors or homeowners who "have been dealing with asbestos for years and they feel this whole industry is a farce. My challenge is to deal with each problem and find the best possible solution at the best possible price."

Green says most of the roles she has held over the years have been in male-dominated fields but she has never felt hindered as a woman. "My personal challenge has been to consistently provide excellent service and continue to learn everything

*Continued on page 47*

## Summer Green

about my trade so that I am a benefit to those who call on me.”

She says being a woman, having confidence and being extremely organized have always been more of an advantage than anything and she would encourage women to consider being business owners.

“Being a business owner and working for yourself not only brings endless possibilities but you are also responsible for your own success or failure. Take all of the job experiences that you collect throughout your working life and never stop thinking about a way to create your own business.”

RemovAll has grown to nine employees and continues to expand. Green says customer service is the most important part of the work. “Looking presentable, keeping the work areas neat and listening to the customers. I believe that this piece alone is what stands out with our company.”

For more information, visit [www.removall.ca](http://www.removall.ca).

## Renée Auer and Wendy McNeil

Auer says as part of a small team her role is to be an expert – not at everything because she has the support of team members who may know more about specific areas than she does – but in understanding people and helping them market their business. “Success in this industry is all about putting the right person in the right job, be that a man or a woman.”

McNeil says anyone looking for a dynamic and fulfilling career path should consider construction. “There are ups and downs as with any industry but with construction, you’re helping shape cities. It’s exciting, progressive, and there are many opportunities if you have a willingness to work and learn.”

Women need to realize their worth and look at careers, not just jobs, and have to take experience from everything they do, Auer says. “Everything you do in life, every job, every experience, gives you an opportunity to build skills and experience that one day will culminate in something that brings all of that history together.”

McNeil says it is important for women to be confident in their skills and potential. “Gender shouldn’t dictate what you do. We meet a lot of women in positions of power and influence who invested their time, passion and talent to build the careers they wanted. It’s encouraging to see so many women of all ages and backgrounds in this industry.”

She says it is important for women, and parents, to recognize construction trades’ long-term career potential, including management development and business ownership.

Auer also sits on the board of Canadian Construction Women (CCW), working to empower women in the industry.

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## **Kim Larson leads All Elements Design.Manage.Build in Kelowna, B.C. with her passion to transform dreams into bricks and mortar**



*Canadian Design and Construction Report special feature*

Kim Larson's passion to transform dreams into bricks and mortar attracted her to an architectural career, then owning her own construction company. She now directs All Elements Design.Manage.Build in Kelowna, B.C.

Larson's interest in design and construction reached back to her childhood. She began working in local design firms at the age of 14. She completed her architectural technology degree at the University of California, also achieving an AutoCAD Technology certificate and an interior design minor.

She says despite the fact women often have the skills required for design – creativity and attention to detail – there were few women among her colleagues. “When I was in school there were only three women in my program,” she said. “Once I hit the workforce, I saw very few in the field.”

She says she felt early on she had to prove herself in the industry and a few comments fueled her desire to do exactly that. “One instructor told me it was hard for women to succeed in the industry and there was a contractor who told me I was just a girl so didn’t know what I was talking about.”

She has proven her knowledge and skill.

Larson worked in California, Vancouver and Australia before returning to the Okanagan Valley. Here she pursued her dream of starting her own luxury residential construction company and All Elements was born.

“I love the entire realm of building. That, and the understanding things could be done differently is the reason for the company.”

Larson has sought to eliminate the difficulties associated with custom home design, including ineffective communication between architects and construction companies and inefficient relationships within the design, construction and client triangle.

She says in the early days the company consisted of herself, her colleague Stephan Ams and one tradesman. To get things done, Larson worked hands-on, doing what needed to be done. Now, the company is larger, employing between eight and 18. However, she remains in close contact with individual projects and clients.





"Instead of driving to sites we are working on, we set up a site trailer so we're there all day, every day," she said. "That's how mistakes are avoided; by having owners on the ground with every project."

Larson says some other contractor/owners visit their construction sites on a semi-weekly basis, leaving the work to subtrades and suppliers. She says that results in reactive problem solving instead of proactive solutions.

The company also completes framing and foundation work in-house to ensure quality.

Larson says she believes in establishing relationships that stand the test of time. She says she gets involved with and attached to clients. "Relationship building extends to trades and suppliers as well," she says. "We have people we've worked with for years who would go out of their way to help us because we treat them with respect and know them as people. These people also know what I expect so our customer benefits with a better end product."

She says getting to know tradesmen and learning from their expertise has made her a better designer, builder and owner because she understands home building at the design, engineering and finishing stages.

"All aspects of this field are a bit of an obsession for me, from real estate investment, architecture and construction. I love designing and building a dream home from scratch and the look on the home owner's face when they see their dream become reality."

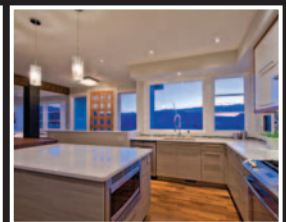
Larson speaks to architecture classes twice a year through the Kelowna Centre for Arts and Technology. She says there are many more women there than when she was a student 14 years ago.

"I am thrilled to see more women getting involved in the industry. They are about to embark on the most exciting ride they have ever been on."

For more information, visit [allelements.ca](http://allelements.ca).



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# Lori Gobert, Murphy Construction, Pemberton, BC

## Encouraging others to consider construction careers

*Canadian Design and Construction Report special feature*

Lori Gobert has applied her administrative and accounting background towards a construction industry career. She is now general manager with Murphy Construction of Pemberton, B.C.

"I started working with Murphy as a contract bookkeeper when it was just a staff of five," says Gobert.

She later sold her bookkeeping business and joined the company full-time, progressing from office administrator and project co-ordinator to operations manager before becoming general manager.

"The owner of Murphy has always been very supportive of continuing education and of me developing my career," Gobert said. "I've taken courses through the CHBA (Canadian Home Builders' Association) and the PMI (Project Management Institute) to acquire the skills and knowledge I need."








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Gobert says she has never been discouraged by anyone she works with or she has come across in her work. She has seen a few questioning glances but these quickly disappear. "Whether it's construction or something else business is business and knowledge and skill aren't gender related."

Her networking opportunities have been limited in the small community in B.C.'s Sea to Sky Region from Horseshoe Bay through Whistler to the Pemberton Valley. However, she says she has found support through a local association for women in business. Working with successful female entrepreneurs and business women gives her the opportunity to share ideas, solve problems and connect with peers.

She says that small-community environment means work and personal life often intertwine. She says she is fortunate to enjoy the people she works with and for and looks forward to the challenges and successes they share.

Gobert appreciates the continually changing and evolving construction industry and encourages young people, male and female, to consider careers in the industry both on the trades and management side. "When people think about a career in construction the conversation shouldn't be why would they consider it but why not," she says.

## Women in the Concrete Restoration Industry

# Andrea Finlayson discovers opportunities, challenges in the field at Davroc Consulting Engineers

*Canadian Design and Construction Report special feature*

Andrea Finlayson has achieved success as a project manager with Davroc Consulting Engineers by balancing her creativity, problem solving ability, and desire not to be behind a desk.



“When I was in high school I knew I was good at math and physics, but considered architecture for its design and artistic side,” she said. “Engineering kept popping up on career testing but I really had no idea what the field was all about.”

Finlayson says she researched and discovered she liked the profession's technical and problem-solving challenges. However, she did not really fully appreciate the career until she took her first co-op civil engineering semester. Growing up in a rural community, she also had the opportunity to work under the county's civil engineer, who she says provided invaluable insight and experience.

She learned she needed to gain confidence. “One of my co-op reports noted I came off as timid and suggested I would have a hard time working on site,” she said.

She says that confidence came with time and knowledge. Some site crews still make her work for their respect. “Some sites you arrive on and you just know it's going to be a rough start. All you can do is show up every day, do your job, demonstrate you know what you're talking about, and eventually they get it.”

Despite the challenges of being on site, Finlayson knows that is exactly where she wants to be. She said she never wanted a career behind a desk, preferring instead to see things being built. The site-based insights help with her own design process and technical understanding.

She says the uneven distribution of men and women within the industry begins to feel normal after awhile, but on occasion she notices the imbalance. “This was driven home to me at an industry event when the speaker got up and said ‘welcome lady and gentlemen.’ I looked around and realized I was the only woman in the room.”

She says the opportunity to work with other women in her office and female clients is sometimes a welcome experience. “Women often think differently, have a dif-

ferent approach, or focus on different aspects,” she said. “Having a woman at the table can provide a balance to the process and outcome.”

Finlayson says she would recommend an engineering career to women and encourages them to research the profession's opportunities.

For more information about Davroc visit [davroc.com](http://davroc.com).



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## Dodge upcoming project reports

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### ALBERTA

\*RFP/CM: Foothills Composite High School 2014003  
200900687020 v7  
\* **First issue bid stage IND: Y.** (2014003)  
\* **Action stage:** \*GC Bidding, Design Development  
229 Woodhaven Dr  
Okotoks, AB (DIVISION 06)  
T1S 2A7 CAN  
\* **Bid date:** 05/29/2014 @ 02:00 PM MDT  
\* **Valuation:** \$ 22,000,000  
\* **Project delivery system:** \*Construction Management at Risk  
**Owner class:** State  
Project type: Middle/Senior High School.  
Report type: Project  
Sub project count: 0  
First publish date: 10/21/2009  
Prior publish date: 10/24/2012  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: Alterations  
Status: Owner requests Proposals from Construction Management Firms by May 29 at 2:00 PM (MDT)  
Status project delivery system: Construction Management at Risk  
Publish date: 05/14/2014  
Submit bids to: Owner (Public)  
Architect: **Foothills School Division No 38**, Andrew Chipman (Ass't Superintendent), 120 5th Avenue West PO Box 5700 HIGH RIVER, AB T1V 1B9 (CAN) , Phone:403-652-6528, Fax:403-652-4719, E-mail:ChipmanD@fsd38.ab.ca, URL:http://www.fsd38.ab.ca/  
Consultant: **Alberta Purchasing Connection**, P.O. Box 1333 EDMONTON, AB T5J 2N2 (CAN) , Phone:780-644-5726, E-mail:apc.help@gov.ab.ca, URL:https://vendor.purchasingconnection.ca  
Owner (Public): **Foothills School Division No 38**, Andrew Chipman (Ass't Superintendent), 120 5th Avenue West PO Box 5700 HIGH RIVER, AB T1V 1B9 (CAN) , Phone:403-652-6528, Fax:403-652-4719, E-mail:ChipmanD@fsd38.ab.ca, URL:http://www.fsd38.ab.ca/  
Notes: DEWB82 - Pre-proposal meeting and site visit May 20 at 1:00 PM (MDT) at the Cafeteria area, Foothills Composite High School, 229 Woodhaven Drive, Okotoks - AB - Source requests all bid documents be obtained through their channels only - Documents for this project will not appear in the McGraw-Hill Construction Network  
\*Plans available from: \*Owner (Public)  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
Additional features: The project is to fully modernize Foothills Composite High School. The intent is to include in the project scope necessary upgrading of mechanical and electrical systems, as well as roofing, flooring, windows and other major building components. Expansion of the building outside of its existing footprint is not currently contemplated, however interior spaces may be extensively renovated and repurposed  
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\*RFQ/GC: CFB/ASU Wainwright (IQC) (RE-BID) 293525  
201300421340 v2  
\* **First issue bid stage IND: Y.** (293525)  
\* **Action stage:** \*GC Bidding, Construction Documents  
\* \*CFB/ASU Wainwright  
DENWOOD, AB (DIVISION 07)  
\* TOB 1B0 CAN  
\* **Bid date:** 05/01/2014 @ 02:00 PM MDT  
**Valuation:** \$ 1,500,000  
\* **Project delivery system:** Design-Bid-Build  
\* **Target start date:** \*06/01/2014  
**Owner class:** Military  
Project type: Military Facility.  
Report type: Project  
Sub project count: 0  
First publish date: 01/29/2013  
Prior publish date: 01/29/2013  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: Additions, Alterations, New Project  
Status: Owner requests new Pre-qualifications from General Contractors by May 1 at 2:00 PM (MDT)  
Status project delivery system: Design-Bid-Build  
Publish date: 04/18/2014  
Submit bids to: Owner (Public)  
Architect: **DCC Defence Construction Canada - CFB Wainwright**, Yvonne Zimmer-Loeffler (Tender Contact), Building 188 400 Buffalo Road Wainwright, AB TOB 1B0 (CAN) , Phone:780-842-1363, Fax:780-842-1880, E-mail:Yvonne.Zimmer-Loeffler@dcc-cdc.gc.ca  
Consultant: **MERX**, Customer Support 38 Antares Drive Ottawa, ON K2E 7V2 (CAN) , Phone:613-727-4900, Fax:888-235-5800, E-mail:merx@merx.com, URL:http://www.merx.com  
Bidders must be registered with MERX to order documents and submit a bid. MERX is the sole source for documents. Register at www.merx.com.  
Owner (Public): **DCC Defence Construction Canada - CFB Wainwright**, Yvonne Zimmer-Loeffler (Tender Contact), Building 188 400 Buffalo Road Wainwright, AB TOB 1B0 (CAN) , Phone:780-842-1363, Fax:780-842-1880, E-mail:Yvonne.Zimmer-Loeffler@dcc-cdc.gc.ca  
Notes: DEWB50 DEFENCE CONSTRUCTION CANADA (DCC) #WR12SL01 - Firms that have already been qualified for this source list ARE NOT REQUIRED to reapply at this time.  
\*Plans available from: \*Consultant  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
Additional features: Defence Construction Canada is calling for Request for Qualifications from local contractors to become pre-qualified to be on a Source list for Quick Response Tenders (QRT) / Urgent Response Tenders (URT) for work required by the Department of National Defence, at CFB/ASU Wainwright, Alberta for a period of one (1) year from the date of the notification of award with two (2) optional one (1) year extensions  
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Integrated Process Transfer Facility - RDF Maintenance Shop 926226  
201400413494 v7  
(926226)  
\* **Action stage:** \*Construction Documents  
13111 Meridian Street NE, Site #100 EDMONTON, AB (DIVISION 11)  
T6T 1J1 CAN  
**Bid date:**  
**Valuation:** \*G (Est. \$750K - \$999K)  
\* **Project delivery system:** Design-Bid-Build  
\* **Target start date:** \*07/01/2014  
**Owner class:** Local Government  
Project type: Office. Dry Waste Treatment Plant.  
Report type: Project  
Sub project count: 0  
First publish date: 01/22/2014  
Prior publish date: 02/18/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: Alterations  
Status: Solicitation cancelled - New bid date undetermined - Awaiting Owner decision to proceed  
Status project delivery system: Design-Bid-Build  
Publish date: 04/28/2014  
Submit bids to: Owner (Public)  
Architect: **City of Edmonton**, Lavonne Drynan (Senior Mat. Mgmt), 3rd Floor, City Hall 1 Sir Winston Churchill Square EDMONTON, AB T5J 2R7 (CAN) , Phone:780-496-8897, Fax:780-496-5015, E-mail:lavonne.drynan@edmonton.ca, URL:http://www.edmonton.ca/business\_economy/selling\_to  
Consultant: **Alberta Purchasing Connection**, P.O. Box 1333 EDMONTON, AB T5J 2N2 (CAN) , Phone:780-644-5726, E-mail:apc.help@gov.ab.ca, URL:https://vendor.purchasingconnection.ca  
Owner (Public): **City of Edmonton**, Lavonne Drynan (Senior Mat. Mgmt), 3rd Floor, City Hall 1 Sir Winston Churchill Square EDMONTON, AB T5J 2R7 (CAN) , Phone:780-496-8897, Fax:780-496-5015, E-mail:lavonne.drynan@edmonton.ca, URL:http://www.edmonton.ca/business\_economy/selling\_to  
Notes: DEWB49  
Bonds: 10% Bid Bond. 50% Performance Bond.  
Plans available from: Owner (Public)  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
Additional features: The Work under this Contract is for the provision of all labour, materials and equipment required for Provision of complete maintenance shop within the existing Integrated Processing and Transfer Facility (IPTF). The maintenance shop will include: a general workshop area to accommodate various power tools and welding equipment, a storage area and an office. Supply and installation of all required maintenance shop components including shop structure, HVAC, utilities, electrical and lighting, mechanical and other building systems in accordance with City of Edmonton Design & Construction Standards Current Edition and Tender Documents including Specifications/Drawing(s).  
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Camrose Regional Landfill - Waste Cell 19 Expansion 1000092  
201400478253 v2  
(1000092)  
\* **Action stage:** \*Construction Documents  
site not specified  
CAMROSE, AB (DIVISION 10)  
CAN  
**Bid date:**  
**Valuation:** \*F (Est. \$500K - \$749K)  
**Target bid date:** 07/01/2014  
**Project delivery system:** Design-Bid-Build  
**Target complete date:** 07/01/2014  
**Owner class:** Local Government  
Project type: Paving. Site Development. Storm Sewer.  
Report type: Project  
Sub project count: 0  
First publish date: 03/28/2014  
Prior publish date: 03/28/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: Alterations  
Status: Bid date cancelled - New bid date undetermined - Awaiting Owner decision to proceed  
Status project delivery system: Design-Bid-Build  
Publish date: 04/15/2014  
Submit bids to: Owner (Public)  
Consultant: **Alberta Purchasing Connection**, P.O. Box 1333 EDMONTON, AB T5J 2N2 (CAN) , Phone:780-644-5726, E-mail:apc.help@gov.ab.ca, URL:https://vendor.purchasingconnection.ca  
Engineer: **MMM Group Ltd. (formerly Bel-MK Engineering Ltd)**, Alan Perrott (P. Eng), 10576 - 113 Street NW Suite 200 Edmonton, AB T5H 3H5 (CAN) , Phone:780-423-4123, Fax:780-426-0659, E-mail:PerrottA@mmm.ca, URL:http://www.mmm.ca  
Owner (Public): **City of Camrose**, Mark Barret (Dir of Engineering), 5204 50 Avenue Camrose, AB T4V-0S8 (CAN) , Phone:780-672-4428, Fax:780-672-6316, E-mail:mbarrett@camrose.ca, URL:www.camrose.com  
Notes: DEWB86  
Bonds: 10% Bid Bond. 50% Performance Bond.  
Plans available from: Owner (Public)  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
Additional features: 1,600 m3 topsoil stripping and 1,150m3 of subsoil stripping - 18,000 m3 common excavation - Construction of approximately 8,000 m3 of compacted clay liner, 650m3 of compacted clay liner slope, and 400m3 of clay liner protection berm - Supply and installation of 200 m of 200 mm diameter HDPE leachate collection pipe - Supply and installation of 2 manholes; each 3.0 vertical metres of 1200 mm diameter - Placement of 7,000m2 of 0.3m thick drainage layer (tire shred supplied by City of Camrose) - Construction of 100 m of run-off control ditches - Landfill Access Road Obliteration/ Access Construction  
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## Dodge upcoming project reports

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Webber Academy School Bus Storage  
201400515016 v1  
**Action stage:** Construction Documents  
1515 93 Street SW  
CALGARY, AB (DIVISION 06)  
T3H 4A8 CAN  
**Bid date:**  
**Valuation:** H (Est. \$1M - \$2.9M)  
**Project delivery system:** Design-Bid-Build  
**Target start date:** 08/01/2014  
**Owner class:** Private  
Project type: Warehouse.  
Report type: Project  
Sub project count: 0  
First publish date: 05/05/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: New Project  
Status: Planning for construction - Further development pending approvals - Expected start date in August 2014  
Status project delivery system: Design-Bid-Build  
Publish date: 05/05/2014  
Architect: **City Core Commercial Contracting**, Reception #301 - 227 10th Street NW Calgary, AB T2N 1V5 (CAN) , Phone:403-244-9030, Fax:403-244-9031, E-mail:bart@citycorecommercial.com, URL:http://citycorecommercial.com/  
Owner (Private): **Webber Academy Foundation**, 1515 93rd St SW Calgary, AB T3H 4A8 (CAN) , Phone:403-277-4700, Fax:403-277-2770, URL:http://www.webberacademy.ca/  
Notes: CRCN04  
Structural information: 1 Building / 1 Story above grade / 0 Story below grade /  
Additional features: School bus storage - Maintenance building - Electrical - Mechanical - HVAC - Plumbing  
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## ATLANTIC

\*Evergreen Village Development - Master Report  
201300611581 v2  
(A) Evergreen Village Development - Block A - DR201400512613  
(B) Evergreen Village Development - Block B - DR201400512609  
(C) Evergreen Village Development - Block C - DR201400512614  
**\* Action stage:** \*Construction Documents site undisclosed  
DARTMOUTH, NS (HALIFAX)  
CAN  
**Bid date:** \* **Valuation:** \*A (Est. up to \$99K)  
**\* Project delivery system:** \*Contract Method Undetermined  
**Owner class:** Private  
Project type: Apartments/Condominiums 4+ Stories.  
Report type: Project  
Sub project count: 3  
First publish date: 08/22/2013  
Prior publish date: 08/22/2013  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: New Project  
Status: All projects have been broken away - No new information will be reported on this Dodge Report number - Valuation indicates report close out - Refer to specific Dodge Re-

ports for the project of interest  
Status project delivery system: Contract Method Undetermined  
Publish date: 05/02/2014  
Architect: **Connor Architects & Planners Ltd**, Peter Connor (Architect), 200 Portland Street Dartmouth, NS B2Y 1J4 (CAN) , Phone:902-465-7227, Fax:902-465-7228, E-mail:info@cap.ns.ca, URL:http://www.cap.ns.ca/  
Consultant: **Connor Architects & Planners Ltd**, Peter Connor (Architect), 200 Portland Street Dartmouth, NS B2Y 1J4 (CAN) , Phone:902-465-7227, Fax:902-465-7228, E-mail:info@cap.ns.ca, URL:http://www.cap.ns.ca/  
Owner's Agent (Private): **Connor Architects & Planners Ltd**, Peter Connor (Architect), 200 Portland Street Dartmouth, NS B2Y 1J4 (CAN) , Phone:902-465-7227, Fax:902-465-7228, E-mail:info@cap.ns.ca, URL:http://www.cap.ns.ca/  
Notes: CRCN01 - Location: 530 Portland Street and 104 Green Village Lane  
Additional features: three new multiple unit buildings - one eight storey building - one 9 storey building and one four storey residential building  
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\*Polyvalente Thomas-Albert - Phase 2  
201300638408 v2  
**\* Action stage:** \*Construction Documents  
215 rue Guimont  
GRAND SAULT, NB (VICTORIA)  
E3Y 1C7 CAN  
**Bid date:** **Valuation:** \*H (Est. \$1M - \$2.9M)  
**Target bid date:** 06/01/2014  
**Project delivery system:** Design-Bid-Build  
**Owner class:** State  
Project type: Middle/Senior High School.  
Report type: Project  
Sub project count: 0  
First publish date: 09/26/2013  
Prior publish date: 09/26/2013  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: Interiors  
Status: Planning underway - Further development pending approvals - Possible 2014 construction start  
Status project delivery system: Design-Bid-Build  
Publish date: 04/24/2014  
Architect: **Ronald Lapointe Architect**, Ronald Lapointe (Architecte), 75 Saint Francois Edmunston, NB E3V 2T3 (CAN) , Phone:506-735-7181, Fax:506-739-7022, E-mail:lapointe@nbnet.nb.ca  
Electrical Engineer: **exp Services Inc.**, Reception 1133 Regent St FREDERICTON, NB E3B 3Z2 (CAN) , Phone:506-458-8425, Fax:506-450-7165, E-mail:one@exp.com, URL:http://www.exp.com/en/home.html  
Mechanical Engineer: **Tek Consultants Ltd**, Reception 534 Prospect Street West FREDERICTON, NB E3B 6G9 (CAN) , Phone:506-458-9661, Fax:506-458-9663, E-mail:tek@tekcon.ca, URL:http://www.tekcon.ca/  
Owner (Public): **Supply & Services-Central Tendering Branch**, Tabitha Lee (Administration), 20 McGloin Street Room 205, Marysville Place FREDERICTON, NB E3B 5H1 (CAN) , Phone:506-453-2706, Fax:506-

444-4400, E-mail:tabitha.lee@gnb.ca, URL:http://www2.gnb.ca/content/gnb/en/departments/gove  
Notes: CRCN01  
Additional features: various renovations - renovation in amphitheatre - replacement of seats and carpets - hand rails - sprinkler system - mechanical and electrical work  
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Cabot Links - Golf Resort - Master Report  
201400508576 v1  
(A) Club House - DR201400508603  
(B) Hotel - DR201400508597  
(C) Duplexes - DR201400508604  
**Action stage:** Construction Documents  
15933 Central Avenue  
INVERNESS, NS (INVERNESS)  
B0E 1N0 CAN  
**Bid date:** **Valuation:** A (Est. up to \$99K)  
**Project delivery system:** Contract Method Undetermined  
**Owner class:** Private  
Project type: Apartments/Condominiums 1-3 Stories. Miscellaneous Recreational. Hotel/Motel.  
Report type: Project  
Sub project count: 3  
First publish date: 04/30/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: New Project  
Status: All projects have been broken away - No new information will be reported on this Dodge Report number - Valuation indicates report close out - Refer to specific Dodge Reports for the project of interest  
Status project delivery system: Contract Method Undetermined  
Publish date: 04/30/2014  
Architect: **Cabot Links**, 15933 Central Avenue INVERNESS, NS B0E 1N0 (CAN) , Phone:902-258-4653, E-mail:golf@cabotlinks.com, URL:http://cabotlinks.com/  
Email ID : golf@cabotlinks.com, Internet Addr : http://cabotlinks.com/  
Owner (Private): **Cabot Links**, Ben Cowan-Dewar (Developer), 15933 Central Avenue INVERNESS, NS B0E 1N0 (CAN) , Phone:902-258-4653, E-mail:golf@cabotlinks.com, URL:http://cabotlinks.com/  
Internet Addr : http://cabotlinks.com/  
Notes: CRCN01 - Please note that Architects are not disclosed at this time  
Additional features: Construction of new accommodations for golf expansion - construction of see on storey duplexes - hotel - club house  
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RFQ/GC: Steel Tower Transmission Line Upgrades 57976JW  
201400523982 v2 (57976JW)  
**\* Action stage:** \*Bidding. Construction Documents  
Churchill Falls to Wabush  
WABUSH, NF (DIVISION 10)  
CAN  
**Bid date:** 05/27/2014 @ 03:00 PM ADT  
**Valuation:** \*G (Est. \$750K - \$999K)

**Project delivery system:** Design-Bid-Build  
**Target start date:** 06/01/2014  
**Owner class:** Private  
Project type: Power Lines.  
Report type: Project  
Sub project count: 0  
First publish date: 05/14/2014  
Prior publish date: 05/14/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: Additions, Alterations  
Status: Owner requests Pre-qualifications from General Contractors by May 27 at 3:00 PM (ADT)  
Status project delivery system: Design-Bid-Build  
Publish date: 05/15/2014  
Submit bids to: Owner (Private)  
Engineer: **Newfoundland and Labrador Hydro**, Supply Chain Management Dept 500 Columbus Drive ST JOHN'S, NF A1B 4K7 (CAN) , Phone:709-737-1273, Fax:709-737-1795, E-mail:hydro@nlh.nl.ca, URL:http://www.nlh.nl.ca/hydroweb/nl-hydroweb.nsf/SubCo  
Company Name : Newfoundland and Labrador Hydro Internet Addr : http://www.nlh.nl.ca/hydroweb/nlhydroweb.nsf/SubCo  
Owner (Private): **Newfoundland and Labrador Hydro**, Supply Chain Management Dept 500 Columbus Drive ST JOHN'S, NF A1B 4K7 (CAN) , Phone:709-737-1273, Fax:709-737-1795, E-mail:hydro@nlh.nl.ca, URL:http://www.nlh.nl.ca/hydroweb/nl-hydroweb.nsf/SubCo  
Company Name : Newfoundland and Labrador Hydro Internet Addr : http://www.nlh.nl.ca/hydroweb/nlhydroweb.nsf/SubCo  
Notes: DEWB86  
Plans available from: Owner (Private)  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
Additional features: Construction of 230kv Steel Tower Transmission Line from Churchill Falls to Wabush, Labrador  
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Residential Development - Master Report  
201400522897 v1  
(A) Apartment Building - DR201400522939  
(B) Townhouse - Block 1 - DR201400522934  
(C) Townhouse - Block 2 - DR201400522935  
(D) Townhouse - Block 3 - DR201400522936  
(E) Townhouse - Block 4 - DR201400522940  
(F) Townhouse - Block 5 - DR201400522930  
(G) Townhouse - Block 6 - DR201400522942  
(H) Townhouse - Block 7 - DR201400522931  
**Action stage:** Construction Documents  
26 and 34 Walker Service Road  
LOWER SACKVILLE, NS (HALIFAX)  
CAN  
**Bid date:** **Valuation:** 1 ( )  
**Project delivery system:** Contract Method Undetermined  
**Owner class:** Private  
Project type: Apartments/Condominiums 1-3 Stories. Apartments/Condominiums 4+ Stories.  
Report type: Project  
Sub project count: 8  
First publish date: 05/13/2014

## Dodge upcoming project reports

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Publisher: McGraw-Hill Construction Dodge  
Type of Work: New Project  
Status: All projects have been broken away - No new information will be reported on this Dodge Report number - Valuation indicates report close out - Refer to specific Dodge Reports for the project of interest  
Status project delivery system: Contract Method Undetermined  
Publish date: 05/13/2014  
Architect: **WM Fares Group, A.J. Brown** (Architect), 117 Kearney Lake Road Halifax, NS B3M 4N9 (CAN), Phone:902-457-6676, Fax:902-757-4686, URL:http://www.wm-fares.com  
Internet Addr : http://www.wmfares.com  
Landscape Architect: **Ekistics Planning & Design**, Landscape Architects 1 Starr Lane Dartmouth, NS B2Y 4V7 (CAN), Phone:902-461-2525, Fax:902-465-3131, E-mail:contact@ekistics.net, URL:http://www.ekistics.net/  
Owner-Builder/Developer(Private): **Cascade Property Group**, 27 Langbrae Drive HALIFAX, NS B3M 4J9 (CAN), Phone:902-443-0830, Fax:902-457-0826, E-mail:Admin@cascadepropertygroup.com, URL:http://cascadepropertygroup.com/  
Email ID : Admin@cascadepropertygroup.com  
Internet Addr : http://cascadepropertygroup.com/  
Notes: CRCN01  
Additional features: construction of a 4 storey 64 for unit residential building - construction of 32 townhouse units within 7 buildings  
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### BRITISH COLUMBIA

Public Safety Bldg (Fire/Police) & U/G Parkade  
201100626101 v5  
**Action stage:** Construction Documents  
750 17th St  
WEST VANCOUVER, BC (GREATER VANCOUVER)  
V7V 3T3 CAN  
**Bid date: Valuation:** \$ 25,335,000  
**\* Project delivery system:** Design-Bid-Build  
**\* Target start date:** \*08/01/2014  
**Owner class:** Local Government  
Project type: Parking Garage. Fire/Police Station.  
Report type: Project  
Sub project count: 0  
First publish date: 10/18/2011  
Prior publish date: 05/05/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: New Project  
Status: North Parking Lot redevelopment complete - Construction documents complete - Advancement to tender pending Council approvals - Construction start possible within 4 months  
Special conditions: LEED Intended Gold  
Status project delivery system: Design-Bid-Build  
Publish date: 05/06/2014  
Submit bids to: Owner (Public)  
Architect: **DIALOG**, 406-611 Alexander Street VANCOUVER, BC V6A 1E1 (CAN), Phone:604-255-1169, Fax:604-255-1790, E-mail:general@designdialog.ca, URL:http://www.designdialog.ca for email form :

http://www.designdialog.ca/index.cfm?pageat=Contact\_us&id=646  
Electrical Engineer: **Applied Engineering Solutions Ltd.**, Reception 600 - 905 West Pender Vancouver, BC V6C 1L6 (CAN), Phone:604-569-6500, Fax:604-569-6501  
Mechanical Engineer: **AME Group**, 501 - 134 Abbott Street VANCOUVER, BC V6B 2K4 (CAN), Phone:604-684-5995, Fax:604-684-5993, E-mail:haroldstewart@AMEgroup.ca Email ID : haroldstewart@AMEgroup.ca  
Owner (Public): **District of West Vancouver**, Clay Nelson (Mgr, Building Const.), 750-17th Street Planning Department WEST VANCOUVER, BC V7V 3T3 (CAN), Phone:604-925-7062, Fax:604-925-5959, E-mail:cnelson@westvancouver.ca  
Project Manager: **Pivotal Projects Inc.**, Josh Henderson (Project Manager), 930 West 1st St., Suite 112 NORTH VANCOUVER, BC V7P 3N4 (CAN), Phone:604-973-0052, Fax:604-924-5573, E-mail:jhenderson@pivotalprojects.com, URL:http://www.pivotalprojects.com/index.htm  
Email ID : jhenderson@pivotalprojects.com  
Structural Engineer: **Read Jones Christoffersen (RJC) Ltd**, 1285 West Broadway Suite 300 Vancouver, BC V6H 3X8 (CAN), Phone:604-738-0048, Fax:604-738-1107, URL:http://www.rjc.ca/  
Notes: CRCN08 - Anticipated hard construction cost CDN \$27.8 million - Total project cost (incl consultant and soft costs) CDN \$36 million  
Plans available from: Owner (Public)  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
Structural information: 1 Building/ 3 Stories above grade / 1 Story below grade / 5,351 Total square meter  
Additional features: Construct a combined Public Safety Building to house relocated police and fire services adjacent to existing City Hall - approximately 138 underground parking spaces as well as additional 78 at-grade parking spaces - minimum of 21083 ft2 (1959 m2) for police services - minimum of 9332 ft2 (867 m2) for fire services - additional space for shared services - atrium  
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William Griffin Cmty Rec Ctr w Swimming Pool (Replacement)  
201200581158 v4  
**Action stage:** Construction Documents  
851 West Queens Rd  
NORTH VANCOUVER, BC (GREATER VANCOUVER)  
V7N 4E3 CAN  
**Bid date:** 02/12/2013 @ 02:00 PM PST  
**\* Valuation:** \$ 31,760,000  
**\* Project delivery system:** \*Construction Management at Risk  
**\* Target start date:** 06/01/2014  
**Target complete date:** 07/01/2016  
**Owner class:** Local Government  
Project type: Office. Pre-School. Athletic Facility. Swimming Pool. Miscellaneous Recreation.  
Report type: Project  
Sub project count: 0

First publish date: 07/27/2012  
Prior publish date: 04/25/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: New Project  
Status: Anticipated May 2014 Construction Manager award - Demolition of existing facility underway - Development Permit approval pending - Anticipated June 2014 construction start - Target July 2016 completion  
Special conditions: LEED Intended Gold  
Status project delivery system: Construction Management at Risk  
Publish date: 04/28/2014  
Architect: **CEI Architecture Planning Interiors**, Sid Johnson (Project Architect), 500 - 1500 West Georgia Street Vancouver, BC V6G 2Z6 (CAN), Phone:604-687-1898, E-mail:sjohnson@ceiarchitecture.com, URL:http://www.ceiarchitecture.com  
Civil Engineer: **Creus Engineering Ltd**, Fred Ciambrelli (Civil Engineer), 200 - 901 W 16th St North Vancouver, BC V7P 1R2 (CAN), Phone:604-987-9070, Fax:604-987-9071, E-mail:fciambrelli@creus.ca, URL:http://www.creus.ca/  
Email ID : fciambrelli@creus.ca  
Electrical Engineer: **Acumen Consulting Engineers**, Wayne Burnstad (Technologist Eng), 650 - 2700 Production Way Burnaby, BC V5A 4X1 (CAN), Phone:604-676-9545, Fax:604-676-9544, E-mail:wayneb@acumenengineering.ca Email ID : wayneb@acumenengineering.ca  
Technology  
Electrical Engineer: **Acumen Consulting Engineers**, Yuri Martynov (Electrical Engineer), 650 - 2700 Production Way Burnaby, BC V5A 4X1 (CAN), Phone:604-676-9545, Fax:604-676-9544, E-mail:yurim@acumenengineering.ca Email ID : yurim@acumenengineering.ca  
Landscape Architect: **Sharp & Diamond Planning Landscape Architecture**, Lisa Van Haastrecht (Landscape Architect), 2305 Hemlock Street VANCOUVER, BC V6H 2V1 (CAN), Phone:604-681-3303, Fax:604-681-3307, E-mail:lisa@sharpdiamond.com, URL:http://www.sharpdiamond.com  
Email ID : lisa@sharpdiamond.com  
Internet Addr : http://www.sharpdiamond.com  
Mechanical Engineer: **Water Technology, Inc.**, Bill Bornick (Sr Project Mgr), 100 Park Ave Beaver Dam, WI 53916-2108 (USA), Phone:920-887-7375, Fax:920-887-7999, E-mail:bbornick@wtiworld.com, URL:http://www.watertechnologyinc.com  
Pool  
Mechanical Engineer: **MMM Group Limited**, Hamid Samani (Mechanical Engineer), 1045 Howe St Suite 700 Vancouver, BC V6G 1A6 (CAN), Phone:604-685-9381, Fax:604-683-8655, E-mail:samani@mmm.ca  
Owner (Public): **District of North Vancouver Recreation Commission**, Gary Houg (Mgr Engineering Svcs), 600 West Queens Rd Delbrook Centre NORTH VANCOUVER, BC V7N 2L3 (CAN), Phone:604-983-6308, Fax:604-984-4294, E-mail:houg@northvanrec.com, URL:http://www.northvanrec.com/  
Email ID : hougg@northvanrec.com  
Owner (Public): **District of North Vancouver**, Nicola Chevallier (Section Manager), 355 West Queens Rd NORTH VANCOUVER, BC V7L 4N5 (CAN), Phone:604-990-2333, Fax:604-984-9637, E-mail:chevallier@dvn.org, URL:http://www.dvn.org/

Email ID : chevallier@dvn.org  
Internet Addr : http://www.dvn.org/  
Project Manager: **Pivotal Projects Inc.**, Josh Henderson (Project Manager), 930 West 1st St., Suite 112 NORTH VANCOUVER, BC V7P 3N4 (CAN), Phone:604-973-0052, Fax:604-924-5573, E-mail:jhenderson@pivotalprojects.com, URL:http://www.pivotalprojects.com/index.htm  
Email ID : jhenderson@pivotalprojects.com  
Structural Engineer: **Read Jones Christoffersen (RJC) Ltd**, Damien Stoneham (Project Engineer), 1285 West Broadway Suite 300 Vancouver, BC V6H 3X8 (CAN), Phone:604-738-0048, Fax:604-738-1107, E-mail:dstoneham@rjc.ca, URL:http://www.rjc.ca/  
Email ID : dstoneham@rjc.ca  
Internet Addr : http://www.rjc.ca/  
Notes: CRCN08 - Anticipated construction cost CDN \$35 million  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
\*Structural information: 1 Building/ 2 Stories above grade / 2 Stories below grade / 8,918 Total square meter / Building Frame: \*Structural Steel  
Additional features: Construction of a new 84500 ft2 (7850 m2) recreation centre on the site of the existing William Griffin Recreation Centre - Community recreation spaces (42300 ft2 / 3934 m2) - Swimming pool (25500 ft2 / 2372 m2) - Racquet Sports (4400 ft2 / 409 m2) - Administration space (5900 ft2 / 549 m2) - Lease Space (2400 ft2 / 223 m2) - Community offices (800 ft2 / 74 m2) - Upper level to feature pottery studio and arts & crafts workshop - admin offices - rental meeting space - multi-purpose room - Main level to feature lobby/reception - admin offices - seniors area - preschool - community kitchen - multi-purpose room - lease space - Lower level to feature pool access - youth program areas - activity studio - full size gymnasium - weight room - stretching room - fitness studio - squash courts - underground parking level below lower level for 111 vehicles including 5 accessible stalls and 4 electric charging stations - additional surface parking spaces - Pool deck to include full lap pool with accessible lift and 1m and 3m dive boards - multi-purpose sectioned pool with areas for water fitness and games - toddler and tots swim area - learn to swim lanes and zero depth entry - hot tub with accessible lift - concrete and steel structure - minor glulam columns - exterior walls (architectural concrete - curtain wall - phenolic (wood) panel system) - 2-ply SBC roof  
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RFQ/GC: Building Envelope ( North Park Manor) PR284563  
201300575844 v8 (PR284563)  
**Action stage:** Bid Results, Construction Documents  
875 North Park Street  
VICTORIA, BC (CAPITAL)  
V8T 4B8 CAN  
**Bid date:** 01/16/2014 @ 02:00 PM PST  
**Valuation:** \*H (Est. \$1M - \$2.9M)

# McGraw Hill Construction Dodge

## Dodge upcoming project reports

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E-mail: mcgraw-hill@merx.com Web: www.construction.com

\* **Project delivery system:** Design-Bid-Build  
\* **Target start date:** \*06/01/2014

**Owner class:** Private  
Project type: Apartments/Condominiums 4+ Stories.  
Report type: Project  
Sub project count: 0  
First publish date: 07/12/2013  
Prior publish date: 01/28/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: Alterations  
Status: Prequalifications for General Contractors in and under review - Further action pending on Owner's decision to proceed - Bid January 16  
Status project delivery system: Design-Bid-Build  
Publish date: 04/18/2014  
Submit bids to: Owner (Private)  
Architect: **Read Jones Christoffersen**, 220 - 645 Tyee Road Victoria, BC V9A 6X5 (CAN) , Phone:250-386-7794, Fax:250-381-7900, E-mail:victoria@rjc.ca, URL:http://www.rjc.ca/  
Consultant: **MERX**, Customer Support 38 Antares Drive Ottawa, ON K2E 7V2 (CAN) , Phone:613-727-4900, Fax:888-235-5800, E-mail:merx@merx.com, URL:http://www.merx.com  
Bidders must be registered with MERX to order documents and submit a bid. MERX is the sole source for documents. Register at www.merx.com.

**Owner (Private): BC Housing Management Commission**, Jocelain Torrelli (Contract Authority), Suite 1701 - 4555 Kingsway Burnaby, BC V5H 4G7 (CAN) , Phone:604-439-4711, Fax:604-433-5915, E-mail:purchasing@bchousing.org, URL:http://www.bchousing.org  
Email ID : jtorrelli@bchousing.org  
Internet Addr : http://www.bchousing.org  
Notes: DEWB31 Mandatory site visit February 19 at 9:00 AM (PST) at 875 North Park Street - Registration to MERX Agencies, Crown and Private Corporations  
<<http://www.merx.com/>> is required. You must be listed on the MERX Detailed Tracking Report (DTR) to Bid this project - An Authorized Signer PIN number generated by MERX is required in order to submit your bid electronically. This PIN must be requested by the person with the authority to bind your organization. Request your PIN - Pricing and Sub-contractor's submission February 10 at 2:00 PM (PST)

Plans available from: Consultant  
Addenda IND: N  
Plan IND: Y  
Spec IND: Y  
Plan available IND: Y  
Additional features: The main scope of work will include the replacement of the existing windows and roofs and the application of brick sealer - The mechanical scope of work will consist of the replacement of the boiler system and an assessment/report on domestic water distribution  
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RFQ/GC: Kerry Park Ice Arena-Energy Upgrades ES02614  
201400509268 v1  
**First issue bid stage IND:Y.**  
(ES02614)

**Action stage:** GC Bidding, Construction Documents  
1035 Shawnigan Mill Bay Rd  
MILL BAY, BC (COWICHAN VALLEY)  
V0R 2P2 CAN  
**Bid date:** 05/02/2014 @ 02:00 PM PDT  
**Valuation:** H (Est. \$1M - \$2.9M)

**Project delivery system:** Design-Bid-Build  
**Target start date:** 08/01/2014  
**Target complete date:** 09/01/2014  
**Owner class:** Local Government  
Project type: Indoor Arena.  
Report type: Project  
Sub project count: 0  
First publish date: 04/29/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: Alterations  
Status: Owner requests pre-qualifications from General Contractors by May 2 at 2:00 PM (PDT) - Anticipated August 15 through September 30 construction  
Status project delivery system: Design-Bid-Build  
Publish date: 04/29/2014  
Submit bids to: Owner (Public)  
Architect: **Cowichan Valley Regional District**, Norm Olive, P. Eng. (Mgr, Capital Proj.), 175 Ingram Street DUNCAN, BC V9L 1N8 (CAN) , Phone:250-746-2530, Fax:250-746-2543, E-mail:nolive@cvrd.bc.ca, URL:http://www.cvrd.bc.ca/  
Owner (Public): **Cowichan Valley Regional District**, Norm Olive, P. Eng. (Mgr, Capital Proj.), 175 Ingram Street DUNCAN, BC V9L 1N8 (CAN) , Phone:250-746-2530, Fax:250-746-2543, E-mail:nolive@cvrd.bc.ca, URL:http://www.cvrd.bc.ca/  
Notes: DEWB82 - Plans & Specifications are currently being processed and will be available within 1-2 business days  
Plans available from: Owner (Public)  
Addenda IND: N  
Plan IND: N  
Spec IND: Y  
Plan available IND: Y

Additional features: Request for qualifications to supply and install a number of refrigeration components and energy recovery components along with associated piping and ductwork systems at the Kerry Park Arena in Mill Bay, BC on southern Vancouver Island  
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\*RFQ/GC: Building Envelope Rehabilitation Phase 4 ON002495  
201400505236 v2  
**\* First issue bid stage IND:Y.**  
(ON002495)

**\* Action stage:** \*GC Bidding, Construction Documents  
2100 Labieux Road  
NANAIMO, BC (CAPITAL)  
V9T 6E9 CAN  
**Bid date:** 05/08/2014 @ 02:00 PM PDT  
**\* Valuation:** \*F (Est. \$500K - \$749K)  
**\* Project delivery system:** Design-Bid-Build  
**\* Target start date:** 06/01/2014  
**Target complete date:** 02/01/2015  
**Owner class:** Local Government  
Project type: Office.  
Report type: Project  
Sub project count: 0  
First publish date: 04/25/2014  
Prior publish date: 04/25/2014

Publisher: McGraw-Hill Construction Dodge  
Type of Work: Alterations  
Status: Owner requests Prequalifications from General Contractors Firms by May 8 at 2:00 PM (PDT)  
Status project delivery system: Design-Bid-Build  
Publish date: 04/29/2014  
Submit bids to: Owner (Public)  
Architect: **Province of British Columbia - Purchasing**, Jerry Gauthier (Procurement Spec), 563 Superior Street Victoria, BC V8W 9W6 (CAN) , Phone:250-387-7300, Fax:250-387-7309, E-mail:purchasing@gov.bc.ca  
Email ID : purchasing@gov.bc.ca  
Owner (Public): **Province of British Columbia - Purchasing**, Jerry Gauthier (Procurement Spec), 563 Superior Street Victoria, BC V8W 9W6 (CAN) , Phone:250-387-7300, Fax:250-387-7309, E-mail:purchasing@gov.bc.ca  
Email ID : purchasing@gov.bc.ca  
Notes: DEWB73 - Source requests all bid documents be obtained through their channels only - Documents for this project will not appear in the McGraw-Hill Construction Network  
Plans available from: Owner (Public)  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
Additional features: The purpose of this Request for Qualifications is to pre-qualify firms for the Building Envelope Rehabilitation Phase 4 of 2100 Labieux Road, Nanaimo B.C. Based on the review of the RFQ responses, the Province intends to issue a tender for the Building Envelope Rehabilitation Phase 4 of 2100 Labieux Road, Nanaimo B.C  
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## MANITOBA

Mid Rise Residential Development  
201400514423 v2  
**\* Action stage:** \*Construction Documents  
357-373 River Avenue  
WINNIPEG, MB (DIVISION 11)  
CAN  
**Bid date: Valuation:** \*I (Est. \$3M - \$4.9M)  
**Project delivery system:** Construction Management at Risk  
**Target start date:** 06/01/2014  
**Target complete date:** 04/01/2015  
**Owner class:** Private  
Project type: Apartments/Condominiums 4+ Stories.  
Report type: Project  
Sub project count: 0  
First publish date: 05/05/2014  
Prior publish date: 05/05/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: New Project  
Status: Proposed for Construction - Local approvals underway - Foundation work to start In June - Spring 2014 completion  
Status project delivery system: Construction Management at Risk  
Publish date: 05/06/2014  
Architect: **Cibinel Architects Ltd**, Matt Cibinel (Project Architect), 420-A Stradbrook Avenue Winnipeg, MB R3L 0J8 (CAN) , Phone:204-989-8910, Fax:204-989-8920, E-

mail:matt@cibinel.com, URL:http://www.cibinel.com/  
Internet Addr : http://www.cibinel.com/  
Construction Manager: **Jilmark Construction**, John Froese (Owner), Unit A 1108 Henderson Hwy Winnipeg, MB R2G 1X9 (CAN) , Phone:204-661-4301, Fax:204-661-4315, E-mail:John@jilmark.com, URL:http://www.jilmark.com/  
Internet Addr : http://www.jilmark.com/  
Owner's Agent (Private): **Cibinel Architects Ltd**, Matt Cibinel (Project Architect), 420-A Stradbrook Avenue Winnipeg, MB R3L 0J8 (CAN) , Phone:204-989-8910, Fax:204-989-8920, E-mail:matt@cibinel.com, URL:http://www.cibinel.com/  
Internet Addr : http://www.cibinel.com/  
Notes: CRCN02  
Structural information: 1 Building/ 4 Stories above grade / 0 Story below grade / Additional features: Construction of a Four Storey -30 unit - Residential development - 30 parking stalls underneath the building at grade - floor 2-4 River ave entrance via an outdoor staircase - enclosed and glazed staircase on River Avenue and an enclosed and glazed lobby at grade on River Avenue - Electrical - Mechanical - HVAC - Plumbing  
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RFQ/GC: Garden City Collegiate Building Upgrade PR291421  
201400465481 v3  
(PR291421)

**Action stage:** GC Bidding, Construction Documents  
711 Jefferson Ave  
WINNIPEG, MB (DIVISION 11)  
R2V 0P7 CAN  
**Bid date:** 03/26/2014 @ 02:00 PM CDT  
**Valuation:** \$ 1,000,001 - 5,000,000  
**Target bid date:** 04/01/2014  
**\* Project delivery system:** Design-Bid-Build  
**\* Target start date:** \*05/01/2014  
**Owner class:** State  
Project type: Middle/Senior High School.  
Report type: Project  
Sub project count: 0  
First publish date: 03/18/2014  
Prior publish date: 04/28/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: Alterations  
Status: Owner requests Pre-qualifications from General Contractors and Masonry Sub-contractors by March 26 at 2:00 PM (CDT) - April Tender anticipated  
Status project delivery system: Design-Bid-Build  
Publish date: 05/01/2014  
Submit bids to: Architect  
Architect: **Stantec Architecture**, Byron Cook (Project Manager), 905 Waverley Street Winnipeg, MB R3T 5P4 (CAN) , Phone:204-489-5900, Fax:204-478-8981, E-mail:byron.cook@stantec.com, URL:http://www.stantec.com  
http://www.stantec.com  
Email ID : byron.cook@stantec.com  
Internet Addr : Consultant: **MERX**, Customer Support 38 Antares Drive Ottawa, ON K2E 7V2 (CAN) , Phone:613-727-4900, Fax:888-235-5800, E-mail:merx@merx.com, URL:http://www.merx.com  
Bidders must be registered with MERX to

Estimate codes: B: \$100,000-\$199,999; C: \$200,000-\$299,999; D: \$300,000-\$399,999; E: \$400,000-\$499,999; F: \$500,000-\$749,999; G: \$750,000-\$999,999; H: \$1,000,000-\$2,999,999; I: \$3,000,000-\$4,999,999; J: \$5,000,000-\$9,999,999; K: \$10,000,000-\$14,999,999; L: \$15,000,000-\$24,999,999; M: \$25,000,000-\$49,999,999; N: \$50,000,000-No Maximum

## Dodge upcoming project reports

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order documents and submit a bid. MERX is the sole source for documents. Register at [www.merx.com](http://www.merx.com).  
Owner (Public): **Seven Oaks School District #10**, 830 Powers Street WINNIPEG, MB R2V 4E7 (CAN), Phone:204-586-8061, Fax:204-589-2504, URL:<http://www.7oaks.org/>  
Notes: CRCN03 - Registration to MERX Agencies, Crown and Private Corporations <<[>>](http://www.merx.com/) is required. You must be listed on the MERX Detailed Tracking Report (DTR) to Bid this project  
Plans available from: Consultant  
Addenda IND: N  
Plan IND: N  
Spec IND: Y  
Plan available IND: Y  
Structural information: 1 Building/ 3 Stories above grade / 0 Story below grade / 2,415 Total square meter  
Additional features: upgrade to remove and replace the exterior wall envelope and roofing assembly on the 3 storey school building comprising approximately 14,000 sq. ft of wall envelope and approximately 12,000 sq. ft. of roofing. The work on this school located in Winnipeg, MB  
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ITEM: Precast Prestressed Concrete Channel Girders 295109  
201400516654 v1  
**First issue bid stage IND:Y.**  
(295109)  
**Action stage:** Bidding  
WINNIPEG, MB (DIVISION 11)  
CAN  
**Bid date:** 05/13/2014 @ 12:00 PM CDT  
**Valuation:** Project delivery system: Design-Bid-Build  
**Owner class:** State  
Project type: Bridge.  
Report type: ITEM Only  
Sub project count: 0  
First publish date: 05/07/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Item: MATL EQUIP.  
Item Code: Concrete Jst.Beam,ect-Precast. Girders-Structural Steel.  
Item Category: MASONRY/CONCRETE. STRUCTURAL METAL.  
Status: Bids to Owner May 13 at 12:00 PM (CDT)  
Status project delivery system: Design-Bid-Build  
Publish date: 05/07/2014  
Submit bids to: Owner (Public)  
Consultant: **MERX**, Customer Support 38 Antares Drive Ottawa, ON K2E 7V2 (CAN), Phone:613-727-4900, Fax:888-235-5800, E-mail:merx@merx.com, URL:<http://www.merx.com>  
Bidders must be registered with MERX to order documents and submit a bid. MERX is the sole source for documents. Register at [www.merx.com](http://www.merx.com).  
Engineer: **Government of Manitoba Highways & Transportation**, Contract Services 1630 - 215 Garry Street 16th Floor Winnipeg, MB R3C 3P3 (CAN), Phone:204-945-3637, Fax:204-948-2288, E-mail:mgi@gov.mb.ca, URL:<http://mit.gov.mb.ca/cts/Tenders.aspx>  
Owner (Public): **Government of Manitoba**

**Highways & Transportation**, Contract Services 1630 - 215 Garry Street 16th Floor Winnipeg, MB R3C 3P3 (CAN), Phone:204-945-3637, Fax:204-948-2288, E-mail:mgi@gov.mb.ca, URL:<http://mit.gov.mb.ca/cts/Tenders.aspx>  
Notes: DEWB86  
Plans available from: Consultant  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
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ITEM: Plumbing Services (IQ) PR294794  
201400516656 v1  
**First issue bid stage IND:Y.**  
(PR294794)  
**Action stage:** Bidding  
820 Taylor Ave -, other locations WINNIPEG, MB (DIVISION 11)  
R3M CAN  
**Bid date:** 05/13/2014 @ 04:00 PM CDT  
**Valuation:** D (Est. \$300K - \$399K)  
**Project delivery system:** Design-Bid-Build  
**Target start date:** 06/01/2014  
**Owner class:** Private  
Project type: Hydroelectric.  
Report type: ITEM Only  
Sub project count: 0  
First publish date: 05/07/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Item: ALTERATION.  
Item Code: Plumbing Work.  
Item Category: PLUMBING/FIRE PROTECTION.  
Status: Bids to Owner May 13 at 4:00 PM (CDT)  
Status project delivery system: Design-Bid-Build  
Publish date: 05/07/2014  
Submit bids to: Owner (Private)  
Consultant: **MERX**, Customer Support 38 Antares Drive Ottawa, ON K2E 7V2 (CAN), Phone:613-727-4900, Fax:888-235-5800, E-mail:merx@merx.com, URL:<http://www.merx.com>  
Bidders must be registered with MERX to order documents and submit a bid. MERX is the sole source for documents. Register at [www.merx.com](http://www.merx.com).  
Engineer: **Manitoba Hydro**, Kelley Craig (purch), 360 Portage Ave 2nd floor WINNIPEG, MB R3C 0G8 (CAN), Phone:204-360-4687, Fax:204-474-4972, E-mail:krcraig@hydro.mb.ca, URL:<http://www.hydro.mb.ca>  
Internet Addr : <http://www.hydro.mb.ca>  
Owner (Private): **Manitoba Hydro**, Kelley Craig (purch), 360 Portage Ave 2nd floor WINNIPEG, MB R3C 0G8 (CAN), Phone:204-360-4687, Fax:204-474-4972, E-mail:krcraig@hydro.mb.ca, URL:<http://www.hydro.mb.ca>  
Internet Addr : <http://www.hydro.mb.ca>  
Notes: DEWB86 Site visit on May 5 at 9:00 AM (CDT) at 820 Taylor Ave, Winnipeg - To attend site visit contact: Dane Wilson at 204-360-7551 or e-mail: dalewilson@hydro.mb.ca  
Plans available from: Consultant  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N

Items: For the supply, installation and maintenance, and upgrade of plumbing services on an as required basis at various locations in the Winnipeg area for a period of one (1) year from July 1, 2014 to June 30, 2015  
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ITEM: Plumbing Service (IQ) PR293795  
201400516666 v1  
**First issue bid stage IND:Y.**  
(PR293795)  
**Action stage:** Bidding  
Various Locations  
WINNIPEG, MB (DIVISION 11)  
CAN  
**Bid date:** 05/13/2014 @ 05:00 PM CDT  
**Valuation:** \$ 100,001 - 250,000  
**Project delivery system:** Design-Bid-Build  
**Target start date:** 06/01/2014  
**Owner class:** Private  
Project type: Apartments/Condominiums 1-3 Stories. Apartments/Condominiums 4+ Stories.  
Report type: ITEM Only  
Sub project count: 0  
First publish date: 05/07/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Item: ALTERATION.  
Item Code: Plumbing Work.  
Item Category: PLUMBING/FIRE PROTECTION.  
Status: Bids to Owner May 13 at 2:00 PM (CDT) - Electronic bids to Owner  
Status project delivery system: Design-Bid-Build  
Publish date: 05/07/2014  
Submit bids to: Owner (Private)  
Consultant: **MERX**, Customer Support 38 Antares Drive Ottawa, ON K2E 7V2 (CAN), Phone:613-727-4900, Fax:888-235-5800, E-mail:merx@merx.com, URL:<http://www.merx.com>  
Bidders must be registered with MERX to order documents and submit a bid. MERX is the sole source for documents. Register at [www.merx.com](http://www.merx.com).  
Engineer: **Manitoba Housing Authority**, Maurizio Cesario 400B Logan Avenue WINNIPEG, MB R3A 0R1 (CAN), Phone:204-945-5088, Fax:204-948-4749, E-mail:maurizio.cesario@gov.mb.ca, URL:<http://www.gov.mb.ca/housing/procurement>  
Company Name : Manitoba Housing Authority Email ID : maurizio.cesario@gov.mb.ca  
Internet Addr : <http://www.gov.mb.ca/housing/procurement>  
Owner (Private): **Manitoba Housing Authority**, Buyer Procurement 500 - 352 Donald Street WINNIPEG, MB R3B 2H8 (CAN), Phone:204-945-5088, Fax:204-948-4749, E-mail:MHPProcurement@gov.mb.ca, URL:<http://www.gov.mb.ca/housing/procurement>  
Internet Addr : <http://www.gov.mb.ca/housing/procurement>  
Notes: DEWB86 An Authorized Signer PIN number generated by MERX is required in order to submit your bid electronically. This PIN must be requested by the person with the authority to bind your organization - Registration to MERX Agencies, Crown and Private Corporations <<[>>](http://www.merx.com/) is required. You must be listed on the MERX

Detailed Tracking Report (DTR) to Bid this project  
Plans available from: Consultant  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
Items: Plumbing services on a when and as required basis for the supply of labour, material and parts as required within the assigned Manitoba Housing buildings - Interlake Area 1 comprised of Arborg, Fisher Bay, Fisher Branch, Hodgson, Poplarfield and Riverton.Interlake Area 2 comprised of Balmoral, Fraserwood, Gimli, Komarno, Teulon and Winnipeg Beach.Selkirk Area comprised of Selkirk, Birds Hill, East Selkirk and Garson.North Eastman 1 comprised of Beausejour, Lac du Bonnet and Molson.North Eastman 2 Area Berens River, Bissett, Grand Marais, Great Falls, Manigotagan, Powerview, Seymourville, St. Georges, Stead, Traverse Bay Victoria Beach and Wanipigow.South Eastman 1 Area comprised of Grunthal, Ile des Chenes, La Salle, Landmark, Lorette, Mitchell, Niverville, St. Adolphe, St. Malo St. Pierre-Jolys, and Ste AgatheSouth Eastman 2 Area comprised of Blumenort, Hadashville, La Broquerie, Marchand, Prawda, Richer, Ste. Anne, St. Genevieve, Steinbach, Whitemouth and Woodridge  
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## NORTHERN

ITEM: Boiler Replacements (Two Fourplexes) PM016112  
201400477027 v3  
(PM016112)  
**Action stage:** Bidding  
site not specified  
FORT SIMPSON, NT (FORT SMITH)  
CAN  
**Bid date:** 04/24/2014 @ 03:00 PM MDT  
**Valuation:** \*B (Est. \$100K - 199K)  
**Project delivery system:** Design-Bid-Build  
**Owner class:** State  
Project type: Apartments/Condominiums 1-3 Stories.  
Report type: ITEM Only  
Sub project count: 0  
First publish date: 03/27/2014  
Prior publish date: 04/11/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Item: ALTERATION.  
Item Code: Boiler Replacement. Mechanical Work.  
Item Category: PLUMBING/FIRE PROTECTION. PLUMBING/FIRE PROTECTION.  
Status: Bids to Owner April 24 at 3:00 PM (MDT)  
Status project delivery system: Design-Bid-Build  
Publish date: 04/22/2014  
Submit bids to: Owner (Public)  
Engineer: **Government of NWT Department of Public Works**, Taylor Speed (Project Contact), 2nd Floor, Nahendeh Building FORT SIMPSON, NT X0E 0N0 (CAN), Phone:867-695-7706, Fax:867-695-2266, E-mail:taylor\_speed@gov.nt.ca, URL:<http://www.contractregistry.nt.ca/Public/ListProcu>



# McGraw Hill CONSTRUCTION Dodge

E-mail: mcgraw-hill@merx.com Web: www.construction.com

Owner (Public): **Government of NWT Department of Public Works**, Ernest McPherson (District Admin), 2nd Floor, Nahendeh Building FORT SIMPSON, NT X0E 0N0 (CAN), Phone:867-695-7711, Fax:867-695-2266, E-mail:Ernest\_McPherson@gov.nt.ca, URL:http://www.contractregistry.nt.ca/Public/ListProc

Notes: DEWB50 Source requests all bid documents be obtained through their channels only - Documents for this project will not appear in the McGraw-Hill Construction Network

Plans available from: Owner (Public)  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
Items: Replace boilers, DWH, controls, valves, misc. at 2 public housing four-plex buildings  
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ITEM: Wood Pellet Boiler(South Mackenzie Correctional Centr) CT101397  
201400481320 v3  
(CT101397)

**Action stage:** Bidding  
34 Stuney Drive  
HAY RIVER, NT (FORT SMITH)  
XOE ORG CAN  
**Bid date:** 04/23/2014 @ 03:00 PM MDT  
**Valuation:** \*C (Est. \$200K - \$299K)  
**Project delivery system:** Design-Bid-Build  
**Target start date:** 05/01/2014

**Owner class:** State  
Project type: Prison/Jail.  
Report type: ITEM Only  
Sub project count: 0  
First publish date: 04/01/2014  
Prior publish date: 04/03/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Item: ALTERATION.  
Item Code: Boiler Replacement. Mechanical Work.

Item Category: PLUMBING/FIRE PROTECTION. PLUMBING/FIRE PROTECTION.  
Status: Bids to Owner April 23 at 3:00 PM (MDT)  
Status project delivery system: Design-Bid-Build  
Publish date: 04/21/2014  
Submit bids to: Owner (Public)  
Engineer: **Government of North West Territories**, Ronald Bonnetrouge 301 - 76 Capital Drive HAY RIVER, NT X0E 1G2 (CAN), Phone:867-874-7004, Fax:867-874-7014, E-mail:Audrey\_Mabbitt@gov.nt.ca, URL:http://www.contractregistry.nt.ca/Public/ListProc

Owner (Public): **Government of North West Territories**, Audrey Mabbitt (Contract Admin.), 301 - 76 Capital Drive HAY RIVER, NT X0E 1G2 (CAN), Phone:867-874-7003, Fax:867-874-7014, E-mail:Audrey\_Mabbitt@gov.nt.ca, URL:http://www.contractregistry.nt.ca  
Notes: DEWB50 - Pre-bid meeting on April 8 at 1:00 pm (MDT) at SMCC #34 Stuney Drive Hay River - Source requests all bid documents be obtained through their channels only - Documents for this project will not appear in the McGraw-Hill Construction Network

Plans available from: Owner (Public)  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
Items: Provision for design, construction and installation of a Wood Pellet Boilersystem at South Mackenzie Correctional Centre  
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Electrical Power Hook Up SC794716  
201400523966 v1  
**First issue bid stage IND:** Y.  
(SC794716)  
**Action stage:** Bidding  
Q.E Park Campground  
FORT SMITH, NT (FORT SMITH)  
CAN

**Bid date:** 05/29/2014 @ 03:00 PM MDT  
**Valuation:** C (Est. \$200K - \$299K)  
**Project delivery system:** Design-Bid-Build  
**Owner class:** State  
Project type: Power Lines.  
Report type: Project  
Sub project count: 0  
First publish date: 05/14/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: Alterations  
Status: Bids to Owner May 29 at 3:00 PM (MDT)

Status project delivery system: Design-Bid-Build  
Publish date: 05/14/2014  
Submit bids to: Owner (Public)  
Engineer: **Northwest Territories Public Works & Services**, Mike Bourke 199 McDougall Road Fort Smith, NT X0E 0P0 (CAN), Phone:867-872-7409, Fax:867-872-4221, E-mail:MIKE\_BOURKE@gov.nt.ca  
Owner (Public): **Northwest Territories Public Works & Services**, Procurement Shared Services (Contracts Administra), 199 McDougall Road Fort Smith, NT X0E 0P0 (CAN), Phone:867-872-7411, Fax:867-872-2171, E-mail:richard\_merceredi@gov.nt.ca  
Notes: DEWB82 - Pre tender meeting on May 16 at 10:30 AM (MDT) at Q.E Park Campsite - Fort Smith - NT

Plans available from: Owner (Public)  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
Additional features: Supply, Equipment, Labor and Materials for electrical power hook up to the new campsites at Q.E Park Campground in Fort Smith  
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ITEM: Plumbing - Heating Services (IQC) SO440695  
201400518114 v1  
**First issue bid stage IND:** Y.  
(SO440695)  
**Action stage:** Bidding  
Site not specified  
FORT SIMPSON, NT (FORT SMITH)  
CAN

**Bid date:** 05/21/2014 @ 03:00 PM MDT  
**Valuation:** F (Est. \$500K - \$749K)  
**Project delivery system:** Design-Bid-Build  
**Target start date:** 06/01/2014

**Owner class:** State  
Project type: Office.  
Report type: ITEM Only  
Sub project count: 0  
First publish date: 05/08/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Item: ALTERATION.  
Item Code: Elec Work. Heating Sys. Plumbing Work.  
Item Category: ELECTRICAL.  
HVAC/DUCTWORK. PLUMBING/FIRE PROTECTION.  
Status: Bids to Owner May 21 at 3:00 PM (MDT)  
Status project delivery system: Design-Bid-Build  
Publish date: 05/08/2014  
Submit bids to: Owner (Public)  
Architect: **Government of Northwest Territories**, Contracts Administrator PSS (Procurement Services), 5015 - 44 St YELLOWKNIFE, NT X1A 2L9 (CAN), Phone:867-873-7662, Fax:867-873-0257, E-mail:pwstenders@gov.nt.ca, URL:http://www.contractregistry.nt.ca/Public/ListProc  
Internet Addr : http://www.contractregistry.nt.ca/Public/ListProc

Owner (Public): **Government of Northwest Territories**, Contracts Administrator PSS (Procurement Services), 5015 - 44 St YELLOWKNIFE, NT X1A 2L9 (CAN), Phone:867-873-7662, Fax:867-873-0257, E-mail:pwstenders@gov.nt.ca, URL:http://www.contractregistry.nt.ca/Public/ListProc  
Internet Addr : http://www.contractregistry.nt.ca/Public/ListProc  
Notes: DEWB86  
Plans available from: Owner (Public)  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
Items: Plumbing and Heating Services on an As & When required basis  
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ITEM: Flooring Replacement (Jonah Amitnaaq School) C1230171  
201400516541 v1  
**First issue bid stage IND:** Y.  
(C1230171)

**Action stage:** Bidding  
Jonah Amitnaaq School  
BAKER LAKE, NU (NUNAVUT)  
X0C 0A0 CAN  
**Bid date:** 05/07/2014 @ 04:00 PM CDT  
**Valuation:** C (Est. \$200K - \$299K)  
**Project delivery system:** Design-Bid-Build  
**Owner class:** State  
Project type: Middle/Senior High School.  
Report type: ITEM Only  
Sub project count: 0  
First publish date: 05/06/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Item: ALTERATION.  
Item Code: Flrg Work-Finshd. Flrg Work-Mrl,Terr,Quary,Tile.  
Item Category: FINISHED FLOORING.  
TILE/MARBLE/TERRAZZO.  
Status: Phase I Bids to Owner May 7 at 4:00

PM (CDT) and Phase II Bids to Owner May 8 at 4:00 PM (CDT)  
Status project delivery system: Design-Bid-Build  
Publish date: 05/06/2014  
Submit bids to: Owner (Public)  
Engineer: **Government of Nunavut**, Enamul Haque Dept. of Community & Govt Svs P.O. Box 490 RANKIN INLET, NU X0C 0G0 (CAN), Phone:867-645-8184, Fax:867-645-8196, E-mail:cmercer@gov.nu.ca, URL:http://www.nunavuttenders.ca/  
Internet Addr : http://www.nunavuttenders.ca/  
Owner (Public): **Government of Nunavut**, Charmaine Mercer (Contracts Coord.), Dept. of Community & Govt Svs P.O. Box 490 RANKIN INLET, NU X0C 0G0 (CAN), Phone:867-645-8184, Fax:867-645-8196, E-mail:cmercer@gov.nu.ca, URL:http://www.nunavuttenders.ca/  
Notes: DEWB50  
Plans available from: Owner (Public)  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
Items: JONAH AMITNAAQ SCHOOL FLOORING REPLACEMENT  
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## ONTARIO

Orillia Secondary School Replacement  
200900599257 v5  
**Action stage:** Construction Documents  
\* 250 Collegiate Drive, (233 Park St/2 Borland St E)  
Orillia, ON (SIMCOE)  
\* L3V 7S5 CAN  
**Bid date:** 05/15/2014 @ 12:00 AM EDT  
**Valuation:** \$ 30,400,000  
**Project delivery system:** Design-Bid-Build  
**Target start date:** 06/01/2014  
**Owner class:** State  
Project type: Middle/Senior High School. Landscaping.  
Report type: Project  
Sub project count: 0  
First publish date: 07/16/2009  
Prior publish date: 05/02/2014  
Publisher: McGraw-Hill Construction Dodge  
Type of Work: New Project  
Status: Tender to be released within 7-10 days - Construction to start Summer 2014  
Status project delivery system: Design-Bid-Build  
Publish date: 05/07/2014  
Submit bids to: Owner (Public)  
Architect: **Moffet & Duncan Architects Inc.**, Gilles Bedard (Architect), 5052 Dundas Street West Toronto, ON M9A 1B9 (CAN), Phone:416-239-2775, Fax:416-239-6729, E-mail:gbedard@mdarch.ca, URL:http://www.mdarch.ca  
Email ID : gbedard@mdarch.ca Internet Addr : http://www.mdarch.ca  
Electrical Engineer: **DEI & Associates Inc.**, 40 Durward Place WATERLOO, ON N2L 4E4 (CAN), Phone:519-725-3555, Fax:519-725-2515, E-mail:dei@deiasociates.ca  
Landscape Architect: **Fleisher Ridout Partnership Inc.**, 1 Atlantic Avenue Suite 207 Toronto, ON M6K 3E7 (CAN), Phone:416-533-4990, Fax:416-533-6884, E-

Estimate codes: B: \$100,000-\$199,999; C: \$200,000-\$299,999; D: \$300,000-\$399,999; E: \$400,000-\$499,999; F: \$500,000-\$749,999; G: \$750,000-\$999,999; H: \$1,000,000-\$2,999,999; I: \$3,000,000-\$4,999,999; J: \$5,000,000-\$9,999,999; K: \$10,000,000-\$14,999,999; L: \$15,000,000-\$24,999,999; M: \$25,000,000-\$49,999,999; N: \$50,000,000-No Maximum

# McGraw Hill CONSTRUCTION Dodge

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## Dodge upcoming project reports

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mail:info@frpinc.ca, URL:http://www.frpinc.ca/  
Mechanical Engineer: **DEI & Associates Inc.**, 40 Durward Place WATERLOO, ON N2L 4E4 (CAN) , Phone:519-725-3555, Fax:519-725-2515, E-mail:dei@deiasociates.ca  
Owner (Public): **Simcoe County District School Board**, Dave Few - Manager (Property&Planning), 1170 Highway #26 West MIDHURST, ON L0L 1X0 (CAN) , Phone:705-734-6363, Fax:705-728-2265, E-mail:sclee@scdsb.on.ca, URL:http://www.scdsb.on.ca/  
Extension:11218  
Structural Engineer: **Ravens Engineering Inc.**, 2171 Avenue Road TORONTO, ON M5M 4B4 (CAN) , Phone:416-782-1644, Fax:416-782-2526, E-mail:office@ravensengineering.com, URL:http://ravensengineering.com/  
Notes: CRCN07 - Plans & Specifications are currently being acquired and will be available as soon as possible - This project also appeared under DR 201200642267. That report has been removed from our database. All further information on this project will appear under this report number.  
Plans available from: Owner (Public)  
Addenda IND: N  
Plan IND: N  
Spec IND: N  
Plan available IND: N  
Structural information: 1 Building/ 2 Stories above grade / 0 Story below grade / 13,935 Total square meter  
Additional features: Construction of a new two Storey school building, approx. 150,000 sq. ft., including but not limited to the site work, hard and soft landscaping  
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RFQ/GC: Countryside Drive Widening  
2014040  
201400525293 v1

**First issue bid stage IND:Y.**  
(2014040)

**Action stage:** Bidding, Construction Documents  
AIRPORT ROAD TO GOREWAY  
BRAMPTON, ON (PEEL)  
CAN

**Bid date:** 05/28/2014 @ 02:00 PM EDT  
**Valuation:** F (Est. \$500K - \$749K)

**Project delivery system:** Design-Bid-Build  
**Owner class:** Local Government

Project type: Paving.

Report type: Project

Sub project count: 0

First publish date: 05/15/2014

Publisher: McGraw-Hill Construction Dodge  
Type of Work: Alterations

Status: Owner requests Pre-qualifications from General Contractors by May 28 at 2:00 PM (EDT)

Status project delivery system: Design-Bid-Build

Publish date: 05/15/2014

Submit bids to: Owner (Public)

Engineer: **City of Brampton Purchasing Management Division**, Purchasing Agent (Purchasing), 2 Wellington Street West 2nd Floor BRAMPTON, ON L6Y 4R2 (CAN) ,

Phone:905-874-2260, Fax:905-874-2299, E-mail:purchasing@brampton.ca, URL:http://www.brampton.ca/  
Owner (Public): **City of Brampton Purchasing Management Division**, Purchasing Agent (Purchasing), 2 Wellington Street West 2nd Floor BRAMPTON, ON L6Y 4R2 (CAN) , Phone:905-874-2260, Fax:905-874-2299, E-mail:purchasing@brampton.ca, URL:http://www.brampton.ca/  
Notes: DEWB86

Plans available from: Owner (Public)

Addenda IND: N

Plan IND: N

Spec IND: N

Plan available IND: N

Additional features: PREQUALIFICATION OF GENERAL CONTRACTORS FOR COUNTRYSIDE DRIVE WIDENING FROM AIRPORT ROAD TO GOREWAY  
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\*Lunar Light Solar Generating Facility  
201100448613 v3

\* **Action stage:** \*Construction Documents  
Site to be determined  
BELLEVILLE, ON (PRINCE EDWARD)  
CAN

**Bid date:** \* **Valuation:** \$ 50,000,000

**Project delivery system:** Design-Bid-Build

**Owner class:** Private

Project type: Power Plant (Other).

Report type: Project

Sub project count: 0

First publish date: 03/09/2011

Prior publish date: 08/29/2012

Publisher: McGraw-Hill Construction Dodge

Type of Work: New Project

Status: Approvals in place - Advancement pending Owner - Construction target July

2014 - 8 to 10 months completion time

Status project delivery system: Design-Bid-Build

Publish date: 05/05/2014

Architect: **Canadian Solar Solutions Inc.**, Mark Feenstra (Proj Mgr), 545 Speedvale Ave West GUELPH, ON N1K 1E6 (CAN) ,

Phone:519-837-1881, Fax:519-837-2550, E-mail:Mark.Feenstra@na.canadiansolar.com, URL:http://www.canadian-solar.ca

Email ID :

Mark.Feenstra@na.canadiansolar.com

Internet Addr : http://www.canadian-solar.ca

Project Partner - Managing Partner

Owner (Private): **Canadian Solar Solutions Inc.**, Mark Feenstra (Proj Mgr), 545 Speedvale Ave West GUELPH, ON N1K 1E6 (CAN) ,

Phone:519-837-1881, Fax:519-837-2550, E-mail:Mark.Feenstra@na.canadiansolar.com, URL:http://www.canadian-solar.ca

Email ID :

Mark.Feenstra@na.canadiansolar.com

Internet Addr : http://www.canadian-solar.ca

Project Partner - Managing Partner

Owner-Builder/Developer(Private): **Sky-Power Corp.**, Grace Pasceri (Planning & Implementation), 250 Yonge St 16th Floor Suite 1602 Toronto, ON M5B 2L7 (CAN) ,

Phone:416-979-4625, Fax:416-204-1939, E-mail:GraceP@skypower.com, URL:http://www.skypowercorp.com

Email ID : GraceP@skypower.com

Internet

Addr : http://www.skypowercorp.com

Notes: CRCN07

Additional features: 11.5 Megawatts Ground Mounted Solar Photovoltaic Generating Facility - Site Preparation - Foundations & Load Bearing Elements - foundation walls - Electrical Utility Services - Electrical & Communications Structures - Cast in place Concrete - Grounding - Bonding - electrical Identification - Wiring Method - Electrical Power - Transformers - Power Measurement and Control - Transmission & Distribution - high voltage Switching & Protection - Power Distribution Units

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\*Purdy's Mill Subdivision (Master Report)

201100638035 v6

(A) Purdy's Mill Subdivision Building 1

201400456793

(B) Purdy's Mill Subdivision Building 2

201400456794

(C) Purdy's Mill Subdivision Building 3

201400456789

**Action stage:** Construction Documents

999 Purdy's Mill Road

KINGSTON, ON (FRONTENAC)

CAN

**Bid date:** **Valuation:** \*1 ( )

**Owner class:** Private

Project type: Apartments/Condominiums 4+ Stories.

Report type: Project

Sub project count: 3

First publish date: 11/02/2011

Prior publish date: 03/10/2014

Publisher: McGraw-Hill Construction Dodge

Type of Work: New Project

Status: All projects have been broken away - No new information will be reported on this Dodge Report number - Valuation indicates report closeout - Refer to specific Dodge Reports for the project of interest

Publish date: 05/13/2014

Architect: **Alexander Wilson Inc.**, Alexander Wilson (Principal), 103-20 Gore St KINGSTON, ON K7L 2L1 (CAN) ,

Phone:613-545-3744, Fax:613-545-1411, E-mail:design@awarchitect.ca, URL:http://alexanderwilsonarchitectinc.ca/

e-mail awarch@arachnet.net

Owner's Agent (Private): **IBI Group**, John Uliana (Plnr Associate), 650 Dalton Ave Unit 110 Kingston, ON K7M 8N7 (CAN) ,

Phone:613-531-4440, Fax:613-531-7789, E-mail:juliana@ibigroup.com

Owner-Builder/Developer(Private): **Homestead Land Holdings Ltd**, Alf Hendry (CEO), 80 Johnson Street Kingston, ON K7L 1X7 (CAN) ,

Phone:613-546-3146, Fax:613-546-5206, URL:http://www.homestead.ca

Notes: CRCN06

Additional features: Construction of a 3 residential towers ranging from 18 to 20 storeys

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Shopping Center (Pearson Plaza)

201200593787 v6

(A) Site works and Land preparation DR

201300673513

**Action stage:** Construction Documents

40 Hillside Drive South

ELLIOT LAKE, ON (ALGOMA)

P5A CAN

**Bid date:** \* **Valuation:** \*1 (Est. \$3M - \$4.9M)

(A) 3,500,000

**Project delivery system:** Design-Bid-Build

**Target start date:** 01/01/2013

**Target complete date:** 12/01/2013

**Owner class:** Local Government

**Source of funding:** Fed & Prov

Project type: Supermarket/Convenience Store. Regional Shopping Mall.

Sidewalk/Parking Lot. Site Development.

Report type: Project

Sub project count: 1

First publish date: 08/09/2012

Prior publish date: 11/12/2013

Publisher: McGraw-Hill Construction Dodge

Type of Work: New Project

Status: Construction tenders in and under review - Award possible within 1 to 2 weeks - Construction start summer 2014 proposed

Status project delivery system: Design-Bid-Build

Publish date: 05/13/2014

Architect: **Brook McIlroy Inc/Pace Architects**, Rajko Jakovic (Architect), 51 Camden Street Suite 300 Toronto, ON M5V 1V2 (CAN) ,

Phone:416-504-0117, Fax:416-504-7712, E-mail:rjakovic@brookmcilroy.com, URL:http://www.brookmcilroy.com

Owner (Public): **City of Elliot Lake**, L.Sprague (Clerk), 45 Hillside Dr. North Elliot Lake, ON P5A 1X5 (CAN) ,

Phone:705-848-2287, URL:http://www.cityofelliottlake.com

Internet Addr. :

http://www.cityofelliottlake.com

Owner-Builder/Developer(Private): **McCowan & Associates Inc.**, Lee McCowan

1900 West Loop S Ste 885 Houston, TX 77027-3295 (USA) ,

Phone:713-627-0294, Fax:713-627-1163, E-mail:lmccowan@mc-cowanarchitects.org

Project Manager: **Elliot Lake and North Shore Corporation (ELNOS)**, William Elliott (PM), 31 Nova Scotia Walk Suite 306 ELLIOT LAKE, ON P5A 1Y9 (CAN) ,

Phone:705-848-0229, Fax:705-848-1539, E-mail:welliott@elnos.com, URL:http://www.elnos.com

Internet Addr : http://www.elnos.com

Notes: CRCN07 - Associated Site Development DR 201300673513

\*Structural information: 1 Building/ \*3,716

Total square meter / Building Frame: Structural Steel

Additional features: 60000 sq feet retail space plus parking - Foodland - configuration unavailable - area estimated

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Estimate codes: B: \$100,000-\$199,999; C: \$200,000-\$299,999; D: \$300,000-\$399,999; E: \$400,000-\$499,999; F: \$500,000-\$749,999; G: \$750,000-\$999,999; H: \$1,000,000-\$2,999,999; I: \$3,000,000-\$4,999,999; J: \$5,000,000-\$9,999,999; K: \$10,000,000-\$14,999,999; L: \$15,000,000-\$24,999,999; M: 25,000,000-\$49,999,999; N: \$50,000,000-No Maximum

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