Irving Oil’s Home Office Takes Shape
As I’ve stated many times in the past, our primary Mission is to “provide valued construction solutions in the design, manufacture & installation of building components”. While this undertaking delineates how we plan to utilize our assets to fabricate & erect our products, we mustn’t forget that it also includes the associated support services required to perform our mission. These include marketing & sales, estimating & project management, procurement & supply chain management, contract administration & risk assessment, invoicing & collections, transportation logistics & shipping, health & safety, quality assurance, plant & equipment maintenance/upgrades, employee training & development and timely communication & customer feedback. Without these basic services being executed as effectively and efficiently as possible, our customer performance could weaken relative to our competition.

At the same time, as our organization develops in size, reach and complexity, our ability to deliver and maintain the level of service that has made our Group successful becomes more of a challenge. The importance of making the right strategic, organizational changes becomes critical to accommodate growth without deterioration of the support services described. At the OSCO Construction Group, we have implemented and are introducing several new initiatives which allow expansion in size and scale while, from our customer’s perspective, not affecting our primary mission.

One of our most important decisions has been to invest heavily in our information technology (IT) infrastructure. Dramatic changes have taken place since 2000 in microprocessors, data storage & transmission, software programming tools, networking, mobile devices, sensors and application software. As a result, the collection, analysis and distribution of information has changed dramatically. Advances in hardware and software have vastly expanded the speed and scope at which data can be digitized, stored, analyzed and shared. Big, unstructured data repositories can now be used by sophisticated, cognitive, computer algorithms to optimize a company’s machinery, equipment and services; in other words, the entire product delivery system has the potential to be

“Our plan is to utilize our historical information for the benefit of our customers and all of our supply chain partners to make their collective experience with the OSCO Group as valuable, efficient and pleasant as possible.”

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Since breaking ground on the project back on June 6, 2016, much has changed on site at the Irving Oil Home Office Project in Saint John, New Brunswick.

As outlined in our Fall issue of Connections, FCC Construction joined with EllisDon in the spring of 2016, as joint venture partners to manage the construction of Irving Oil’s new Home Office. Designed by B + H Architects, the 317,323 square foot building will be LEED certified and will include 11 floors plus mechanical penthouse.

FCC Construction
Work is continuing to progress well. Both FCC Construction and the EllisDon Corporation bring significant project experience to the table, and have been able to harness the capabilities of the OSCO Group of Companies to keep the project moving along quickly.

The elevator cores have reached level 10. Ocean Steel has completed erection of structural steel and decking to level 6 on the south side of the building and level 3 on the north side.

Placement of concrete slabs is also progressing well with slabs placed to level 6 on the south side of the building. Reinforcing steel and concrete for the slabs are being provided by OSCO Concrete and Ocean Steel Rebar Limited. The placement of slabs provides rigidity to the structure and will allow Strescon to start precast concrete wall panel installation in May.

Aluminum window and limestone installation are scheduled to start shortly after precast. This stage of the project is a critical one. It is very important that the windows, limestone and associated weather barriers and insulation be installed with great attention to detail, to ensure the integrity and longevity of the building envelope. To this end, a full scale mock-up of the building envelope has been completed (pictured below). The mock-up is an exact replica of the corner of the building at the level 11 roof line. This process allowed for the evaluation of the construction details and sequencing, prior to construction of the building. Part of the mock-up was left incomplete, to allow for inspection of the insulation and air vapour barrier applied to the precast backup panels. This process proved to be a valuable one, with many lessons learned that will be applied to

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the building structure. As shown by the limestone mock-up, this building will be of classic character and a centerpiece of architecture in Saint John for years to come.

**Ocean Steel**

Ocean Steel & Construction was hired by the FCC-EllisDon Joint Venture to supply and install 2000+ tons of structural steel and 290,000 sq. ft. of decking on the Irving Oil Home Office project.

Ocean Steel started initial delivery of embeds and anchor bolts on Sept 22, 2016, for placement within the perimeter walls and the 4 concrete cores that will be the future homes for two of four staircases, as well as the elevators.

Primary steel erection commenced on level 1 South on November 21st, and was wrapped up within a couple of weeks. Continuous steel erection however, did not commence until January 19th, 2017. Steel erection is expected to be completed late in the summer of 2017, with the exception of any leave-out steel that can’t be installed until the tower crane and man hoists are removed.

This project has required detailed planning and scheduling due to the variety of tradespeople on site working together at the same time. The Ocean Steel erection crew has worked through these complexities with the other project teams to ensure the steel and decking remained on schedule.

Getting the steel and decking to level 6 on both halves of the building is a key milestone, as this allows the completion of slabs up to level 4, which is required to allow precast panel install to commence. Getting the precast up and going is a huge schedule event, as it will lead into the limestone install scheduled to start this summer.

In addition to the leave-out steel, there are two huge stairs on the East side of the building whose install needs to be coordinated around the removal of the tower crane and man hoist. One of the stairs will become an architectural feature for the project, and as such, Ocean Steel is working closely with FCC EllisDon to ensure the coordination of proper logistics and scheduling for this complex activity.

**Strescon**

Strescon Limited has been contracted by the FCC-EllisDon Joint Venture to provide both Architectural and Structural Precast concrete components for the Home Office. Strescon’s team includes **Alex Linero** (Project Manager), **Josh Armstrong** (Project Engineer) and **Angela Hickie** (Lead Detailer) who are responsible for overseeing a scope of work that includes the supply and installation of 721 precast pieces.

Strescon’s primary scope is to provide 675 (74,768 sq.ft.) of structural precast panels which will support the
hand laid limestone façade. The limestone will be hung off the exterior face of the precast, using galvanized steel clip supports. As many of the precast pieces are prestressed, load bearing spandrels, Strescon’s team worked closely with the construction team to co-ordinate the acceptable locations of the clip supports. Working around pre-stressing strands, critical bar reinforcing, and the precast connection hardware provide some limitations, but the team was able to find solutions for all attachment conditions. At the mechanical penthouse level, hand laid limestone is not required, so Strescon will be supplying architectural cornice spandrels, and infill panels with a concrete finish to simulate the limestone below. A total of 46 pieces (4,770 sq.ft.) will be provided for this area.

Fabrication of the precast panels began in late February 2017, and will be complete by mid May 2017. Strescon and FCC-EllisDon J.V. are currently preparing for erection of the precast which will begin in May 2017.

Ocean Steel Rebar

Ocean Steel Rebar Limited has currently completed the following elements for the Home Office project:

**October and November:**
- foundation footings and walls up to Level 1
- South Core and North Core Level 1.

**December:**
- South Stair Core Levels 3 to 5
- South Elevator Core Level 1.

**January:**
- South Stair Core Levels 6 and 7
- South Elevator Core Levels 4 to 6
- North Elevator Core Levels 2 and 3.

**February:**
- South Elevator Core Levels 6 to 9
- South Stair Core 7 to 9
- North Elevator Core Levels 3 and 4
- North Stair Core Levels 2 and 3.

**March:**
- North Elevator Core Levels 4 to 6
- North Stair Core Levels 4 to 6
- South Elevator Core Levels 9 to 11
- South Stair Core Levels 9 to 11.

To date, Ocean Steel Rebar has supplied 325 tons of reinforcing steel, 80,000 square feet of mesh, and over 2900 mechanical couplers.

OSCO Concrete

OSCO Concrete NB Limited has been supplying concrete to FCC-EllisDon for the Irving Oil Home Office Project since August 2016. OSCO has been placing concrete all winter, using cold weather accelerators in the mix to obtain strength at a faster rate than normal, allowing the project to move along despite the winter conditions.

The total project was estimated at about 8000 cubic metres. To date: the center core is well established; the foundation is mostly complete; and a variety of slabs have started. The project will continue through 2017 and into 2018 with approximately 3000 cubic metres left to supply.

Stay tuned to future issues for updates on this exciting project!
New Hampshire Women’s Correctional Facility

contributed by: Gerald Kirkwood Grassby

Decades after the State of New Hampshire was ordered to provide female inmates the same services as their male counterparts, construction is currently in progress on the new Women’s Correctional Facility in Concord, New Hampshire. Without a suitable facility for female prisoners, the State of New Hampshire faced a costly lawsuit that threatened its bond rating.

The new $50 million, 100,000 sf-plus facility will incorporate four buildings, including areas for health services, programming and education, visitation, industries, and housing. There will also be two stand-alone general population housing units and one minimum security housing unit. One of the general housing units will provide services for inmates with mental health and substance abuse needs.

The prison area will encompass 224 beds with future expandable space to incorporate an additional 350 beds.

The new facility was designed by SMRT Architects and Engineers, of Portland, ME, while Gilbane Building Company is serving as Construction Manager on the project.

Founded in 1873, Gilbane Building Company is one of the oldest family-owned design and build companies in the U.S. and is recognized as a leader in the industry. Headquartered in Providence, Rhode Island, Gilbane was ranked #3 for correctional facilities builders in the U.S., by Engineering News Record in 2012. It has consistently ranked as one of the top 5 correctional facilities contractors in the US by Engineering News Record since 2008.

Strescon Limited recently teamed up with Gilbane for the first time, to supply and erect precast insulated CarbonCast® wall panels for this project.

This past April, Strescon finished installing 226 precast components, including 198 CarbonCast insulated wall panels, on schedule. It was great to team up with a large customer like Gilbane, who is such a major player in the building construction market in New England and throughout the United States.

The project was many years in the making; going through countless design, estimating and budget processes for the State of New Hampshire. Strescon worked alongside Gilbane for 3-4 years, providing all
types of cost analysis and design criteria for the precast insulated wall panel system. The project was finally awarded to Strescon in early 2016, after many rounds of competitive bidding processes.

The project was always slated to use precast wall panels for the exterior wall system, along with a series of solid load-bearing walls which would create closure walls for the gymnasium. Extensive coordination on the panel fabrication and installation made this a successful project for all who were involved.

Installation was challenging on the East elevation of the facility in particular, due to lack of clear, level site access. The solution was to utilize a 300-ton crane to erect panels along the face, before switching over to a smaller hydraulic crane for installing all the other elevations.

**Jack Wilson**, Strescon’s Construction Manager, alongside our erector, American steel and Precast Erectors, played a vital role in both the coordination of tasks on site, as well as the scheduling of precast deliveries. Many carefully scheduled crane mobilizations were needed to allow the facility to be constructed in zones before being enveloped with Strescon’s precast panels on the exterior.

Strescon is looking forward to teaming up with Gilbane again in the future, on more successful projects like this one.
Mount Holyoke College

located in South Hadley, MA, Mount Holyoke College is a highly selective, nondenominational, residential, research liberal arts college for women. Founded in 1837, nearly a century before women gained the right to vote, Mount Holyoke is now renowned for educating women leaders, from medical pioneers to Pulitzer Prize–winning playwrights.

Mount Holyoke is currently carrying out a $50 million expansion of its campus center that will consolidate student dining in a central location. The 34,000 square-foot addition of a Dining and Community Center will create a community dining experience with seating for 1,000. Shawmut Design & Construction is the Construction Manager for the project.

Ocean Steel & Construction supplied and installed 240 tons of Structural Steel, 127 joists & 53,000 sf of metal decking. Fabrication was performed at our Fredericton, NB facility. The project was increasingly complex, due to the intricate arches and slopes in the roof system, which required elliptical rolled members.

Ocean Steel’s subcontractor, Bouchard Steel Erectors, began erection of the dining hall addition in January 2017 and completed the work in March 2017. Ongoing renovation work in the Existing Blanchard Hall and Loading Dock is scheduled for this summer. The college website estimates substantial project completion by April, 2018.
Dalhousie University IDEA Buildings

Allstar Rebar is currently working on the Dalhousie University IDEA Buildings for J.W Lindsay Construction, in Halifax, NS. The project will require 374.87 tons of rebar and 46,560 square feet of wired mesh.

The “IDEA” acronym stands for “Innovation and Design in Engineering & Architecture” the IDEA Project is a massive $64-million investment in Dal’s downtown Sexton Campus, which includes two new academic buildings, totaling 86,000 sq. feet; the “Innovation” building and the “Design” building. The focus is to provide modern space for students to learn the art of design through hands-on experience, and increase interaction and collaboration between students in the Faculties of Engineering, and Architecture & Planning.

The two structures are being built to the left and right of an existing building, which can make it difficult at times to offload deliveries, as they can’t crane over the existing building. The Innovation Building is adjacent to C and C1 Buildings, and the Design Building is on Morris Street. To better organize Allstar’s deliveries, we use colored tags (blue & white) to designate rebar for each location.

Allstar Rebar began working on this project in January 2017 and is expected to be finished by April 30th, 2018.
New Brunswick Centre for Precision Medicine

The Université de Moncton is Canada’s largest French-language university outside Québec. The university’s three campuses are located in New Brunswick’s francophone regions at Edmundston, Shippagan and Moncton. In August of 2016, the University announced the construction of a new research facility; the New Brunswick Centre for Precision Medicine (NBCPM). The Canadian and New Brunswick governments are investing $10.5 million and $5.25 million respectively, while the University of Moncton and other partners are contributing an additional $10.7 million on the $26.45 million project.

The Center is being built next to the Dr. Georges-L.-Dumont University Hospital Centre. It will be a five story, 40,000 square foot building with the capacity to house approximately 160 researchers. The NBCPM will focus on cutting edge biomedical, genomic, and population health research by developing new diagnostic tools & therapeutic techniques that are patient specific, based on their unique molecular biomarkers and what options would be most effective for that person.

The NBCPM will be New Brunswick’s first multi disciplinary health research center situated inside a clinical setting. It is expected that this center will attract researchers from all over the world, thus also increasing research funding, publications, and the number of U de M students that can be trained and find career opportunities within New Brunswick. Projected completion of the building is spring 2018.

Precast Pipe: Strescon Limited’s Concrete Pipe Division worked with Carter Excavating & Acadian Construction on this job, to relocate the municipal services (sanitary, storm and water) around the perimeter of the new building. This required: a large diameter “doghouse manhole” to sit over the existing live combined sewer; a bend manhole structure; a Stormceptor storm water treatment device; and related piping.

This was a challenging project for everyone involved. The existing combined (sanitary and storm sewer in one pipe) sewer was an inverted teardrop brick conduit, which had been in place for over a hundred years (below left). The challenge for the designer was not having exact measurements for wall thicknesses, or exact flow rates prior to excavating. The challenge for the contractor was dealing with the constant flow. Even during dry weather, there was always about 6” to 8” of flow in the bottom of the pipe. Finally... this was challenging for Strescon, to make manhole structures to fit a “best guess” at the size and configuration of the piping.

Adding to the challenges for all, the speed required for this project meant that the final design was not completed at bid time, so quite a few assumptions had to be made. Strescon worked with Carter excavating, Acadian Construction & Stantec to come up with the “least cost” design & started making the manholes on January 24th. The first one (14’-2” wide) shipped to the site on January 31st.

Delivery & installation of the manholes over this constantly running pipe had to be carefully coordinated with the installation contractor. As mentioned, during dry weather, there was always flow in the conduit. During wet weather, the 48” diameter pipe was running at full capacity. Installation therefore had to take place during a time of no rain or melting; and on a weekend, when the traffic was low enough to shut down the street.

Strescon worked with the contractor to ensure a smooth delivery and everything went well. Considering, we only had a “best guess” of the shape of the existing pipe, we were happy to hear from Wallace Carter “That doghouse fit over the existing line perfectly and I could not have asked for anything better”.

Carter Excavating & Acadian construction have a long successful history with the OSCO Group of companies, and this project is just one more to add to the book.

Rebar: Ocean Steel Rebar is also currently working on Phase 1 of the NBPCM, for Acadian Construction (1991) Ltée. Ocean Steel Rebar started installing rebar in February 2017 and will provide a total of 32.40 tons of reinforcing steel for the project.

Ready-Mix: OSCO Concrete’s Moncton, NB plant also participated on this project, supplying a total of 440 m3 of 25 MPa concrete to Acadian Construction to date, with an estimated total of approximately 500 m3 for Phase I (foundation work only). Work started late fall of 2016, and the first pour was first week of January.
This was a challenging project for everyone involved. The existing combined (sanitary and storm sewer in one pipe) sewer was an inverted teardrop brick conduit, which had been in place for over a hundred years.
THE PARKS
OF WEST BEDFORD

contributed by: Dave Marcattili

Nestled in the highly sought after area of Kearney Lake, in the Bedford suburbs of Halifax, NS, are the Parks of West Bedford. A development by West Bedford Holdings; a company formed as a partnership between two of Atlantic Canada’s largest developers; Clayton Developments, a division of Shaw, and Cresco Homes.

The Parks is a huge undertaking that involves the development of 1500 hectares of land with a planned build-out of 10 to 15 years. The development encompasses all types of living needs: from single family homes; to townhomes; to large multi-residential buildings; to restaurants and shopping; all within walking distance of each other. With an expected 20,000 residents and a $1.5 billion cost, West Bedford Holdings has also managed to set aside 375 hectares of green space for residence to enjoy.

OSCO Concrete and its partner customers have enjoyed a steady flow of business as a result of the development. Superior Foundations, Harbour Foundation and Stevie-Crete Foundation are just a few examples of customers who, over the last 3 years, have regularly worked on single dwelling homes and townhomes throughout Park West.

Along with the residential work, the local construction industry has benefited from a number of multi-story residential building in the area. OSCO has been able to supply concrete and pumping services to a number of these projects also, including: The Ravines I and II with a combined 300 units; Mythos Developments’ 11 story 150 unit concrete structure; and the 72 unit, 200 on Broad, built by South Ridge Construction.

In 3 short years West Bedford Holdings and its partner builders have developed well over 1/3 of the 1500 hectares and in doing so have been a big part of keeping the Halifax economy rolling. They have also managed to develop one of the most sought after residential areas in Halifax, with brisk homes sells and low vacancy rates.

Photos taken by Dave Marcattili from the 7th floor of the Myths Development building.
As North America looks to a new dawn following the economic downturn which began in 2007, it is very clear that communities suffered in a variety of ways. As prices escalated and demand for products and services declined, businesses failed and people lost their jobs. The housing market crashed, as foreclosures boomed. Tax-bases were decimated, putting extreme stress on communities and public officials to tighten up their respective operations.

At this stage, people were fortunate to stay warm and feed their families. New infrastructure construction and maintenance programs were limited to high priority projects only. Daily news reports told of highway and bridge failures from poorly maintained infrastructure, but it was neglect born out necessity; necessity to survive! Regardless of the economic uncertainty, the clock is still ticking while infrastructure is aging and failing at alarming rates. The demand for repairs and replacement has never been higher.

Strescon is certainly vulnerable to the ebb and flow of the economy, but it has strived to stay the course through the decades, by providing time-tested, consistent and quality products and services. Regardless of shifts in the economic conditions, or the entrance or exit of competitors... Strescon has always maintained a steady and resolved approach to working in the communities in which it resides, and to the clients it considers to be not only partners, but friends.

As Strescon modernized its facilities and systems over the years, it has always strived to effectively manage its capacity while maximizing production opportunities. Strescon’s VP & General Manager, Don Isnor, will tell you the first day on the job, that “Budgets drive everything!” For me, that was 15 years ago and I remember the lessons expressed to me then, as much as today.

Out of that, we have always sought to utilize all available tools to evaluate opportunities coming as far in the future as possible; sometimes by several years. We work hard to get involved in designing projects as early as possible, so that we can assist project owners with efficient and effective value-added design and engineering ideas, while providing them with valuable financial and quality returns.

One of the largest challenges with construction in our region is the seasonality challenges associated with winter and mud... because yes, mud is a season! We have small windows of opportunity to work “in-stream” because of

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projects

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wetland and wildlife mitigation concerns. So how do we level out this challenge? We simply work diligently to partner with our clients and provide solutions.

One such example was with Maine Department of Transportation (MDOT) during the past year. MDOT had multiple projects requiring attention. They had ordered an unprecedented amount of large diameter pipe, which would need to be constructed and installed in limited time frames. As with any producer, arranging production windows to coincide with delivery and installation windows can provide challenges. By sitting down and discussing scheduling options with Strescon’s Pipe Manager, Gaetan Vaillancourt, it was determined that a pre-ordering program was the appropriate tool to assist our customers with insuring that their products were available when needed. This, in turn, makes Strescon better able to manage its team members through historically or seasonally soft periods.

As a result, MDOT was able to order multiple units of 96” and 120” diameter reinforced concrete pipe, nearly a year in advance of its expected installation schedule. This not only ensured the pipe was available when needed, but saved them money by purchasing at times when steel, energy prices and currency options were favourable.

Strescon strives to manage its manufacturing variables like no other; going the extra mile to help its customers move forward in their successful operations. In doing so, Strescon can continue to solidify its leadership role in the many markets it serves.

As a new era evolves, Strescon is not only eager to get out and work with its current clients, but is equally interested in meeting new friends and solving new dilemmas. How can we help you with your challenges?

Harnessing the Tides

contributed by: Dave Dunnett P.Eng.

This past fall, OSCO Concrete’s Saint John Ready Mix plant worked with a company called Open Hydro, who is commissioning 2 tidal power generators to be located in Nova Scotia. One was filled with concrete ballast in the Port of Saint John, Pugsley wharf terminal C on the west side of Saint John. The other will proceed once the first unit has proven viable.

This was a job that OSCO secured with the help of Dave Marcattili in Halifax. The tidal barges were originally contracted to be filled with concrete in Halifax, but the job was transferred to Saint John. The project involves pumping 260m³ of high slump lean concrete into the ballast tubes below the water line. An additional 130m³ are then pumped at a later date, to fine tune the ballast to the appropriate weight and level. The 260m³ was placed in 12 hours into 11 different compartments. OSCO Concrete’s Quality Control Technician, Justin MacLean, came from Halifax to assist with coordination between the site and the batch plant and to monitor the consistency of the mix.

The second 130m³ pour took place about a week later. If all goes well, there may be a second turbine to fill later in 2017.
Anheuser-Busch Expansion

contributed by Jeff Keith

Anheuser-Busch Companies, LLC is a brewing company based in St. Louis, Missouri USA and headquartered in Leuven, Belgium. It has been a wholly owned subsidiary of Anheuser-Busch InBev since 2008. The largest beer producer in the world, Anheuser-Busch InBev employs over 30,000 people and operates 12 breweries in the United States.

One of those breweries has been operating in Merrimack, New Hampshire since 1970 and produces such brands as Budweiser, Busch and Michelob, among many others. Merrimack ships approximately 100 trucks a day, serving Maine, Vermont, New Hampshire, Massachusetts, Connecticut and Rhode Island. The brewery began a large, 2-phase expansion in 2016. They are currently in the process of adding a new Fermentation Cellar which includes a Unitank Building, as well as an Annex Building Super Structure and Stair Tower.

Ocean Steel Corporation was contracted by the Construction Manager for the project, Harvey Construction, to supply and install the structural steel, metal decking, joists, grating & checker plate. This was OSCO’s first time working with Harvey.

Ocean Steel supplied 476 tons of Structural Steel, 3300 sf of grating, 15000 sf of decking & 77 joists.

Drawing Preparation began in May, 2016 and was performed in-house by OSCO Engineering and OSCO Detailing. Installation was subcontracted to American Steel & Precast Erectors who, in addition to the above installation, performed two critical picks installing 18 ton pipe modules for the project. Steel erection began in October 2016 and was completed this past March.
In July of 2016, Port Saint John announced a seven-year, $205 million Port Modernization Project. The Project is being funded by a three-way partnership between the Government of Canada, the Government of New Brunswick and Port Saint John with each partner contributing one-third. The goal is to expand Port Saint John’s vessel and handling capabilities by increasing channel depth, alongside terminal depth, berth length, loading bearing capacity, and container storage areas.

**Rebar:** Ocean Steel Rebar recently completed the supply & install of reinforcing steel for Alternative Concrete Technologies Ltd at Port Saint John’s Rodney Terminal. Work began in October 2016 and saw Ocean Steel Rebar provide a total of 90.31 tons of rebar for approximately 301.5 linear meters of topping slab around the East and West Crane Rails. This portion of the terminal’s topping slab around the crane rails was replaced with heavier reinforcement in part due to the larger gantry cranes recently purchased by the Port. This rehabilitation of the deck has also increased the load bearing capacity from 250 lbs/ft² to 2000 lbs/ft².

The topping slab was replaced in six phases; three for the East Crane Rail completed in November and the West Crane Rail was completed in January.

This work represents only a small portion of the rehabilitation improvements planned for Rodney Terminal.

**ReadyMix:** OSCO Concrete’s Saint John Plant also participated on this project, pouring concrete for the new crane rail foundations. The project is being supplied to John Flood And Sons Construction.

OSCO has been supplying the project intermittently for over the past 5 months and is now nearing completion. To date we have supplied approximately 260 cubic metres of a 50 Mpa accelerated concrete for winter conditions.
The University of New Brunswick is undertaking a $36 million dollar capital project at its Fredericton, NB campus which will see the addition of a three storey, 60,000 sqft building joined to the west side of the Richard J. Currie Center, to be known as the Center for Healthy Living. This expansion allows for applied research in the Preventative Health Care field, and will allow researchers to focus on health, wellness, physical fitness, health promotion, and the prevention of chronic diseases such as diabetes and obesity.

Ocean Steel Rebar began work in March 2017 for general contractor Bird Construction, providing 300 tons of reinforcing steel and 27,000 square feet of wire mesh. Because this building is situated on a steep hillside, a challenge in this project will be the installation of a complex retaining wall on the MacKay Drive side of the building (see photo top right).

The retaining wall is approximately 8.7 meters tall and 139 meters long. The height of this retaining wall means it is heavily reinforced; this alone provides a challenge when placing large bars, especially closely placed ties. Bird Construction felt that Ocean Steel Rebar’s previous experience with similar retaining walls made them the ideal choice for this project. Their placing team from Iron Workers Local 842, Placing Manager, Trevor Taber, and Project Manager Josh Fowler will work hard to ensure a safe, accurate, on time placement of reinforcing steel for our customer.

Ocean Steel Rebar expects to complete their portion of work this summer, with the building scheduled to open by Spring 2018. The Currie Center and the Healthy Living Building will replace the aging Lady Beaverbrook Gym which is scheduled for decommissioning in the Fall of 2018.

contributed by: Kim Doggett
FCC Projects Group at Irving Refinery

contributed by David Safford & Rick Williston P.Eng. GSC

FCC Construction and the OSCO Construction Group have a long and proud history of work at the Irving Oil Refinery. FCC currently has a Facility Maintenance Operation on site at the Refinery, consisting of 29 workers. Part of this operation includes a "Projects Group", which consists of 1 supervisor, 4 carpenters and one labourer, who carry out a variety of projects at the refinery and at other Irving Oil facilities. The Crew that makes up the Projects Group is Joel McLaughlin, Nick Brown, Kurtis Fanjoy, Chase Larsen and Albert Doyle. The group is supervised by Duane Buchanan along with Maintenance Manager Dave Safford.

The types of projects undertaken by the projects group include: interior and

Shipping container recycling has become a hot topic these days, with conversions including everything from hipster pop-up shops, to multi-residential buildings, to tiny homes. The containers used for the Refinery projects are known as "one way" containers. They come from overseas to the Maritimes provinces, and then are sold off. They are often just used for storage. The first idea to convert one was for the Radio Tower Equipment Shelter, and was considered initially as a cost saving, and time saving, measure. The result of the first conversion was very positive, the other conversions have spawned from this.
exterior building renovations; concrete work; custom cabinets; custom furniture; fences; storage facilities; etc. Some recent projects that have been completed by the group are the custom conversions of shipping containers into various facilities, some examples are:

**Blast-Can Renovations:** These facilities house personnel for office space and shop fabrication. They are located in the refinery in areas where blast protection is a requirement. The renovations provided have made these fully functional for all seasons. The renovations included insulation/vapour barrier upgrades and complete new interiors. Two of these renovations have been completed.

**Radio Tower Equipment Shelters:** These conversions were done rather than building new structures. They are completely new fit-ups with heating & air conditioning. These house highly sensitive radio tower equipment. Two of these have been completed.

**VOC Monitor Stations:** These house gas calibration equipment that is monitored 24/7 by the Irving Oil Refinery for environmental purposes. The work included insulation/vapour barrier and interior fit-up with accommodations to hold the equipment. Two of these have been completed.

**Security Turnstile Gate Entrance:** After new full-body turnstiles were installed at Gate 8, the existing turnstiles were reused and installed in a converted shipping container for additional personnel flow during turnaround events. Along with re-installing the turnstiles, the facility had overhead doors installed on both sides, with ramps.

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**Aitken Arena Lighting Upgrade**

contributed by: **Sandi Hansen**

The Aitken University Centre is a multi-purpose facility in Fredericton, NB. Owned and managed by the University of New Brunswick, the Aitken Centre has historically played the role of Municipal Civic Centre for the greater Fredericton area since it opened in 1976.

**FCC** Electrical, through public tender submission, was awarded the contract to replace 56 existing High Intensity Discharge (HID) Light Fixtures suspended 35 feet directly over the Aitken Centre ice surface, with energy efficient LED Light Fixtures, complete with a new network lighting control system to compliment the versatility of the new fixtures.

Due to a multitude of onsite challenges, such as keeping the facility fully operational; minimizing damage to the ice surface; and working at night to accommodate previously scheduled functions, an immense amount of detail had to be put into careful planning, coordination and scheduling, in order to minimize unnecessary conflict. With obstacles identified and solutions developed prior to starting the project, the team was able to focus on the task at hand and complete the project in less than a week.

The FCC Electrical team, led by Electrical Project Manager **Rick Hetherington** and crew of **Tim Schotanus**, **Jeff Sharpe**, **Adam Brochu** and **Justin Acker**, were able to use their skills of cooperation, adaptability and efficiency, to complete this unique project with great success. The Aitken Centre project was completed in August of 2016.

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The work included insulation/vapour barrier and interior fit-up with accommodations to hold the equipment. Two of these have been completed.

**Security Turnstile Gate Entrance:** After new full-body turnstiles were installed at Gate 8, the existing turnstiles were reused and installed in a converted shipping container for additional personnel flow during turnaround events. Along with re-installing the turnstiles, the facility had overhead doors installed on both sides, with ramps.
Saint John Water Project
Showcases OSCO Group Teamwork


Work continues to progress on the construction of Saint John’s Safe Clean Drinking Water Project. There is a very busy schedule of activities planned over the construction season. The current planned scheduled turn over of the Plant is April 2018.

OSCO Group member companies continue to make significant contributions to the construction of the facility. These member companies include:

FCC Civil: Construction Management
Ocean Steel: Administration building structural steel and miscellaneous steel
Ocean Steel Rebar: all reinforcing steel
OSCO Concrete: all ready-mix supply
Strescon: all precast concrete
FCC Electrical: all electrical work for both NAC and FCC Civil scopes of work

FCC Civil
FCC Civil has provided Construction Management along with North American Construction (Morriston, Ontario) for their respective scopes of work.

FCC is responsible to manage:
• Construction of the Administration Building
• Plant architectural elements, including precast enclosure, windows, doors, stairs etc.
• Mechanical systems, including HVAC, potable water, sewer & storm
• Electrical base building work, including interior, exterior and yard lighting, fire alarm, and CCTV
• All earth works, roads, fencing, sewer, storm, and fire water systems.

Strescon
Strescon’s Engineering group was injected early in the process as was necessary, in order to coordinate the many interrelationships with the foundation design and the building envelope.

Strescon Limited will be supplying and installing a total precast solution for the processing area of the new Saint John “Safe Clean Drinking Water” project. Strescon’s team includes Tim MacDonald (Project Manager), Josh Armstrong (Project Engineer) and Angela Hickie (Lead Detailer) who are responsible for overseeing the scope of work which includes the supply and installation of 482 precast pieces.

Precast Components:
• Insulated Wall Panels: 87 Pieces, 20,084 sq.ft.
• Interior Shear Wall Panels: 3 Pieces, 514 sq.ft.
• Architectural Projection Panels: 6 Pieces, 413 sq.ft.

continued on next page...
• **Beams**: 32 Pieces, 910 lin. Ft.
• **Columns**: 36 Pieces, 500 lin. Ft.
• **Hollowcore Plank (12” Deep)**: 318 Pieces, 32,698 sq.ft

Water treatment plants are considered a “Post Disaster Building”; a building that is essential to the provision of services in the event of a disaster; thus require special considerations during the design and development phase. Additionally, due to the nature of the project as a water processing facility, connection design options were extremely limited. This all had to be achieved without causing erection issues in the field for Strescon Atlantic’s crew. Finding a balance between structurally sound designs, economical details and fast/efficient field connections was a challenge that had to be overcome.

Special considerations were also given to both the insulating (R-Value) requirements of the precast system, as well as how the precast system would interact with other trades and their insulating requirements. To achieve continuity of the insulating layers, many of the precast insulated sandwich panels were required to cut back the front face by 4” along the bottom of the pieces. Once installed in the field, the insulation coming up from the foundations could overlap with the insulation within the precast panels. This eliminated our ability to provide direct bearing between the front face and the cast-in-place foundation, thus the panels were designed to use additional rows of C-Grid Carbon Fiber inter-wythe connectors to “hang” the front wythe off the structural back wythe.

Production of the precast components is expected to be complete by May 2017, and erection will begin in June 2017.

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**Ocean Steel**

Ocean Steel, along with the help of Bill Mayberry, Structural Steel Consulting Engineer, were also instrumental in the progression of the Administration Building steel design. They provided a complete Engineered Package for the structural steel. They helped to optimize solutions for a newly designed canopy, and layout of the rooftop screen wall barrier, to assist in the completion of design and fabrication. Steel fabrication was completed in late March, consisting of 30.2 tons of steel for the Administration Building & Canopy; 7.0 tons of steel joists; and 5,300 sq.ft. of steel roof deck.

Installation of structural steel, joist & deck was scheduled to start April 10, 2017 and be completed by early May.

**OSCO Concrete**

OSCO Concrete’s Saint John plant is also currently working on the Saint...
John Water treatment plant being constructed by Port City Water Partners.

OSCO is supplying North American Construction with the bulk of the concrete for the water treatment plant. OSCO has already placed in excess of 4500 cu metres of specialized concrete with an integral waterproofing agent, for the first phase of the project. The concrete pours have been going steadily since August of 2016.

OSCO is scheduled to place another 1000 cu metres before the summer of 2017. We are also supplying FCC Construction with concrete for the Administration Building that will be attached to the facility.

In addition to the water treatment plant itself, OSCO is supplying Gulf Operators at several sites throughout the City, as part of the infrastructure phase of this project. This work has been ongoing for the past 10 months and will continue for the next year.

Ocean Steel Rebar

It has been a busy fall and winter at the Safe Clean Drinking Water Project site.

In October, Ocean Steel Rebar completed the installation of reinforcing steel for the chemical area, pipe gallery, and walls, for a total of 101 tons. In November, work was completed on the equipment slabs and walls, while the primary focus was in the filtration area, for a total of 177 tons installed.

In December, Ocean Steel Rebar installed 66 tons to finish the filtration tank, chlorine contact roof, equipment slabs, and the dissolved air flotation tank base. January was a slower month, with 48 tons of rebar installed in the chemical area, and the raw water inlet shafts.

In February and March, Ocean Steel Rebar worked on the upper walls of the water plant and on the pipe gallery slab, for a total of 139 tons installed.

Ocean Steel Rebar is close to finishing their work on this Project and will be working on the remaining sections of upper walls and the upper slabs in April and May.

Stay tuned to future issues for updates on this exciting project!
The Point is the first mixed-use retail destination of its kind in Boston’s Metro Northwest. Located at the intersection of I-495 (Exit 31) and Route 119 in Littleton, the $110 million project is the region’s only open-air center that combines shops, restaurants, grocery, hotel, and entertainment. The 540,000 square foot center features O’neil Cinemas, Market Basket, Courtyard by Marriott, The Paper Store, Starbucks, Tavern in the Square and several others. The Point is situated in the heart of the I-495 “Think Belt” and serves more than 250,000 high-tech workers at nearby technology companies such as IBM, Red Hat, Juniper Networks, and Cisco.

Strescon Limited was contracted by Hutter Construction Company to supply, install and grout 90 pcs of 8” strescore plank for this project. Strescon was brought on board by Hutter because they knew we could detail and produce plank for the project with a quick turnaround schedule.

The main challenge for this project was the number of mobilization’s our precast erector, M Solberg Enterprises needed to coordinate on site. After each level of plank was placed and grouted, the erector needed to wait until the masons had built cmu support walls to support the next level. In all, a total of 3 separate phases of install and grouting were required. All planks were installed by the middle of April 2017.

The cinema complex at The Point will initially feature 8 state-of-the-art wall-to-wall screens with all-stadium seating. A future phase of development will expand the complex to 12 screens.

For movie-lovers, this theater will provide a second-to-none viewing experience, with 7.1 Dolby Digital Surround Sound, Vivid 4K Digital Projection, the latest 3D viewing technology, closed captioning, and a Dolby Atmos three-dimensional sound system that makes moviegoers feel like they’re completely immersed in the action on screen. The Grand DLX Auditorium will include a 72-foot wide curved screen; the biggest in Boston’s Metro Northwest region, and one of the largest in the United States.

Plus, all auditoriums will be outfitted with all-leather deluxe loungers with arm tables and electronic, fully reclinable foot rests. So sit back and relax while you enjoy new releases!
Strescon Pipe Project Gets Profiled by Stormceptor®

contributed by: Dave Webb

In the Summer of 2016, Strescon was chosen as supplier to Dexter Construction Limited to provide pipe and manholes for the Glooscap Landing Commercial Development. One critical component of the project was the installation of the storm water treatment device, an EOS-750 had been specified by the consultant for the site design, CBCL Limited of Halifax NS. Strescon and Imbrium had worked with CBCL during the design phase of the project to help select a unit that met the designers storm water treatment goals and the owners budget. Given that there was a gas bar planned for the site, a Stormceptor EOS model made sense with its increased storage capacity in case of a fuel spill.

Stormwater research from the US EPA’s NURP studies and more recent global research has demonstrated that gas stations and convenient stores have been classified as hotspots, as they have high potential to contribute significant amounts of hydrocarbons, sediments laden with toxic metals and other pollutants. It has been reported that there are 5 to 10 oil spills reported in Canada each day. Oil and hydrocarbon breakdown compounds are known to interfere with animal metabolic activity and membranes, which is damaging to fish and other ecology. As such, the greatest environmental risks at gas bars are hydrocarbon spills gone uncaptured, and untreated stormwater that allow pollutant-laden sediments deposited in downstream lakes and estuaries.

Glooscap Landing is a multi-phase 11-hectare development located right off the 101 Highway nearby Hantsport, Nova Scotia. Based on the location, once completed, this new commercial site will create employment for roughly 200 people, and will provide more resources and general economic prosperity to Glooscap First Nations and the surrounding communities.

The project’s first phase is roughly 0.5 impervious hectares which picks up stormwater runoff from a multi-pump gas bar island, a convenience store, coffee shop and over 20 parking spaces. Based on the land use and foot traffic, the site will be expecting continual in and out vehicle traffic. From this comes the typical drips and leaks experienced from vehicles, and accidentally when using the pumps at gas bars.

The Glooscap First Nation, owner of the development, has a mission statement as clear as the project’s focus. “Do something today that makes our community more prosperous than it was yesterday, with a core value which resonates throughout the community consistent with the Municipality of the County of Kings... Do no harm (to self, to others, the earth).”

Imbrium Systems, the parent company of the Stormceptor technology, chose the project to highlight the products exceptional treatment capabilities in its online newsletter and website.
Alma Wharf Upgrades
contributed by Sandi Hansen

FCC Electrical has been successful at securing a contract from General Contractor, Dexter Construction, for both phases of the Alma Wharf Extension project in Alma, NB. The wharf is owned by the Federal Government of Canada.

The current construction industry for both public and private tendering has become extremely competitive and saturated by multiple tender submissions. FCC Electrical has drawn upon past experience, a collective team effort, and a shared vision for success, in order to help secure awards.

The Alma Wharf Extension project consists of two separate phases. Phase I consisted of a new extension to the existing wharf. This extension involved the installation of electrical services, including: new LED pole lighting; welding outlets; and shore power connection stations, for use by local marine personnel. The FCC Electrical team was able to work through the complications of extreme weather and a congested work site, all the while maintaining existing electrical services.

Phase II of the project will refurbish the existing wharf, including a new concrete deck. FCC Electrical will be replacing all existing electrical services and lighting to match those installed in the Phase I portion of work. Phase II is currently underway and is scheduled for completion in the Summer of 2017.

The FCC Electrical team, led by Supervisor Jim Johnson and crew of John Arnold, Jeff Sharpe and Geoff Bateman have been working together diligently to insure that this project is completed on schedule. It is the combined determination and effort of each team member that continues to ensure that FCC Electrical remains successful.

To mitigate the environmental impact from the common pollutants washed off this type of site from rain and snow melt, and to provide required sediment and hydrocarbon treatment and storage for the Glooscap Landing phase one development, CBCL Limited selected a Stormceptor EOS. The Stormceptor EOS is an Extended Oil Storage stormwater runoff treatment system, designed to capture and retain hydrocarbons, sediment and debris.

Taking into account the gas bar and convenience store, the Stormceptor EOS unit chosen over other oil grit separator (OGS) units based on its increased hydrocarbon storage capacity and cost efficacy. Additionally, Stormceptor EOS’s ability to capture and retain over 95% free oil without pollutant resuspension during infrequent, large intense storm events like most API separators designed for a limited maximum flow rate, or the use of absorbents made it easy to select. The exceptionally large hydrocarbon storage volume is a key Stormceptor EOS’s value attribute for safe capture and containment of accidental oil, fuel and hydrocarbon spills.

The water quality performance attributes coupled with design flexibility, made it seamless to incorporate the Stormceptor EOS into the site to meet the water quality performance requirements, and help protect the downstream Minas Basin and the Bay of Fundy.
Worcester Polytechnic Institute (WPI) is a private research university in Worcester, Massachusetts, focusing on the instruction and research of technical arts and applied sciences. Founded in 1865, WPI was one of the United States’ first engineering and technology universities and now has 14 academic departments with over 50 undergraduate and graduate degree programs in science, engineering, technology, management, the social sciences, and the humanities and arts, leading to bachelor’s, master’s and PhD degrees.

In October 2014, WPI Alumni launched a fundraising project to help fund the creation of the Foisie Innovation Studio, the future hub of WPI’s distinctive project-based curriculum. A groundbreaking ceremony was held two years later, in September of 2016. The $49 million, 78,000-square-foot facility will provide future generations of students with the physical space in which to immerse themselves in WPI’s distinctive brand of learning. Plans for the building include a variety of academic spaces ranging from high-tech classrooms to an innovation and entrepreneurship center and a global impact lab that will support the “hands-on” aspect of the WPI curriculum. The building will also include a three-floor residence hall with space for 140 students.

Ocean Steel’s Fredericton and Saint John facilities recently combined efforts to complete the fabrication of a structural steel building for the Worcester Polytechnic Institute’s “Foisie Innovation Studio project”. This project consisted of 562 tons of structural steel and composite steel deck, supplied to Shawmut Design and Construction.

Although the project itself is fairly straightforward, the actual footprint of the site is very small and compact, flanked by occupied buildings on either side. This situation makes the erection sequencing critical for the project success.

Ocean Steel is expecting to complete erection in April 2017. The building is scheduled for completion in early Fall of 2018.
For the Marque crews working the Irving Oil refinery in Saint John, 2017 has started off in high gear. Amongst the many projects Marque is working on, the #1 Rheniformer is the largest.

#1 Rheniformer

This project was started in 2015-2016 but the major portion of the work was deferred until 2017. The #1 Rheniformer was in operation until 2015 when it was shut down. The reheater furnaces are being replaced, due to structural damage and the process tube coils reaching the end of their life. The replacement furnaces will be identical to the existing ones, with the major improvements of: the addition of a modern BMS (burner management system); additional heater temperature indications; stack carbon monoxide and methane measurement; and an optimized selection of burners, tube and tube supports, all which have been redesigned to meet the latest API (American Petroleum Institute) standards. These standards enhance the safety of the oil industry operations, assure quality, and help keep costs down, while reducing waste and minimizing confusion. They help speed acceptance and bring products to market quicker.

The Rheniformer first reheater takes the hydrogen/hydrocarbon mixture and reheats it to the optimum temperature so that the desired reactions can take place in the second reactor.

The second reheater performs the same function as the first, ensuring that the same desired reactions can take place in the third reactor.

The first and second reheaters occupy sections of the same single-cell, box type furnace. The first reheater furnace tube coil constitutes the convection and upper radiant section, while the second reheater furnace tube coils are located in the lower radiant section of the firebox.

The fuel burners for both reheaters are wall mounted. They run in longitudinal rows, in three banks on each side of the box shell, and are fired using refinery fuel gas. The firebox has 72 burners (36 per side wall). The top two rows of burners provide heat for the first reheater, while the lower row on each side supplies heat for the second.

Marque’s first task under the Rheniformer project was to install the 35+ main home run instrumentation trunk cables. The concerns with pulling large cables in the cold winter months (damage due to low temps making the cable brittle) were mitigated with the use of heating tents, which pre-heated the cables prior to pulling them in place. The total amount of trunk cables pulled was in excess of 39,000 feet - over 7 miles! These cables ran from the safety manager, which was newly installed by Marque in the North Satellite Building, to the new shutdown and associated junction boxes, located both on and off furnace.

Marque’s crews of electricians are now busy installing the numerous lengths of off tray and cables, as well as terminating the wiring. At the same time, the instrument fitters are installing air and process tubing to the instruments.
Having 72 burners creates quite a maze of cabling and tubing. Careful coordination is required with the other trades such as pipefitters, boilermakers and insulators, to ensure a productive and safe work flow is maintained.

for the project. The instrument crew has also installed 12 air sub header manifolds to provide the air to the end users. Each burner requires several cables to control stations, as well as a number of air connections. Having 72 burners creates quite a maze of cabling and tubing. Careful coordination is required with the other trades such as pipefitters, boilermakers and insulators, to ensure a productive and safe work flow is maintained.

Marque has also been working on a number of smaller, but no less important projects around the refinery, such as Mass Notification, Methanator, Fuel Gas Lines and Boiler Plant Lighting, to name a few.

Mass Notification
The Mass Notification system is to alert refinery staff of an emergency if one arises. The existing system was an out-of-date air horn system, that could not be heard in all locations of the refinery. The updated system can deliver both alarm and voice messaging, directing personnel as required in any situation. The speaker system is completely electronic, with battery back-up. For Marque, the project involved the installation of sirens and antennas in locations around the refinery: HRU Substation; RFCCU Substation; South Satellite; Unmanned Satellite; Central Satellite; and the North Satellite; as well as a number of free standing towers with remote field speakers. The new installation was completed late in 2016, and is now in service after a successful testing. The dismantling of the old system is ongoing and will be completed in the spring of 2017.

145 Boiler Plant Lighting
The 145 Boiler plant lighting project was required because the existing interior and exterior lighting had deteriorated and needed to be replaced. A total of 59 lights, including wall mounted, ceiling mounted, and stanchion lights, along with cables, trays and conduit, were installed. The existing lights were removed. The work inside the plant was performed during the cooler spring days, to lessen the heat stress effect of working in such a warm humid environment.

#1 Cooling Tower Substation
The #1 Cooling Tower substation work that Marque’s electrical forces are involved with, is a result of equipment deterioration due to significant water ingress to the existing substation, which has been in place since the refinery first operated. A new substation is being constructed, which requires the installation of new switchgear, motor control centers, power distribution panels, soft start motor controllers, transformers, lighting, fire alarm panels, uninterruptable power supplies, and building ground connections. With this new infrastructure in place, the focus will shift to replacing the existing Cooling Tower Fan motors with more efficient equipment.

No. 2 Hydrogen Plant Methanator
Another project completed by Marque’s crews was the No 2 Hydrogen Plant Methanator. It was determined that the reactor was under-instrumented; highlighted by an incident where the Methanator experienced what is known as a “Runaway” in which the temperatures go beyond acceptable limits. Marque’s crews installed a number of instruments, as well as cabling, tray and tubing, to monitor the temperatures and help mitigate this issue. This work was completed in early February 2017.

Marque’s experienced tradespeople have been providing a high level of support to the refinery for many years. The emphasis is on quality workmanship, while always being aware of the extreme importance of safety. It is a relationship that Marque hopes to continue, assisting Irving Oil with any future challenges that emerge.

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OSCO Undertakes Challenging Steel Project at Harvard University’s Smith Campus Center

contributed by: Jason Presley

Ocean Steel has been hired by Consigli Construction Co., Inc. to supply and install over 570 tons of structural steel and over 420 squares of metal decking for the refurbishment of the Richard and Susan Smith Campus Center project at Harvard University, in Cambridge, MA.

Formerly known as Holyoke Center, the building was renamed in 2014 in honor of Richard A. and Susan F. Smith, who donated the funds for its renovation. The Smith Campus Center is scheduled to open in 2018. It is part of a multiyear effort to create and improve common spaces across the University.

The project is a combination of new steel construction and retrofit work, making it a very complicated and complex project. Not only did Ocean Steel need to have all of the existing building conditions verified in order to be able to order material and detail the steel for fabrication, but even the erection is much more complicated than normal, with the campus center remaining active during construction. From having to overtake spaces in the lower level parking garages; to shutting down the garage entrance ramps; to rerouting student access to and from the under-construction buildings; this project has proven to be very cumbersome from a scheduling and logistics point of view.

Even the simplest of tasks take longer and require more planning, because of the nature of the project and site.

Though the project commenced back in March of 2016, detailing, fabrication and erection remain ongoing, as new areas have their demo completed and become available for us to do our work. The first major phase of erection has been completed on the Holyoke street site, and the glass (by others) installation has commenced, bringing one of the major architectural features of the project closer to completion.

Both the Holyoke and Welcome phases are primarily Architecturally Exposed Structural Steel (AESS), with much of the steel remaining forever exposed to review, under a field-applied intumescent and paint top coat. In fact, over 260 tons out of the 570 tons supplied for this project is AESS. Again, this adds a layer of complexity to the fabrication and installation, with tighter steel standards in place.

Ocean Steel’s erector, Boss Steel Inc. was gearing up to commence the next round of steel erection at the end of April. The next phase of site work includes a portion of the Welcome Center main building, along with the Dunster MER’s and primary steel to follow. Once this next phase is wrapped up, there is still a lot of work left to do, with the balance of the Welcome steel to follow, along with the Arcade bridge steel that joins Holyoke to Dunster. We also have more steel yet to be detailed, for the roof area of the existing Welcome and Dunster buildings.

This project is being detailed in-house. While the bulk of the fabrication is being done at our Fredericton plant, the Saint John plant has helped out with some fabrication work on the Holyoke phase.
Strescon Project Recognized by CPCI

contributed by: Brendan Clancy  P.Eng.

Strescon’s work on the AVA Theatre in Boston was recently recognized by the Canadian Precast Concrete Institute (CPCI) as their December, 2016 Project of the Month. Below is what they had to say about this amazing project:

reprinted with permission from CPCI

AVA Theater District Apartments in Boston

The eye catching 30-storey residential building in Boston’s Theatre District is bringing much needed residential housing to the downtown area, drawing young professionals into the city. The innovative AVA Theater District Apartments, located at 45 Stuart Street and next to Boston’s cultural, educational and medical facilities, offer 398 residential units (representing 384,000 square feet) varying from studios and one and two bedroom units. The first five floors include a 198 spot-parking garage, covered by a glass curtain wall facing Stuart Street. The parking garage is 90,000 square feet and features a pedestrian walkway connecting Stuart and LaGrange Streets. The 45 Stuart Street building is projected to be LEED Silver Certified.

Due to extremely restricted access to this project location, Strescon and AvalonBay Communities, Inc. coordinated efforts to perform nighttime erection. This was to ensure they did not impact trades working on site during the day and to disturb the local community during busy hours. Erection of the precast concrete panels was scheduled in two phases. The initial Phase began in April 2014, followed by the second phase, which completed the end of summer 2015.

The following precast concrete products were used for this project:

• Architectural solid Cladding Span-drels – 413
• Architectural solid Vertical Cladding Panels – 284
• Architectural solid Garage Cladding Spandrels Panels -181
• Architectural solid Column Covers/ Infill Panels – 28
• Precast Solid Slabs – 4
• Panel thickness ranged from 6-8”

Strescon Limited supplied roughly 100,000 square foot or 910 individual panels for this project, which were

continued next page...
used in combination with metal panels and glass curtain walls to create the building’s striking envelope. Architectural precast concrete is not only compatible with all structural systems, it can be designed to harmonize with, and complement, all other materials.

Each visible precast concrete element consists of the same architectural, light sandblast finish, to maintain consistency between the upper and lower sections of the structure. Improvements in fabricating processes allow architectural precast concrete to be produced in almost any color, form, or texture, making it an eminently practical and aesthetically pleasing building material.

The major factor in Strescon producing this project was their ability to design the unique, three-storey vertical column covers that CBT Architects had envisioned for this project. Precast concrete’s moldability and versatility offers the freedom to sculpt the structure’s facade in imaginative ways. It is difficult to imagine an architectural style that cannot be expressed with this material. The “sky’s the limit” when it comes to architectural precast concrete and its applications.

Owner: AvalonBay Communities, Inc.
Architect: CBT Architects Childs Bertman Tseckares Inc.
Engineer: McNamara/Salvia Inc. Consulting
Contractor: John Moriarty & Associates
Precast Supplier: Strescon Limited

IKEA Halifax

contributed by: Dawne Grandy

A leading home furnishing retailer with 375 stores in more than 50 countries worldwide, IKEA is visited by 884 million people every year. In November 2015, IKEA Canada announced a coast-to-coast expansion plan to double the store count from 12 to 24 stores in the next 10 years. To the delight of Atlantic Canada, one of these new stores would be built in Halifax, NS.

Billed as “the most sustainable IKEA store in Canada”, it will be the first LEED-certified IKEA in the country. The design will focus on energy efficiency, waste management and mobility. The store will include a restaurant, Market Hall, Showroom, SMALAND playroom, and offer customers a complete range of convenient services.

Allstar Rebar is currently working on IKEA for Bird Construction. The new $100 million building is located on Cutler Avenue in Dartmouth Crossing, NS. For the project, Allstar Rebar is providing 131 tons of Rebar and 109,920 square feet of Wire Mesh. Allstar began working on the project in August 2016. The 328,000 square foot store is expected to open in the fall of 2017.
Ocean Steel Rebar is currently working on a new aircraft hanger at the Saint John Regional Airport for J.W. Lindsay Enterprises Ltd. Ocean Steel Rebar will be providing a total of 29.18 tons of rebar for the foundation of a 14,200-square foot pre-engineered building which will belong to Shoreland Transport Inc. Ocean Steel Rebar started installation of rebar in February 2017 and is expected to finish by the end of April 2017.

Shoreland Transport is a division of Cooke Aquaculture Inc. in St. George, NB. It was originally created to maintain control over the shipment of fresh fish to various markets. They currently have a small hanger at the Saint John Regional Airport that is not large enough to accommodate the new aircraft the company has purchased. The new aircraft hanger represents only a small portion of the recent growth this New Brunswick company has planned for its future.
South and Hollis Street Development is a 7-storey, mixed-use building on the corner of South and Hollis Street in Downtown Halifax, NS. The project features over 5,800 square feet of commercial retail space at grade, with multiple store fronts that line both streets. Ground floor landscaping and paving ensures adequate space for active patio spill-out during summer months. The project also includes 63 residential units, and incorporates a fully landscaped rooftop.

The building design responds and stays true to the uniform nature of brick as a primary building material. As such, the base and middle portion of the built mass is manipulated by a series of glazed ‘additions’ and ‘subtractions’, to establish an architectural dialogue of material depth. The East façade (Hollis Street) establishes a series of large vertical ‘subtractions’ as a set of voids within the brick mass.

Window frames are then recessed within the wall, creating deep window sills which reveal the brick material to its fullest. By contrast, the South façade (South Street) includes a sequence of well-articulated bay windows that are ‘added’ to the solid brick form. Protruding Bay windows and balconies are positioned in a rhythmic fashion, to create vertical proportions that govern and align a series of corresponding ‘subtractions’ below; forming commercial openings at grade, that articulate a finer-grained pedestrian streetscape experience.

Due to site restrictions, traditional hand-laid brick could not be used for this project. The owner and Architect approached Strescon Limited to come up with a solution. After looking at a number of options, a brick (formliner) precast panel was chosen.

Strescon quickly laid out the building and submitted approval drawings for review. Once the drawings were approved, Strescon Limited began creating the master molds, using a rubberized formliner to create the impression of brick. Production started in late fall 2016, with the panels quickly being produced, in time for late January installation. It only took 5 days to install the 80 precast panels (approximately 15,000 sqft of wall area). With the building now enclosed, the owner could concentrate his efforts on finishing the interior of the building.

Concrete in its liquid state can take any shape. By introducing a formliner to create the impression of brick, the cured concrete truly resembles a hand laid brick wall. Close attention to the details and concrete colour was important in achieving the brick look. The window details, exposed panel ends, and the red pigment added to the concrete during the mixing process, were some of the areas focused on during design and fabrication. With the precast now installed, you cannot tell it isn’t real brick.
Evolving the Safety Culture

contributed by: Lou Totino COHS, CSS

Safety Culture within the construction industry has certainly changed over the years. It was not that long ago that employees would show up without steel toe footwear, hard hats, or safety eye wear; or starting their day without identifying hazards associated with their activities.

The positions of Managers, Supervisors, or Foreman were roles that focused solely on production. However, as time passed, those roles became more and more positions of safety leadership as well as production.

The duties of workplace parties differ across Canadian jurisdictions as well as across the United States. Yet there are unifying concepts, such as the requirement of Internal Responsibility System (IRS). The IRS is a very useful model, as it maps onto Due Diligence, legal duties, and the elements of the Occupational Health and Safety Management System. It is the framework that ties much of Occupational Health and Safety law together.

Leadership for safety is something the management team of Allstar Rebar and Ocean Steel Rebar (along with the entire OSCO Group) take very seriously. They strive to practice their Due Diligence and they want their Foremen & employees to do the same! Over several years, the leadership team has continuously put safety of their workers first!

To propel the Safety Culture forward, the management team of Jim Moody and Troy Cleveland has regularly encouraged engagement from all employees, pertaining to workplace safety. They proactively set time away from their busy workloads to arrange team meetings with their Foremen and field level staff.

Warm weather each year brings a Spring Kick-off Engagement meeting with all field level staff. It starts off with a review of WHMIS 2015, followed by two-way discussion of varying topics relevant to the upcoming rebar season, including roles and responsibilities of all field level staff.

Engagement meetings with Foremen involve a year in review and roundtable discussions on various safety related topics. In 2017, a Nova Scotia Department of Labour Officer was invited to present a PowerPoint Presentation pertaining to the Internal Responsibility System and what it means to be someone in a leadership role. Feedback and engagement lasted longer than expected, with comments & questions from both management and foremen, and a lot of take-away information.

Within the Allstar Rebar Plant, safety initiatives have also been introduced. In 2017, a TAKE FIVE program was introduced to proactively identify hazards associated with working in a plant and yard setting. This program is overseen by Plant Superintendent, Dawne Grandy, who takes every reasonable measure to ensure identified hazards are addressed appropriately and in a timely fashion.

It is important to note, that a Safety Culture is not created overnight or over a few short months. It takes every group a different timeline. It takes a lot of effort by both, leadership and their employees to remain proactive and positive with a view to workplace safety. Allstar Rebar Nova Scotia Area Manager, Jim Moody and Ocean Steel Rebar Services Placement Manager, Troy Cleveland have certainly transformed the Rebar Safety Culture through their efforts.
The Spilling Truth

contributed by: April Glendenning, PTech

It's no secret that environmental spills occasionally happen in industrial settings. With all of the large equipment and moving parts, it is just a matter of time before there is a blown hydraulic hose, leaks from equipment or a fuel spill. It's all part of being in an industrial setting. The unfortunate thing about these incidences is they can cost industries millions of dollars per year, either in penalty charges if not properly reported, or in clean up and remedial costs. Just one piece of leaking equipment, if left undetected or unreported, can cost a company thousands of dollars in clean-up. If the leak is reported and fixed immediately, it could mean the difference of a 5 gallon pail of contaminated soil versus a dump truck load.

There are many aspects to proper spill cleanup. To stop and contain the spill or leak is crucial; however, proper disposal of a contaminated spill kit is equally as important. It is against environmental regulations to dispose of contaminated absorbent pads and “zorb-all” in the garbage or dumpster. This material must be disposed of with a company licensed to handle the disposal of hazardous and contaminated materials. Failure to do so may result in fines and/or dumpsters being turned away at the landfill, at the company’s expense.

 OSCO Construction Group Once Again Recognized by Sustainable Saint John

contributed by: April Glendenning, PTech

Sustainable Saint John is a group of area businesses established in 2010. The goal of this group is to work together to help make the greater Saint John area operate in a more sustainable manner. OSCO has participated in the group since the beginning, and has been involved in helping to organize and present during “Lunch and Learns”, as well as assisting in the planning of other educational opportunities that Sustainable SJ can offer its members.

On March 16th, the OSCO Construction Group was once again recognized by Sustainable Saint John for its progress in sustainability. The award we received is based on improvements that members have instituted. If you look at the plaque, it takes the form of a tree with 12 leaves. Yearly, as each member implements new improvements in certain areas, they are awarded additional leaves for their tree.

We were awarded two new leaves this year. Our first was the Tree Planting leaf, in recognition of the 100
OSCO I.T. Office Renovations

contributed by Bill Woodhouse, P.Eng., M.Eng.

FCC Construction recently completed renovations to the bottom floor of the OSCO Group Head Office at 400 Chesley Drive. This 2700 sq.ft. space was previously unfinished and used primarily for storage. The newly completed office space will serve as the new home for the Group I.T. division, which previously shared space with members of the accounting team.

Work began in December of 2016 and was completed in early March. The fit-up included new drywall partitions, acoustic ceiling tile, flooring, and new mechanical & electrical. The interior finishes were specified to be consistent with the other floors of the building. The new space includes two offices, nineteen workstations and an eight-seat conference room.

Tree seedlings that OSCO handed out to employees last year during Environment Week. We were also awarded a leaf for Community Involvement. This leaf recognized the fundraising actions that our employees take, to assist charitable groups and non-profit organizations around the Saint John area.

You will see from the picture of our Award, there are still five leaves to be obtained. Those leaves can be for any the following areas:

• Special Recognition
• Buying Local
• Printing
• Transportation

• Cleaning Products
• Leadership
• Material Substitution
• Hazardous Waste Management.

Each of our employees has contributed to receiving this award. If you have any ideas about how we can make further environmental improvements in the above categories to add the missing leaves, please let me know.

Thank you to all of our employees for thinking green! It is that mind-set that leads to more sustainable options for our companies to ensure a healthier environment for future generations to enjoy.
Helping Hands

contributed by: Tyler Isnor

OSCO Construction Group is a proud supporter of many organizations and associations who strive to support and better our communities. Following are some of the groups we have contributed to in the past year:

- Heart and stroke
- Canadian Diabetes Assoc.
- Saint John SPCA
- Canadian Cancer Society
- Bobby’s Hospice
- First Steps
- Saint John Police Assoc.
- Romero House
- Annual Poppy Campaign
- Boys and Girls club
- Loch Lomond Villa
- Alzheimer’s society of N.B
- United Way
- Heart and Stroke Found.
- Special Olympics N.S
- Teen Life Choices
- Canadian Mental Health Assoc.
- Red Cross Alberta Fires
- IWK Heath Care Foundation
- The Joshua Group
- NB Lung Association
- Children’s Wish Foundation
- Canadian Red Cross
- Rivers Cross Church
- YMCA
- American Cancer Society
- Canadian Breast Cancer Society
- Prince County Hospital Foundation
- ALS Society
- Kurl for Kids
- Eastern Shore Minor Hockey
- Lebanese Cedar Festival
- Halifax Lebanese festival
- Chebucto Cedar Festival
- KVHS AAA Varsity Boys hockey team
- Ronald McDonald House
- Irving Hockey League

Each November, leaders of the construction sector come together to celebrate mentorship and apprenticeship in the New Brunswick skilled trades. The Distinction in Mentorship Awards Gala, hosted by NB-MAP, honours industry and individuals who champion effective mentorship in the construction trades.

On November 9th, 2016, NB-MAP, government, and business & union leadership came together in Saint John to recognize those who lead the charge in building strong workplace learning cultures. We are pleased to announce that the recipient of the 2016 Corporate Champion Award (under 100 employees) was Marque Construction Limited.

Marque Construction has been committed to workplace mentorship since the inception of NB-MAP; as one of the organization’s original...
Take Our Kids to Work Day

contributed by: Tyler Isnor & Vivian Chaisson

November 2nd, 2016 was National Take Our Kids to Work Day. This program provides grade 9 students across Canada an opportunity to job shadow a parent or sponsor for a day, while learning about different career opportunities. OSCO’s HR Department sponsors the morning session each year, with company and safety orientations, a work experience discussion, and a plant tour of Ocean Steel. Twelve students participated this year; nine at OSCO head office and three at Strescon Bedford.

Students in Saint John spent the morning getting to know each other with some icebreakers, followed by a safety orientation with Jim Patterson. The students also had a tour of the Ocean Steel shop, lead by Deb Flewelling and Tim Dawson. The students then had a pizza party for lunch, followed by job shadowing their parent or sponsor for the afternoon.

Nova Scotia operations also participated in this event. Norman Kinslow, Shop Supervisor with Allstar Rebar, brought his son Ryan along for the day. Ryan observed the Rebar fabrication process, then toured the yard and offices before the Allstar team treated him to a pizza lunch. Bedford Ready Mix also had a couple of visitors. Curtis MacLennan, Ready Mix Driver, brought his son Shelby, while Andy Dill, Purchasing Agent, brought his son Jonathan for the day. Shelby and Jonathan were given an overview of the computerized batching processes by Phil Sherring, Batcher, then Dave Marcattili, Business Development Manager, showed them how the general ready mix operations work; from work orders coming in, to trucks going out with the Ready Mix Concrete for customer delivery. OSCO treated the participants to a pizza lunch to cap off the day.

Thank you to our students and sponsors: Jacey Ganong, Joseph Ganong (Tim Ganong, Elaine Ganong and Mike Jacquet), Emma Galbraith (Candace Galbraith), Kail Short, Simon Jackson (Darrell Short), Ethan Bourque (Tabatha Patterson) Patrick Anthony (John Anthony), Alyssia Armstrong (Tina Blair and April Glendenning), Gregor Stewart (Mark Stewart), Shelby MacLennan (Curtis MacLennan), Ryan Kinslow (Norman Kinslow) and Jonathan Dill (Andy Dill) for choosing the OSCO Construction Group on Take Our Kids to Work Day.

Why Focus On Mentorship?
The essential role of on-the-job learning in the skilled trades has taken a backseat to priorities like productivity. Combined with the pending baby boom retirement and a lack of diversity in the workforce, the sector is faced with the loss of thousands of years of knowledge, skill and experience.

According to Randstad Canada, over 75% of Millennials (those born after 1980) want an on-the-job-mentor, and the Millennial generation will make up over 75% of the Canadian workforce and customer base by 2028. Recruiting and retaining this generation is absolutely essential to the survival and sustainability of the skilled trades.

Updating the trades’ 400+ year history in mentorship and apprenticeship, to suit the needs of the current generation and address new pressures like technology, is a simple and sustainable way to recruit, train and retain the Millennial workforce.

NB-MAP (New Brunswick Mentor Apprentice Program) is a non-profit organization developed by the New Brunswick Building Trades Unions (NBBTU), in cooperation with the Government of New Brunswick (GNB), providing workforce solutions and human resource change management to the building trades.

The NBBTU recognized that as a result of attrition due to retirements, the time was right to try a new approach to training and engaging construction workers, through the delivery of an apprentice mentoring program called NB-MAP. NB-MAP helps employers develop a learning culture in their workplace, increasing the quality of training and knowledge transfer for apprentices, providing teaching and coaching supports to journey persons, and tools for supervisors to continually support on-the-job learning.

www.oscoconstructiongroup.com
Keeping the Connections Open: THE I.T. TEAM

1 Million emails per month
500+ Managed Smart Phones
100+ applications ranging from very Business Specific applications to Enterprise Grade ERP solutions.
330 attachments on average, that our Threat Detection systems block each month
1000+ end users connecting from over 65 Network Locations

5,500+ Skype for Business Interactions per Month
618 Service Tickets averaged per month

250+ Virtual Servers hosted on 5 Physical Servers
These Virtual Servers are powered by:
268 Processors with a total computer power of
662 GHz,
4,620 GB of RAM
& 125 TB of Storage Space
Any company that has been around as long as the OSCO Construction Group, has witnessed significant technological changes over the years. Fortunately, OSCO Group has always prided itself on not only embracing, but keeping ahead of technology. As the Group continues to add technologies, it is the I.T. Team which ensures that all the systems run smoothly.

The OSCO Construction Group has an IT Team of Professionals with a combined experience of over 200 years in the industry.

Over the years, the Team has evolved from a few individuals managing a few users and applications, to a Team that manages:

- Over 1,000 end users connecting from over 65 Network Locations.
- More than 250 Virtual Servers.
- More than 100 applications ranging from very Business Specific applications to Enterprise Grade ERP solutions.

Change is frequent in I.T., but the development of an aggressive training plan has allowed the I.T. Team to remain current. Our team totaled over 40 training days in 2016.

The OSCO Group now has several Team Members who are ITIL Certified. ITIL is the industry standard framework of best practices to deliver I.T. Services.

The I.T. Team primarily consists of:

Support Team: These are the people you would typically interact with for the majority of break/fix items or standard requests.

Operations Team: These people often are working behind the scenes ensuring the infrastructure is up and readily available.

Design and Strategic Team: These people are planning what’s next for our quickly evolving environment.

Solutions Team: These people design/build applications and integrate software with our Oracle systems.

OCI Shared Services I.T.

In addition to the OSCO Construction Group, OCI Shared Services IT provides support to a number of other Ocean Capital companies. All of our IT clients benefit from the following:

- Client Management and Support.
- Tier 1 - 24-7 Helpdesk Support.
- Our Tier 2 Helpdesk Staff are not limited to the Helpdesk. They are mobile, “feet-on-the-ground” technicians, who bring that experience back to the helpdesk.
- If a problem cannot be fixed over the phone, the technician also has the freedom to physically go to the location to resolve the issue.
- If a technician needs assistance, they can escalate to another member of the IT Staff working in our Operations and Design groups.

- Server/Network Management and Support. OCI’s Private Cloud is a very flexible, scalable and redundant system, which allows us to easily grow and shrink, share resources, and avoid outages.
- Secure Data Center:
  - An advanced Uninterruptable Power Supply (UPS) and Generator ensure that power is always available.
  - Redundant Air Conditioning units keep the Data Center cool. In the event of a failure, monitoring systems can inform Building Maintenance.
  - Firewalls protect the network and availability has been increased with the addition of a redundant core.
  - Diverse Network Connections from geographically separate locations ensure our clients can always access their Systems hosted in the Data Center/Private Cloud.

Our New Secure Location

The I.T. Team has recently completed the move into our new location. Secure access to the new office space is controlled through door cards.

The goal of our Team is to give all users equal support. By limiting drop-ins and funnelling the IT workload through the same system, we can ensure that users in Winnipeg can expect the same level of service as those in the Saint John office.
The OSCO Construction Group’s annual 25 Year Club Dinner was held at The Union Club in Saint John, NB, on Friday December 2nd.

This was the first time having our dinner hosted by Saint John’s historic Union Club. The Union Club was built in the 1890’s, so a lot of our attendees took the time to appreciate the architecture and craftsmanship of the structure.

As always, George Paisley (Strescon retiree) graciously presided over a moment of silence for retirees who had passed away since last year’s dinner, followed by asking the blessing over the meal. Guests were then treated to a delicious full course dinner.

Following the meal was the induction of our newest members to the 25 Year Club. Keeping with the tradition started a couple of years ago, we commissioned Arrowfoot Inc. to film and create videos for those inductees who wished to be filmed.

Our first inductee was Blaine Greencorn, Ready Mix Driver with OSCO Concrete from our Annapolis Ready Mix Plant. David Bancroft, General Manager of OSCO Concrete, opened with very kind words regarding Blaine’s career with the Company and then had the honor of presenting Blaine with his gift and official induction.

Our second inductee was Chris Fisher, Foreman with Strescon Limited. Chris’ video, featuring current and former supervisors, as well as current employees, gave a great perspective of what it was like to work with Chris over the years. Following the video, Don Isnor, V.P. & General Manager of our Concrete Sector, presented Chris with his gift and welcomed him into the 25 Year Club. Two additional inductees from our Concrete Sector, David McSheffrey & John Miller, both of Strescon, were not able to attend the dinner, so Mr. Isnor accepted their gifts on their behalf.

The final inductee of the evening was Troy Hoar, Foreman with Marque Construction. Troy’s video included stories from current supervisors and co-workers, but also gave our audience a truly unique perspective, as Troy’s brother, Terry (a 25 Year Club member himself!) was involved with the video. Carl Blanchard, V.P. & General Manager of our Construction Sector, presented Troy with his gift and induction.

The video presentations have really allowed us to paint a picture of why OSCO prides itself in our employees. In addition to receiving their induction gift and pin, the attending inductees’ guests are presented with a basket full of chocolate.

The evening closed with Mr. Hans O. Klohn and Mr. John Irving drawing tickets for door prizes, then everyone picked up the newest issue of Connections on the way out.

Congratulations to all our 2016 25 Year Club Inductees!
302 Members x 25 Years (plus) = MORE THAN 7,550 Years of Service!!

Past & Present Members:

Hans W. Klohn 1955
Raymond Vautour 1955
Gerald Durley 1955
Francis Gogan 1955
Donald Isnor (Sr.) 1955
Philip Miller 1955
Charles Williston 1955
Hans Schmidt 1955
John Tobin 1956
Leandre Savio 1956
Thomas Woodman 1956
Willard Crowley 1956
Welden Paul 1956
Herbert Eichmann 1956
Paul Mackin 1957
John Fres 1957
James Mill 1957
Ralph Hopps 1957
Fran Oulton 1957
Basil Bogle 1957
Archie Moore 1958
Ron Goodine 1958
Roy Davis 1958
Walter Patterson 1958
Gordon Lewis 1958
Fritz Klohn 1958
Zoita Netolov 1958
Leonard Kinella 1958
Leroy Hill 1958
John Boudreau 1958
Earl Anderson 1958
Osborne Tattan 1958
Ian McKinnon 1958
Douglas Wiggins 1958
Jack Williston 1958
Norman Oliver 1958
Don Melvin 1959
Doug Messer 1959
James Hennessy 1959
Alfred Savoie 1959
Erik Liedstrom 1959
Walter McGrath 1959
Bertha Arsenau 1959
Robert Griffiths 1960
Dorothy McGrath 1960
Angelo Knapp 1960
Raymond Vienneau 1960
Herman Morin 1960
Joseph Frigault 1960
Joe McNeil 1960
Gerry Belzile 1961
William Morrow 1961
Doug Damon 1961
Gerry LeBlanc 1961
John Cosgrove 1962
Dave Loomer 1962
Fred Beckett 1962
Alfred Savoie 1962
Laurence Seale ........................1963
Guy Daglar ..........................1963
Gerald Martin ........................1963
Bruce Holder ..........................1963
Harold Donovan 1963
Adolph Wahmann 1964
Cecil Maxwell 1964
George Chapman 1964
Francis Currie 1964
Thomas Hinam ........................1964
Lloyd Ginn ...........................1964
Ralph Whitaker 1964
Roche Galluchon 1964
John Morgan 1964
Gunter Ung 1965
Thomas Crowley 1965
Rose Robertson 1965
Kenneth Cole 1965
Harry Walker 1965
Emerson Cousins 1965
Emil Dreyer ...........................1965
James McKinnon 1965
James Levine 1965
George Sharpe ..........................1966
Vincent Gauvreau 1966
Maurice Devost 1966
Andy O’Hearn 1966
Terry King 1966
Eleanor Thomas 1966
Valentin Cermak 1966
George Paisley 1966
Leo Maurice Wallace ..................1966
Norman St. Coeur ....................1966
Grant Maxwell 1967
Melvin Peacock 1967
Joseph Ovide Frigault 1967
Alfred Ward ..........................1967
Gerald Muise 1967
Paul McDermott 1967
Chris Hachey 1967
Gerald Marks 1967
John Doiron 1967
Martin Ryan 1967
Daniel Vienneau 1967
Thomas Hinam ........................1968
Francis Hebert ........................1968
Leonard Robichaud 1969
Arthur Amburn 1970
Peter Cox ..............................1970
Valerie LeBlanc ........................1970
Jim Mckenna 1970
David Kerr 1970
Brian Caise 1970
Tom Findlay ...........................1970
Fred Brown ................................1971
Lionel Hancock 1971
Raymond Goguen 1971
Pat Oakley ..............................1971
Terry Arsenau 1971
Sidney Larusci 1971
Walter Forgraves 1972

Roger Allain ..........................1972
Joseph Crowley 1972
Hugo Bursich 1972
Joseph Hector 1972
Kenneth Underhill 1972
Rodger Weeks 1972
Henry Myers 1972
Alfred J. Condon 1972
Wayne Smith 1972
Edmund Gallant 1973
Darryl Kingston 1973
Denis Braidau 1973
Joseph Mullin 1973
Donn Mitchell 1973
Gordon Haines 1973
Jack Delaney 1973
Steve MacNeill 1973
Donald Gripper 1973
Richard Melanson 1973
John Hachey 1973
Robert Gogan 1974
George Grass 1974
Howard Dryden 1974
Gorden MacQuarrie 1974
Raymond White 1974
Robert Dunham 1974
Clinton Swim 1974
George Gray 1974
Herb Stanley 1974
Jack Rackley 1974
Philip Thompson 1974
Gerald Duguy 1974
Jean H. Richard 1974
Charles Wedge 1974
John A. Hume 1974
David Murray 1974
Paul Biggar 1975
Lawson Murray 1975
Sandra Garnett 1975
Audrey Knodell 1975
Jessie Smith 1975
Tom Adams 1975
Karl Butler 1975
Donat Richar 1976
Delbert Mason 1976
Gerard Rion 1976
Joseph Caisse 1976
Brian Lane 1976
Stephen Taylor 1976
Lawrence Maloney 1976
Clarence Allain 1976
William Bennett 1976
Rick Gavel 1976
David Irvine 1976
Kenneth MacLean 1976
Harrison Wilson 1977
Bruce Durley 1977
Tim Latter 1977
James Anderson 1977
Aiden Kennen 1977
Vince Davis ..........................1978
Donald Dorey 1978
Raymond Dridelle 1978
John Paul Gojet 1978
Barry Harrison 1978
Edward Herbet 1978
Laurie Lebouthillier 1978
John Marks 1978
Kevin McGraw 1978
David Oliver 1978
Keith Wedge 1978
Harold Cavanaugh 1979
Clarence Savoie 1979
Don Isnor (Dr.) 1979
Gerry Hinch 1979
Gerry Higgins 1980
Eric Nolan 1980
Gary Cairns 1980
Richard Roy 1980
Donald Greenslade 1980
William Davis 1980
Jim Isnor ...........................1981
Joyce Murray 1981
Jeff Price .............................1981
John Hilchesy 1981
Doug Murphy 1981
Jim Johnson 1981
Ron Theriault 1981
Rod Campbell 1981
Kevin Base 1982
Abby Duguay 1982
Randy Main 1983
Ron Ward .............................1983
David A. Hume 1984
Norman D. Hazelwood 1984
Michael Belding 1984
Fernand Duguay 1984
W. Wayne Morgan 1984
Gary Bogue 1984
Kenneth Parlee 1984
James F. MacFarlane 1984
Bruce Gogan 1984
Carl Parlee 1984
Michel Roy 1984
Michael Atkinson 1984
Lorenzo Sr. Savioe 1984
Douglass Oliver 1984
Malcolm Belding 1985
Michael D. Eroh 1985
John Sparks 1985
Bruce Beckett 1985
Christine Boyd 1985
Mike Lewis 1985
Leo Cor ...............................1985
Gregory Currie 1985
David Dunnett 1985
Randy Gallant 1985
William Gates 1985
Bernard Harrington 1985
John Jones 1985
Hans Olaf Klohn 1985
Erik LeBlanc 1985
Timothy Logan 1985
Daniel Malmian 1985
Richard Thibodeau 1985
Stewart Totten 1985
Gaetan Vaillancourt 1985
Randsford White 1985
Vernon J. Wilson 1985
Ron Estabrooks 1986
Leo Henry 1986
David Drysdale 1986
Steven Robertson 1986
Brent Boyles 1986
Rod Macintosh 1986
James Cosman 1987
Don Daigle 1987
Wayne Hartin 1987
Michael Jones 1987
Robert Morin 1987
William O’Hearon 1987
Leandre Richard 1987
James Leamon Lawless 1987
Herbert Stevens 1987
Michael Hazlewood 1987
Ulrike Long 1987
Casey Belanger 1988
Carl Blanchard 1988
Greg Chase 1988
Robert Cosman 1988
Gerald Daigle 1988
Reid Edgar 1988
Garrett Edgett 1988
Gary Fillmore 1988
Michael Flannigan 1988
Heather Fox 1988
Gerald Ladds 1988
Barry McCullough 1988
Alfred Savoie 1988
Gregory Osmon 1988
Dennis Peach 1988
Thomas Coughlan 1989
Peter Douguy 1989
Brent DeMerchant 1989
Sylvia Fowler 1989
Herb Greenwood 1989
George Lawson 1989
Lorne MacMillan 1989
David Marcattili 1989
Brian McLachlin 1989
Shawn Putnam 1989
Danny Rogers 1989
Beverly Sarty 1989
Laurie Wheaton 1989
Rosemary Carrier 1989
Gordon Arsenault 1990
Pat Bagley 1990
Cathy Parker 1990
Blaine Greenconn 1991
Christopher Fisher 1991
Troy Hoar 1991
David McSheffrey 1991
John Miller 1991
How it all began

It all started with my father’s ambition to be a successful entrepreneur, enabling him to provide a living for his family and an opportunity for his children. My Dad, Merle Putnam, and his two brothers owned a family business consisting of a large dairy farm, beef farm, campground and residential rental properties. My father wanted to explore opportunities on his own so he met with his brothers and they agreed to go their own ways. My father said to his brothers “you decide what you guys want and I will take what’s left, I just want out.” When it all got settled, Dad ended up with the campground, rental properties and was given 103 acres of gravel land in Little Dyke.

During this time, our family lived on, and had the responsibility for, the day to day operation of the campground. Dad and Mom were ready for a change, so in the winter of 1987 the campground was sold. Dad then purchased a screening plant, conveyor, a reconditioned Hough 80 front end loader and built a 30x36 shop in Little Dyke on the gravel property (pit#1). Dad was very proud of his children so he used our first initials, Merle (dad), Shawn (me) and Dennis (my brother), to create M.S.D. Enterprises Ltd.

The first aggregates (dry screened gravels, sand and clear stone) were sold to the local market in March of 1987. During our second year of operation, M.S.D. was awarded a contract to supply the Town of Truro with the required gravel for various projects. Sales increased dramatically and provided us with the necessary boost to have a successful business.

In 1989, we purchased a jaw and roll crushing plant, a second loader, and a truck scale. The crusher enabled us to make type 1 and type 2 crushed gravels and kept us from adding to the stockpiles of stone that had been created with the screening operation. With the addition of two metal pipes to the screen deck, and a 2” Honda water pump to supply the water from the pond, M.S.D. was now able to provide a washed product to the market as well.

The next opportunity to grow our business came in 1991 with the purchase of a concrete plant which was erected in the gravel pit. In order to supply our own aggregates, we required a larger water pump and the installation of a presoak including four spray bars with proper nozzles, on the screening plant. The crushed 1” minus was...
washed to make concrete stone and sand for the ready mix plant. We were also approached by Nova Scotia Sand and Gravel for a price on 3/8", 2" and 2"-4" natural washed stone. This was the start of a relationship that still exists today.

As the business continued to grow and demand increased for good quality concrete sand and stone, we purchased a new Mark 2 Powerscreen decked out with a factory wash kit. We also purchased a trident 2 dewaterer for our sand. The dewaterer took the water out of the sand, but it also gave us the ability to pull more dust from the bottom end if needed.

In 1990 my father was diagnosed with melanoma and in 1994 he became too sick to work every day. At the age of 24, I became the operations manager of both the aggregates and concrete companies. My younger brother started working with me in the summer of 1993. December 17, 1996 my dad passed away at the very young age of 54. My mom came back to work in the office for a couple of years before deciding she wanted to start her own business as a massage therapist, so she left and went back to school at the age of 52.

The decision was made in 1996 to sell the crusher, and subcontract the crushing out to the lowest bidder. This provided me with fixed costs on the crushing and freed up some time to spend with family.

Our first opportunity to sell aggregates outside the local area came from Ocean Contractors Ltd., located in Dartmouth. We had developed a relationship with Ocean by purchasing some concrete mixer trucks from them, and through this relationship we started selling our first concrete stone into the Halifax market. We supplied them with ½” concrete stone for exposed aggregate, and we still are their supplier 20 years later!

In 2004, Casey Concrete agreed to buy a portion of their sand and stone for their Truro location and this was the beginning of another customer relationship that still exists today.

**Pennecon**

Discussions to sell the business were started in 2005 with David Bancroft from Pennecon. An agreement was reached, and in January 2006, ownership changed hands. That same winter, a deal was made with Will Kearsley to purchase their wash plant. The wash plant was disassembled and moved to the new pit#3 location, on Highway #2, during the spring of 2006.

This wash plant doubled the hourly production capabilities and enabled the company to produce high quality products. M.S.D. Enterprises had now become a major supplier for the local construction markets as well as ready mix producers. Now that M.S.D. was part of the Pennecon group of companies, the Halifax market supply of non-reactive and ½” exposed aggregate increased, to include Sackville Concrete, Bedford Ready Mix and Quality Concrete.

It was originally projected that pit #3 was going to provide 6-8 years of product, but with steadily increasing sales the pit was exhausted in three years and the company was faced with moving the wash plant once again. In May of 2008, an additional 14 acres abutting pit#2 on Little Dyke Road was purchased, giving the company a total footprint of 164 acres.

**OSCO Construction Group**

Pennecon sold its Nova Scotia assets on November 1, 2008, to OSCO Construction Group. In the spring of 2009, the wash plant, now renamed the BAM (big xxx machine) by OSCO’s Jim Isnor, was moved to pit#2 on Little Dyke Road. This was a major undertaking, that included: the installation of three phase power to Little Dyke Road; all new concrete foundations; a closed loop water supply; and relocation of the truck scale and scale house. With all the many talents of M.S.D Enterprises’ employees, as well as the supervision of George Lawson and myself, everything went quite smoothly and we were back washing late spring.

**OSCO Aggregates**

The company now operates under the name of OSCO Aggregates and supplies stone to Strescon (Bedford Precast), and sand to OSCO Concrete’s ready mix plants in Prince Edward Island and Moncton. To meet current and future demands, an additional source of sand needed to be located. In 2014, OSCO made a deal with SW Weeks to purchase a sand operation in Canaan Mountain. Since that purchase, Canaan Mountain has been OSCO’s main sand supply for the PEI and Moncton plants.

March 2017 marks 30 years in the aggregate business for OSCO Aggregates. During this time, we have maintained long term relationships with our customers and are known to have one of the best fine and coarse concrete aggregate products in the area. OSCO Aggregates is looking forward to continued growth and prosperity.
Group Wellness Program

In February 2015, Jennifer Blackwood was hired as the health and wellness expert to design a health and wellness program for our employees. As part of this new program Jennifer rolled out an education and screening initiative whereby 219 people have participated in a health assessment. These assessments consist of a private screening session that identifies an individual’s blood pressure, blood sugar and cholesterol levels. This program is being repeated in 2017 after a very successful first year. Below are some testimonials from employees who participated in the process.

“I found the health education session and the health assessment to be very beneficial; they helped me to take steps to a healthier life. I have worked for Strescon for 28 years and I’ve been a smoker since I was 15 years old. I took advantage of the smoking cessation plan at work which paid for the nicotine patch and I’ve been smoke free now for 7 months. I was the type of smoker that would have a cigarette and a coffee if I was hungry and didn’t eat all day until I went home. I was underweight and didn’t realize that was a health risk as well. So now I’m eating good food and have gained about 30 pounds which puts me at a normal weight for my height. My next step is to join the Gym and start an exercise program so that I stay strong and to help control further weight gain. I feel like a new person, my breathing is so much easier; I’m off my puffers completely unless my allergies act up. I sleep well and have a lot more energy than before. I’m very thankful for the new me and for the support I received thru my work.”

Jodi

“I would like to thank FCC/OSCO for their Employee Wellness program. Prior to this I had been a heavy consumer of energy drinks and soda. My energy level was like a rollercoaster, my sleep pattern was so messed up that my doctor prescribed a sleeping aid. My food choices were not good. The education sessions and the health assessments helped me realize the long term effects of my lifestyle habits and helped me understand what changes I needed to make.

I am happy to say that I have been off energy drinks for around a year, and I haven’t had a soda in about a month. I have dropped 6Lbs, and my body isn’t craving sugar like it used to. I haven’t had to use sleeping pills in a while and my energy level is consistent throughout the day. I have been drinking only carbonated water and milk. I cook and bring my lunches to work, and avoid fast food. I am grateful that our company cares about my health and provided the information to live a better, healthier life.”

Jonathan

“I started work at York Steel four or five months before the Irving Group had acquired it which would be close to twenty two years ago. I have seen all the changes first hand, one of the latest being the health assessment and education sessions. Jennifer’s sessions have been very informative regarding food labelling, wellness, healthy choices and lifestyles. I had begun my own lifestyle changes about four years ago when I quit smoking and three years ago when I quit drinking. These changes have been beneficial to my family and my personal health. The past year my wife and I decided to make changes to our diet, we now replace pasta with spaghetti squash and replace potatoes with cauliflower. Believe it or not I spend time on Sunday peeling and slicing veggies for my snacks at work.”

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quite a change from me sitting on the couch munching on a big bag of barbecue chips with my t-shirt riding up over my stomach. My wife would glance over and say ”Where did you get that baby T”. Five months later I’m down 40 pounds, I feel lighter, my clothes are actually too big and my energy level has increased and although I take medication for my knee arthritis it’s much better as a result of the weight loss. I’m still chewing Nicorette gum but I’m also going for counselling. On a personal note I’m turning 60 this year, so it is never too late to make changes. I appreciate the company support and the willingness to provide us with these education programs to enable us to better ourselves and encourage us to make healthy lifestyle choices.*

Leonard

“I participated in the first Health Assessment offered by the company in spring, 2016. The information provided at that time about nutrition and ‘knowing your numbers’ helped give me the incentive to make some changes that have had a positive effect on my person as a whole. It was exciting to see that when I went for a re-check in February, 2017, my numbers had improved significantly! Cholesterol down, waist measurement down, more energy, no more brain fog during the afternoon, sleeping better and overall stress level reduced! I’m grateful for the opportunity to participate in these assessments. Thank you OSCO!”

Elaine

“I found the Health Assessment to be a very informative experience. Nothing was rushed and I came away with an improved understanding of several health related topics. I now feel that I am better equipped to make healthy decisions going forward.”

Nick

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significantly enhanced. Our plan is to utilize our historical information for the benefit of our customers and all of our supply chain partners to make their collective experience with the OSCO Group as valuable, efficient and pleasant as possible.

Organizational changes are also underway to complement this stated vision to BE FAST, BE GLOBAL, BE CONNECTED. We have established a fleet management group to leverage our IT infrastructure and optimize the total capital & operating costs per hour for our fleet of over 300 mobile assets. At the same time, we are creating a facility management group to perform the same function for our manufacturing buildings & equipment in our 20 plant locations. We are planning to upgrade our procurement processes and inventory management by leveraging our ERP’s functionality and knowledge bank. Finally, we have several projects underway with Human Resources to complement and deal with these InfoTech changes.

These are exciting times for all members of our Group, both in our plants and offices; the construction industry is quickly adopting all the aforesaid IT enhancements to radically improve its product delivery model. We plan to be one of the industry leaders in helping to make this happen in our markets. For our employees, the opportunities to participate in a growing, high-tech environment should be both stimulating and challenging. For our customers and supply chain partners, we look forward to providing additional ways to collaborate and to helping your businesses become more profitable.

On another topic, business for the OSCO Group is still strong and trending upward; however, with the election of a new American President, it appears that the North American Free Trade Agreement (NAFTA) will have to be renegotiated. Whether it will be just “tweaked”, as initially stated by the President, or substantially reworked remains to be seen. Also unclear is if the focus will be primarily on dairy & wood products, aerospace and professional services and leave construction-related steel or concrete products undisturbed. With our existing American-based fabrication capacity, we are ready to respond regardless of where these NAFTA negotiations may lead. However, given the long-standing, strong trading relationship that exists between Canada and the United States, we believe this negotiation will be amicably resolved sooner rather than later. Regardless of the eventual outcome, the OSCO Construction Group plans to remain a major supplier of steel and concrete products in the United States.

Hans O. Klohn
President, OSCO Construction Group
FRESH FACES

Ocean Steel

David Leskie .................. Project Manager, SJ
Sloan Gillis .................... Procurement Specialist, SJ
Jarett Premo .................. Regional Sales Manager, NY

OSCO Group Services

Jonathan Atherton ............ Accounting Specialist, SJ

Strescon

Jim LeBlanc ..................... Heavy Fleet Supervisor, SJ
Alex Carvalho .................. Precast Detailer, SJ
Craig McCullum ................ Project Manager, SJ
Erica King ....................... Quality Control Inspector, SJ
Chris MacLellan ............... Plant Coordinator, SJ
Kody Bradley ................. Quality Control Inspector, SJ
Jonathan Fillmore ...... Quality Control Inspector, SJ
Kellie O’Neill ........ Warehouse Coordinator, SJ

Congratulations to Aaron Johnson (FCC) and his wife who welcomed a baby girl on October 21st! This is their first child, as well as the first grandchild for Jim Johnson (FCC).

Engagements:

Congratulations to Joshua Fowler (Ocean Steel Rebar) who is engaged to marry Rachel Weare on July 15th at Adairs Wilderness Lodge.

Applause:

Congratulations to Kristen Shaw (Group Services) who graduated from UNBSJ with a Bachelors in Business Administration in May, 2017.

Congratulations to Courtney Curtis, daughter of Roger Curtis (York Steel) and Jean Curtis. Courtney graduated with a BSc from UNB Fredericton, and has been accepted into the accelerated nursing program in Moncton this fall.

CWB Recognizes Ocean Steel on 40 Years of Certification

This past November, the Canadian Welding Board (CWB) presented Ocean Steel with a certificate recognizing their 40 years of certification with the board, and their ongoing commitment to excellence. Pictured at left, accepting on behalf of Ocean Steel, is Harrison Wilson, Vice President and General Manager of the Steel Division.

The Canadian Welding Bureau was formed by the Canadian Standards Association (CSA) over 60 years ago. The purpose of the Welding Bureau is to administer Canada’s national welding standards, which are embedded in the national building code and other industry specific documents.
### Our Locations

#### STRUCTURAL STEEL:

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
<th>Member Since</th>
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<tr>
<td>OCEAN STEEL</td>
<td>400 Chesley Drive, Saint John, NB • CA</td>
<td>(506) 632-2600</td>
<td>1955</td>
</tr>
<tr>
<td>OCEAN STEEL - New England Sales Office</td>
<td>40 Burlington Mall Road, Suite 207, Burlington, MA • USA</td>
<td>(781) 221-2152</td>
<td>1991</td>
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<tr>
<td>YORK STEEL</td>
<td>550 Wilsey Road, Fredericton, NB • CA</td>
<td>(506) 444-7989</td>
<td>1995</td>
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<tr>
<td>OCEAN STEEL CORPORATION</td>
<td>53 Shaw Road, Conklin, NY • USA</td>
<td>(607) 584-7500</td>
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<th>Company</th>
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<tr>
<td>STRESCON LIMITED</td>
<td>101 Ashburn Lake Rd., Saint John, NB • CA</td>
<td>(506) 633-8877</td>
<td>1963</td>
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<tr>
<td>STRESCON LIMITED - Bedford</td>
<td>131 Duke St., Bedford, NS • CA</td>
<td>(902) 494-7400</td>
<td>1978</td>
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<td>STRESCON LIMITED - New England</td>
<td>40 Burlington Mall Road, Suite 207, Burlington, MA • USA</td>
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<td>BORCHERDT CONCRETE PRODUCTS</td>
<td>326 Hardscratch Road, Brooklyn, NS • CA</td>
<td>(902) 742-7811</td>
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#### READY-MIX (OSCO Concrete):

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<tr>
<td>OSCO CONCRETE NB</td>
<td>101 Ashburn Lake Rd., Saint John, NB • CA</td>
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<td>OSCO CONCRETE NB - Moncton</td>
<td>1212 Berry Mills Rd, Moncton, NB • CA</td>
<td>(506) 858-7110</td>
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<tr>
<td>SCHURMAN CONCRETE</td>
<td>240 MacEwen Rd, Summerside, PE • CA</td>
<td>(902) 888-4331</td>
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<tr>
<td>MACLEAN’S READY-MIX</td>
<td>669 Queen’s Road, Montague, PE • CA</td>
<td>(902) 838-2925</td>
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<tr>
<td>SACKVILLE CONCRETE</td>
<td>17 Estate Drive, Lower Sackville, NS • CA</td>
<td>(902) 864-3230</td>
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<td>BEDFORD READY-MIX</td>
<td>414 Bluewater Rd., Bedford, NS • CA</td>
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<td>GLENHOLME READY-MIX</td>
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<td>ANNAPOLIS VALLEY READY-MIX</td>
<td>20 Park Drive, Windsor, NS • CA</td>
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#### AGGREGATES:

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<td>OSCO AGGREGATES</td>
<td>248 Canaan Mountain Road, Canaan Mountain, NS • CA</td>
<td>(902) 546-2373</td>
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#### CONSTRUCTION:

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<td>FCC CONSTRUCTION</td>
<td>400 Chesley Drive, Saint John, NB • CA</td>
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<td>MARQUE CONSTRUCTION</td>
<td>400 Chesley Drive, Saint John, NB • CA</td>
<td>(506) 634-1144</td>
<td>1966</td>
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<td>KENNEBEC CONSTRUCTION</td>
<td>400 Chesley Drive, Saint John, NB • CA</td>
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#### REBAR:

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<tr>
<td>OCEAN STEEL REBAR LIMITED</td>
<td>400 Chesley Drive, Saint John, NB • CA</td>
<td>(506) 632-2600</td>
<td>1955</td>
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<tr>
<td>ALLSTAR REBAR NOVA SCOTIA</td>
<td>48 Duke Street, Bedford, NS • CA</td>
<td>(902) 832-0917</td>
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